

Cloud Streaming Services

Console Guide

Product Documentation



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Console Guide

Console Overview

Last updated : 2023-10-17 17:45:00

To help you quickly get started with the CSS console, this document will introduce some frequently used CSS services. They are grouped into four modules based on user needs: Basic Services, Scenario-Specific Services, Data Center, and CSS Toolkit.

Basic Services

This module provides basic services of CSS. If you only want to use basic live streaming services, this is the right module for you.

Feature	Description
Overview	<p>You can view live streaming value-added features, their application scenarios, and functional characteristics.</p> <p>You can view relevant data such as billing bandwidth/traffic trends, live streaming real-time data, and concurrent connection numbers.</p> <p>You can switch billing modes or change the time granularity as needed.</p>
Domain Management	<p>Add and manage your own acceleration domains and configure CNAME for them. Generate live streaming URLs.</p> <p>You can apply created templates for recording, transcoding, screencapture, time-shifting, watermarking, and callbacks to live streaming domains.</p> <p>You can configure live streaming domains with authentication, HTTPS protocol, acceleration regions, bandwidth caps, delayed playback, IP blacklists and whitelists, HTTP response headers, origin server information, and more.</p>
Stream Management	Manage live, historical, and disabled streams and disable and resume streams.
Resource Package Management	View usage of traffic and transcoding packages.

Live+

Live+ gathers various value-added services for Cloud Streaming Services, including transcoding, watermarking, screencapture, standby stream, pull and relay, and more. If you need to use these services, you can configure them in this module.

Feature	Description
Feature Configuration	We provide configuration template services for various features required in live streaming, such as watermarking, recording, transcoding, screencapture, time-shifting, adaptive bitrate, callbacks, and DRM management. To reduce the complexity of page navigation, we have added a new process for binding templates to domain names.
Pull and Relay	We offer the ability to pull live video or on-demand files from third-party platforms and push them to Cloud Streaming Services. You can directly perform operations such as mixing, recording, and more on the audio and video content. This feature allows for easy cross-platform distribution and the capability to convert on-demand content to live streaming.

Data Center

Data analysis provides users with professional data analysis services. You can query the consumption of traffic/bandwidth, transcoding, watermarking, relaying, and screencapture within a specific time granularity. Additionally, it offers log analysis functionality, making it convenient for users to monitor resources and obtain useful data.

Feature	Description
Billing Usage Statistics	You can query the billing items, including the related data generated by push and pull stream traffic/bandwidth, recording, time-shifting, screencapture, transcoding, and relaying.
Operation Analysis	You can view live streaming playback data analysis, user distribution, and origin server back-to-origin data, among other information.
Stream Data Query	You can query the data details of a single video stream, such as push, playback, live streaming records, callback events, etc., and export the data to your local machine.
Errors	You can query abnormal events that occur during live streaming push.
Stream Interruption Records	You can query the records and reasons for live streaming push interruptions.
SDK Quality Monitoring	You can query the push data information of the live SDK for the past 3 days.

CSS Toolkit

The Live Toolbox mainly provides some auxiliary features for ensuring live streaming processes and the use and management of live SDKs.

Feature	Description
Web Push	Quickly experience the Web push feature, with input sources including camera capture, screen sharing, and local file collection. It also supports multi-stream mixing, enabling push testing in various scenarios.
Address Generator	Provide the necessary information to splice push/playback URLs.
Self-Diagnosis	Quickly diagnose common live streaming push/playback issues. The diagnostic results are for reference only.
MLVB SDK	In conjunction with the Live SDK, you can add and manage official licenses and bind related resource packages.

Overview

Last updated : 2024-06-07 15:21:39

In the CSS console, you can manage domain name and streams, configure transcoding, recording, and acceleration, as well as push streams (web) and monitor resources.

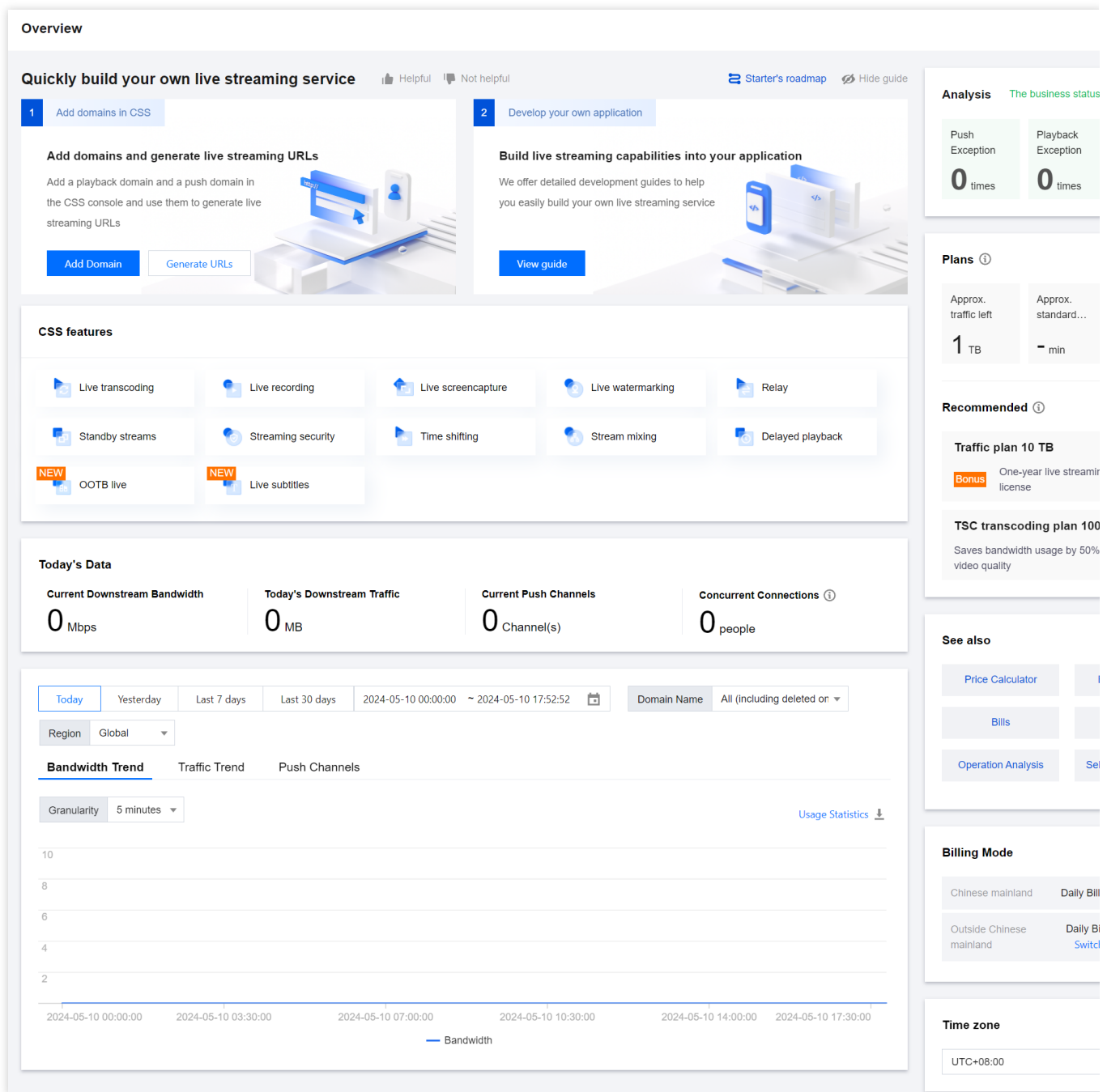
Prerequisites

You have activated [CSS](#).

You have logged in to the [CSS console](#).

Overview

By clicking on the **Overview** in the left sidebar, you can view a variety of data, including real-time downstream bandwidth, today's downstream traffic, the current number of push channels, concurrent connections, and trends for billed bandwidth, billed traffic, and the number of push channels over the past 30 days. Additionally, you can view the **Business Analysis**, switch **Billing Mode** as required, or adjust the time granularity. For beginner's guidance, you can click on the **Guide** in the upper right corner to view instructions for getting started with CSS.



Today's Data

This section displays the downstream peak bandwidth, downstream traffic usage, the current number of push channels, and the number of concurrent connections of the day.

Item	Description
Current Downstream Bandwidth	The peak bandwidth consumed for acceleration by all playback domain names.
Today's Downstream Traffic	The total traffic consumed for acceleration by all playback domain names on the current day.

Current Push Channels	The number of current push channels.
Concurrent Connections	If the playback protocol is RTMP or FLV, Concurrent Connections indicates the number of online viewers. If the playback protocol is HLS, Concurrent Connections cannot be used as an indication of the number of online viewers.

Usage Trends

This section displays usage trends (**Bandwidth Trend**, **Traffic Trend**, and **Push Channels**) for today, yesterday, the last 7 days, and the last 30 days.

Item	Description
Bandwidth Trend	The sum of the peak bandwidth consumed for acceleration by all playback domain names in the query period.
Traffic Trend	The total traffic consumed for acceleration by all playback domain names in the query period.
Push Channels	The number of push channels under the selected domain names in the query period.

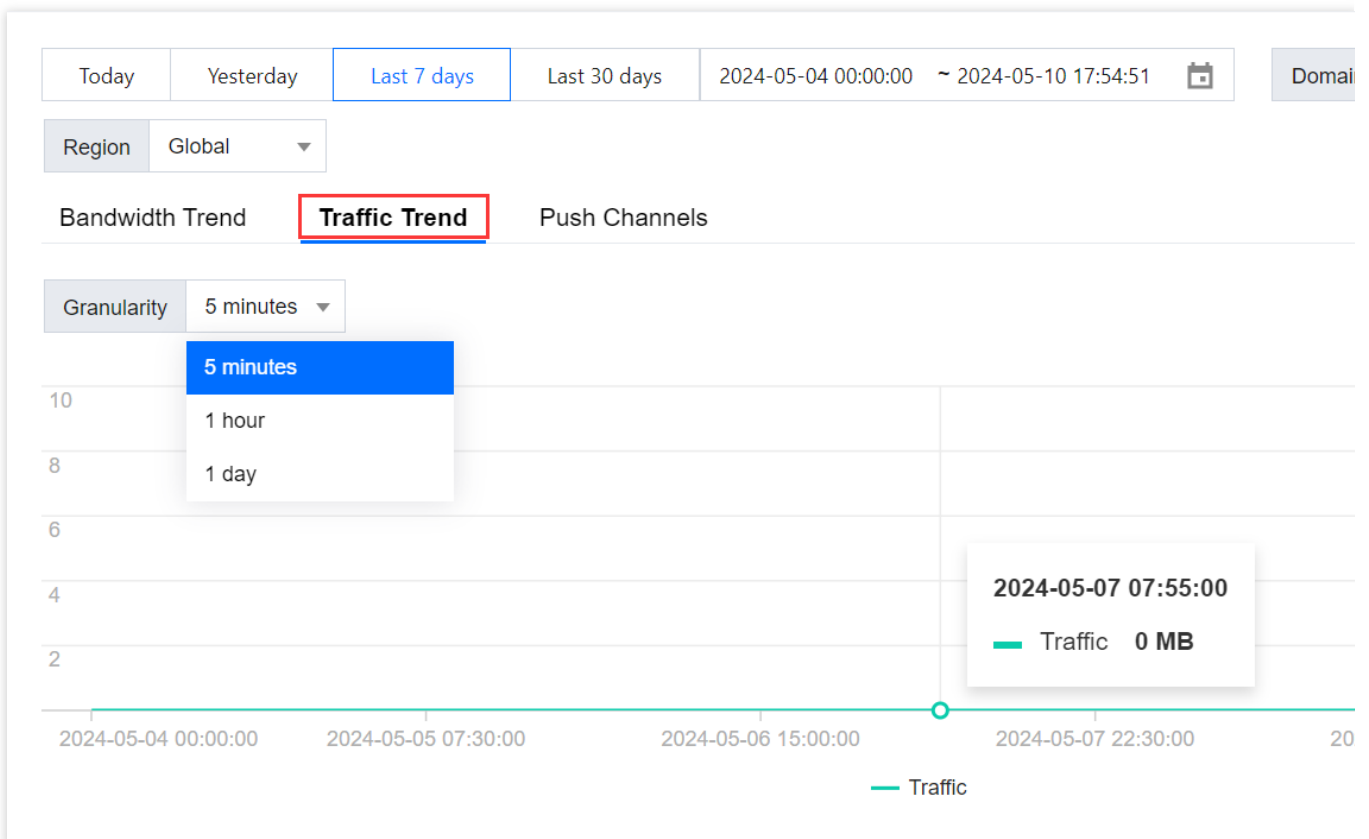
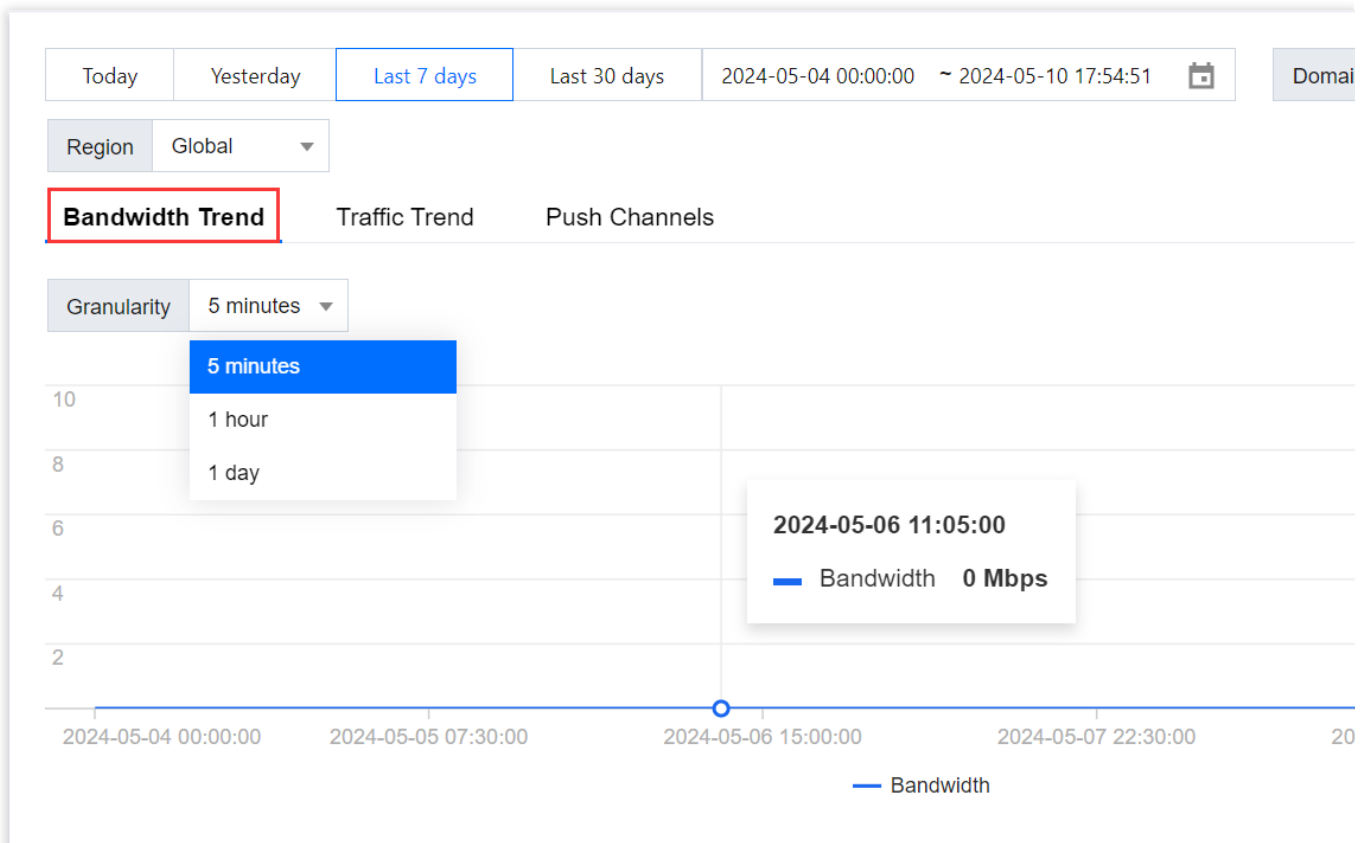
Changing the Granularity

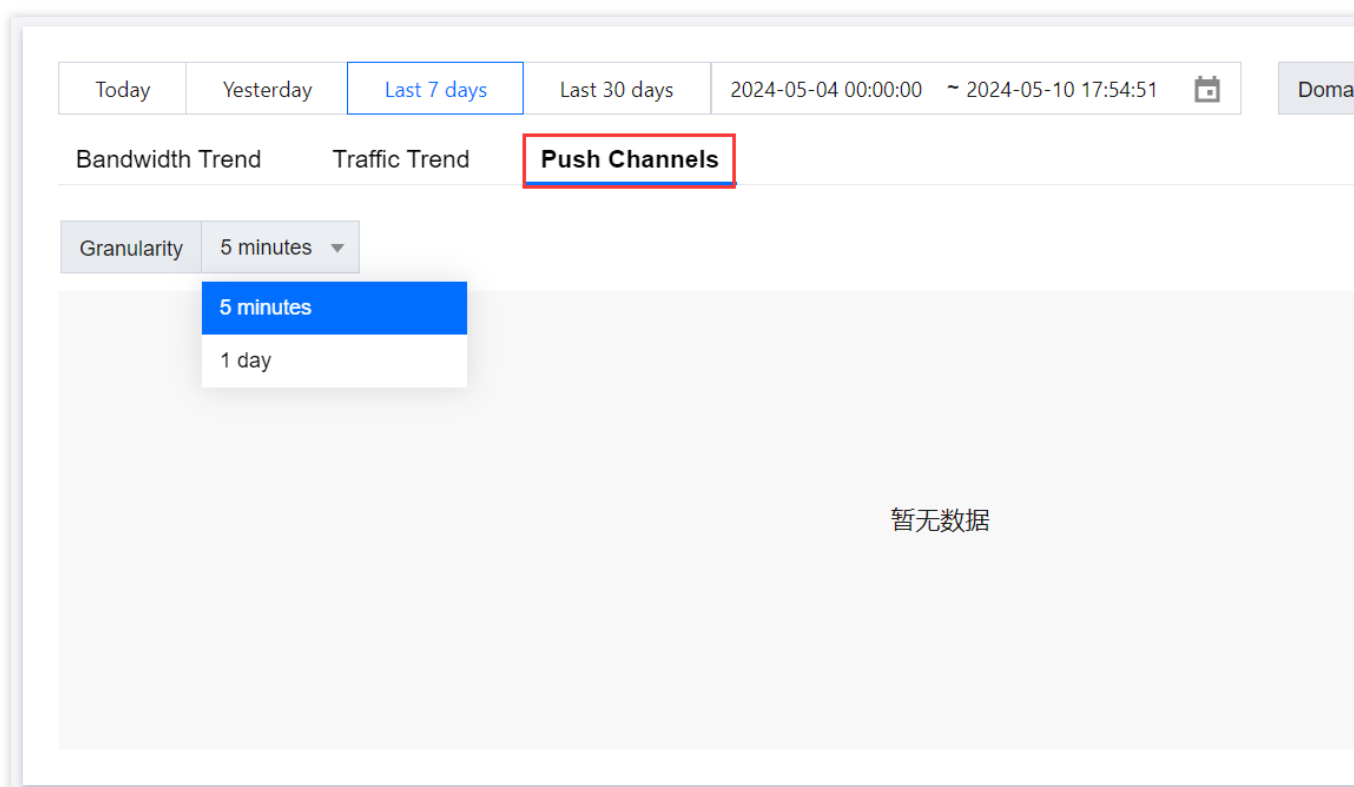
You can click the drop-down list box next to **Granularity** to change the granularity of the usage trend data.

Bandwidth Trend

Traffic Trend

Push Channels





Business Analysis

Note:

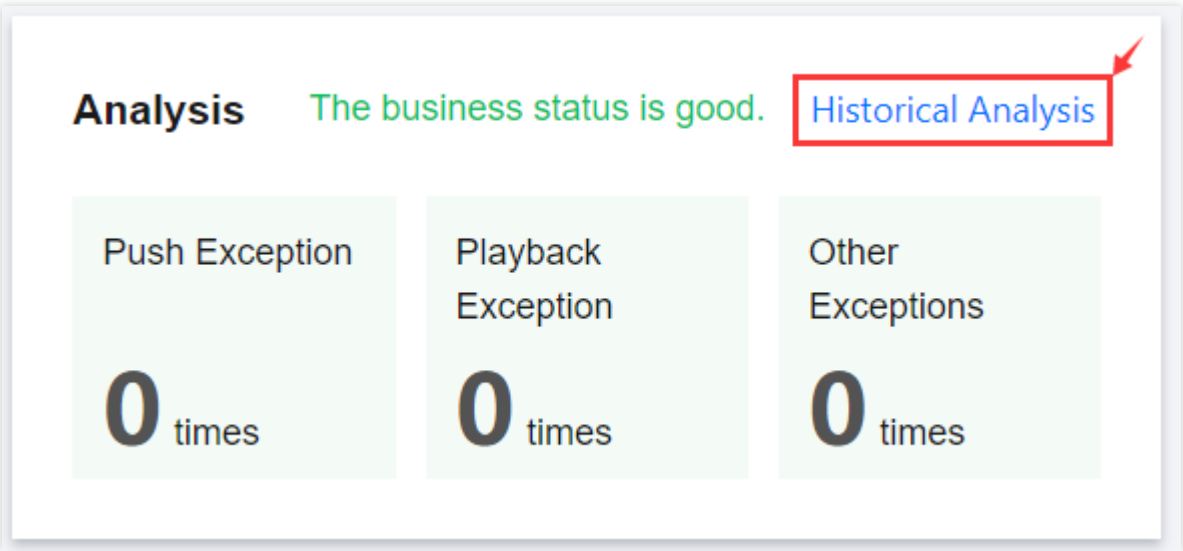
The real-time data statistics and reporting on the business analysis page may experience delay (about 1 hour).

Querying Business Analysis Data

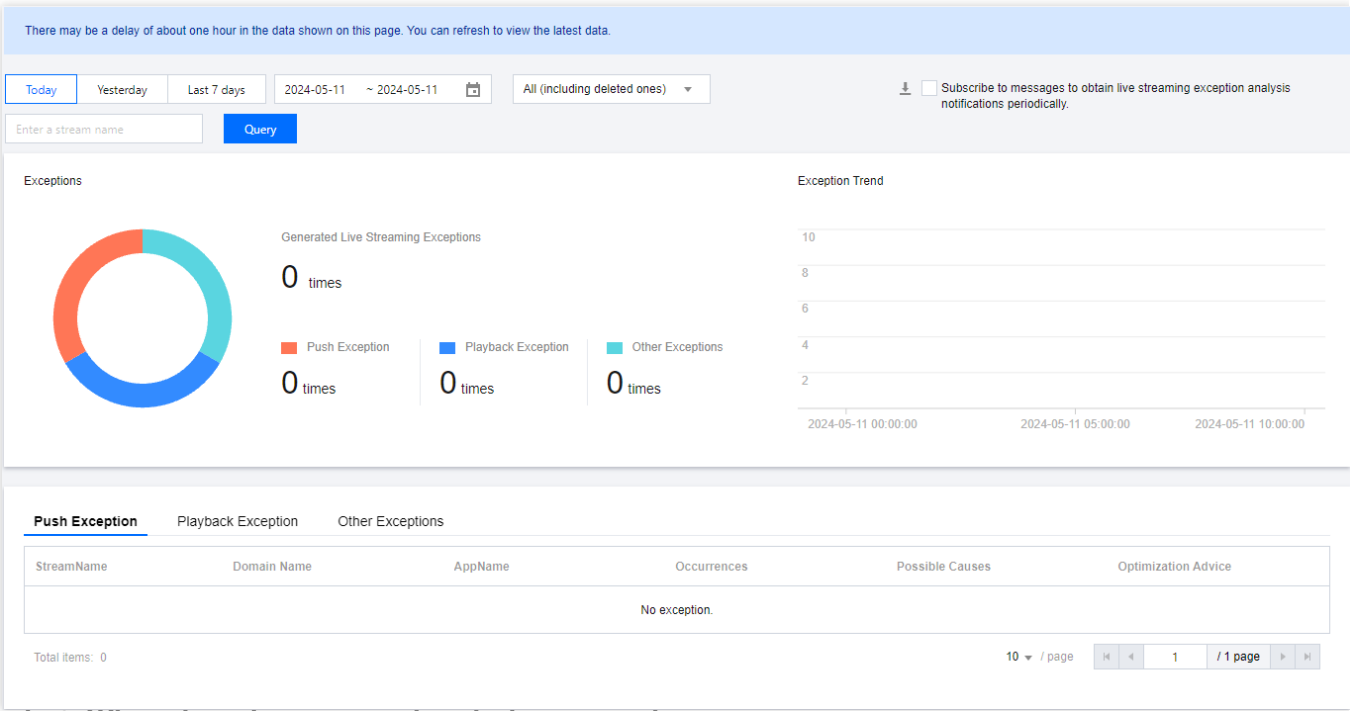
By default, the business analysis feature displays the current day's business usage data. It supports filtering by domain name and flow ID. Also, it supports querying data from the last 7 days.

Scenario 1: When the business status is good.

1.1 If the business condition is good, click **Historical Analysis**.

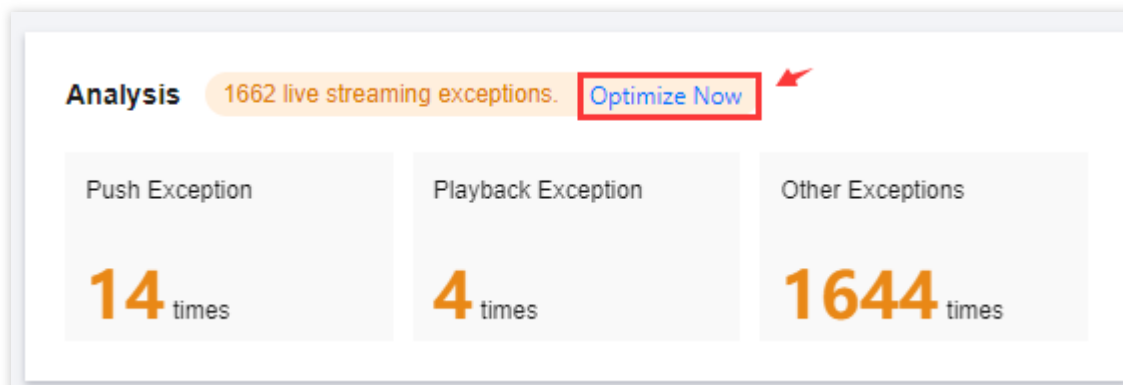


1.2 Navigate to the business analysis page to query relevant data.



Scenario 2: When there is an exception during streaming.

If there is an exception during streaming, click **Optimize Now** to enter the business analysis page.

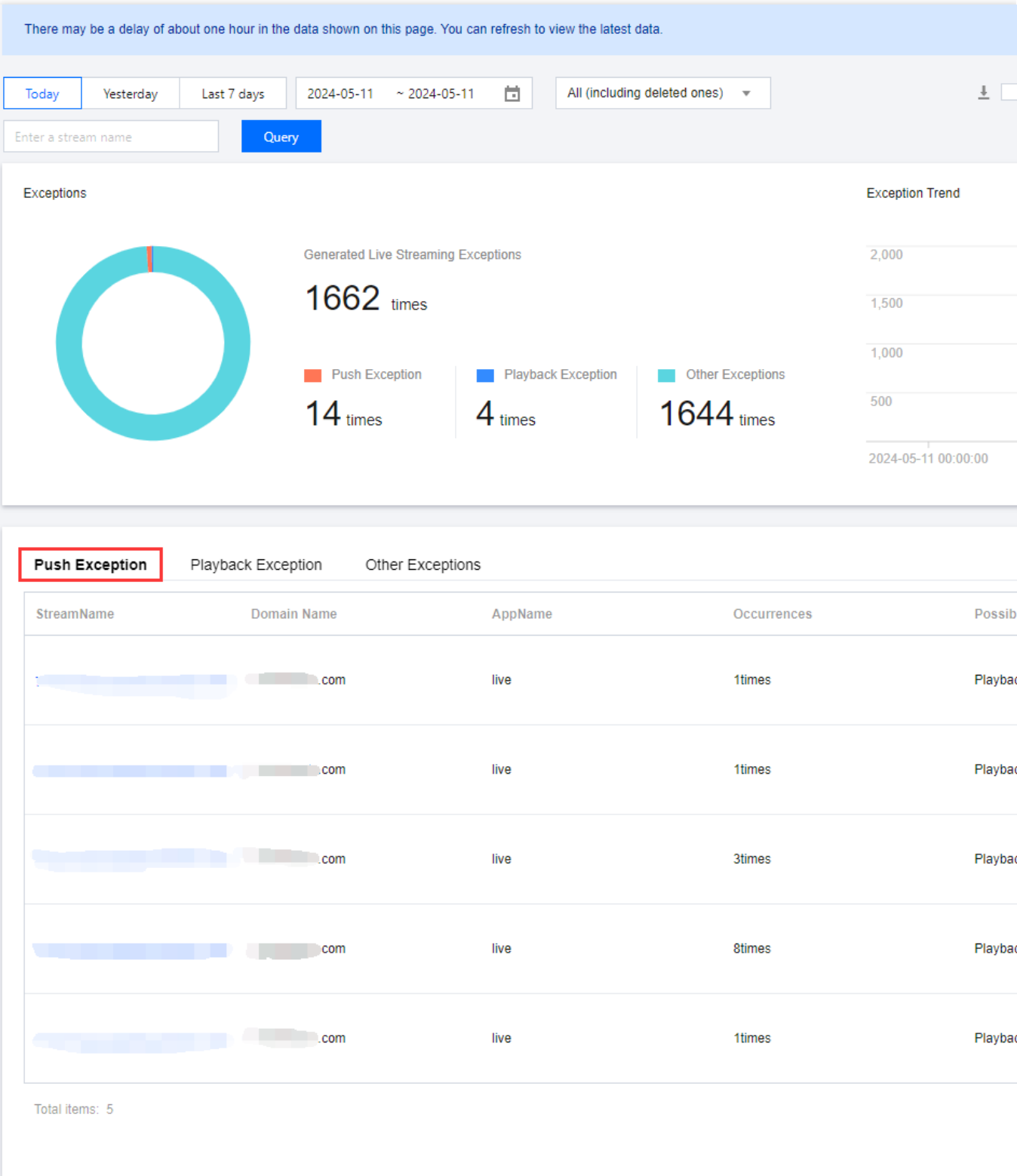


After entering the business analysis page, you can view information on the number of exceptions, exception trends, **Push Exception** , **Playback Exception** , and **Other Exceptions** . And understand the potential reasons for the exceptions and optimization suggestions.

Push Exception

Playback Exception

Other Exceptions



There may be a delay of about one hour in the data shown on this page. You can refresh to view the latest data.

Today

Yesterday

Last 7 days

2024-05-11 ~ 2024-05-11

All (including deleted ones)

Enter a stream name

Query

Exceptions

Generated Live Streaming Exceptions

1662 times

Push Exception

14 times

Playback Exception

4 times

Other Exceptions

1644 times

Exception Trend

2,000

1,500

1,000

500

2024-05-11 00:00:00

Push Exception

Playback Exception

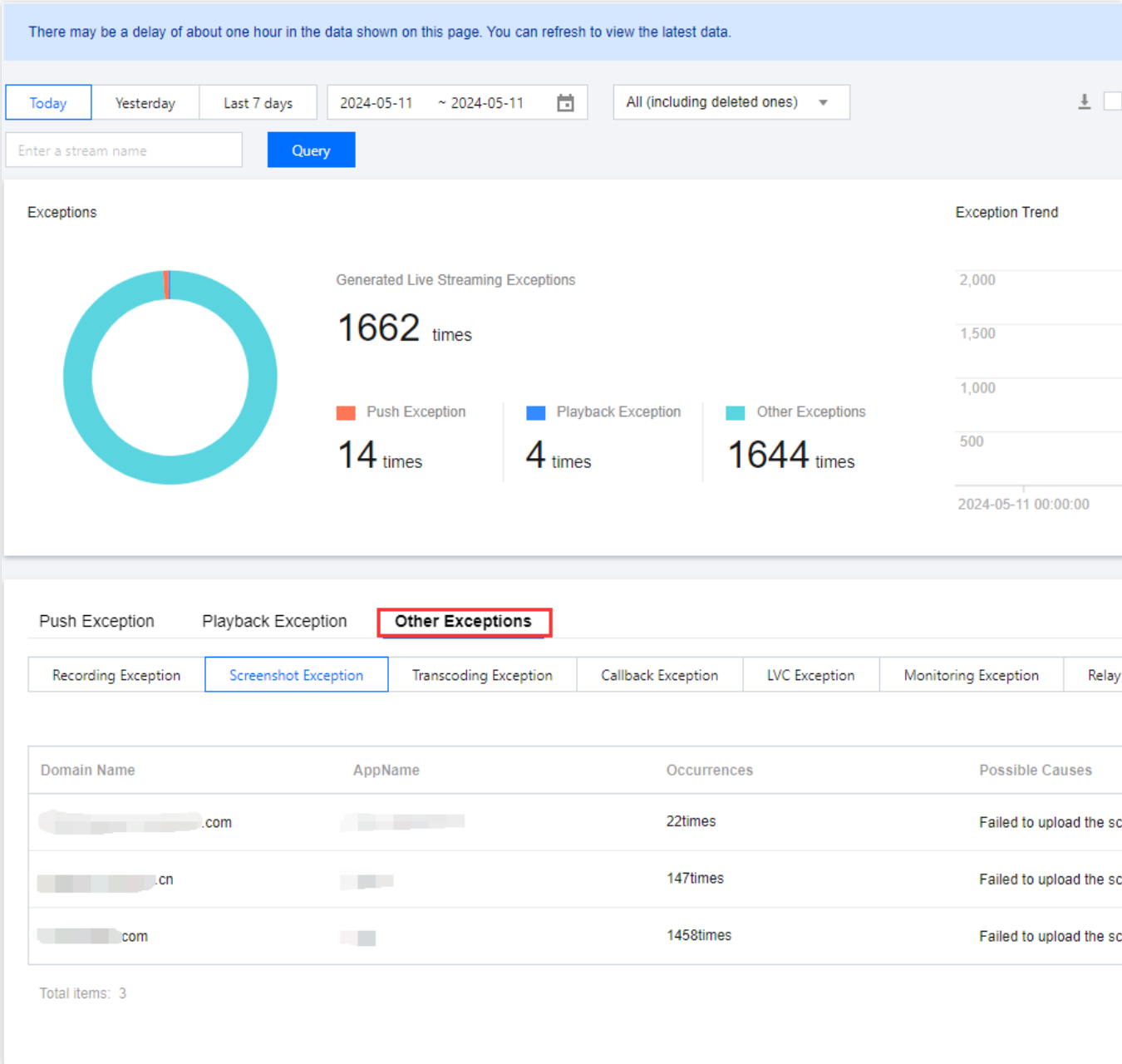
Other Exceptions

Domain Name	Occurrences	Possible Causes
██████████.com	1times	The bandwidth or traffic increases dramatically.
██████████.com	1times	The bandwidth or traffic increases dramatically.
██████████.com	1times	The bandwidth or traffic increases dramatically.
██████████.com	1times	The bandwidth or traffic increases dramatically.

Total items: 4


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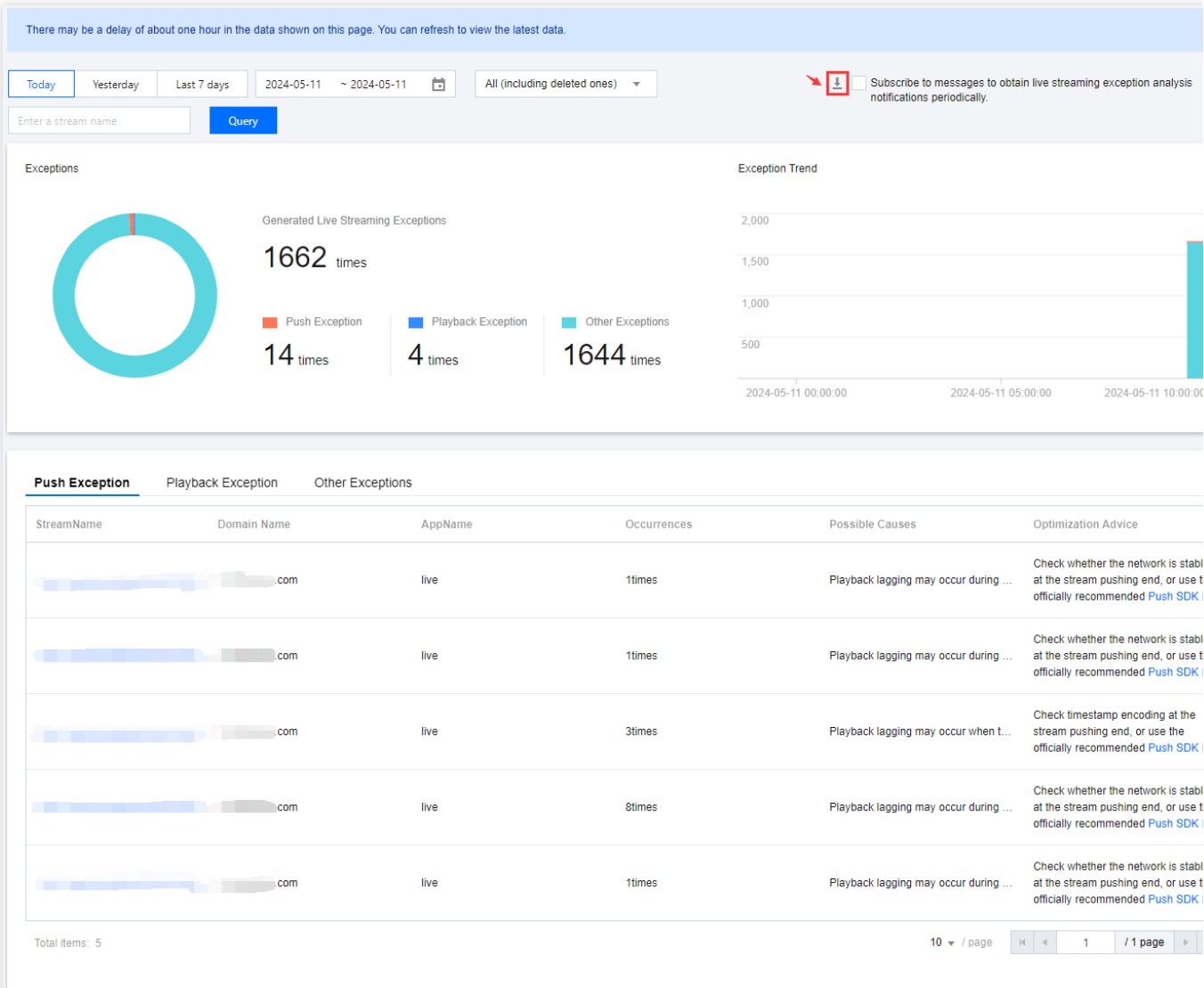


Downloading Exception Data

1. Based on your actual business needs, you can click



to download the business analysis report. This PDF document contains the streaming exception result information detected within the last 7 days. You can review and analyze it.



Download Exception Data

×

Select the functional modules whose exception data needs to be downloaded.

Data collection and clarification take time. Once completed, data is downloaded automatically.

☒ Select All

☒ Push Exception

☒ Playback Exception

☒ Recording Exception

☒ Screenshot Exception

☒ Transcoding Exception

☒ Callback Exception

☒ LVC Exception

☒ Monitoring Exception

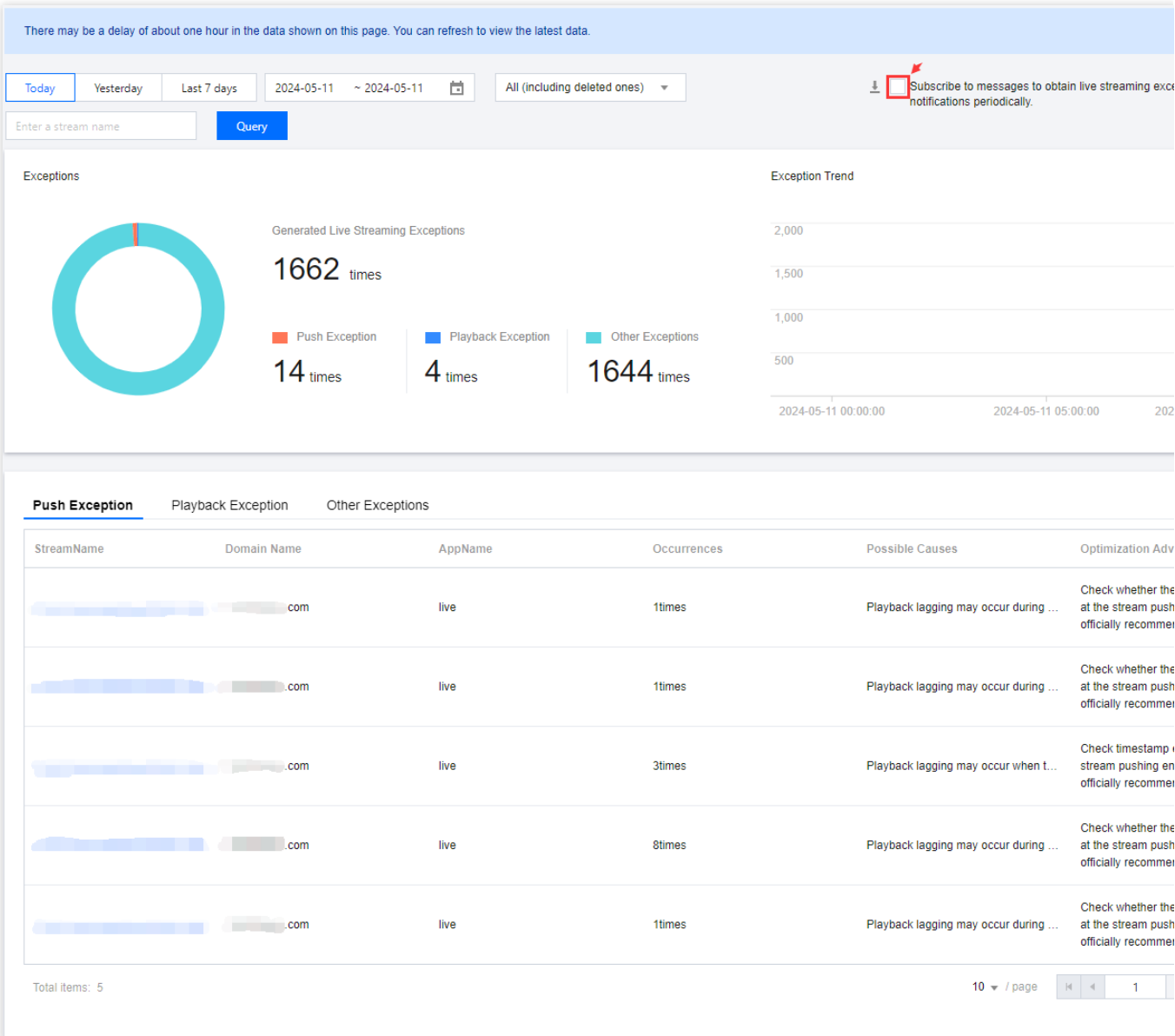
☒ Relay Exception

Download

Cancel

Streaming Exception Analysis Free Subscription

1. We offer a message subscription service. Based on your actual business needs, simply check the subscription option to regularly receive streaming exception analysis notifications.



2. Once subscribed, we will send your CSS business exception analysis to the following channels on a weekly basis: message center, email, and SMS.

Free subscription to live streaming exception analysis is successful.

After you subscribe, CSS exception analysis will be sent to the following channels weekly:

☒ Messages in Tencent Cloud Console

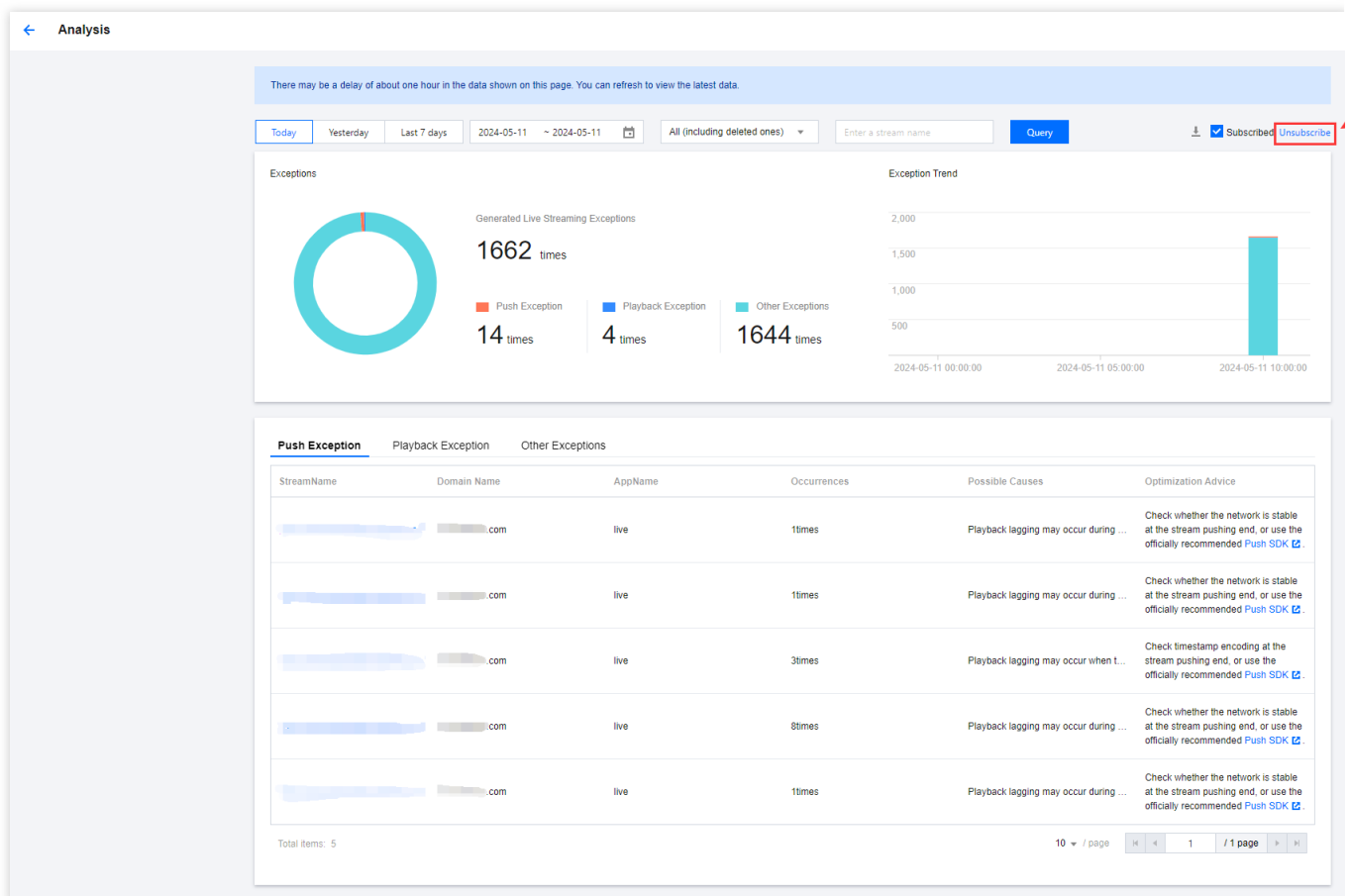
☒ Mail

☒ Short Message

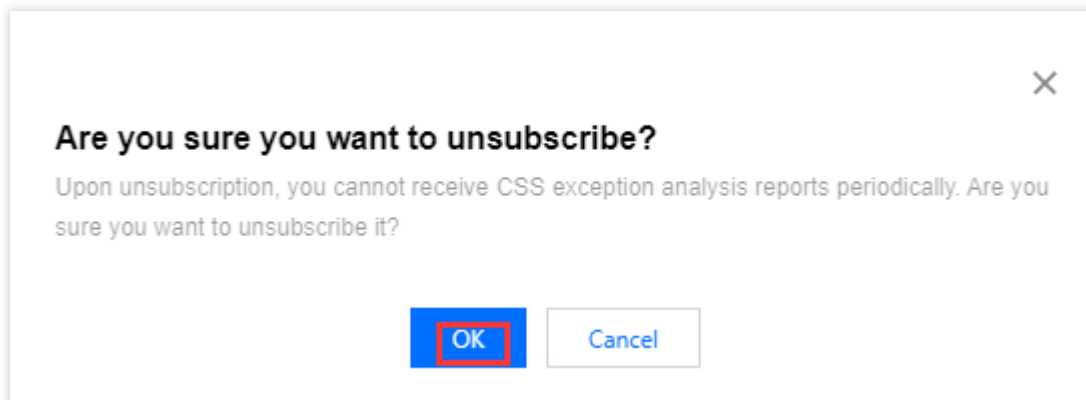
Complete

Cancel

3. If you choose to unsubscribe, simply click **Unsubscribe** .



4. A pop-up reminder appears, and you need to click **OK** again to complete the unsubscribe process. We recommend keeping your subscription active to regularly receive streaming exception analysis notifications.



Resource Package

Note:

The remaining amount of resource packages displayed on the overview page is not real-time data. The update time coincides with the settlement time of the account statement.

Viewing Resource Package Consumption Details

Click **Manage** on the right to enter the [Resource Package/Plugin Management](#) page.

You can view the **Usage** , **Creation Time** , **Expiration Time** , **Status** , and **Auto-renewal** of traffic resource packages/transcoding resource packages.

Auto-renewal (renew automatically when it is exhausted or expired) is supported for streaming traffic resource packages and streaming transcoding resource packages (including standard transcoding and top speed codec transcoding). For details, see [Renewal](#) documentation.

Purchasing Traffic Resource Package: Click Buy under the traffic package statistics, and you will enter the [CSS Traffic Resource Package Purchase Page](#) to purchase related packages.

ID	Type	Usage	Creation Time ↓	Expiration Time ↕	Status
[ID]	Standard transcoding plan	Used/Total: 100 hours/100 hours	2023-04-26 15:42:07	2024-04-26 15:42:07	Expired
[ID]	Standard transcoding plan	Used/Total: 5 hours/5 hours	2023-04-26 15:42:07	2024-04-26 15:42:07	Expired
[ID]	TSC transcoding plan	Used/Total: 50 hours/50 hours	2023-04-26 15:42:06	2024-04-26 15:42:06	Expired
[ID]	TSC transcoding plan	Used/Total: 100 hours/100 hours	2023-04-26 15:42:06	2024-04-26 15:42:06	Expired

Note:

For information on billing prices, see [Pricing Overview](#).

Billing

Switching Billing Mode

Based on your actual business needs, if your current billing mode is daily bill-by-traffic or daily bill-by-bandwidth, you can click **Switch** to change the billing mode.

Billing Mode

Chinese mainland

Daily Bill-by-Traffic [Switch](#)

Outside Chinese mainland

Daily Bill-by-Traffic [Switch](#)

To view billing switch reminders, click **Confirm** to complete the switch of billing mode. For more detailed information on billing changes, see [Changing Billing Modes](#).

Chinese Mainland Billing Mode:

Change (Chinese Mainland)

- The new billing mode will take effect at 00:00 (UTC+8) the next day.

Before Daily bill-by-traffic

After Daily bill-by-bandwidth

Products LVB, LEB

☐ I understand the [pricing](#)  for different billing modes.

[Confirm](#)[Cancel](#)

Outside Chinese Mainland Billing Mode:

Change (Outside Chinese Mainland) ×

- The new billing mode will take effect at 00:00 (UTC+8) the next day.

Before


Daily bill-by-traffic

After

Daily bill-by-bandwidth

Products

LVB, LEB

☐ I understand the [pricing](#)  for different billing modes.

Confirm

Cancel

Domain Management

Adding Domain Names

Adding Your Own Domain

Last updated : 2023-10-08 14:13:06

To use CSS, you must have at least **two** domains, one push domain and one playback domain. You cannot use the same domain for both push and playback.

Prerequisites

1. You have activated [CSS](#).

Adding Your Own Domain

1. Log in to the [CSS console](#) and select **Domain Management** on the left sidebar.
2. Click **Add Domain** and complete the following settings in the pop-up window:
 - 2.1 If you need to add a **push domain**: Enter the domain name and select the domain type as **Push Domain**.
 - 2.2 If you need to add a **playback domain**: Enter the domain name, select the domain type as **Playback Domain**, and choose the acceleration region, with the default being **Chinese mainland**.
 - 2.3 Tags are used to categorize and manage resources from different dimensions. If the existing tags do not meet your requirements, you can also go to the Tag Console to manage tags uniformly.
 - 2.4 Click on **Add Domain**.

Add Domain

1 Basic settings

>

2 CNAME Configuration

You can add 54 more push or playback domain names.

Type *

Playback Domain

Acceleration region *

Outside Chinese mainland

!

You are applying for activating live acceleration service in Hong Kong/Macao/Taiwan (China Region) and other regions. Please note that the request for Chinese mainland will not be resolved. For specific prices, please see [reference documentation](#)

Domain Name *

Enter a domain name, such as www.test.com

Tag (optional) ⓘ

Tag Key

Tag Value

×

+ Add

Add domain

Caution

The domain name can be up to **45** characters long and cannot contain uppercase letters.

By default, you can add up to 100 domains under each Tencent Cloud account. If you need to add more than 100 domains, please [submit a ticket](#) to raise the limit.

You can change the acceleration region of a domain added. On the **Domain Management** page, click the name of the domain or click **Manage** on the right. Select the **Advanced Configuration** tab, click **Edit** in the **Region configuration** area, select the acceleration region again in the pop-up window, and click **Save**.

Verifying Your Domain

To make sure that a domain can only be added by its owner, you need to verify your ownership of a domain before you can add it in the CSS console. For example, to add `a.test.com`, you need to verify your ownership of `test.com`. You don't need to verify again when adding domains with the same parent domain, such as

`b.test.com`. You can verify a domain either by adding a DNS record or by uploading an HTML file. If a previously added domain is not verified, when you add a domain with the same parent domain, verification is still required.

DNS record

You can verify your ownership of a domain by adding a DNS record at your DNS provider. If you use Tencent Cloud's DNS service, follow the steps below to add a DNS record.

1. Log in to the [DNSPod console](#).
2. Select **DNS > My Domains** on the left sidebar and click the parent domain of the domain you want to add.
3. On the **Record Management** page, click **Add Record**.
4. Enter the following information:

Parameter	Description
Host	Enter "cssauth".
Record Type	Select "TXT".
Record Value	CSS assigns a unique record value for each domain. You can view it in the CSS console when adding your domain.

5. Click **Confirm**. The TXT record will take effect in about five minutes.
6. Return to the CSS console, click **Verify now**. If the verification succeeds, you can proceed to the next step.

Verify domain

Domain Name

DNS record

HTML file

1

Add the DNS record below for the primary domain **liveteststream.com** at your DNS provider. How do I add a DNS record?

Host	Type	Value
cssauth	TXT	cssauth_C. 8. 05

2

The TXT record has been added and will take effect in about five minutes.

3

Verify now

Close

HTML file

You can also verify your domain by uploading an HTML file.

1. When asked to verify your domain in the CSS console, select **HTML file**.

2. Download the file.

3. Upload the file to the root directory of the second-level domain.

4. Make sure you can access the file via `http://second-level domain/second-level domain_cssauth.html`.

5. Click **Verify now**. If the verification succeeds, you can proceed to the next step.

Verify domain

Domain Name

DNS recordHTML file

1

Download the verification file [m_cssauth.html](#)

2

Upload the file to the root directory of liveteststream.com

3

Check whether the file can be accessed through [http://m_cssauth.html](#)

4

Verify now

Close

Caution

After finishing the **Basic settings**, you can proceed to the **CNAME configuration** step. For more information about CNAME configuration, see [Configuring CNAME for Domain Name](#).

Configuring CNAME

Last updated : 2023-11-20 17:00:36

After the domain is connected to CSS, the system will automatically assign a CNAME domain for you (the CNAME suffix for the push domain is `.tlivepush.com`, and the CNAME suffix for the playback domain is `.txlivecdn.com`), which you can view in [Domain Management](#). To make your domain accessible, you need to add a CNAME record at your DNS service provider. You can use CSS only after the configuration takes effect.

Notes

CNAME resolution is required for both playback and push domains.

For detailed directions on how to add a CNAME record, please consult your DNS service provider.

CNAME configuration generally takes effect in about 15 minutes. If you configure multiple levels of CNAMEs, CSS will be unable to track the resolution result. If your domain can be accessed, then the CNAME configuration is successful. If CNAME configuration fails to take effect after a long time, refer to [Domain Configuration](#) to troubleshoot the issue.

Prerequisites

You have registered a domain.

You have verified the domain and [added it](#) in [Domain Management](#) of the CSS console. You haven't added a CNAME record for the domain (the icon in the **CNAME** column is

). 

Directions

The following part shows you how to configure a CNAME record at Alibaba Cloud, Baidu AI Cloud, Wanwang, and Xinnet. The directions in this document are for reference only. Please follow the directions of your DNS service provider. To check whether your CNAME configuration has taken effect, see [Verifying CNAME Records](#).

Alibaba Cloud

If your DNS service provider is Alibaba Cloud, use the following steps to add a CNAME record:

1. Log in to the Alibaba Cloud console and go to **Alibaba Cloud DNS** > [Manage DNS](#).
2. Click the domain for which you want to add a CNAME record to go to the **DNS Settings** page.

3. Click **Add Record** and complete the following settings:

Type: Select `CNAME` .

Host: Enter the subdomain. For example, if your playback domain is `play.myqcloud.com` , enter `play` ; if you want to resolve `myqcloud.com` , enter `@` ; if you want to add a wildcard record, enter `*` .

ISP Line: `Default` is recommended.

Value: Enter the CNAME of the domain. You can view your domain's CNAME (`domain.txlivecdn.com`) on the **Domain Management** page of the CSS console.

TTL: 10 minutes is recommended.

4. Click **OK**.

Baidu AI Cloud

If your DNS service provider is Baidu AI Cloud, use the following steps to add a CNAME record:

1. Log in to the Baidu AI Cloud console and go to [Domain Name System](#).
2. Select the domain you added to CSS and click **Resolve** in the **Operation** column.
3. Add a DNS record:

CVM server record: Enter the second-level domain (prefix) of your domain. For example, if your playback domain is `play.myqcloud.com` , enter `play` ; if you want to resolve `myqcloud.com` , enter `@` ; if you want to add a wildcard record, enter `*` .

Record type: Select `CNAME record` .

Resolution line: `Default` is recommended.

Record value: Enter the CNAME. You can view your domain's CNAME (`domain.txlivecdn.com`) on the **Domain Management** page of the CSS console.

TTL: 10 minutes is recommended.

4. Click **Confirm**.

Wanwang

If your DNS service provider is Wanwang, use the following steps to add a CNAME record:

1. Log in to the Wanwang Member Center.
2. On the left sidebar, click **Product Management > My Cloud Resolution** to enter the cloud resolution list page.
3. Click the domain name to be resolved to enter the resolution record page.
4. On the resolution record page, click **Add Resolution**.
5. To add a CNAME record, select CNAME as the record type. For the host record, enter the domain prefix (such as `www`). For the record value, enter the CNAME to point to. Keep the default resolution line and TTL.
6. After completing the settings, click **Save**.

Xinnet

If your DNS service provider is Xinnet, add a CNAME record by **setting an alias (CNAME record)**.

An alias record allows you to map multiple names to the same computer and is generally used for computers providing both www and mail services. Suppose a computer named `host.mydomain.com` (A record) provides both www and mail services. To facilitate user access, you can set two aliases (CNAME records) starting with `www` and `mail` for this computer.

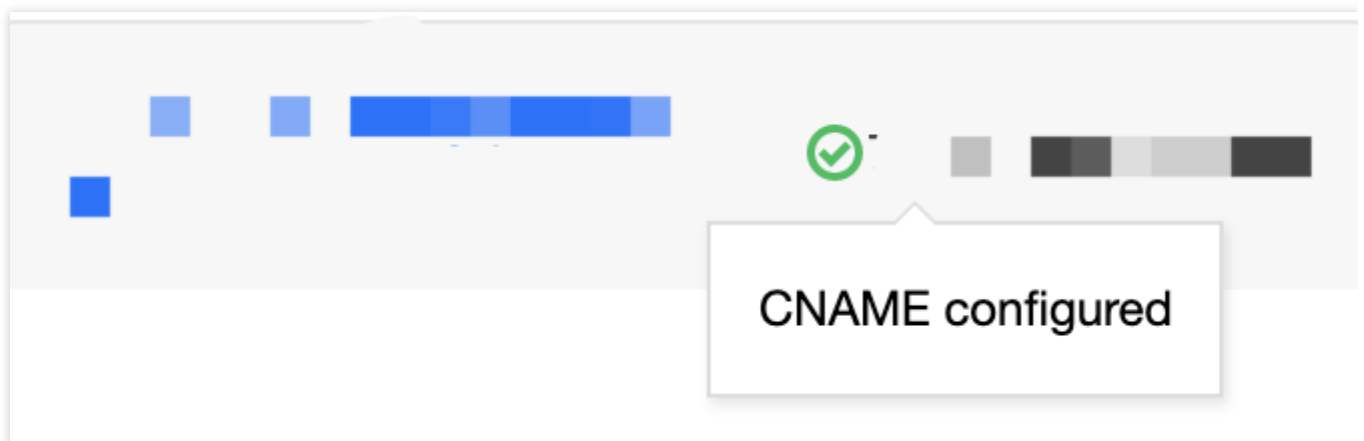
Verifying CNAME Records

A new CNAME record generally takes effect within 30 minutes. The exact time needed varies with provider. You can check whether a record has taken effect using the following methods.

Method 1: Go to [Domain Management](#) of the CSS console. If the icon in the **CNAME** column is



, CNAME configuration is successful.



Method 2: When you [add your domain](#) in the CSS console, after completing the basic settings, in the **CNAME configuration** step, you can view the CNAME status of the domain.

Method 3: On Linux/macOS, run the `dig` command (`dig your domain`). If the first row displays the destination domain provided by CSS, CNAME configuration is successful.

```

steven@P_PMMTIAN-MB1 ~ % dig
; <<>> DiG 9.10.6 <<>> play-ix.tencent-cloud.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 41591
;; flags: qr rd; QUERY: 1, ANSWER: 17, AUTHORITY: 4, ADDITIONAL: 7
;; WARNING: recursion requested but not available

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
;play-ix.tencent-cloud.com. IN      A

;; ANSWER SECTION:
play-ix.tencent-cloud.com. 600 IN    CNAME  play-ix.tencent-cloud.com.

```

Method 4: On Windows, open a Command Prompt window and enter `nslookup your domain`. If the destination domain name provided by CSS is displayed, CNAME configuration is successful.

```

Aliases:
play-ix.tencent-cloud.com

```

Note

If CNAME configuration fails to take effect after a long time, refer to [Domain Configuration](#) to troubleshoot the issue.

Push Domain Name Management

Push Configuration

Last updated : 2023-10-07 11:55:10

To protect your live streaming content, push authentication is enabled for push domains by default. You can use the address generator on the details page of a push domain to generate a push URL, which you can use to push streams (upload live videos) to the CSS platform.

Must-Knows

CSS provides a test domain name `xxxx.tliverpush.com`. You can use it to push streams for test purposes, but the test domain should not be used in production environments.

A push URL is valid before the expiration time you specify. After it expires, you need to generate a new URL.

Prerequisites

You have activated CSS.

Authentication Configuration

1. Go to [Domain Management](#), click the target **push domain name** or click **Manage** to enter the domain details page.
2. Click **Push Configuration** and, in the **Authentication Configuration** area, click **Edit**.

The screenshot displays the 'Push Configuration' tab in the Tencent Cloud console. It includes a 'Push URL' section with a 'URL Composition' formula and examples for RTMP, WebRTC, SRT, and RTMP over SRT URLs. Below this is the 'Authentication Configuration' section, which shows 'Push Authentication' set to 'Enable', and fields for 'Primary Key' and 'Backup Key'.

Push URL

URL Composition: `Push Domain + AppName + StreamName + Authentication Info`

RTMP URL: `rtmp://[Push Domain] / [AppName] / [StreamName] ?txSecret= md5(key+StreamName+hex(time)) &txTime= hex(time)`

WebRTC URL: `webrtc://[Push Domain] / [AppName] / [StreamName] ?txSecret= md5(key+StreamName+hex(time)) &txTime= hex(time)`

SRT URL: `srt://[Push Domain]:9000?streamid=#[:h=] [AppName] / [StreamName] ,txSecret= md5(key+StreamName+hex(time)) ,txTime= hex(time)`

RTMP over SRT URL: `rtmp://[Push Domain]:3570/ [AppName] / [StreamName] ?txSecret= md5(key+StreamName+hex(time)) &txTime= hex(time)`

Authentication Configuration

Push Authentication: ☒ Enable

Primary Key:

Backup Key:

3. In the pop-up window, toggle on **Push Authentication**.

4. Enter the primary key and backup key, and click **Save**.

Authentication Configuration ✕

Push Authentication

☒

Primary Key

[Generate](#)
Only support case-sensitive letters and digits, with a length of up to 256 bits.

Backup Key

[Generate](#)
Only support case-sensitive letters and digits, with a length of up to 256 bits.

Save

Cancel

Note

The primary key is required and the backup key is optional. Entering both allows you to switch to the other key when one key is disclosed.

Push Address Generator

Directions

1. Go to [Domain Management](#), click the target domain name or click **Manage** on its right to enter the details page.
2. Select **Push Configuration** and, in **Push Address Generator**, complete the following settings:
 - 2.1 Select an expiration time, such as `2022-11-24 16:00:35`.
 - 2.2 Enter a custom stream name (`StreamName`).
 - 2.3 Click **Generate Push Address** to generate a push URL containing the `StreamName`.

Push Address Generator

Push Hotlink Protection Key ⓘ

Push Callback Address http:

Push Domain

Expiration Time 2021-03-16 11:16:20



StreamName * Please enter StreamName

Generate Push Address

Push Address No push address yet. Please click "Generate Push Address".

3. If you haven't enabled authentication for your push domain, then you will also find RTMP, WebRTC, SRT, and RTMP over SRT URLs in the **Push URL** area. Replace `StreamName` in your playback URL with the stream name used for push, and you can use the URL to play the stream.

Push URL

URL Composition Push Domain + AppName + StreamName + Authentication Info

RTMP URL rtmp://[Push Domain]/[AppName]/[StreamName]?txSecret=md5(key+StreamName+hex(time))&txTime=hex(time)

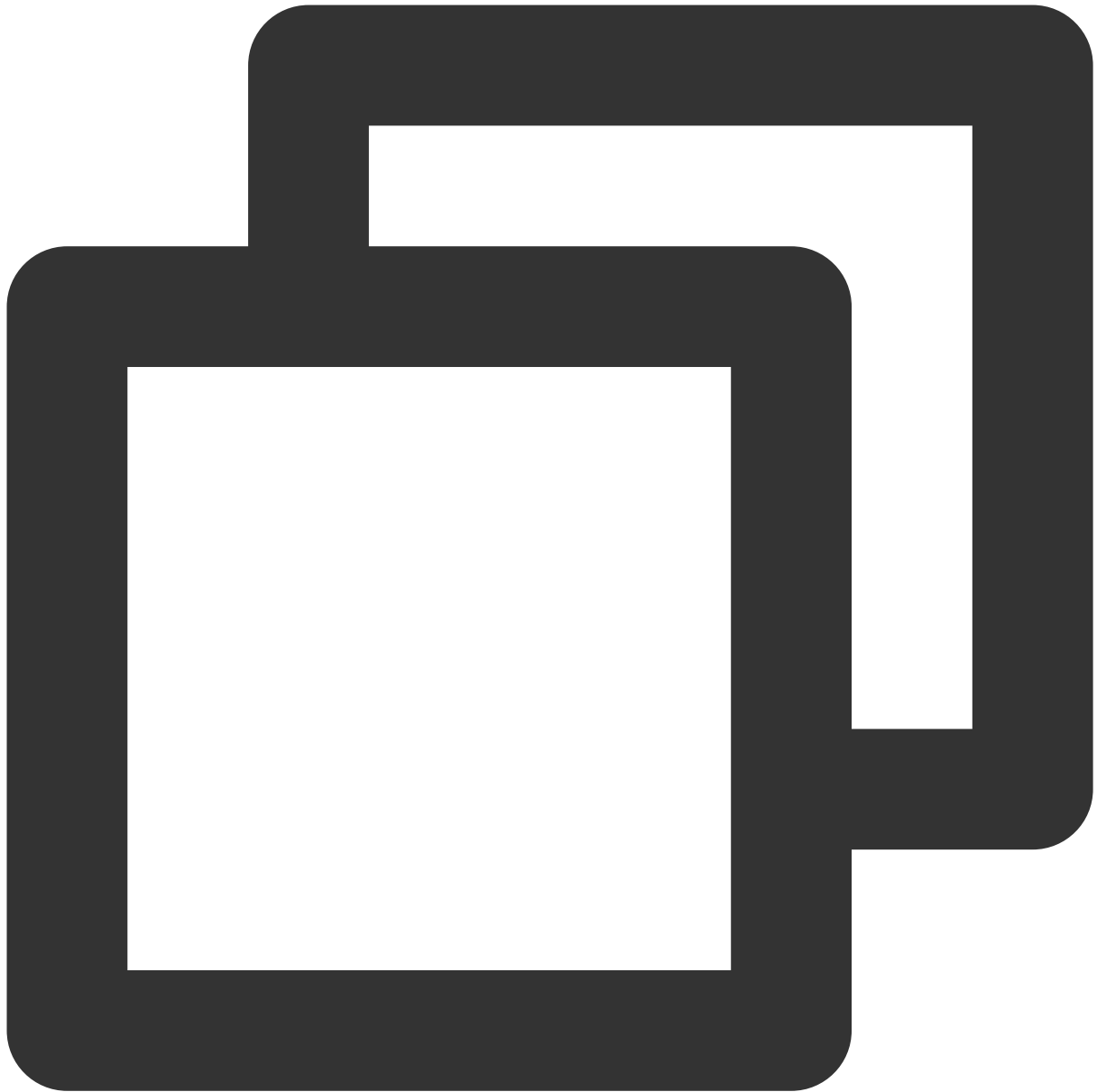
WebRTC URL webRTC://[Push Domain]/[AppName]/[StreamName]?txSecret=md5(key+StreamName+hex(time))&txTime=hex(time)

SRT URL ⓘ srt://[Push Domain]:9000?streamid=#!:h=[AppName]/[StreamName],txSecret=md5(key+StreamName+hex(time))&txTime=hex(time)

RTMP over SRT URL rtmp://[Push Domain]:3570/[AppName]/[StreamName]?txSecret=md5(key+StreamName+hex(time))&txTime=hex(time)

Push URL format

An RTMP push URL looks like this:



```
rtmp://domain/AppName/StreamName?txSecret=Md5(key+StreamName+hex(time))&txTime=hex(
```

Parameter description

`domain` : The push domain name.

`AppName` : The live streaming application name, which is `live` by default and is customizable.

`StreamName` : The custom stream name used to identify a live stream.

`txSecret` : The authentication string generated after push authentication is enabled.

`txTime` : The expiration timestamp for the push URL.

Caution

If you have enabled authentication, `txTime` indicates the expiration time of the URL.

For the sake of convenience, the console allows you to specify the URL expiration time in human-readable format. **If you enable authentication, when generating push URLs, the system will convert it to a hex timestamp (the value of `txTime`).**

As long as you start push or playback before the expiration time and the stream is not interrupted, the push or playback can continue even after the URL expires.

Sample Code of Push URL

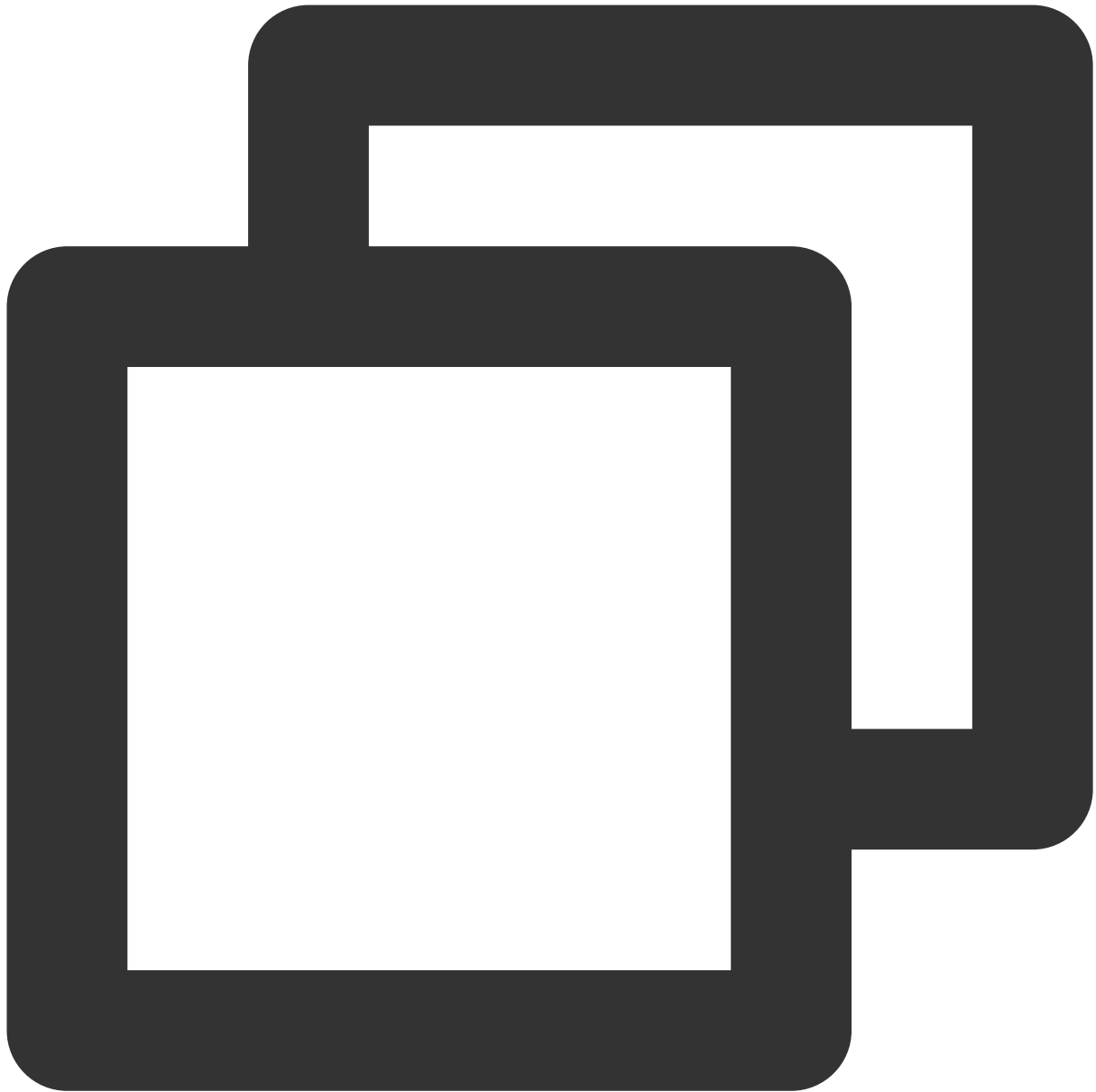
We offer sample code in PHP, Java, and Go for generating push URLs. To view the code, follow the steps below:

1. Log in to the CSS console and click [Domain Management](#).
2. Click a push domain name or click **Manage** on the right to enter its details page.
3. Select **Push Configuration** and scroll down to find **Push Address Sample Code**.
4. Click the tab to view the sample code for PHP, Java, or Go.

PHP

Java

GO



```
/**
 * Get the push URL
 * If you do not pass in the authentication key and URL expiration time, a URL witho
 * @param domain: Your push domain name.
 *     streamName: A unique stream name to identify the push URL.
 *     key: The authentication key.
 *     time: The URL expiration time (example: 2016-11-12 12:00:00).
 * @return String url
 */
function getPushUrl($domain, $streamName, $key = null, $time = null){
    if($key && $time){
```

```
$txTime = strtoupper(base_convert(strtotime($time),10,16));  
//txSecret = MD5( KEY + streamName + txTime )  
$txSecret = md5($key.$streamName.$txTime);  
$ext_str = "?".http_build_query(array(  
    "txSecret"=> $txSecret,  
    "txTime"=> $txTime  
));  
}  
return "rtmp://".$domain."/live/".$streamName . (isset($ext_str) ? $ext_str : "  
}  
  
echo getPushUrl("123.test.com","123456","69e0daf7234b01f257a7adb9f807ae9f","2016-09
```



```
package com.test;

import java.io.UnsupportedEncodingException;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;

public class Test {

    public static void main(String[] args) {
        System.out.println(getSafeUrl("txrtmp", "11212122", 1469762325L));
    }
}
```



```
private static final char[] DIGITS_LOWER =
    {'0', '1', '2', '3', '4', '5', '6', '7', '8', '9', 'a', 'b', 'c', 'd',

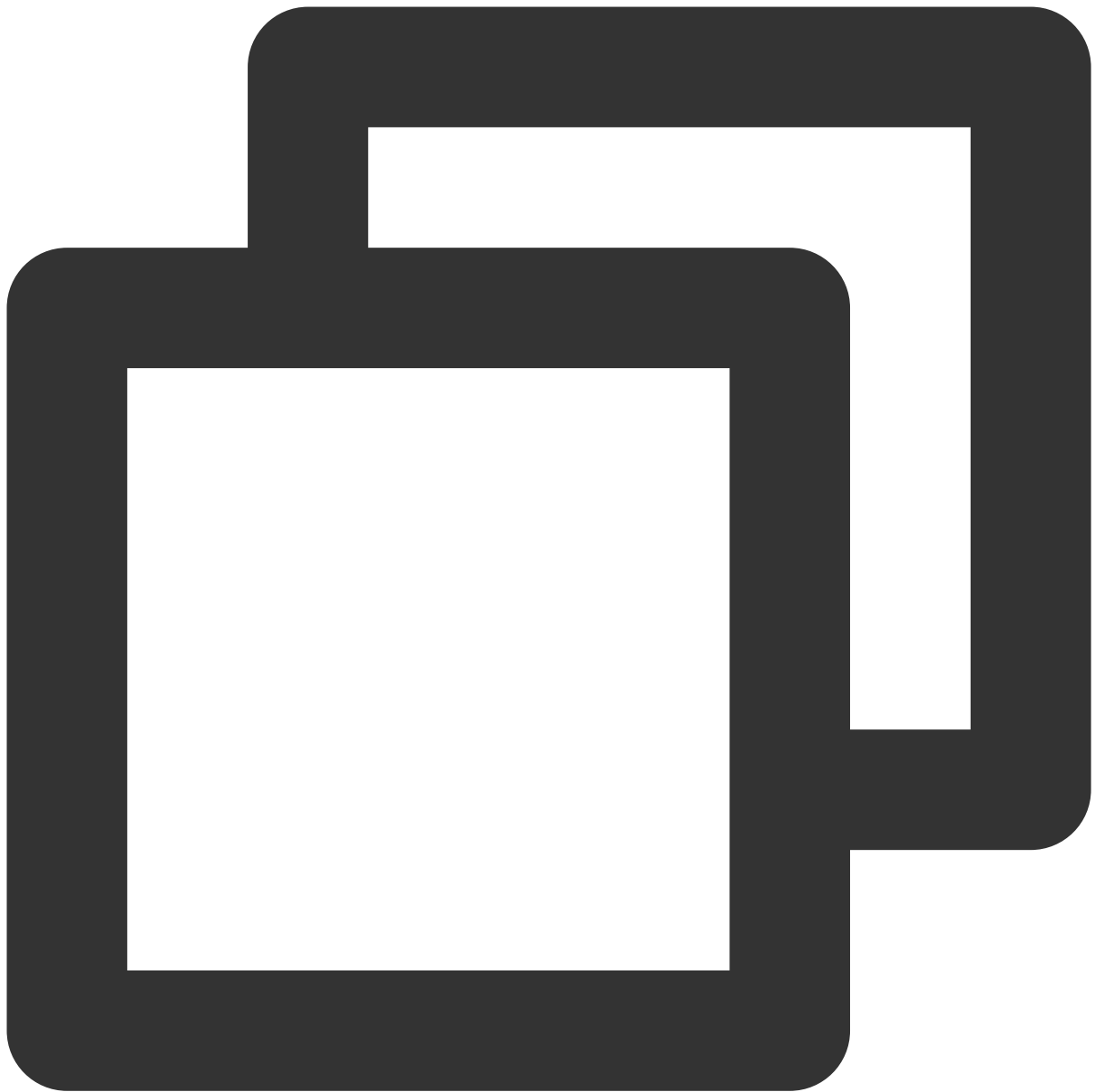
/*
 * KEY+ streamName + txTime
 */
private static String getSafeUrl(String key, String streamName, long txTime)
    String input = new StringBuilder().
        append(key).
        append(streamName).
        append(Long.toHexString(txTime).toUpperCase()).toStri

String txSecret = null;
try {
    MessageDigest messageDigest = MessageDigest.getInstance("MD5");
    txSecret = byteArrayToHexString(
        messageDigest.digest(input.getBytes("UTF-8")));
} catch (NoSuchAlgorithmException e) {
    e.printStackTrace();
} catch (UnsupportedEncodingException e) {
    e.printStackTrace();
}

return txSecret == null ? "" :
    new StringBuilder().
        append("txSecret=").
        append(txSecret).
        append("&").
        append("txTime=").
        append(Long.toHexString(txTime).toUpperCase()).
        toString();
}

private static String byteArrayToHexString(byte[] data) {
    char[] out = new char[data.length << 1];

    for (int i = 0, j = 0; i < data.length; i++) {
        out[j++] = DIGITS_LOWER[(0xF0 & data[i]) >>> 4];
        out[j++] = DIGITS_LOWER[0x0F & data[i]];
    }
    return new String(out);
}
}
```



```
package a

import (
    "crypto/md5"
    "fmt"
    "strconv"
    "strings"
    "time"
)

func GetPushUrl(domain, streamName, key string, time int64)(addrstr string){
```

```
var ext_str string
if key != "" && time != 0{
    txTime := strings.ToUpper(strconv.FormatInt(time, 16))
    txSecret := md5.Sum([]byte(key + streamName + txTime))
    txSecretStr := fmt.Sprintf("%x", txSecret)
    ext_str = "?txSecret=" + txSecretStr + "&txTime=" + txTime
}
addrstr = "rtmp://" + domain + "/live/" + streamName + ext_str
return
}
/*
*domain: 123.test.com
*streamName: streamname
*key: 69e0daf7234b01f257a7adb9f807ae9f
*time: 2022-04-26 14:57:19 CST
*/
func main(){
    domain, streamName, key := "123.test.com", "streamname", "69e0daf7234b01f257a7a
    //CST: ChinaStandardTimeUT, "2006-01-02 15:04:05 MST" must be const
    t, err := time.Parse("2006-01-02 15:04:05 MST", "2022-04-26 14:57:19 CST")
    if err != nil{
        fmt.Println("time transfor error!")
        return
    }
    fmt.Println(GetPushUrl(domain, streamName, key, t.Unix()))
    return
}
```

Related Operations

You can start pushing streams after the push URL is generated. For details, see [Live Push](#).

Recording Configuration

Last updated : 2024-07-26 14:44:12

The live recording feature is disabled by default. This document describes how to bind a recording template to a push domain to enable the recording feature, as well as how to unbind a template to disable the feature.

Use Limits

After enabling the recording feature, please make sure that your VOD or COS service is in normal status. If VOD or COS is not activated or is suspended due to overdue payments, live recording will fail. No recording files will be generated. Nor will fees be incurred.

A template takes effect about 5-10 minutes after it is bound to a domain.

After a template is successfully bound to a push domain, recording will be enabled for push addresses under that domain.

One domain can be bound with only one recording template. After binding, all streams under that domain will be recorded according to the template.

Mixed-stream recording does not support mixing streams inside the Chinese mainland with those outside. It will cause an error and playback will fail.

Prerequisites

You have logged in to the [CSS console](#) and added a [push domain](#).

You have [created a recording template](#).

Binding a Recording Template

1. Go to [Domain Management](#), and click the target **push domain** or click **Manage** to enter the domain details page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.

Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to a Identity Verification Guide.

Add DomainEdit TagCertificate Management

<input type="checkbox"/>	Domain Name	CNAME ⓘ	Type ⌵	Scenario	Region ⌵	Status ⌵
<input type="checkbox"/>	.top	ⓘ	Playback Domain	CSS	Global	Enabled
<input type="checkbox"/>	.top	ⓘ	Playback Domain	CSS	Outside Chinese mainland	Enabled
<input type="checkbox"/>	.top	ⓘ	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	.top	ⓘ	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	.top	ⓘ	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	.top	ⓘ	Push Domain	CSS	Global	Enabled
<input type="checkbox"/>	.top	ⓘ	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	.top	ⓘ	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	.top	ⓘ	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	.com	ⓘ	Push Domain	CSS	Global	Enabled

Total entries: 10. Selected: 0.

2. Select the **Template Configuration** tab and click **Edit** in the **Recording configuration** area.

Domain Management / ██████████.com

Basic Info Push Configuration **Template Configuration** Advanced Configuration

i Recording, watermarking, screencapture are value-added services. Binding templates of these services takes

Recording Configuration

Template Name	None
Template ID	None
Storage	None
Recording Content	None
Recording Format	None
Storage Period	None

3. Select a recording template and click **Confirm**.

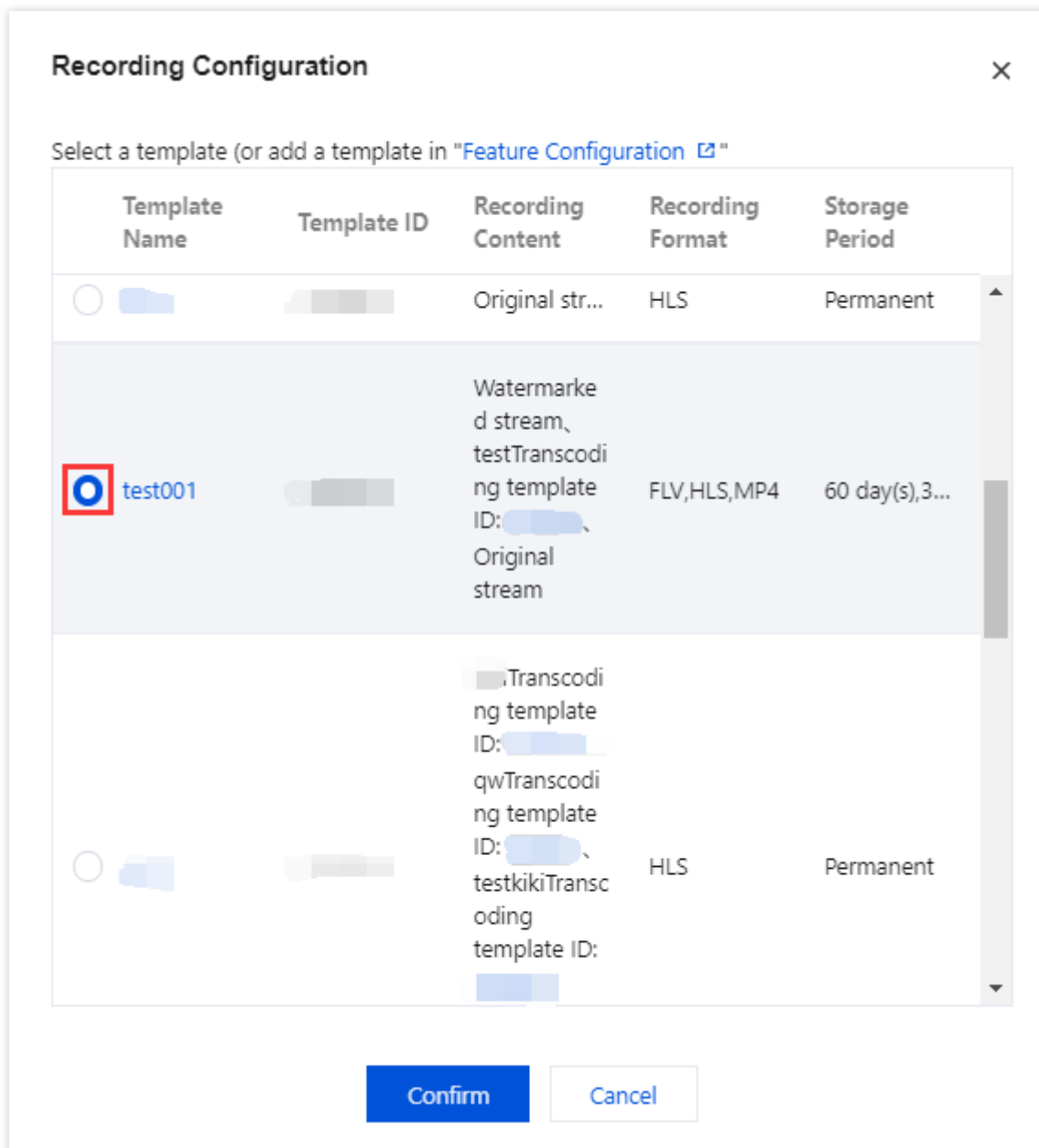
Recording Configuration

Select a template (or add a template in "[Feature Configuration](#)")

Template Name	Template ID	Recording Content	Recording Format	Storage Period
<div><div></div><div></div></div>		Original str...	HLS	Permanent
<div><div><div></div></div>test001</div>		Watermarke d stream、 testTranscodi ng template ID: <div></div> Original stream	FLV,HLS,MP4	60 day(s),3...
<div><div><div></div></div></div>		<div>Transcodi ng template ID: <div></div> qwTranscodi ng template ID: <div></div> testkikiTransc oding template ID: <div></div></div>	HLS	Permanent

Confirm

Cancel



Unbinding a Recording Template

1. Go to [Domain Management](#), and click the target **push domain** or click **Manage** to enter the domain details page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to a Identity Verification Guide.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME ^①	Type [⌵]	Scenario	Region [⌵]	Status [⌵]
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Global	Enabled
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Outside Chinese mainland	Enabled
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	.top	.com	Push Domain	CSS	Global	Enabled
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	.com	.com	Push Domain	CSS	Global	Enabled

Total entries: 10. Selected: 0.

2. Select the **Template Configuration** tab and click **Edit** in the **Recording configuration** area.

Recording Configuration

Template Name **test001**

Template ID

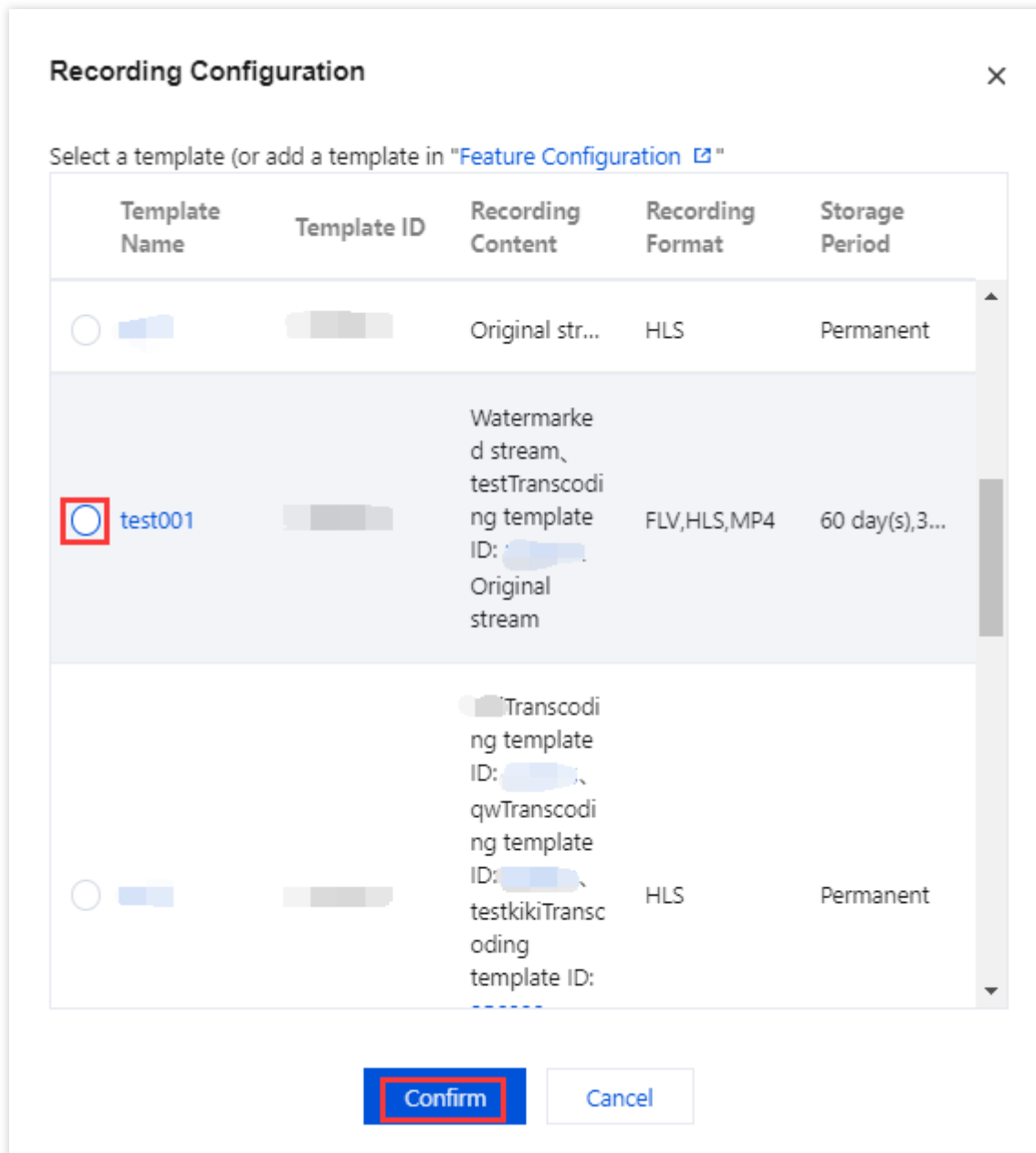
Storage **【VOD】**

Recording Content Original stream、Watermarked stream、Transcoded and watermarked stream (Transcoding
For the recording content, if multiple options are selected, multiple recordings will be initiated and generated.)

Recording Format FLV,HLS,MP4

Storage Period 60 day(s),30 day(s),Permanent

3. Unselect the template and click **Save**.

**Note:**

Unbinding a recording template will not affect ongoing live streams.

To cancel recording for ongoing streams, stop the streams and push them again.

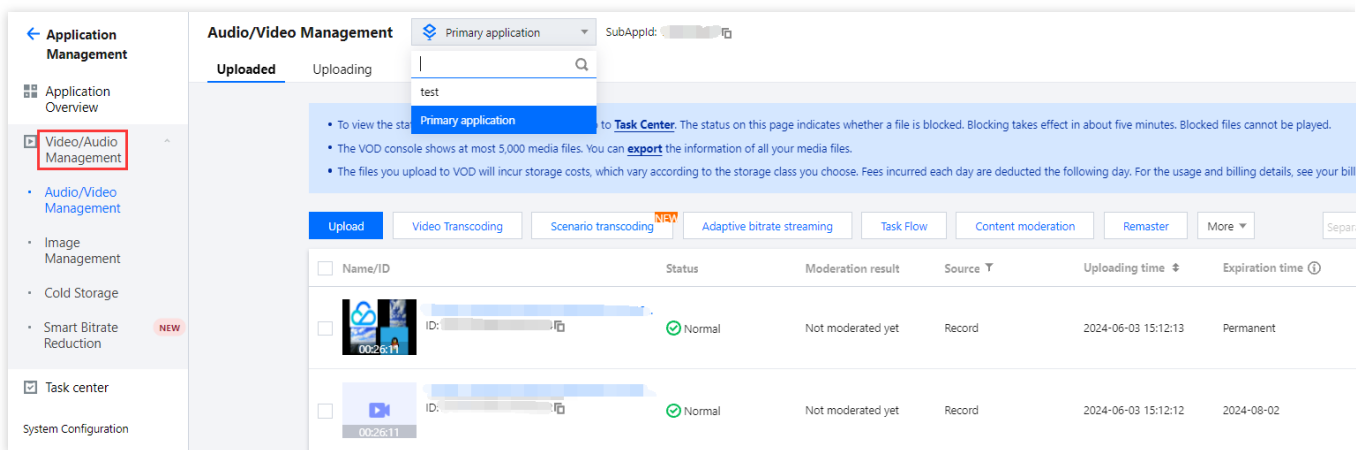
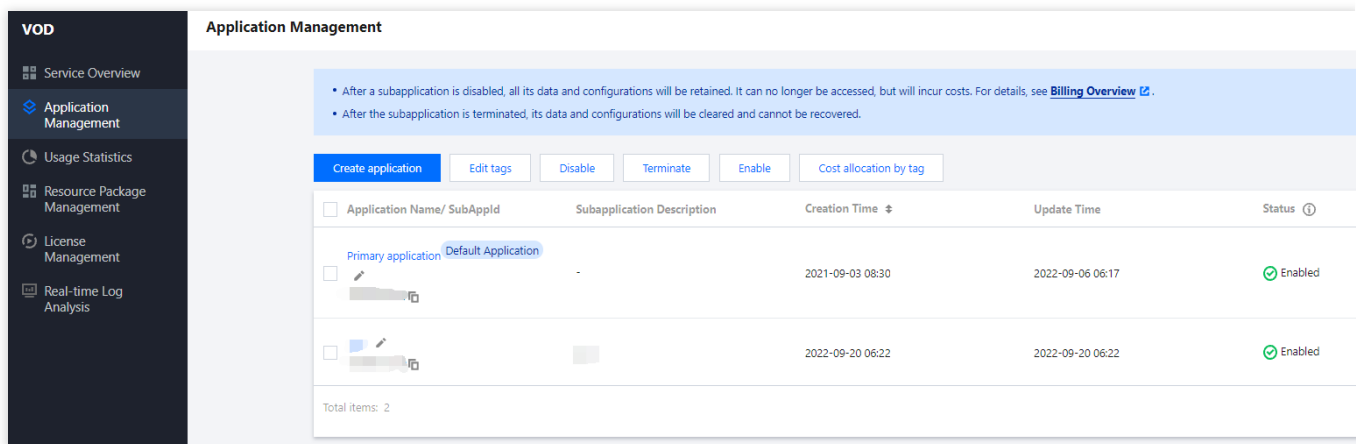
Obtaining Recording Files

You can obtain recording files in the following ways:

Recording to VOD

From the VOD console

Log in to the [VOD console](#), select the target subapplication, and click **Video/Audio Management** on the left sidebar. You can view all your recording files on this page.



From recording callbacks

If you have configured a recording callback address in the console or using an API, after a recording file is generated, a notification will be sent to the callback address configured. For details about the fields of the callback, see [How to Receive Event Notification](#).

Note:

The recording callback method is recommended for its reliability and real-timeliness.

Using a VOD API

You can also call the [SearchMedia](#) API of VOD to query recording files.

Recording to COS

From the COS console

Log in to the COS console, click [Bucket List](#) on the left sidebar, and then click the target bucket. You will be able to find the recording files in the file list.

Time Shifting Configuration

Last updated : 2024-05-07 19:04:45

This document shows you how to bind a time shifting template to a push domain to enable time shifting for the domain, as well as how to unbind a template to disable the feature. Time shifting is disabled by default.

Use Limits

A template takes effect about 5-10 minutes after it is bound to a domain.

After a template is successfully bound to a push domain, time shifting will be enabled for push addresses under that domain.

One domain can be bound to only one time shifting template. After binding, time shifting will be enabled for all streams under the domain.

Prerequisites

You have logged in to the [CSS console](#) and added a [push domain](#).

You have created a time shifting template.

Binding a Time Shifting Template

1. Go to [Domain Management](#), and click the target **push domain** or click **Manage** to enter the domain details page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to add an ICP filed domain.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-10
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-12-10
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-10
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-10
<input type="checkbox"/>	example.com	example.com	Push Domain	CSS	Global	Enabled	2023-09-10
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-08-10
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10
<input type="checkbox"/>	example.com	example.com	Push Domain	CSS	Global	Enabled	2021-08-10

Total entries: 9. Selected: 0.

2. Select the **Template Configuration** tab and click **Edit** in the **Time shifting configuration** area.












Time shifting configuration

Template Name	None
Template ID	None
Acceleration region	None
Stream type	None
Time-shift days	None
TS segment length	None

3. Select a time shifting template and click **Confirm**.

Time shifting configuration

Select a template (or add a template in "[Feature Configuration](#) ")

Template Name	Template ID	Acceleration region	Stream type	Time-shift days	TS level
<input type="radio"/> 		Outside Chinese mainland	Watermarked stream	7 days	5s
<input type="radio"/> 		Chinese mainland	Transcoded stream (template ID: )	30 days	8s
<input checked="" type="radio"/> test11		Chinese mainland	Transcoded stream (template ID: )	3 days	5s
<input type="radio"/> 		Outside Chinese mainland	Watermarked stream	7 days	5s
<input type="radio"/> 		Outside Chinese mainland	Original stream	7 days	5s

[Confirm](#)[Cancel](#)

Unbinding a Time Shifting Template

1. Go to [Domain Management](#), and click the target **push domain** or click **Manage** to enter the domain details page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to add an ICP filed domain.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>	example1.top	example1.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-10
<input type="checkbox"/>	example2.top	example2.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-12-15
<input type="checkbox"/>	example3.top	example3.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-20
<input type="checkbox"/>	example4.top	example4.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-10
<input type="checkbox"/>	example5.top	example5.com	Push Domain	CSS	Global	Enabled	2023-09-05
<input type="checkbox"/>	example6.top	example6.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-08-20
<input type="checkbox"/>	example7.top	example7.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10
<input type="checkbox"/>	example8.top	example8.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-05
<input type="checkbox"/>	example9.com	example9.com	Push Domain	CSS	Global	Enabled	2021-08-01

Total entries: 9. Selected: 0.

2. Select the **Template Configuration** tab and click **Edit** in the **Time shifting configuration** area.

Time shifting configuration

Template Name: test11

Template ID: [redacted]

Acceleration region: Chinese mainland












Stream type: Transcoded stream (template ID: [redacted])

Time-shift days: 3 days

TS segment length: 5 s

3. Unselect the template and click **Save**.

Time shifting configurationSelect a template (or add a template in "[Feature Configuration](#) ")

Template Name	Template ID	Acceleration region	Stream type	Time-shift days	Template ID
<input type="radio"/> 		Outside Chinese mainland	Watermarked stream	7 days	5s
<input type="radio"/> 		Chinese mainland	Transcoded stream (template ID: )	30 days	8s
<input checked="" type="radio"/> test11		Chinese mainland	Transcoded stream (template ID: )	3 days	5s
<input type="radio"/> 		Outside Chinese mainland	Watermarked stream	7 days	5s
<input type="radio"/> 		Outside Chinese mainland	Original stream	7 days	5s

Confirm

Cancel

Note:

Unbinding a time shifting template will not affect ongoing live streams.

Screencapture and Porn Detection Configuration

Last updated : 2024-06-25 15:51:16

Live streaming push is set to have the screenshot feature turned off by default. This article will guide you on how to enable the screenshot feature on a specified push domain and establish a connection with a screenshot template, as well as how to unbind the template and disable the screenshot feature.

Notes

The template configuration will take effect in about **5 – 10 minutes**.

After completing the screenshot template configuration, you also need to configure the callback template to receive the screenshot results. For callback template configuration, please refer to [Callback Configuration](#).

A domain can only be associated with one screenshot template. After the association, all streams under that domain will have screenshot tasks performed according to that template.

Prerequisites

You have logged in to the [CSS console](#) and added a [push domain name](#).

You have already created a [Screenshot Template](#).

Bind Screencapture Template

1. Go to [Domain Management](#), and click the target push domain or click Manage to enter the domain details page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME ⓘ	Type ▾	Scenario	Region ▾	Status ▾
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Push Domain	CSS	Global	Enabled
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Push Domain	CSS	Global	Enabled

Total entries: 9. Selected: 0.

2. Select the **Template Configuration**, and click on the **Edit** button in the upper right corner of the **Screenshot Configuration** tab.

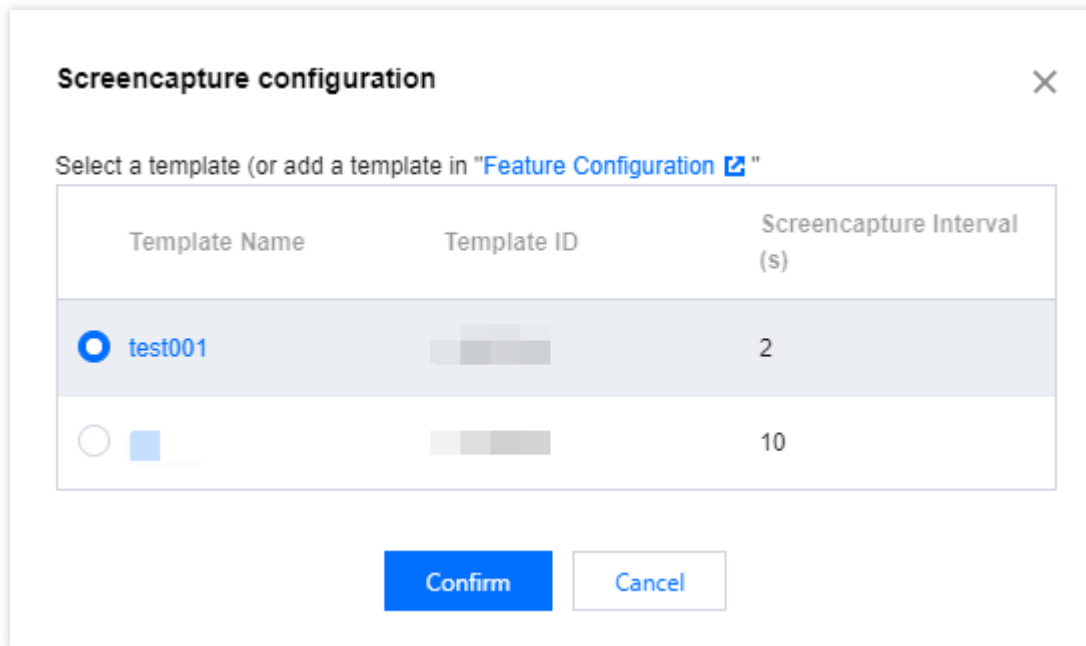
Screenshot configuration

Template Name: None

Template ID: None

Screenshot Interval: 0 s

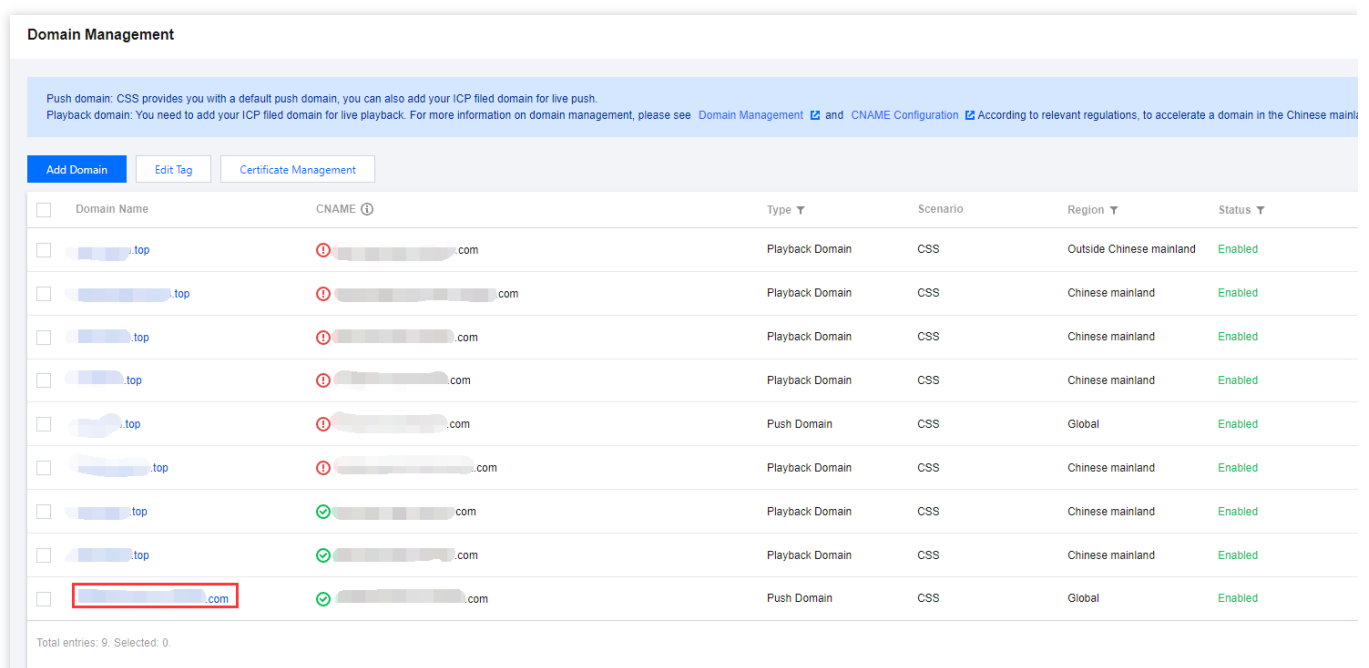
3. Select a screenshot configuration template based on your actual business needs.



4. Click **Confirm** to complete the configuration.

Unbind screenshot template

1. Go to [Domain Management](#) and click the push domain name to be configured or **Manage** to enter the domain name details page.



2. Select the **Template Configuration** tab, and click on the **Edit** button in the upper right corner of the **Screenshot Configuration** tab.

Screencapture configurationTemplate Name **test001**

Template ID

Screencapture Interval **2 s**

3. Based on your actual business needs, uncheck the corresponding template and click **Confirm** .

Screencapture configurationSelect a template (or add a template in "[Feature Configuration](#)")

Template Name	Template ID	Screencapture Interval (s)
<input checked="" type="radio"/> test001		2
<input type="radio"/>		10

Confirm

Cancel

Watermark Configuration

Last updated : 2024-06-18 14:40:42

The watermark feature is disabled by default for live push. This document describes how to bind/unbind a push domain name to/from a watermark template to enable/disable the watermark feature.

Notes

The template configuration will take effect in about 5–10 minutes.

After the template is bound successfully, the watermark feature will be enabled for push addresses under the specified push domain name.

One domain name can be bound to only one watermark template. After they are bound, all streams under the domain name will be watermarked according to this template.

Prerequisites

You have logged in to the [CSS console](#) and added a [push domain name](#).

You have created a [watermark template](#).

Binding Watermark Template

1. Go to [Domain Management](#) and click the **push domain name** to be configured or **Manage** to enter the domain name details page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#).
accelerate a domain in the Chinese mainland, you need to verify your identity. For details, see [Identity Verification Guide](#).

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME ⓘ	Type ▼	Scenario	Region ▼	Status ▼	Add
<input type="checkbox"/>	[redacted]	✓ [redacted]	Push Domain	CSS	Global	Enabled	2021

Total entries: 1. Selected: 0.

10 ▼

2. Click **Template Configuration** and, in the **Live Watermarking** area, click **Edit**.

Live watermarking

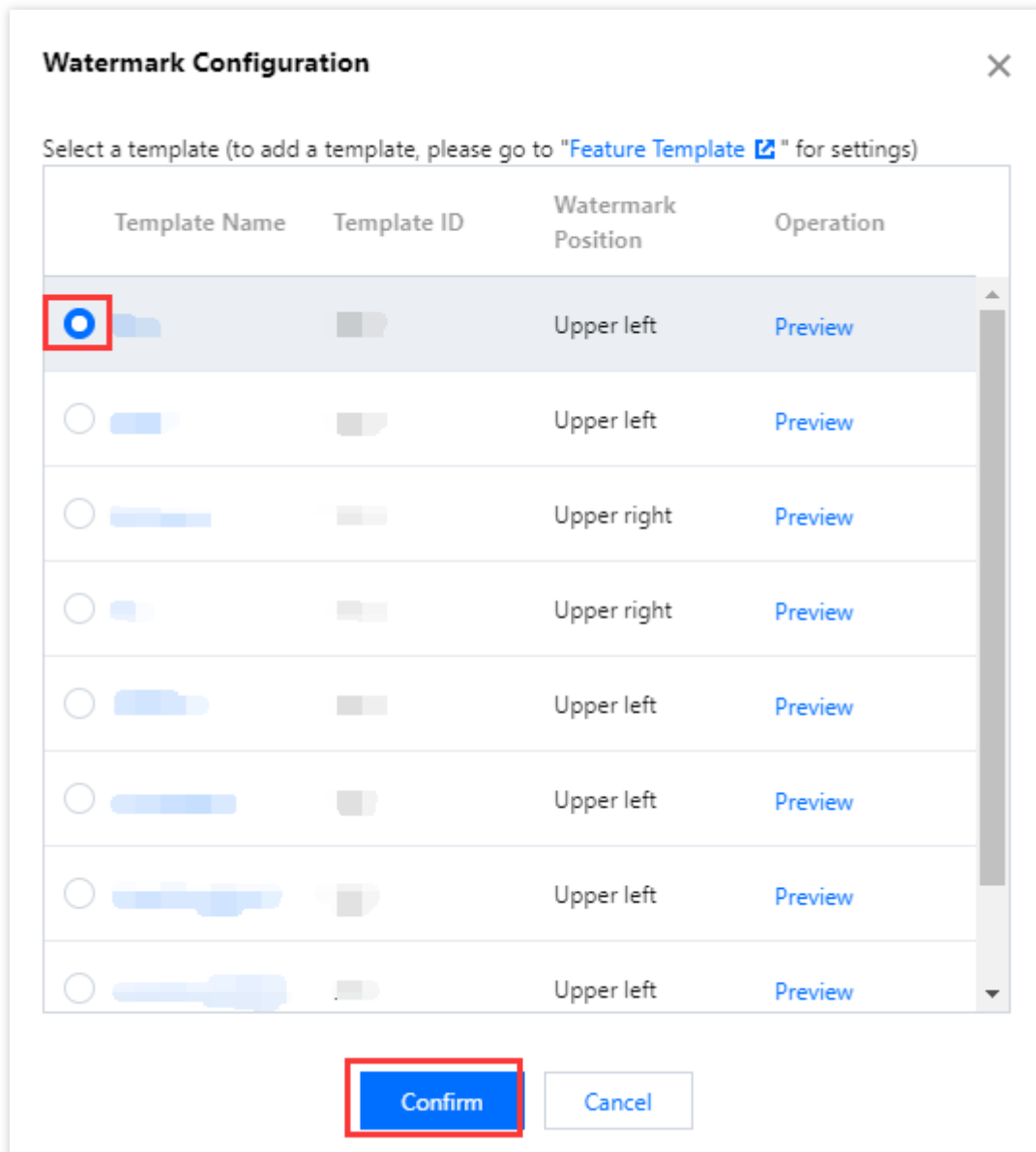
[Edit](#)

Template Name [test](#)

Template ID [redacted]

Preview [Preview](#)

3. Select a watermark template and click **Confirm**.

**Note:**

You can click **Preview** in the Operation column to view the watermark.

Unbinding Watermark Template

1. Go to [Domain Management](#) and click the **push domain name** to be configured or **Manage** to enter the domain name details page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#).
accelerate a domain in the Chinese mainland, you need to verify your identity. For details, see [Identity Verification Guide](#).

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME ⓘ	Type ▼	Scenario	Region ▼	Status ▼	Add
<input type="checkbox"/>	[redacted]	✓ [redacted]	Push Domain	CSS	Global	Enabled	2021

Total entries: 1. Selected: 0.

10 ▼

2. Select **Template Configuration** and click **Edit** in the **Live Watermarking** section.

Live watermarking

[Edit](#)

Template Name [test](#)

Template ID [redacted]

















Preview [Preview](#)

3. Clear the target template and click **Confirm**.

Watermark Configuration

×

Select a template (to add a template, please go to ["Feature Template"](#) for settings)

Template Name	Template ID	Watermark Position	Operation
		Upper left	Preview
		Upper left	Preview
		Upper right	Preview
		Upper right	Preview
		Upper left	Preview
		Upper left	Preview
		Upper left	Preview
		Upper left	Preview

Confirm

Cancel

Callback Configuration

Last updated : 2024-06-25 15:52:05

The callback feature is disabled by default for Cloud Streaming Services (CSS) push. After a push domain name is bound to a callback configuration, the callback feature will be enabled for all push addresses under this domain name. If a callback event is triggered by the configured template during live streaming, Tencent Cloud will send a request to the customer's server which is responsible for the response. After verification, the customer can obtain a JSON packet containing the callback information.

This document describes how to bind/unbind a push domain name to/from a callback template to enable/disable the callback feature.

Notes

The template configuration will take effect in about 5–10 minutes.

When a CSS event is triggered after the callback feature is enabled, you can receive the event information through the [event message notification](#).

The callback templates are managed at the domain name level in the console, and rules created by APIs cannot be canceled for the time being. If you bound a template to a specified stream through the callback APIs and want to unbind it, you need to call the [DeleteLiveCallbackTemplate](#) API.

One domain name can be bound to only one callback template. After binding, all streams under it will be called back according to this template.

Prerequisites

You have logged in to the [CSS console](#) and added a [push domain name](#).

You have created a [callback template](#).

Binding Callback Template

1. Go to [Domain Management](#), and click the target **push domain name** or **Manage** to enter the domain details page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME ⓘ	Type ▾	Scenario	Region ▾	Status ▾
<input type="checkbox"/>	xxxxx.top	ⓘ xxxxx.com	Playback Domain	CSS	Outside Chinese mainland	Enabled
<input type="checkbox"/>	xxxxx.top	ⓘ xxxxx.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	xxxxx.top	ⓘ xxxxx.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	xxxxx.top	ⓘ xxxxx.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	xxxxx.top	ⓘ xxxxx.com	Push Domain	CSS	Global	Enabled
<input type="checkbox"/>	xxxxx.top	ⓘ xxxxx.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	xxxxx.top	✓ xxxxx.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	xxxxx.top	✓ xxxxx.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	xxxxx.com	✓ xxxxx.com	Push Domain	CSS	Global	Enabled

Total entries: 9. Selected: 0.

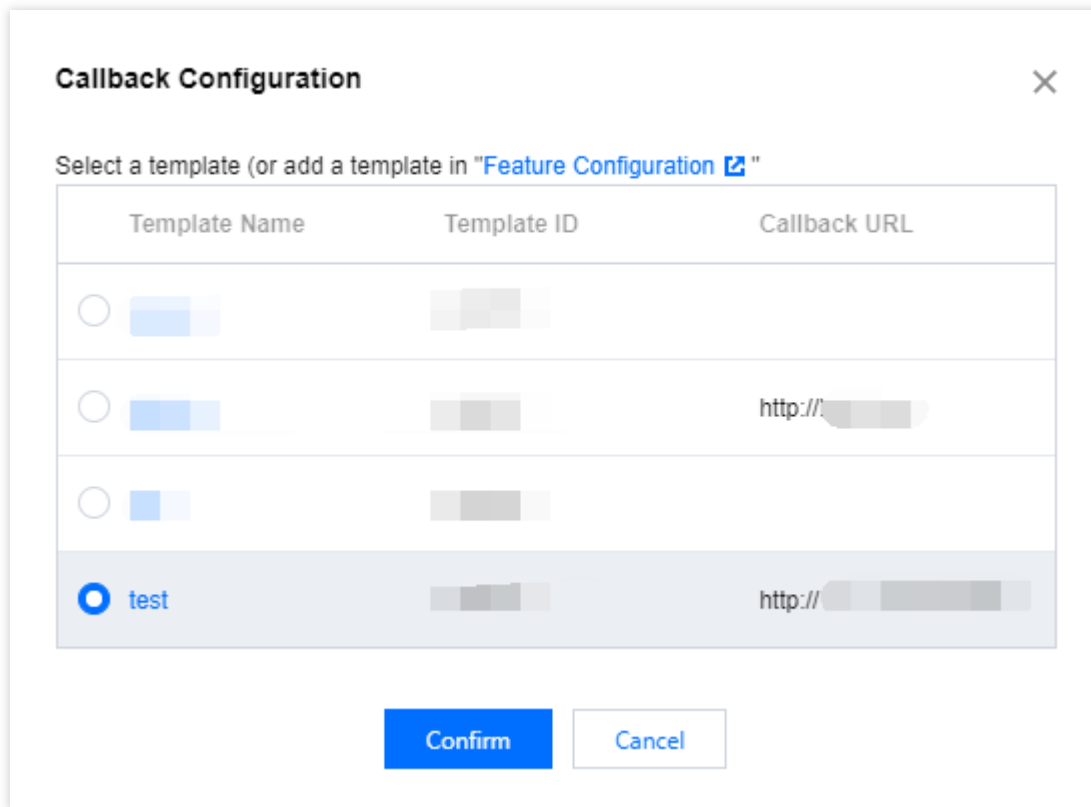
2. Select **Template Configuration** and click **Edit** in the upper right corner of the **Callback Configuration** tab.

Callback Configuration

Template Name **None**

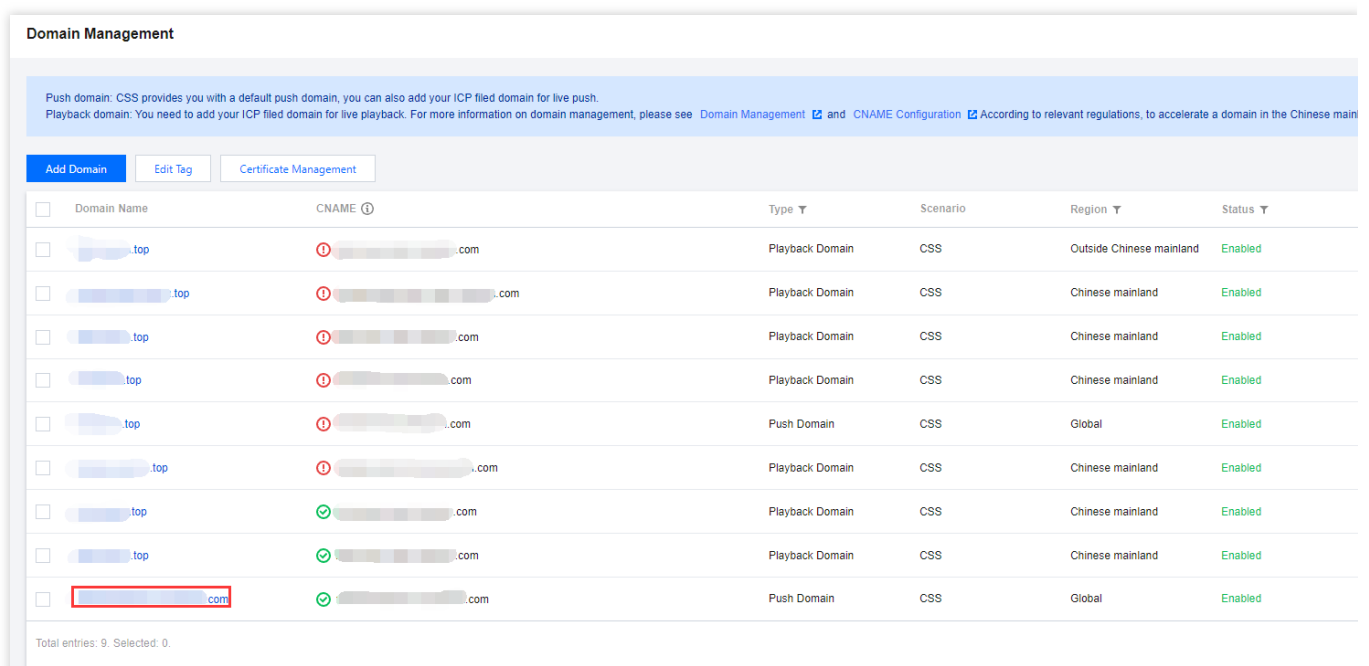
Template ID **None**

3. Select the corresponding callback template, and click **Confirm**.



Unbinding Callback Template

1. Go to [Domain Management](#), and click the target **push domain name** or **Manage** to enter the domain details page.



2. Select **Template Configuration** and click **Edit** in the upper right corner of the **Callback Configuration** tab.

Callback ConfigurationTemplate Name **test**

Template ID

Callback Key

Push Callback

http://

3. Uncheck the associated template and click **Confirm** .

Callback ConfigurationSelect a template (or add a template in "[Feature Configuration](#) ")

Template Name	Template ID	Callback URL
<input type="radio"/>		
<input type="radio"/>		http://
<input type="radio"/>		
<input checked="" type="radio"/> test		http://

Confirm

Cancel

Standby Stream Configuration

Last updated : 2024-05-07 19:04:45

This document shows you how to bind a standby stream template to a push domain to enable the standby stream feature for that domain, as well as how to unbind a template to disable the feature. The standby stream feature is disabled by default.

Notes

A template takes effect about 5-10 minutes after it is bound to a domain.

After a template is successfully bound to a push domain, the standby stream configured will take effect for all push addresses under that domain.

Prerequisites

You have logged in to the [CSS console](#) and added a [push domain](#).

You have [created a standby stream template](#).

Binding a Standby Stream Template

1. Go to [Domain Management](#), and click the target **push domain** or click **Manage** to enter the domain details page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to add an ICP filed domain.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-01
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-12-01
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-01
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-01
<input type="checkbox"/>	example.com	example.com	Push Domain	CSS	Global	Enabled	2023-09-01
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-08-01
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-01
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-01
<input type="checkbox"/>	example.com	example.com	Push Domain	CSS	Global	Enabled	2021-08-01

Total entries: 9. Selected: 0.

2. Select the **Template Configuration** tab and click **Edit** in the **Standby stream configuration** area.

Standby stream configuration

Template Name	None
Template ID	None
Standby stream	None
Wait time	0 s
Max playback time	0 s

3. Select a standby stream template and click **Confirm**.

Standby stream configuration

×

Select a template (or add a template in "[Feature Configuration](#) ")

Template Name	Template ID	Wait time (seconds)	Max playback time (seconds)	Operation
<input type="radio"/>		0	120	Preview
<input type="radio"/>		0	120	Preview
<input type="radio"/>		3	120	Preview
<input type="radio"/>		0	9	Preview
<input checked="" type="radio"/> test001		2	120	Preview

Confirm

Cancel

Note:

You can click **Preview** in the **Operation** column to preview the standby stream.

Unbinding a Standby Stream Template

1. Go to [Domain Management](#), and click the target **push domain** or click **Manage** to enter the domain details page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to add an ICP filed domain.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-01
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-12-01
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-01
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-01
<input type="checkbox"/>	example.com	example.com	Push Domain	CSS	Global	Enabled	2023-09-01
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-08-01
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-01
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-01
<input type="checkbox"/>	example.com	example.com	Push Domain	CSS	Global	Enabled	2021-08-01

Total entries: 9. Selected: 0.

2. Select the **Template Configuration** tab and click **Edit** in the **Standby stream configuration** area.

Standby stream configuration

Template Name: test001

Template ID: [ID]

Standby stream: Preview

Wait time: 2 s

Max playback time: 120 s

3. Unselect the template and click **Save**.

Standby stream configuration



Select a template (or add a template in "[Feature Configuration](#)")

Template Name	Template ID	Wait time (seconds)	Max playback time (seconds)	Operation
<input type="radio"/>		0	120	Preview
<input type="radio"/>		0	120	Preview
<input type="radio"/>		3	120	Preview
<input type="radio"/>		0	9	Preview
<input checked="" type="radio"/> test001		2	120	Preview

Confirm

Cancel

Latency Control

Last updated : 2024-05-28 10:29:07

It is possible to control the latency of HLS playback by adjusting the size and number of HLS segments. Note that setting the latency too low may cause playback to stutter.

Prerequisites

You have activated CSS and logged in to the [CSS console](#).

You have added a [push domain name](#).

Latency control

1. Select [Domain Management](#) on the left sidebar and click the target **push domain** or click **Manage** on the right to enter the details page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.

Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to verify yo

Add Domain

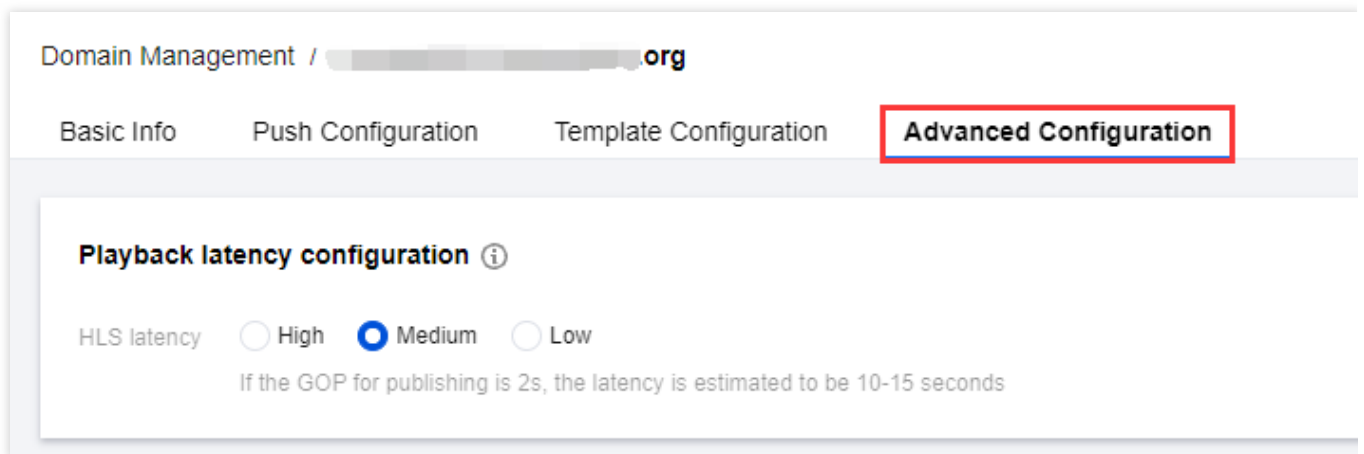
Edit Tag

Certificate Management

<input type="checkbox"/>	Domain Name	CNAME ①	Type ▾	Scenario	Region ▾	Status ▾	Added Time
<input type="checkbox"/>	com	✓ .com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-02-05 17:51:38
<input type="checkbox"/>	.org	⊘ .com	Playback Domain	CSS	Chinese mainland	Enabled	2024-01-22 11:39:47
<input type="checkbox"/>	.org	⊘ .com	Playback Domain	CSS	Chinese mainland	Enabled	2024-01-11 17:26:45
<input type="checkbox"/>	.org	⊘ .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-12-05 11:09:58
<input type="checkbox"/>	.com	✓ .com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2023-11-27 11:26:05
<input type="checkbox"/>	.xyz	⊘ .com	Push Domain	CSS	Global	Enabled	2023-11-08 23:08:50
<input type="checkbox"/>	.com	✓ .com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2023-08-31 16:23:26
<input type="checkbox"/>	.cn	✓ .com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2023-08-31 15:29:03
<input type="checkbox"/>	.org	✓ .com	Push Domain	CSS	Global	Enabled	2023-02-02 10:47:31
<input type="checkbox"/>	.com	✓ .com	Playback Domain	CSS	Global	Enabled	2022-12-08 22:25:35

Total entries: 23. Selected: 0.

2. In **Advanced Configuration > Playback latency configuration**, you can configure the latency for HLS.



3. Based on your actual business needs, select appropriate latency parameters.

Select different configurations, corresponding to HLS segments configurations, high for 5 seconds *4 segments*, medium for 4 seconds *3 segments*, and low for 2 seconds * 3 segments. The actual slice duration is related to the GOP length. Each TS should contain at least one GOP. It is recommended to set the push stream GOP to 1s ~ 2s.

4. When GOP is set to two seconds, the latency is as follows:

Setting	High	Medium	Low
Estimated Latency	20-25s	10-15s	6-8s

IP Blocklist/Allowlist Configuration

Last updated : 2024-05-16 17:26:18

This document shows you how to configure an IP allowlist/blocklist to filter requests and control access to streaming content.

How It Works

IP allowlist: Only the configured IP addresses are allowed to push streams to Cloud Streaming Services.

IP blocklist: Only the configured IP addresses are restricted from pushing streams to Cloud Streaming Services.

Reminders

An IP allowlist/blocklist takes effect about ten minutes after configuration.

For an IP allowlist/blocklist configuration to apply to ongoing streams, you need to restart the streams.

Prerequisites

You have activated CSS and logged in to the [CSS console](#).

You have added a [push domain](#).

Configuring an IP Allowlist/Blocklist

1. Select [Domain Management](#) on the left sidebar. Click the name of the target playback domain or click **Manage** on the right to enter the domain management page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need [Identity Verification Guide](#).

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>	[redacted]	[redacted].com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-03-19 17:11:08
<input type="checkbox"/>	[redacted]	[redacted].com	Playback Domain	CSS	Global	Enabled	2024-02-29 15:20:34
<input type="checkbox"/>	[redacted]	[redacted].com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-02-01 11:45:23
<input type="checkbox"/>	[redacted]	[redacted].com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-16 20:48:54
<input type="checkbox"/>	[redacted]	[redacted].com	Push Domain	CSS	Global	Enabled	2024-01-16 20:48:09
<input type="checkbox"/>	[redacted]	[redacted].com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-03 18:19:30

2. Within the **Advanced Configuration> IP allowlist/blocklist**, click on



to enable the IP Allowlist/Blocklist.

Domain Management / [redacted]

Basic Info Push Configuration Template Configuration **Advanced Configuration**

Playback latency configuration ⓘ

HLS latency ☐ High ☒ Medium ☐ Low

If the GOP for publishing is 2s, the latency is estimated to be 10-15 seconds

IP allowlist/blocklist

You can use IP allowlist/blocklist to filter requests by IP. [How to use IP allowlist/blocklist?](#)

Status ☒ Close

Authenticate By -

IP List -

3. After enabling the **IP Allowlist/Blocklist**, enter the **IP Allowlist/Blocklist** configuration page and perform the following configuration:

Blocklist

Allowlist

IP Allowlist/Blocklist Configuration

- Enter one IP or IP range (/8/16/24 for example) per line and separate IPs/IP ranges with line breaks. The format of IP:port is not supported.

Authenticate By



Blocklist



Allowlist

The 403 error will be returned for requests from client IPs not in the allowlist.

IP List

Enter IPs or IP ranges

You can enter 200 more IPs/IP ranges.

Save

Cancel

IP Allowlist/Blocklist Configuration

- Enter one IP or IP range (/8/16/24 for example) per line and separate IPs/IP ranges with line breaks. The format of IP:port is not supported.

Authenticate By



Blocklist



Allowlist

The 403 error will be returned for requests from client IPs not allowlist.

IP List

Enter IPs or IP ranges

You can enter 500 more IPs/IP ranges.

Save

Cancel

Configuration Item	Description
Authenticate By	Allowlist or blocklist: You cannot select both. If you configure an allowlist, only IP addresses on the list will be able to access your streaming content. If you configure a blocklist, IP addresses on the list cannot access your streaming content.
IP List	The IP blocklist supports a maximum configuration of 200 rules, and the IP allowlist supports up to 500 rules. Please separate entries with a newline character.

You can enter IP addresses or IP ranges (/8/16/24). The “IP address: port number” format is not supported.
IPv6 is not supported currently.

4. Click **Save** to save the configuration (it takes a while for the configuration to take effect).

IP allowlist/blocklist

You can use IP allowlist/blocklist to filter requests by IP. [How to use IP allowlist/blocklist?](#)

Status  Deploying

Authenticate By Blocklist

IP List







Modifying an IP Allowlist/Blocklist

1. Select [Domain Management](#) on the left sidebar. Click the name of the target playback domain or click **Manage** on the right to enter the domain management page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need [Identity Verification Guide](#).

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>		 .com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-03-19 17:11:08
<input type="checkbox"/>		 .com	Playback Domain	CSS	Global	Enabled	2024-02-29 15:20:34
<input type="checkbox"/>		 .com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-02-01 11:45:23
<input type="checkbox"/>		 .com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-16 20:48:54
<input type="checkbox"/>		 .com	Push Domain	CSS	Global	Enabled	2024-01-16 20:48:09
<input type="checkbox"/>		 .com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-03 18:19:30

2. Select the **Access Control** tab. In the **IP allowlist/blocklist** area, click **Edit**.

IP allowlist/blocklist

You can use IP allowlist/blocklist to filter requests by IP. [How to use IP allowlist/blocklist](#)

Status  Enable [Edit](#)

Authenticate By **Blocklist**







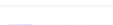
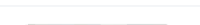
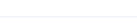
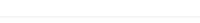

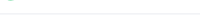
IP List 

3. Modify the configuration and click **Save**.

Disabling IP Allowlist/Blocklist

Follow the steps below to disable IP allowlist/blocklist:

1. Select [Domain Management](#) on the left sidebar. Click the name of the target playback domain or click **Manage** on the right to enter the domain management page.

Domain Management						
<p>Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.</p> <p>Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see Domain Management and CNAME Configuration. According to relevant regulations, to accelerate a domain in the Chinese mainland, you need Identity Verification Guide.</p>						
Add Domain Edit Tag Certificate Management						
<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status
<input type="checkbox"/>		 .com	Playback Domain	CSS	Outside Chinese mainland	Enabled
<input type="checkbox"/>		 .com	Playback Domain	CSS	Global	Enabled
<input type="checkbox"/>		 .com	Playback Domain	CSS	Outside Chinese mainland	Enabled
<input type="checkbox"/>		 .com	Playback Domain	CSS	Outside Chinese mainland	Enabled
<input type="checkbox"/>		 .com	Push Domain	CSS	Global	Enabled
<input type="checkbox"/>		 .com	Playback Domain	CSS	Outside Chinese mainland	Enabled

2. Select the **Access Control** tab. In the **IP allowlist/blocklist** area, click



to disable IP allowlist/blocklist.

IP allowlist/blocklist

You can use IP allowlist/blocklist to filter requests by IP. [How to use IP allowlist/block](#)

Status



Enable

[Edit](#)

Authenticate By

Blocklist

IP List



Delayed Playback

Last updated : 2023-12-01 19:10:06

Delayed playback is a feature that processes streams in the cloud, enabling the playback end to operate with a set delay. This delay is distinct from the inherent delay of the protocol itself. Delayed playback is applicable to significant live streaming events. To prevent unforeseen circumstances during the events, if you need to prepare control and response measures in advance, you can configure this feature directly through the console. For instance, during the live streaming of a large-scale evening party, if you set a delay of 5 minutes in advance, the online audience will see the picture 5 minutes later than the actual event. In case of an unexpected incident, the director will have a 5-minute pre-processing time period to switch machine positions or backup streams through the director's console, thereby mitigating live streaming risks.

Notes

You can enable delayed playback via three methods:

Configure it in the Cloud Streaming Services (CSS) console.

Call the [playback delaying API](#).

Add a `txDelayTime` parameter to the end of a push URL. For details, please see [Push Configuration](#).

Note :

Currently, the API method is not recommended because calling an API involves configuration caching, which makes it difficult to estimate when the feature takes effect. You are advised to quickly enable the feature using the first or third method.

After enabling delayed playback, you need to add a delayed playback configuration in the console or using an API before the feature can take effect. After it takes effect, [extended feature fees](#) will be incurred for streams published. Delayed playback will take effect after waiting for 5 minutes once the configuration is completed.

Prerequisites

You have activated the Cloud Streaming Services (CSS) and logged in to the [CSS console](#).

You have added a [push domain](#).

Configuring Delayed Playback

1. Go to [Domain Management](#) and click the **push domain** to be configured or click **Manage** on the right to enter the domain details page.

2. Select the **Advanced Configuration** tab. In the **Delayed playback configuration** area, click



to enable the delayed playback configuration.

Basic Info

Push Configuration

Template Configuration

Advanced Configuration

Playback latency configuration

HLS latency ☐ High ☒ Medium ☐ Low
If the GOP for publishing is 2s, the latency is estimated to be 10-15 seconds

IP allowlist/blocklist

You can use IP allowlist/blocklist to filter requests by IP. [How to use IP allowlist/blocklist?](#)
Status ☒ Close
Authenticate By -
IP List -

Delayed playback configuration

After enabling delayed playback, you need to add a delayed playback configuration in the console or using an API before the feature can take effect. After it takes effect, [extended feature fees will be incurred](#) for streams published. This feature is currently in free public beta and will start charging on June 15th, 2023. Welcome to use it.

Delayed playback allows you to add a delay to the delivery of live streams. This gives you time to deal with emergencies in important events. You can quickly configure this feature by adding a delay parameter to the playback URL. [Learn more](#)

Delayed playback can also be used to reduce stutter in playback by imperceptibly adding a buffering delay on the server side, achieving smoother live streaming.

Status ☒ Close

2.1. To add a new configuration, click **Add**.

Delayed playback configuration

After enabling delayed playback, you need to add a delayed playback configuration in the console or using an API before the feature can take effect. After it takes effect, [extended feature fees will be incurred](#) for streams published. This feature is currently in free public beta and will start charging on June 15th, 2023. Welcome to use it.

Delayed playback allows you to add a delay to the delivery of live streams. This gives you time to deal with emergencies in important events. You can quickly configure this feature by adding a delay parameter to the playback URL. [Learn more](#)

Delayed playback can also be used to reduce stutter in playback by imperceptibly adding a buffering delay on the server side, achieving smoother live streaming.

Status ☒ Enable New

StreamName	AppName	Delay (Sec)	Expiration Time	Creation Time	Status	Operation
You don't have any configurations yet.						Add

Total items: 0 10 / page 1 / 1 page

3. Complete the following settings based on your needs:

Delayed playback configuration ×

Scope ☒ All ☐ Custom
Apply the configuration to the current domain

Delay *

sec

Enter a positive integer not greater than 600

Expiration Time *

Confirm

Cancel

Delayed playback configuration ×

Scope ☐ All ☒ Custom
Apply the configuration to a specific application or stream, which will override the configurations applied to domains.

AppName *

StreamName *

Delay *

sec

Enter a positive integer not greater than 600

Expiration Time *

Confirm

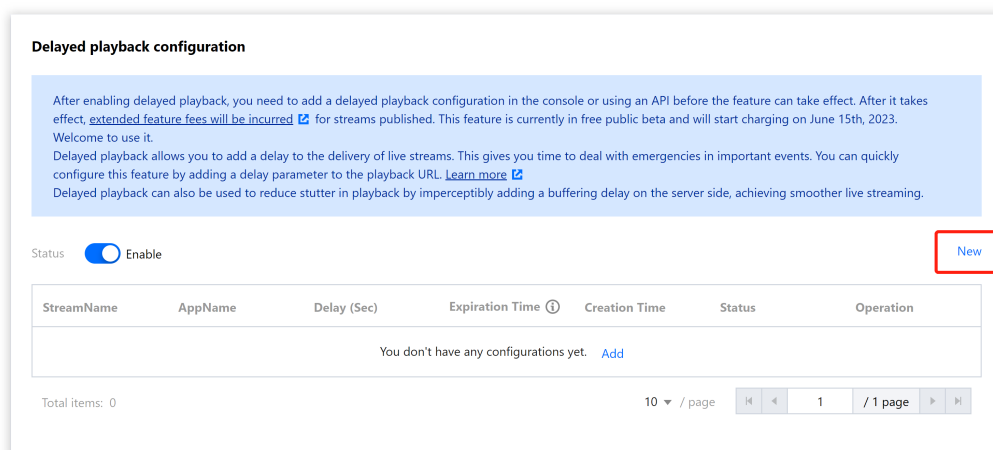
Cancel

Configuration Item	Description
Scope	Select All or Custom : All : Apply the configuration to the current domain. Custom : Apply the configuration to a specific application or stream, which will override the configurations applied to All .
AppName	When there are configurations for the same AppName and StreamName, the most recently

	created configuration takes effect.
StreamName	When there are configurations for the same AppName and StreamName, the most recently created configuration takes effect.
Delay	A positive integer no greater than 600.
Expiration Time	The maximum selectable time is no more than 7 days from the current time.

3.1. Click **Confirm** to save the configuration.

3.2. Based on your actual business needs, click **New** on the right side to continue adding **Delayed playback configuration**.



Note :

You can add up to 50 delayed playback configurations.

Modifying Delayed Playback Configuration

1. Select [Domain Management](#), and click the **push domain** to be configured or click **Manage** on the right to enter the domain details page.
2. Select the **Advanced Configuration** tab. In the **Delayed playback configuration** area. Click **Edit** on the right side to enter the delayed playback configuration page.
3. Update the configurations based on your needs, and click **Confirm** to save the modifications.

Delayed playback configuration

After enabling delayed playback, you need to add a delayed playback configuration in the console or using an API before the feature can take effect. After it takes effect, [extended feature fees will be incurred](#). This feature is currently in free public beta and will start charging on June 15th, 2023. Welcome to use it.

Delayed playback allows you to add a delay to the delivery of live streams. This gives you time to deal with emergencies in important events. You can quickly configure this feature by adding a delay parameter to the playback URL. [Learn more](#).

Delayed playback can also be used to reduce stutter in playback by imperceptibly adding a buffering delay on the server side, achieving smoother live streaming.

Status ☒ Enable New

StreamName	AppName	Delay (Sec)	Expiration Time ⓘ	Creation Time	Status	Operation
All	All	1	2023-05-30 00:00:00	2023-05-29 17:41:24	Active	Edit Delete

Total items: 1

10 / page

1 / 1 page

Deleting Delayed Playback Configuration

1. Select [Domain Management](#), click the **push domain** to be configured, or click **Manage** on the right to enter the domain details page.
2. Select the **Advanced Configuration** tab. In the **Delayed playback configuration** area, select the configuration to be deleted and click **Delete** on the right side.

Delayed playback configuration

After enabling delayed playback, you need to add a delayed playback configuration in the console or using an API before the feature can take effect. After it takes effect, [extended feature fees will be incurred](#). This feature is currently in free public beta and will start charging on June 15th, 2023. Welcome to use it.

Delayed playback allows you to add a delay to the delivery of live streams. This gives you time to deal with emergencies in important events. You can quickly configure this feature by adding a delay parameter to the playback URL. [Learn more](#).

Delayed playback can also be used to reduce stutter in playback by imperceptibly adding a buffering delay on the server side, achieving smoother live streaming.

Status ☒ Enable New

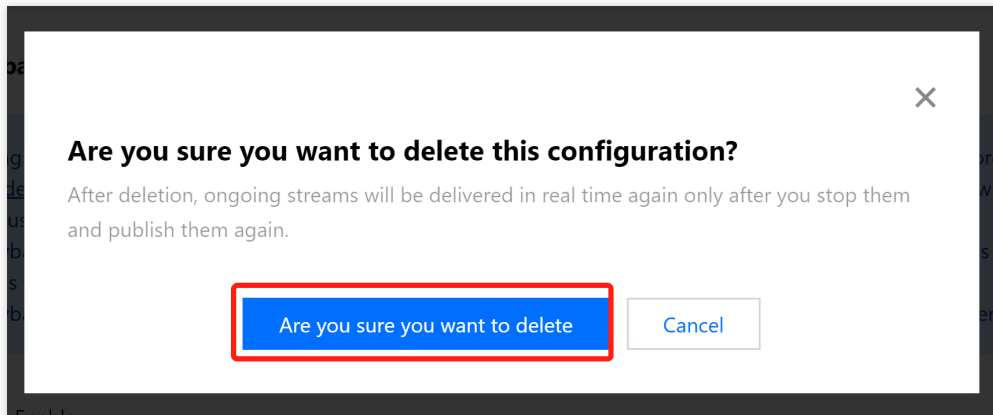
StreamName	AppName	Delay (Sec)	Expiration Time ⓘ	Creation Time	Status	Operation
All	All	1	2023-05-30 00:00:00	2023-05-29 17:41:24	Active	Edit Delete

Total items: 1

10 / page

1 / 1 page

3. Confirm whether to delete this **Delayed playback configuration**, and click **Are you sure you want to delete** to successfully delete it.

**Note :**

After deletion, ongoing streams will be delivered in real time again only after you stop them and publish them again.

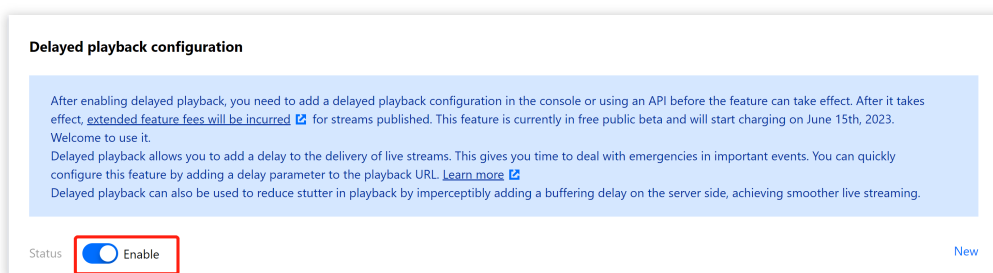
Disabling Delayed Playback

If you want to disable delayed playback configuration after enabling it, follow these steps:

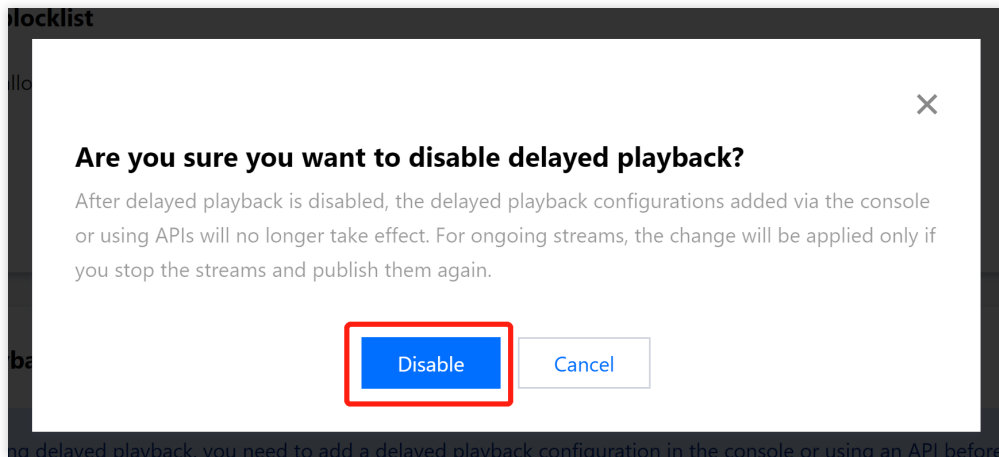
1. Select [Domain Management](#), click the **push domain** to be configured, or click **Manage** on the right side to enter the domain details page.
2. Select **Advanced Configuration** tab. In the **Delayed playback configuration** area, click



to toggle off the configuration.



3. Confirm whether to disable this delayed playback configuration, and click **Disable**.

**Note :**

After delayed playback is disabled, the delayed playback configurations added via the console or using APIs will no longer take effect. For ongoing streams, the change will be applied only if you stop the streams and publish them again.

Moderation Configuration

Last updated : 2024-07-10 16:39:06

The moderation feature of live stream pushing feature is off by default. This document introduces instructions on how to associate a moderation template with a specific push domain to activate the moderation feature and how to disassociate the template to deactivate the moderation with successful association completed.

Notes

The configuration of the template comes into effect approximately 5-10 minutes post completion.

With successful association of the template completed, the moderation feature is activated for push URL under the specified push domain.

Only one moderation template can be associated with a domain. Once associated, all streams under that domain will be moderated in accordance with the associated template.

Prerequisites

You have successfully logged in to the [CSS console](#) and have completed [Adding Your Own Domain](#).

A moderation template has been created.

Associating Moderation Template

1. Go to [Domain Management](#). Click **Domain Name** you want to configure or **Manage** to enter the domain details page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Identity Verification Guide.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status
<input type="checkbox"/>	example1.top	example1.com	Playback Domain	CSS	Global	Enabled
<input type="checkbox"/>	example2.top	example2.com	Playback Domain	CSS	Outside Chinese mainland	Enabled
<input type="checkbox"/>	example3.top	example3.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example4.top	example4.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example5.top	example5.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example6.top	example6.com	Push Domain	CSS	Global	Enabled
<input type="checkbox"/>	example7.top	example7.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example8.top	example8.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example9.top	example9.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example10.com	example10.com	Push Domain	CSS	Global	Enabled

Total entries: 10. Selected: 0.

2. Select the **Template Configuration** tab. Click **Edit** in the right upper corner of the **Moderation Configuration** tag.

Domain Management / example.com

Basic Info Push Configuration **Template Configuration** Advanced Configuration

① Recording, watermarking, screencapture are value-added services. Binding templates of these services takes effect in 10 minutes. Service fees are incurred after the push starts. Unbinding a template will not affect the current live streaming, and will take effect after the next push starts.

Recording Configuration [Edit](#)

Template Name	None
Template ID	None
Storage	None
Recording Content	None
Recording Format	None
Storage Period	None

Live watermarking [Edit](#)

Template Name	None
Template ID	None
Preview	None

Time shifting configuration [Edit](#)

Template Name	None
Template ID	None
Acceleration region	None
Stream type	None
Time-shift days	None
TS segment length	None

Screencapture configuration

Template Name	None
Template ID	None
Screencapture Interval	0 s

Callback Configuration

Template Name	None
Template ID	None

Moderation Configuration

Template Name	None
Template ID	None
Content type to moderate	None
Screencapture interval	Disabled
Keyword library used for screenshot moderation	None
OCR-based moderation policy	Close
Audio segment duration	Disabled
Keyword library used for audio moderation	None








Standby stream configuration

Template Name	None
Template ID	None
Standby stream	None
Wait time	0 s
Max playback time	0 s

3. Choose a moderation configuration template according to your business requirements and click **Confirm** to complete the configuration.

Moderation Configuration

Select a template (or add a template in "[Feature Configuration](#) ")

Template Name	Template ID	Content type to moderate	Screenshot interval	OCR
<input type="radio"/> 		All moderations	2	Enable
<input checked="" type="radio"/> test001		All moderations	2	Close
<input type="radio"/> 		All moderations	2	Close
<input type="radio"/> 		All moderations	2	Enable

[Confirm](#)[Cancel](#)

Unbinding Moderation Template

1. Go to [Domain Management](#). Click **Domain Name** you want to configure or **Manage** to enter the domain details page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Identity Verification Guide.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Global	Enabled
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Push Domain	CSS	Global	Enabled
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Push Domain	CSS	Global	Enabled

Total entries: 10. Selected: 0.

2. Select **Template Configuration** tab, click **Edit** in the top-right corner of the **Moderation Configuration** tag.

Domain Management / example.com

Basic Info Push Configuration **Template Configuration** Advanced Configuration

① Recording, watermarking, screencapture are value-added services. Binding templates of these services takes effect in 10 minutes. Service fees are incurred after the push starts. Unbinding a template will not affect the current live streaming

Recording Configuration

[Edit](#)

Template Name	None
Template ID	None
Storage	None
Recording Content	None
Recording Format	None
Storage Period	None

Live watermarking

[Edit](#)

Template Name	None
Template ID	None
Preview	None

Time shifting configuration

[Edit](#)

Template Name	None
Template ID	None
Acceleration region	None
Stream type	None
Time-shift days	None
TS segment length	None

Screencapture configuration

Template Name	None
Template ID	None
Screencapture Interval	0 s

Callback Configuration

Template Name	None
Template ID	None

Moderation Configuration

Template Name	test001
Template ID	<input type="checkbox"/>
Content type to moderate	All moderat
Screencapture interval	2s
Keyword library used for screenshot moderation	None
OCR-based moderation policy	Close
Audio segment duration	15s
Keyword library used for audio moderation	None








Standby stream configuration

Template Name	None
Template ID	None
Standby stream	None
Wait time	0 s
Max playback time	0 s

3. Based on your business requirements, uncheck the relevant template and click **Confirm** to proceed.

Moderation Configuration

Select a template (or add a template in "[Feature Configuration](#) ")

Template Name	Template ID	Content type to moderate	Screenshot interval	OCR
<input type="radio"/> 		All moderations	2	Enable
<input checked="" type="radio"/> test001		All moderations	2	Close
<input type="radio"/> 		All moderations	2	Close
<input type="radio"/> 		All moderations	2	Enable

Confirm

Cancel

Note:

Unbinding the moderation template does not affect the ongoing live streams.

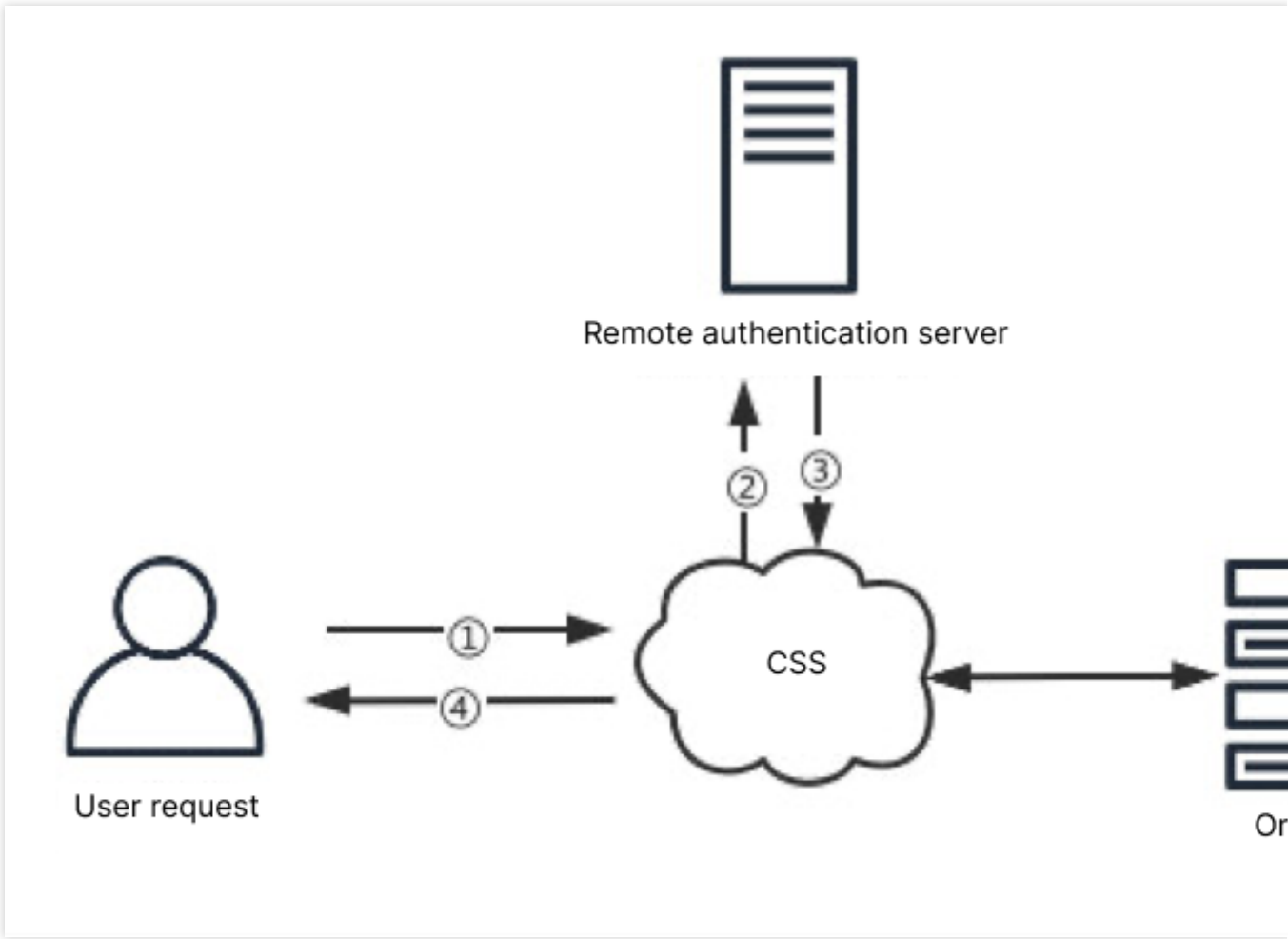
Remote Authentication Configuration

Last updated : 2024-06-17 17:32:29

With remote authentication, after authenticating a push/playback request for hotlink protection, CSS will call your server API to send the request to your server so that you can determine whether the request is legitimate. Based on the result your server returns, CSS will approve or reject the push/playback request. This ensures more precise authentication and improves security. However, you need to develop your own authentication server.

Workflow

Remote authentication works as follows:



No	Description
1	A request is sent to CSS.

2	If remote authentication is enabled for the domain, CSS will process the request as specified and then send it to your authentication server.
3	Your authentication server returns the result. The HTTP status code 200 indicates that the request should be approved, while the code 403 indicates that the request should be rejected.
4	CSS approves or rejects the request based on the result.

Prerequisites

You have activated CSS and logged in to the [CSS console](#).

You have added a push domain.

Configuring Remote Authentication

1. Log in to the CSS Console, and select [Domain Management](#) on the left sidebar. Click the **push domain** you want to configure remote authentication for, or click on **Manage** on the right side to enter the Domain Management page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
 Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate Verification Guide.

[Add Domain](#)
[Edit Tag](#)
[Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME ⓘ	Type ▾	Scenario	Region ▾	Status ▾
<input type="checkbox"/>		ⓘ .com	Playback Domain	CSS	Outside Chinese mainland	Enabled
<input type="checkbox"/>		ⓘ .com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>		ⓘ .com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>		ⓘ .com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>		ⓘ .com	Push Domain	CSS	Global	Enabled
<input type="checkbox"/>		ⓘ .com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>		✓ .com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>		✓ .com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>		✓ .com	Push Domain	CSS	Global	Enabled

Total entries: 9. Selected: 0.

2. Under the **Advanced Configuration** tab, find **Remote authentication**.

Remote authentication ⓘ

Passes through requests to your own authentication server so that you can determine whether to approve a request. This e

Remote authentication



3. Click



to enable remote authentication and complete the following settings:

Remote authentication

Authentication server address *

https://

Example: https://www.example.com:8080/Api/RemoteAuthenticationInterface

Request method

POST

URL authentication

Parameters to keep *

☐ Keep all

☐ Remove all

☒ Keep specified parameters

value1|value2

Custom parameters to add

Type	Field	Value	Operation
<div>Select</div>	<div>host</div>	\$host	<div>Delete</div>

Add

Timeout period (ms) per try *

3000

Max retries *

-

1

+

Behavior upon timeout ⓘ

☒ Approve ☐ Reject

0

Save

Cancel

Configuration Item		Description
Authentication server address		The address of your authentication server (required). Format: http(s)://+Domain or IP address+Port+Path.
Request method		POST is selected by default. You can also use HEAD or GET.
URL authentication	Parameters to keep	All URL parameters are kept by default. You can also specify parameters to keep or remove all parameters. If you select Keep specified parameters , you need to enter the parameters to be retained in the input box. Chinese characters and

		spaces are not supported. Separate multiple parameters with " ", for example: <code>value1 value2</code> . Authentication parameters are case-sensitive; "key" and "KEY" are considered as two different parameters.
	Custom parameters to add	Click Add , and the parameter type can be either Select Parameter or Custom . (Up to 50 parameters can be added) Select Parameter supports choosing host, uri, query, client_ip, and cdn_ip parameters. host : The push domain. uri : The original request URL. client_ip : The request client IP. cdn_ip : The request CDN-side IP. When you select Custom , you need to fill in the parameter and value fields. Chinese characters and spaces are not supported. Authentication parameters are case-sensitive; "key" and "KEY" are considered as two different parameters.
Timeout period (ms) per try		This is required. Enter a value between 500 and 3000. The default is 3000.
Max retries		Enter a value between 0 and 3. The default is 1.
Behavior upon timeout		This specifies whether to approve or reject a request if the system does not receive a response (HTTP status code 200 or 403) after the total timeout period elapses (Total timeout period = Timeout period per try x (Max retries + 1)). The default is Approve . You can also set it to Reject .

4. Click **Save**.

Note:

The remote authentication configuration will take effect about 10 minutes after completion.

Modifying Remote Authentication Settings

1. Select [Domain Management](#) on the left sidebar. Click the the push domain you want to configure remote authentication for, or click on **Manage** on the right side to enter the Domain Management page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.

Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate Verification Guide.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME ⓘ	Type ▾	Scenario	Region ▾	Status ▾
<input type="checkbox"/>	[redacted]	ⓘ [redacted].com	Playback Domain	CSS	Outside Chinese mainland	Enabled
<input type="checkbox"/>	[redacted]	ⓘ [redacted].com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	[redacted]	ⓘ [redacted].com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	[redacted]	ⓘ [redacted].com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	[redacted]	ⓘ [redacted].com	Push Domain	CSS	Global	Enabled
<input type="checkbox"/>	[redacted]	ⓘ [redacted].com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	[redacted]	✅ [redacted].com ⓘ	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	[redacted]	✅ [redacted].com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	[redacted]	✅ [redacted].com	Push Domain	CSS	Global	Enabled

Total entries: 9. Selected: 0.

2. Under the **Advanced Configuration** tab, find **Remote authentication** and click Edit.

3. Modify the settings and click **Save**.

Remote authentication ⓘ

Passes through requests to your own authentication server so that you can determine whether to approve a request. This ensures

Remote authentication ☒ Active [Edit](#)

Authentication server address [https://\[redacted\]](#)

Request method POST

URL authentication Kept parameters: value1|value2

Custom URL parameters	Type	Field	Value
	Select	host	\$host

Timeout period (ms) per try 3000

Max retries 1times

Behavior upon timeout Approve

Disabling Remote Authentication

1. Select [Domain Management](#) on the left sidebar. Click the **push domain** you want to disable remote authentication for, or click **Manage** on the right to enter the Domain Management page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate Verification Guide.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME ⓘ	Type ▾	Scenario	Region ▾	Status ▾
<input type="checkbox"/>		ⓘ .com	Playback Domain	CSS	Outside Chinese mainland	Enabled
<input type="checkbox"/>		ⓘ .com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>		ⓘ .com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>		ⓘ .com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>		ⓘ .com	Push Domain	CSS	Global	Enabled
<input type="checkbox"/>		ⓘ .com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>		✓ .com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>		✓ .com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>		✓ .com	Push Domain	CSS	Global	Enabled

Total entries: 9. Selected: 0.

2. Under the **Advanced Configuration** tab, find **Remote authentication** and click



to disable remote authentication.

Remote authentication ⓘ

Passes through requests to your own authentication server so that you can determine whether to approve a request. This ensures more pre

Remote authentication  Active [Edit](#)

Authentication server address [https://](#)

Request method POST

URL authentication Kept parameters: value1|value2

Custom URL parameters	Type	Field	Value
	Select	host	\$host

Timeout period (ms) per try 3000

Max retries 1times

Behavior upon timeout Approve

Playback Domain Name Management

Playback Configuration

Last updated : 2024-05-28 10:27:20

After pushing a stream successfully, you can use the address generator of the CSS console to generate a playback URL (you need to enter the `StreamName` , which should be the same as the stream ID in the push URL).

Prerequisites

You have logged in to the [CSS console](#).

You have added a **playback domain**. For directions on how to add a domain, see [Adding Your Own Domain Name](#).

Directions

1. Select [Domain Management](#) on the left sidebar and click the name of your playback domain or click **Manage** on the right.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to [Guide](#).

Add Domain

Edit Tag

Certificate Management

<input type="checkbox"/>	Domain Name	CNAME ①	Type ▾	Scenario	Region ▾	Status ▾	Added Time
<input type="checkbox"/>	.top	① .com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-03 18:13:40
<input type="checkbox"/>	.top	① .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-12-05 11:13:42
<input type="checkbox"/>	.top	① .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 16:19:06
<input type="checkbox"/>	.top	① .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 14:12:59
<input type="checkbox"/>	.top	① .com	Push Domain	CSS	Global	Enabled	2023-09-19 19:10:42
<input type="checkbox"/>	.top	① .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-08-31 18:21:23
<input type="checkbox"/>	.top	① .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:38:54
<input type="checkbox"/>	.top	① .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:37:32
<input type="checkbox"/>	.com	① .com	Push Domain	CSS	Global	Enabled	2021-08-31 16:52:03

Total entries: 9. Selected: 0.

2. Select **Playback Configuration** and, in **Playback Address Generator**, complete the following settings:

Domain Management / **Playback Configuration** Origin server mode

Basic Info **Playback Configuration** Template Configuration Access control Advanced Configuration

Playback URL

URL Composition Playback Domain AppName StreamName Authentication Info

RTMP URL `rtmp://example.com.top/AppName/StreamName`

FLV URL `http://example.com.top/AppName/StreamName.flv`

HLS URL `http://example.com.top/AppName/StreamName.m3u8`

WebRTC URL `webrtc://example.com.top/AppName/StreamName`

LEB (low latency live streaming) is a UDP-based live streaming solution featuring millisecond playback latency. It's priced differently from LVB. For details, see [Billing of LEB](#).

Playback Address Generator

Playback Domain example.com.top

Key Authentication Closed

Type ☒ MD5 ☐ SHA256

Key 123

Validity Period 5sec

StreamName Original stream ☐ Transcoded stream ☐ Adaptive bitrate streams

Only supports letters, digits, and symbols

URL Expiration Time 2024-05-09 14:50:41

[Generate Address](#)

2.1 You are required to select an **encryption type**. Make your choice based on your security needs and performance considerations. The options for encryption types include MD5 and SHA256, with MD5 being the default.

2.2 Select the type of stream to play, which can be the **original stream**, the **transcoded stream**, or **adaptive bitrate streams**. If you select **Transcoded stream**, you need to specify a transcoding template. If you select **Adaptive bitrate streams**, you need to specify an adaptive bitrate template.

2.3 Enter the **StreamName**.

Only supports English letters, digits, and symbols.

such as **liveteststream**. Make sure it's the same as the **StreamName** in your push URL.

2.4 After you select an adaptive bitrate template, the names of the streams in the template will be listed in descending order by bitrate.

2.5 Select an **URL Expiration Time**, such as `2024-05-09 14:50:41`.

Note:

The URL expiration time refers to the hex(time) in the authentication information, and modifying it will change the playback URL. The actual validity period is the sum of the URL expiration time and the authentication validity period. Beyond this actual validity period, new requests will be denied, preventing further streaming through that address.

3. Click **Generate Address**.

Playback Address Generator

Playback Domain

Key Authentication

Type ☒ MD5 ☐ SHA256

Key

Validity Period

StreamName * ☐ Original stream ☒ Transcoded stream ☐ Adaptive bitrate streams

-

Only supports letters, digits, and symbols

URL Expiration Time

[Generate Address](#)

Generation Result

(Generate the following address according to the above settings)

URL Type	Playback Address
Validity Period	2024-05-09 14:50:46 (UTC+08:00)
RTMP URL	rtmp:// <input type="text" value="top"/> /live/livetteststream_test002
FLV URL	http:// <input type="text" value="top"/> /live/livetteststream_test002.flv
HLS URL	http:// <input type="text" value="top"/> /live/livetteststream_test002.m3u8
WebRTC URL	webrtc:// <input type="text" value="top"/> /live/livetteststream_test002

LEB (low latency live streaming) is a UDP-based live streaming solution featuring millisecond playback latency. It's priced differently from LVB. For details, see [Billing of LEB](#)

4. If you haven't enabled authentication for your playback domain, in the **Playback URL** area on the same page, you can find playback URLs for RTMP, FLV, HLS, and UDP. Replace `StreamName` in the URLs with the stream ID in your push URL, and you can use the URLs to play the stream.

Playback URL

URL Composition + + +

RTMP URL

FLV URL

HLS URL

WebRTC URL

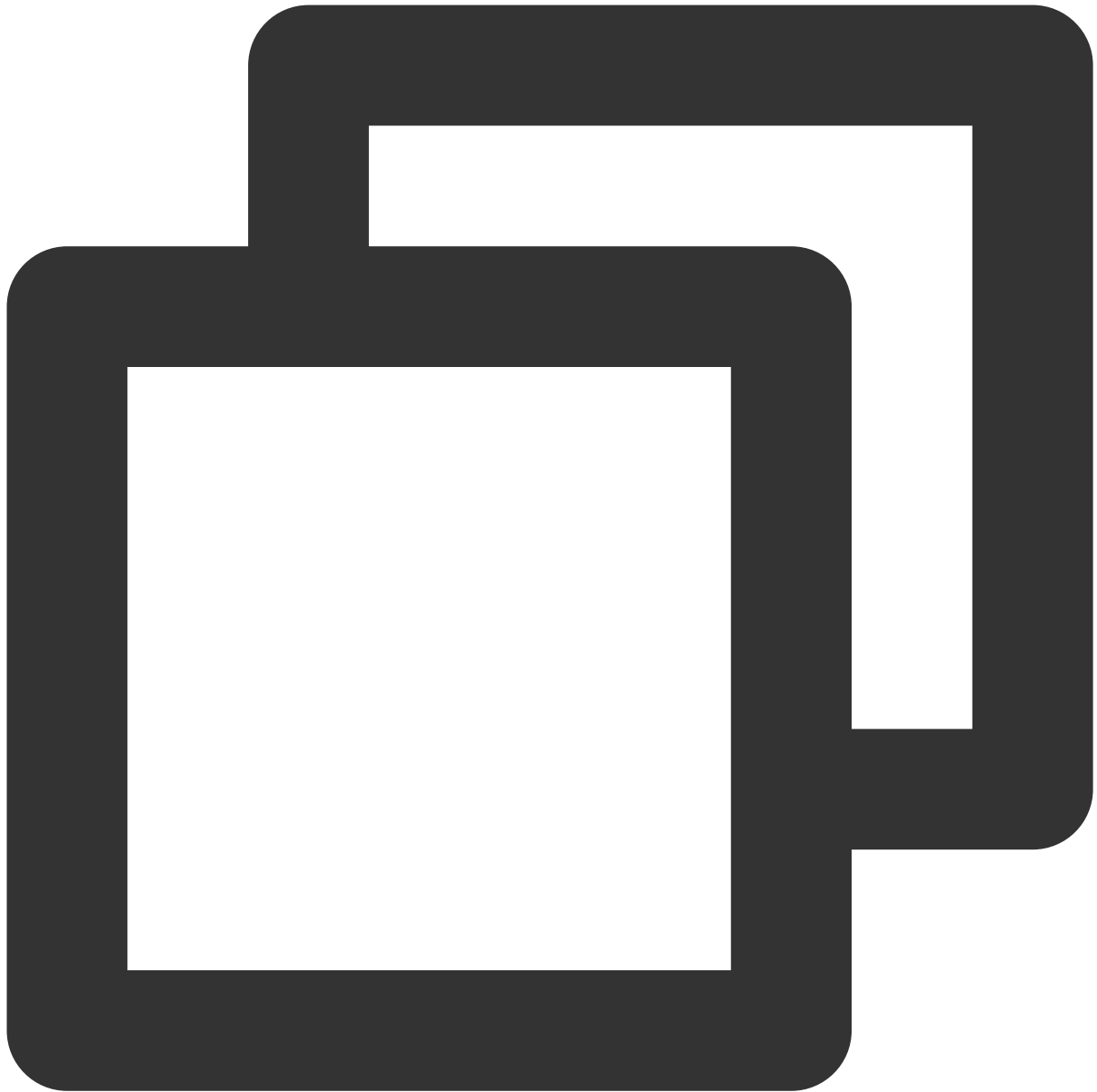
LEB (low latency live streaming) is a UDP-based live streaming solution featuring millisecond playback latency. It's priced differently from LVB. For details, see [Billing of LEB](#)

Note:

For more information, see [Live Playback](#).

Playback URL Format

Playback URL for the original stream



```
RTMP format: `rtmp://domain/AppName/StreamName?txSecret=Md5(key+StreamName+hex(time
FLV format: `http://domain/AppName/StreamName.flv?txSecret=Md5(key+StreamName+hex(t
M3U8 format: `http://domain/AppName/StreamName.m3u8?txSecret=Md5(key+StreamName+hex
UDP format: webrtc://domain/AppName/StreamName?txSecret=Md5(key+StreamName+hex(time
```

`domain` : Your playback domain name.

`AppName` : The live streaming application name, which is `live` by default and is customizable.

`StreamName` : The stream ID, which uniquely identifies a stream and is customizable.

`txSecret` : The authentication string generated after playback authentication is enabled.

`txTime` : The expiration timestamp of the playback URL configured in the console.

Note:

If you have enabled authentication, the actual expiration time of a URL will be `txTime` plus the validity period of the authentication key.

For the sake of convenience, the console allows you to specify the URL expiration time in human-readable format. If you enable authentication, when generating playback URLs, the system will convert it to a hex timestamp (the value of `txTime`).

As long as you start push or playback before the expiration time and the stream is not interrupted, the push or playback can continue even after the URL expires.

Playback URL for the transcoded stream

If a transcoding template is bound to your playback domain, and you want to play the transcoded stream, you need to append the template name (`_transcoding template name`) to the original playback URL.

For example, if the original playback URL is `http://domain/AppName/StreamName.flv?`

`txSecret=Md5(key+StreamName+hex(time))&txTime=hex(time)` and the name of the transcoding

template bound is `hd` , the playback URL of the transcoded stream would be

`http://domain/AppName/StreamName_hd.flv?`

`txSecret=Md5(key+StreamName_hd+hex(time))&txTime=hex(time)` .

Adaptive bitrate playback URL

Only HLS and WebRTC are supported for adaptive bitrate playback. The URL formats for the two protocols are different.

To get an **HLS adaptive bitrate URL**, add the template name (`_adaptive bitrate template name`) after `StreamName` of the original playback URL.

For example, suppose the original playback URL is `http://domain/AppName/StreamName.m3u8?`

`txSecret=Md5(key+StreamName+hex(time))&txTime=hex(time)` and the name of the adaptive bitrate

template bound is `autobitrate` .

The HLS adaptive bitrate URL would be `http://domain/AppName/StreamName_autobitrate.m3u8?`

`txSecret=Md5(key+StreamName_autobitrate+hex(time))&txTime=hex(time)` .

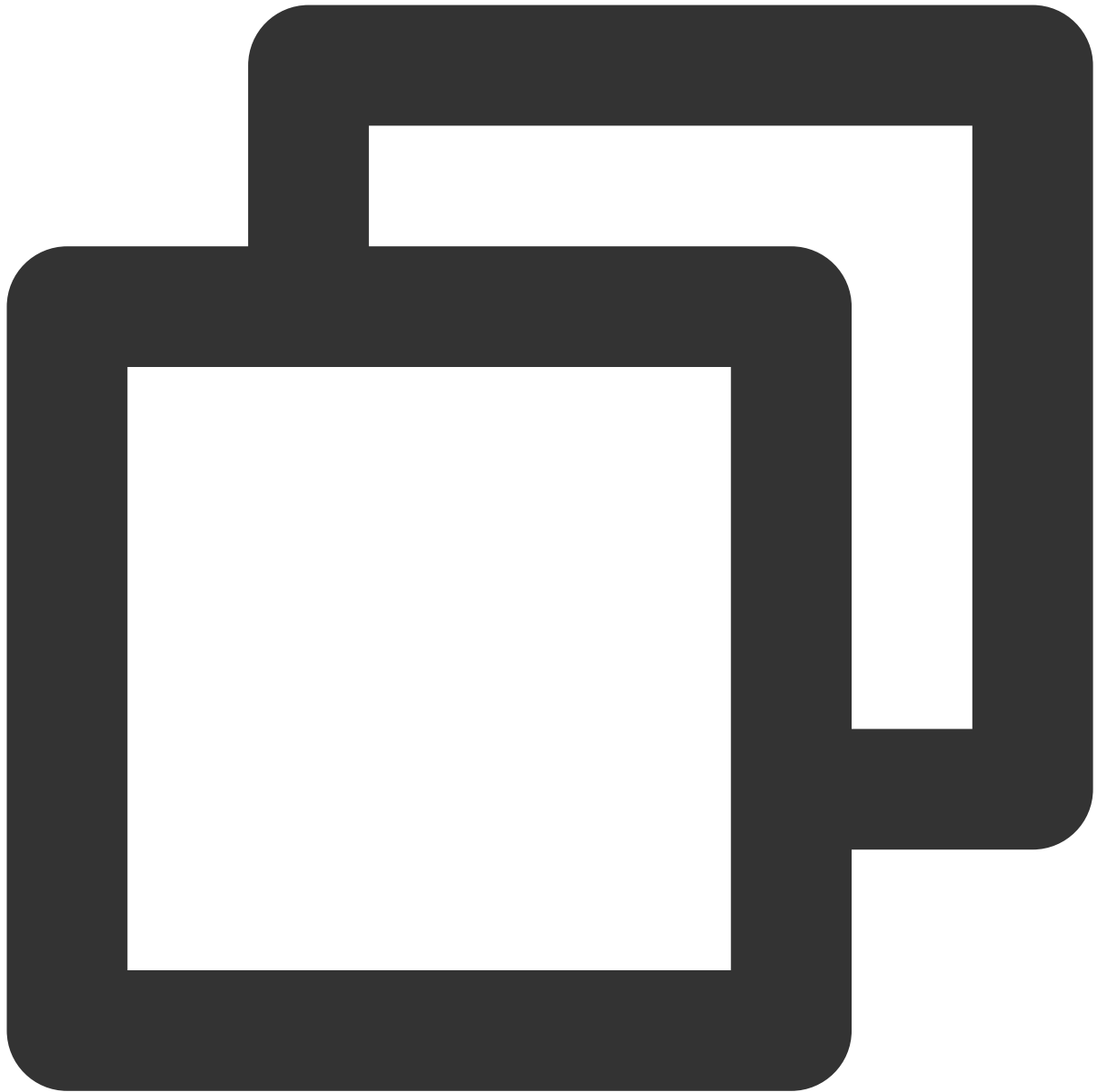
The format of a **WebRTC adaptive bitrate URL** is:

Playback domain (domain) + Application name (AppName, which is live by default),
Stream ID (StreamName) + Authentication information + Adaptive bitrate stream names
+ Name of the initially played stream + Bitrate control mode.

Note:

The adaptive stream names are listed in descending order by bitrate.

Suppose the adaptive bitrate template bound has three streams. Their names are "test 1", "test 2", and "test 3", and their bitrates are 200 Kbps, 300 Kbps, and 400 Kbps respectively. The WebRTC adaptive bitrate URL would be:



```
webrtc://domain/AppName/StreamName?txSecret=Md5(key+StreamName+hex(time))&txTime=he
```

H.265 playback URL

CSS supports pushing and playing H.265 streams. If the original stream is an H.264 stream, you can configure a transcoding template to transcode it into an H.265 stream. For details about how to do this in the console or by calling an API, see [Live Remuxing and Transcoding](#).

Playback Authentication Configuration

Last updated : 2024-06-19 16:08:10

Overview

By default, the content of Cloud Streaming Services (CSS) is publicly accessible, allowing you to view the live streaming content as soon as you obtain the playback address. If you require access control over the live streaming content during the use of Live Video Broadcasting (LVB) or Live Event Broadcasting (LEB), this can be achieved through authentication settings to protect the content of the live streaming resources. Key authentication is used to generate the authentication txSecret field in the live streaming address, which can prevent unauthorized use of the live streaming due to domain name leaks. We recommend that you enable the key authentication feature to enhance the security of your live streaming content.

How to Configure

To enable URL authentication, a CSS user needs to generate an encrypted URL and provide it to other users. When a user requests content using the encrypted URL from a CSS acceleration node, the node will check the authentication information of the request to determine whether the request is valid. If it is, the node will return the content normally; otherwise, the node will reject the request, protecting your live streaming content.

Prerequisites

CSS has been activated, and you have logged in to the [CSS console](#).

You have added a [playback domain name](#).

Enabling Key Authentication

1. Select [Domain Management](#) and click the **playback domain name** for which you want to enable authentication or click **Manage** to enter the domain name management page.

Domain Management


Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to verify your Guide.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>	[redacted].com		Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-02-05 17:51:38
<input type="checkbox"/>	[redacted].org		Playback Domain	CSS	Chinese mainland	Enabled	2024-01-22 11:39:47
<input type="checkbox"/>	[redacted].org		Playback Domain	CSS	Chinese mainland	Enabled	2024-01-11 17:26:45
<input type="checkbox"/>	[redacted].org		Playback Domain	CSS	Chinese mainland	Enabled	2023-12-05 11:09:58
<input type="checkbox"/>	[redacted].com		Playback Domain	CSS	Outside Chinese mainland	Enabled	2023-11-27 11:26:05
<input type="checkbox"/>	[redacted].xyz		Push Domain	CSS	Global	Enabled	2023-11-08 23:08:50
<input type="checkbox"/>	[redacted].com		Playback Domain	CSS	Outside Chinese mainland	Enabled	2023-08-31 16:23:26
<input type="checkbox"/>	[redacted].cn		Playback Domain	CSS	Outside Chinese mainland	Enabled	2023-08-31 15:29:03
<input type="checkbox"/>	[redacted].org		Push Domain	CSS	Global	Enabled	2023-02-02 10:47:31
<input type="checkbox"/>	[redacted].com		Playback Domain	CSS	Global	Enabled	2022-12-08 22:25:35

Total entries: 23. Selected: 0.

2. In the **Access control** > **Key Authentication** section, click

 to enable key authentication.

[Domain Management](#) / [\[redacted\].com](#) Origin server mode

[Basic Info](#) [Playback Configuration](#) [Template Configuration](#) **[Access control](#)** [Advanced Configuration](#)

Key Authentication

The authentication key is used to generate the txSecret parameter in the live streaming URL for authentication, which prevents unauthorized playback caused by domain name disclosure. [How to generate a live streaming UR](#)

Playback Authentication

Primary Key None

Backup Key None

Validity Time (s) 0

3. Complete the following settings on the authentication configuration page:

Authentication Configuration

Primary Key

Generate

Only support case-sensitive letters and digits, with a length of up to 256 bits.

Backup Key

Generate

Only support case-sensitive letters and digits, with a length of up to 256 bits.

Validity Time (s)

-

20

+

Only support integers

Save

Cancel

Configuration Item	Description
Primary Key	When configuring a primary key for authentication, based on your actual needs and security policy, you can select a primary key randomly generated by the system, or enter a custom primary key, for example, test. It supports only uppercase letters, lowercase letters, and digits, with a maximum length of 256 characters.
Backup Key	When configuring a backup key for authentication, based on your actual needs and security policy, you can select a backup key randomly generated by the system, or enter a custom backup key, for example, testing. It supports only uppercase letters, lowercase letters, and digits, with a maximum length of 256 characters.
Validity Time (s)	It supports only integers. Enter the signature validity period, such as 20.

Note:

Playback authentication of a playback domain name is **disabled** by default.

Authentication Key : It includes a primary key (required) and a backup key (optional). You can switch smoothly to the backup key if your primary key is disclosed.

4. Click **Save** to save the configuration.

Modifying Key Authentication

1. Select **Domain Management**, and click the **playback domain name** that requires authentication configuration or click **Manage** to enter the domain name management page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to verify your Guide.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>	[redacted].com		Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-02-05 17:51:38
<input type="checkbox"/>	[redacted].org		Playback Domain	CSS	Chinese mainland	Enabled	2024-01-22 11:39:47
<input type="checkbox"/>	[redacted].org		Playback Domain	CSS	Chinese mainland	Enabled	2024-01-11 17:26:45
<input type="checkbox"/>	[redacted].org		Playback Domain	CSS	Chinese mainland	Enabled	2023-12-05 11:09:58
<input type="checkbox"/>	[redacted].com		Playback Domain	CSS	Outside Chinese mainland	Enabled	2023-11-27 11:26:05
<input type="checkbox"/>	[redacted].xyz		Push Domain	CSS	Global	Enabled	2023-11-08 23:08:50
<input type="checkbox"/>	[redacted].com		Playback Domain	CSS	Outside Chinese mainland	Enabled	2023-08-31 16:23:26
<input type="checkbox"/>	[redacted].cn		Playback Domain	CSS	Outside Chinese mainland	Enabled	2023-08-31 15:29:03
<input type="checkbox"/>	[redacted].org		Push Domain	CSS	Global	Enabled	2023-02-02 10:47:31
<input type="checkbox"/>	[redacted].com		Playback Domain	CSS	Global	Enabled	2022-12-08 22:25:35

Total entries: 23. Selected: 0.

2. In the **Access control > Key Authentication** section, click **Edit** to enter the key authentication configuration page.

Basic Info Playback Configuration Template Configuration **Access control** Advanced Configuration

Key Authentication

The authentication key is used to generate the txSecret parameter in the live streaming URL for authentication, which prevents unauthorized playback caused by domain name disclosure. [How to generate a live streaming URL](#)

Playback Authentication ☒ **Edit**

Primary Key test

Backup Key testing

Validity Time (s) 20

3. Modify the configuration item information according to your actual needs, and click **Save** to complete the modification.

Disabling Key Authentication

Note:

When you choose to disable key authentication, make sure you understand the risks involved. Disabling key authentication may expose your live streaming service to piracy, resulting in additional service fees. Therefore, we recommend that you keep key authentication enabled to protect your live streaming content.

After [Enabling Key Authentication](#), if you need to disable this feature, follow these steps:

1. Select **Domain Management**, and click the **playback domain name** that requires authentication configuration or click **Manage** to enter the domain name management page.

Domain Management


Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to verify your Guide.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>	com	✓	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-02-05 17:51:38
<input type="checkbox"/>	.org	⚠	Playback Domain	CSS	Chinese mainland	Enabled	2024-01-22 11:39:47
<input type="checkbox"/>	.org	⚠	Playback Domain	CSS	Chinese mainland	Enabled	2024-01-11 17:26:45
<input type="checkbox"/>	.org	⚠	Playback Domain	CSS	Chinese mainland	Enabled	2023-12-05 11:09:58
<input type="checkbox"/>	.com	✓	Playback Domain	CSS	Outside Chinese mainland	Enabled	2023-11-27 11:26:05
<input type="checkbox"/>	.xyz	⚠	Push Domain	CSS	Global	Enabled	2023-11-08 23:08:50
<input type="checkbox"/>	.com	✓	Playback Domain	CSS	Outside Chinese mainland	Enabled	2023-08-31 16:23:26
<input type="checkbox"/>	.cn	✓	Playback Domain	CSS	Outside Chinese mainland	Enabled	2023-08-31 15:29:03
<input type="checkbox"/>	.org	✓	Push Domain	CSS	Global	Enabled	2023-02-02 10:47:31
<input type="checkbox"/>	.com	✓	Playback Domain	CSS	Global	Enabled	2022-12-08 22:25:35

Total entries: 23. Selected: 0.


2. In the **Access control > Key Authentication** section, click

 to disable key authentication.

Basic Info [Playback Configuration](#) [Template Configuration](#) **[Access control](#)** [Advanced Configuration](#)

Key Authentication

The authentication key is used to generate the txSecret parameter in the live streaming URL for authentication, which prevents unauthorized playback caused by domain name disclosure. [How to generate a live streaming URI](#)

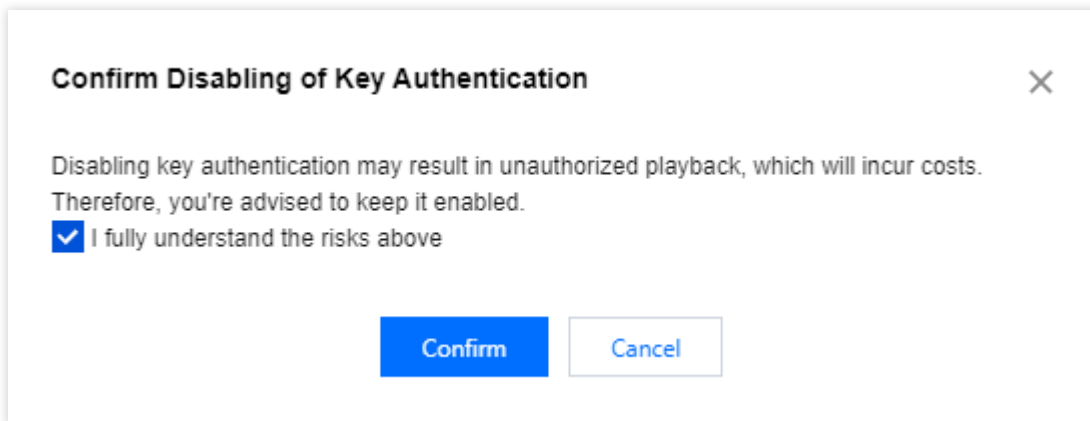
Playback Authentication  [Edit](#)

Primary Key test

Backup Key testing

Validity Time (s) 20

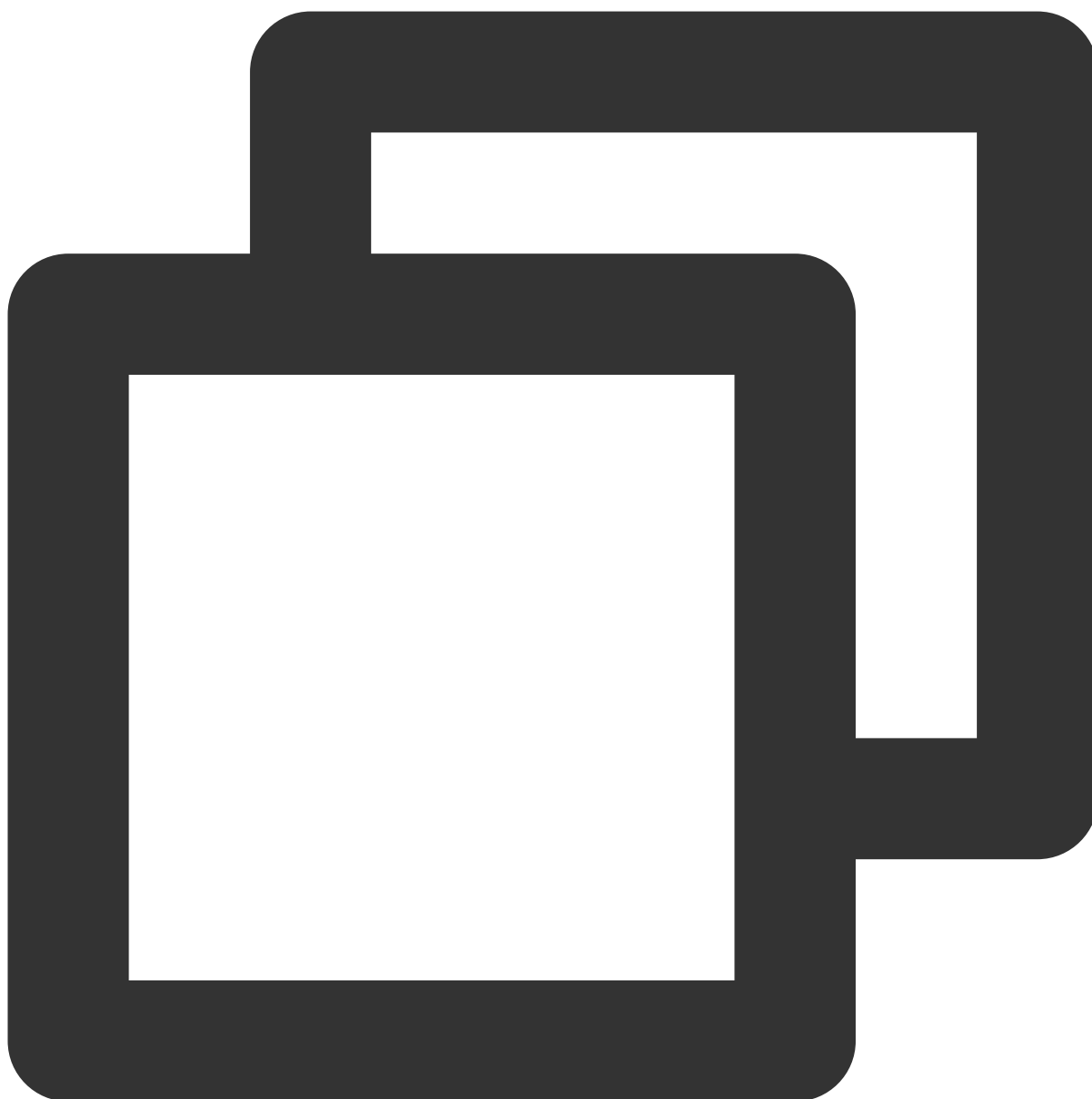
3. Before disabling key authentication, confirm once more if you really wish to proceed. If you understand and accept the risks, click **Confirm** to proceed.

**Note:**

After authentication is enabled for the playback domain name, the original playback URL will be inaccessible and an error 403 will be returned. Before enabling this feature, please make sure that your live streaming platform is compatible with the following authentication algorithm so that your streaming services will not be affected.

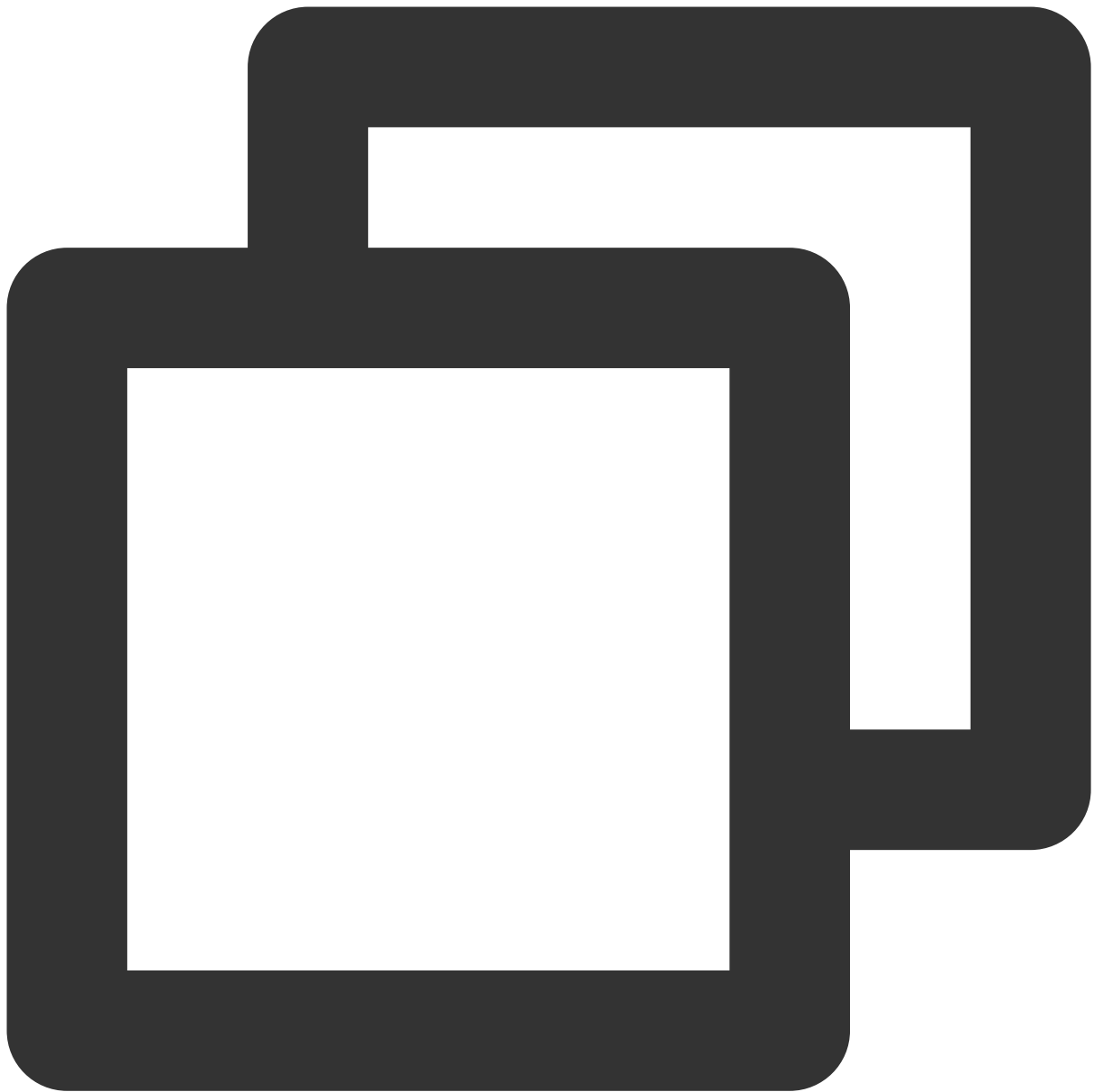
Example

Original playback URL:



```
http://www.test.com/live/test01.flv
```

The authentication parameters configured are as follows:



```
Primary key: ngoeiq03
Backup key: -
Validity period: 12495 seconds
```

Note:

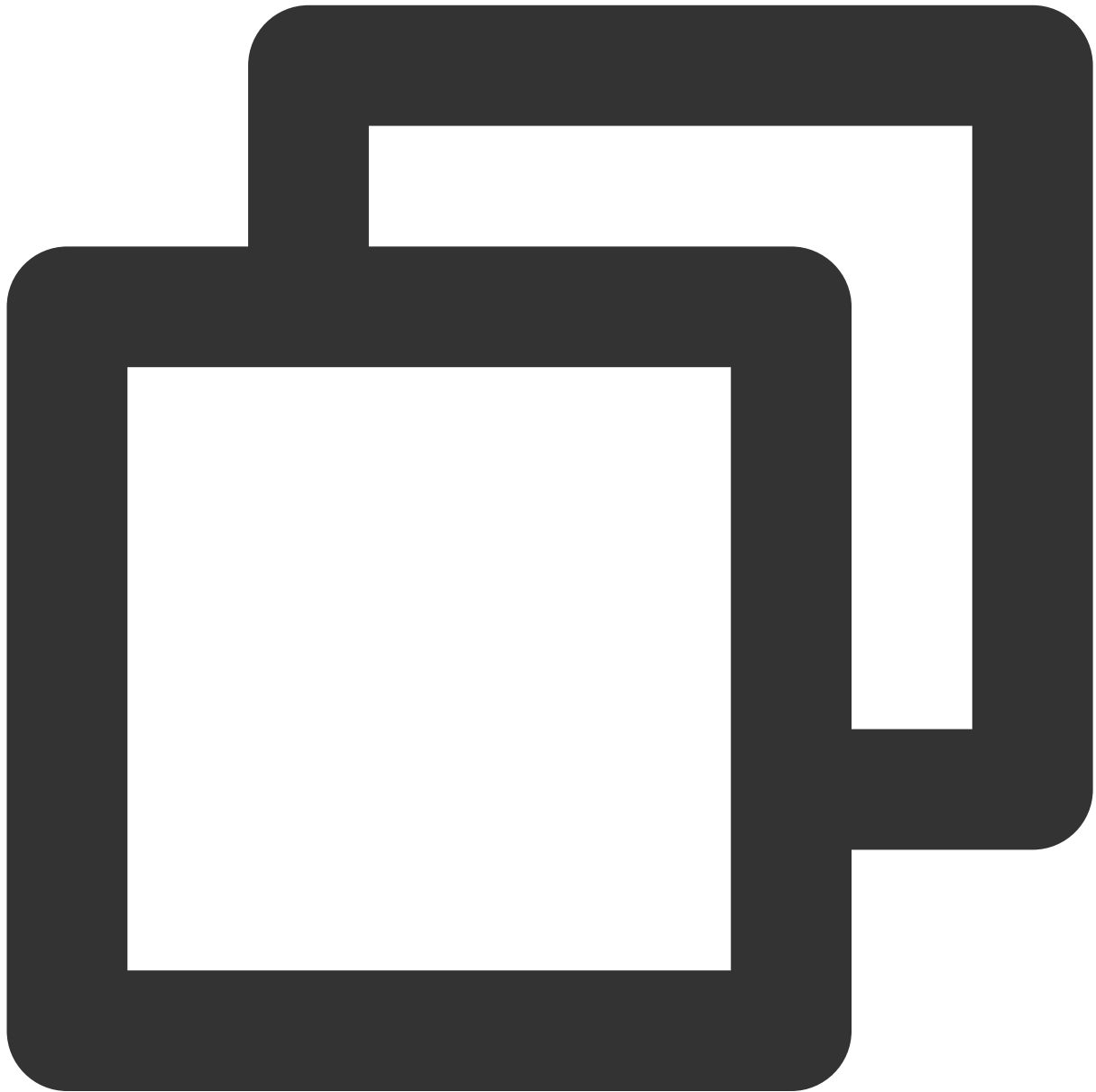
If you have enabled authentication, the actual expiration time of a URL will be `txTime` plus the validity period of the key.

For the sake of convenience, the time you set in the console is the actual expiration time. **If you have enabled authentication, the system will calculate the `txTime` when generating playback URLs.**

If you use FLV or RTMP methods to start pulling the stream before the expiration time, the stream will be maintained normally as long as the connection is not interrupted or stopped, even if the expiration time has passed.

If you use the HLS method to start pulling the stream before the expiration time, the stream will be stopped when the expiration time is reached.

Timestamp calculation:

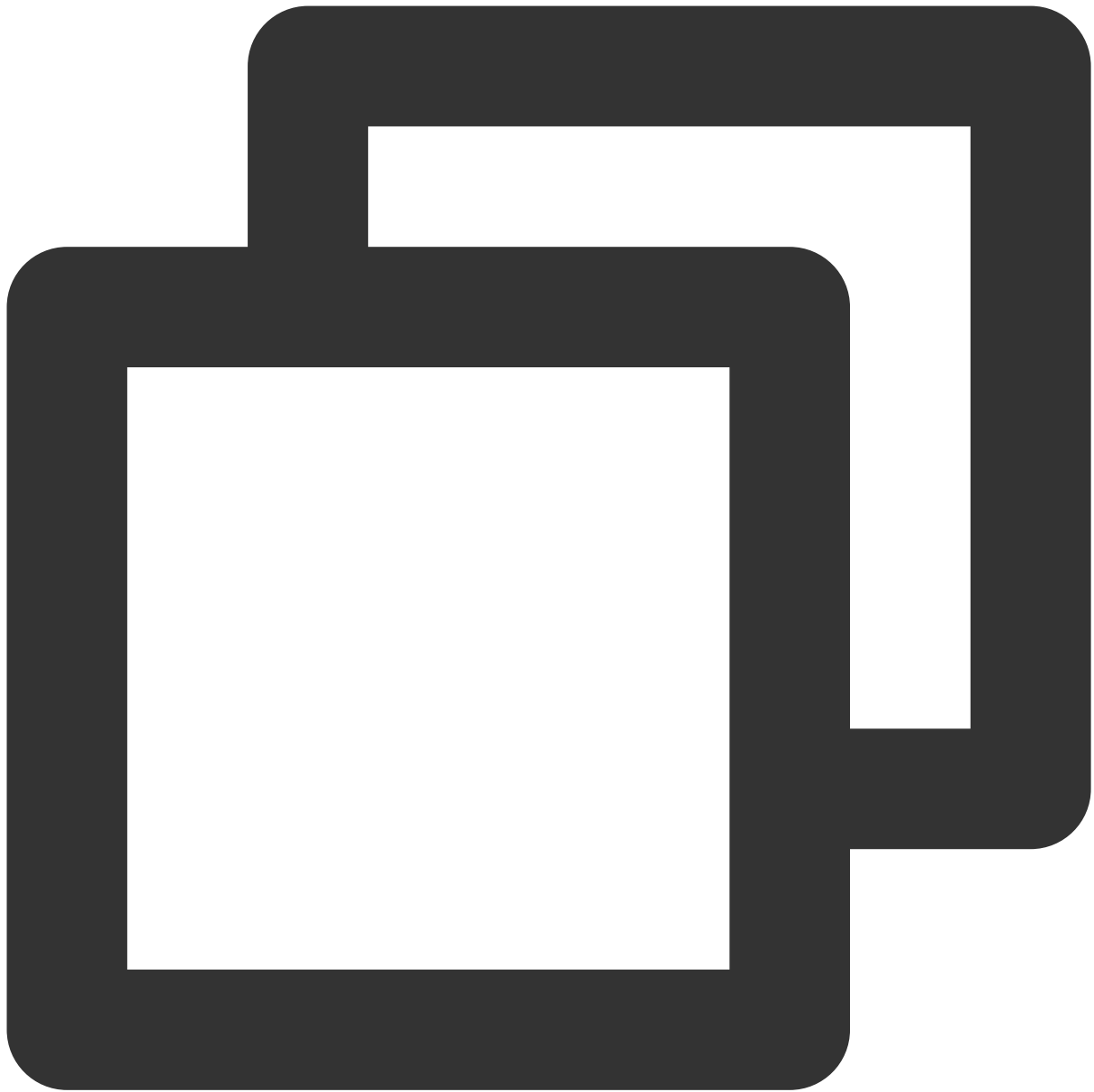


```
Setting time: 2018.12.01 08:30:00
```

```
Decimal Unix timestamp: 1543624200
```

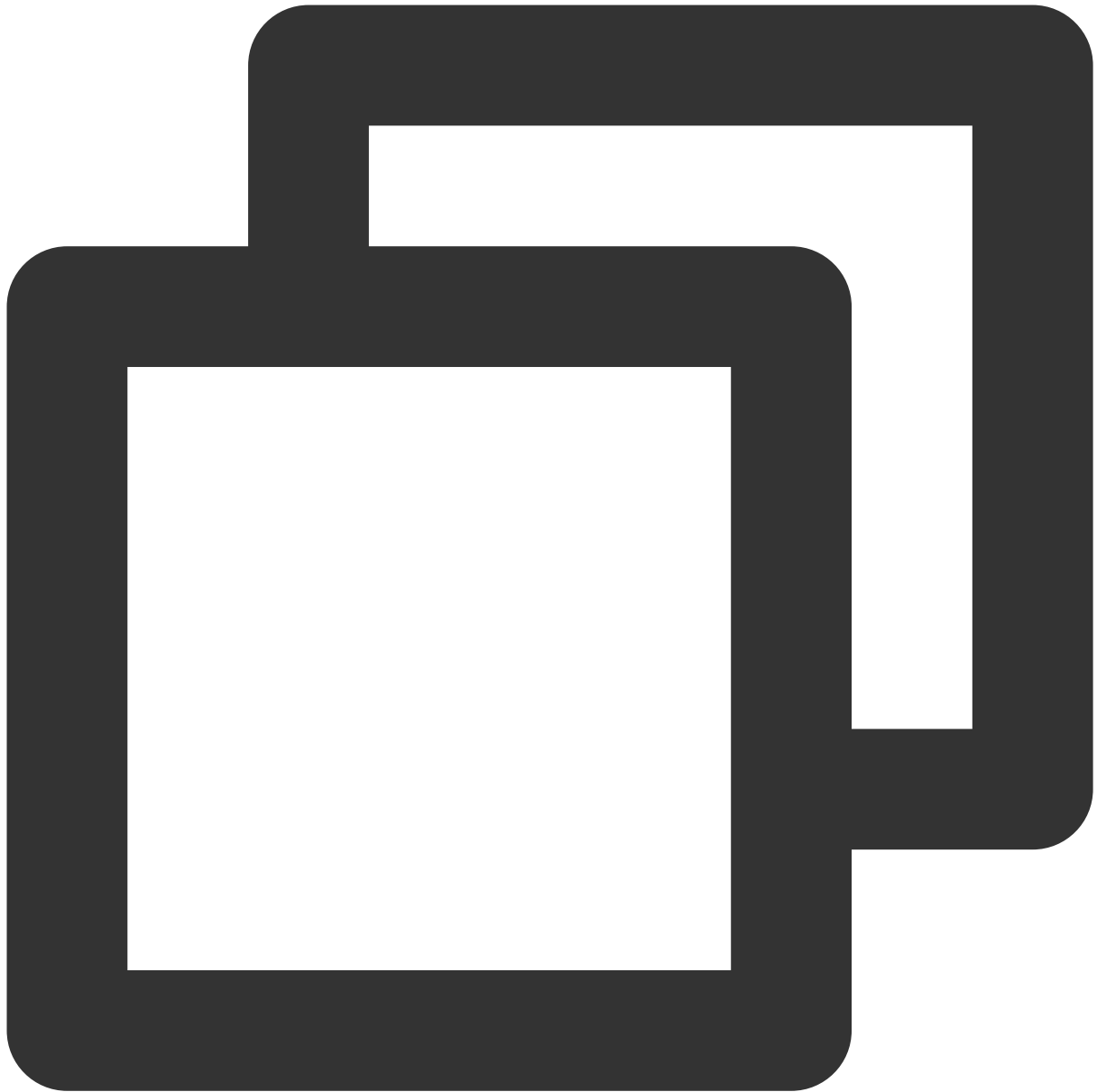
```
Hexadecimal Unix timestamp: 5C01D608 (case-insensitive). CSS uses hexadecimal times
```

Authentication signature calculation:



```
txSecret = MD5(key+StreamName+txTime)
StreamName is the stream name, which is the same as the StreamID
txTime is the timestamp
key is the authentication key
txSecret = MD5(ngoeiq03+test01+5C01D608)
txSecret = MD5(ngoeiq03test015C01D608)
txSecret = ce797dc6238156d548ef945e6ad1ea20
```

New playback URL:



```
http://www.test.com/live/test01.flv?txSecret=ce797dc6238156d548ef945e6ad1ea20&txTim
```

The expiration time of this URL is 2018.12.01 08:30:00 + 12495 seconds, i.e., 2018.12.01 11:58:15 Beijing time.

If authentication fails or the URL expires, CSS will return 403.

Referer Configuration

Last updated : 2024-06-18 14:44:09

You can set referer blacklist/allowlist and rules to block/allow playback requests so as to protect live streaming content. You can also choose whether to allow empty referer.

How to Configure

Referer URL is based on the HTTP protocol. CSS uses the referer field in an HTTP request to identify the source and verify the request, and then determine whether to accept or reject the request.

Notes

Referer information is included in HTTP requests. Therefore, referer configuration is ineffective for non-HTTP (such as RTMP, WebRTC, QUIC) requests. If you want to restrict the access of RTMP requests so as to prevent malicious users from bypassing referer hotlink protection through RTMP pull, perform configurations in the [protocol disablement](#) settings.

Enabling, disabling, or modifying the referer takes effects in 15-20 minutes after the configuration. You don't need to push streams again.

The referer hotlink protection feature verifies the referer information in the header of an HTTP request so as to check whether the request is valid and allow or reject live streaming accordingly. However, there may be cases where a forged referer bypasses the verification to hotlink the service. Therefore, we recommend you not strongly rely on referer for content protection.

Prerequisites

You have activated the CSS service and logged in to the [CSS console](#).

You have [added a playback domain name](#).

Enabling Referer

1. Select [Domain Management](#), and click the target **playback domain** or click **Manage** on the right to enter the domain management page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate Verification Guide.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status
<input type="checkbox"/>	xxxxx.top	xxxxx.com	Playback Domain	CSS	Outside Chinese mainland	Enabled
<input type="checkbox"/>	xxxxx.top	xxxxx.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	xxxxx.top	xxxxx.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	xxxxx.top	xxxxx.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	xxxxx.top	xxxxx.com	Push Domain	CSS	Global	Enabled
<input type="checkbox"/>	xxxxx.top	xxxxx.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	xxxxx.top	xxxxx.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	xxxxx.top	xxxxx.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	xxxxx.com	xxxxx.com	Push Domain	CSS	Global	Enabled

Total entries: 9. Selected: 0.

2. In **Access Control** > **Referer Configuration**, click



to enable Referer Hotlink Protection.

Domain Management / xxxxx.top ☐ Origin server mode

Basic Info Playback Configuration Template Configuration **Access control** Advanced Configuration

Key Authentication

The authentication key is used to generate the txSecret parameter in the live streaming URL for authentication, which prevents unauthorized playback caused by domain name disclosure.

Playback Authentication ☐

Primary Key

Backup Key

Validity Time (s) 5

Referer

The Referer HTTP header field is used to identify and filter a request. [How to use Referer for authentication?](#)

Referer ☐

3. And configure as follows:

Referer Configuration

Referer information is included in HTTP requests. After you enable referer configuration, live streams using RTMP or WebRTC for playback will not authenticate the referer and can be played back normally. To make the referer configuration effective, the FLV or HLS protocol is recommended for playback.

Referer Type ☒ Blocklist ☐ Allowlist

Allow Empty Referer ☒

Referer Patterns

Enter referer patterns. Do not leave empty rows or enter semicolons (;). General patterns match string included in the patterns and support wildcards (*), such as `https://*.xxx.co`. Regular expression patterns are enclosed in parenthesis (), such as `(^https://(.*)xxx.com$)`. Both `https://*.xxx.co` and

Save
Cancel

Configuration Item	Description
Referer Type	<p>Select Blocklist or Allowlist as the referer type. You cannot select both of them.</p> <p>When the referer allowlist is configured, request sources on the list will be allowed to access the live streaming content while those not on the list will be blocked.</p> <p>When the referer blocklist is configured, request sources on the list will be blocked to access the live streaming content while those not on the list will be allowed.</p>
Allow Empty Referer	<p>When this feature is enabled, access will be allowed for HTTP requests with empty or no referer field. Users can access the live stream URL directly via browsers.</p> <p>When this feature is disabled, requests with empty referer will be rejected.</p>
Referer Patterns	<p>You can enter up to 100 patterns. Please separate them with line breaks, Do not leave empty rows or enter semicolons (;) .</p> <p>You can enter IPs or domain names. The field supports path prefixes (domain names and IPs) and wildcards (domain names) for match. For example:</p> <p>If you enter <code>101.1.0.1</code> and <code>www.test.com</code> ,the configuration will take effect for both <code>101.1.0.1/157</code> and <code>www.test.com/tencent</code>.</p> <p>If you enter <code>*.test.com</code> , the configuration will take effect for both <code>www.test.com</code> and <code>a.test.com</code> .</p> <p>If you enter no referer pattern, the blocklist/allowlist is not configured.</p>

4. Click **Save** to save the configuration.

Modifying Referrer

1. Select **Domain Management**, and click the target **playback domain** or click **Manage** on the right to enter the domain management page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate Verification Guide.

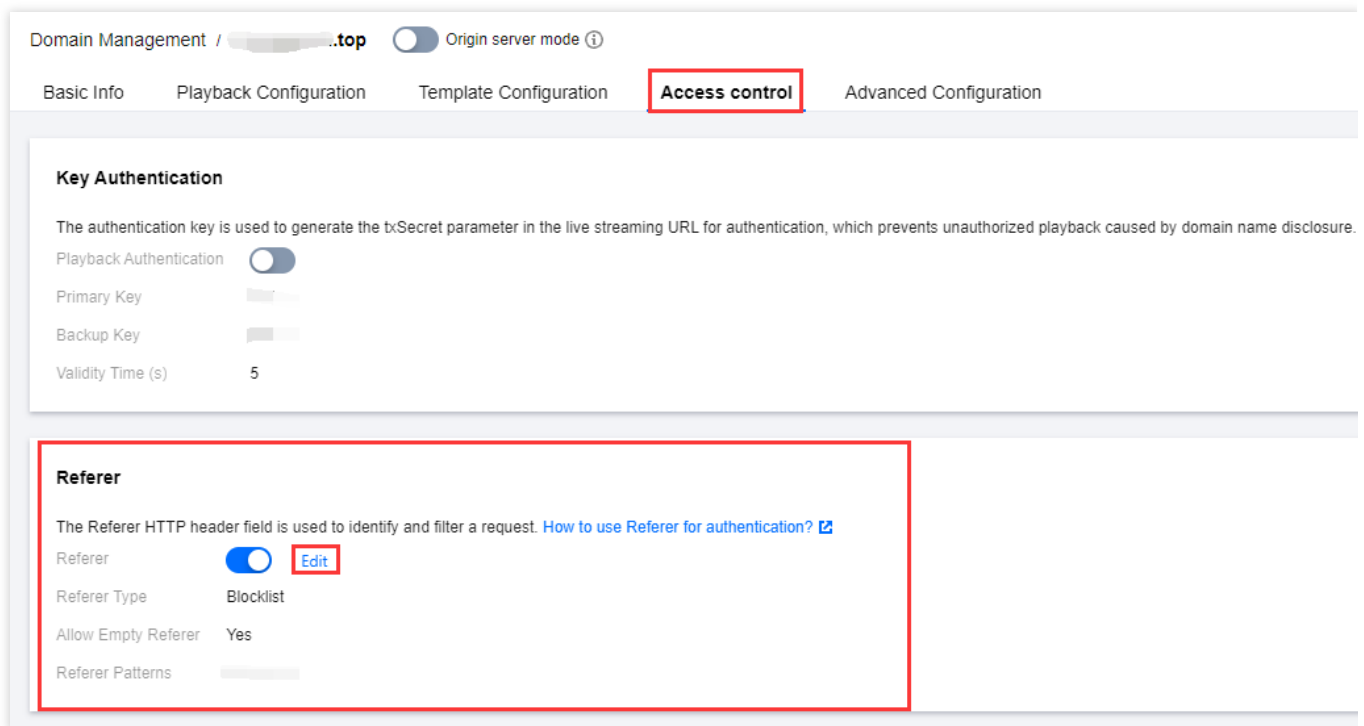
[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status
<input type="checkbox"/>	.top	① .com	Playback Domain	CSS	Outside Chinese mainland	Enabled
<input type="checkbox"/>	.top	① .com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	.top	① .com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	.top	① .com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	.top	① .com	Push Domain	CSS	Global	Enabled
<input type="checkbox"/>	.top	① .com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	.top	① .com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	.top	① .com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	.top	① .com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	.com	① .com	Push Domain	CSS	Global	Enabled

Total entries: 9. Selected: 0.

2. In **Access Control > Referrer Configuration**, click **Edit** to enter the referer configuration page.

3. Modify the **configuration items** and click **Save**.



Disabling Referer

After [enabling the referer](#), you can disable it by performing the following steps:

1. Select [Domain Management](#), and click the target **playback domain** or click **Manage** on the right to enter the domain management page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate Verification Guide.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME ⓘ	Type ▾	Scenario	Region ▾	Status ▾
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Outside Chinese mainland	Enabled
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	...top	...com	Push Domain	CSS	Global	Enabled
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	...com	...com	Push Domain	CSS	Global	Enabled


Total entries: 9. Selected: 0.

2. In **Access Control > Referer Configuration**, click

 to disable the referer.

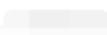
Referer

The Referer HTTP header field is used to identify and filter a request. [How to use Referer for authentication?](#)

Referer  [Edit](#)

Referer Type **Blocklist**

Allow Empty Referer **Yes**

Referer Patterns 

Template Configuration

Last updated : 2024-05-28 10:26:22

With CSS, the original bitrate is used for playback by default. To use a different playback bitrate, you can bind your domain with a transcoding or adaptive bitrate template. This document shows you how to bind a template to and unbind a template from a playback domain.

Notes

A template takes effect about 5-10 minutes after it is bound to a domain.

After you specify a transcoding template, the backend will generate playback URLs of different formats for the transcoded stream. To avoid image distortion, push the stream at a resolution as close as possible to the original resolution.

H.265 is supported by fewer players than H.264. Playback may fail if a player does not support H.265. To solve this issue, you can [configure a transcoding template](#) to transcode your video to H.264.

Loading may take some time for the first user accessing the URL that uses a different playback bitrate.

One domain can be bound with multiple transcoding templates. After you bind a template, videos will be transcoded as specified in the template.

You can create up to **50** transcoding templates.

Prerequisites

You have logged in to the [CSS console](#) and added a [playback domain name](#).

You have created a [transcoding template](#) or an [adaptive bitrate template](#).

Transcoding Template

Binding a transcoding template

1. Go to [Domain Management](#). Click the name of your playback domain or **Manage** on the right.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to add your ICP filed domain for live playback.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-03 18:13:40
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-12-05 11:13:42
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 16:19:06
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 14:12:59
<input type="checkbox"/>	...top	...com	Push Domain	CSS	Global	Enabled	2023-09-19 19:10:42
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-08-31 18:21:23
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:38:54
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:37:32
<input type="checkbox"/>	...com	...com	Push Domain	CSS	Global	Enabled	2021-08-31 16:52:03

Total entries: 9. Selected: 0.

2. Select **Template Configuration > Transcoding Configuration**, and click **Edit** in the upper-right corner of the **Transcoding Configuration** tab.

[Domain Management](#) / ...top ☐ Origin server mode

[Basic Info](#) [Playback Configuration](#) **[Template Configuration](#)** [Access control](#) [Advanced Configuration](#)

Transcoding Configuration

Template Name	Template ID	Codec	Bitrate
No data yet			

Total items: 0

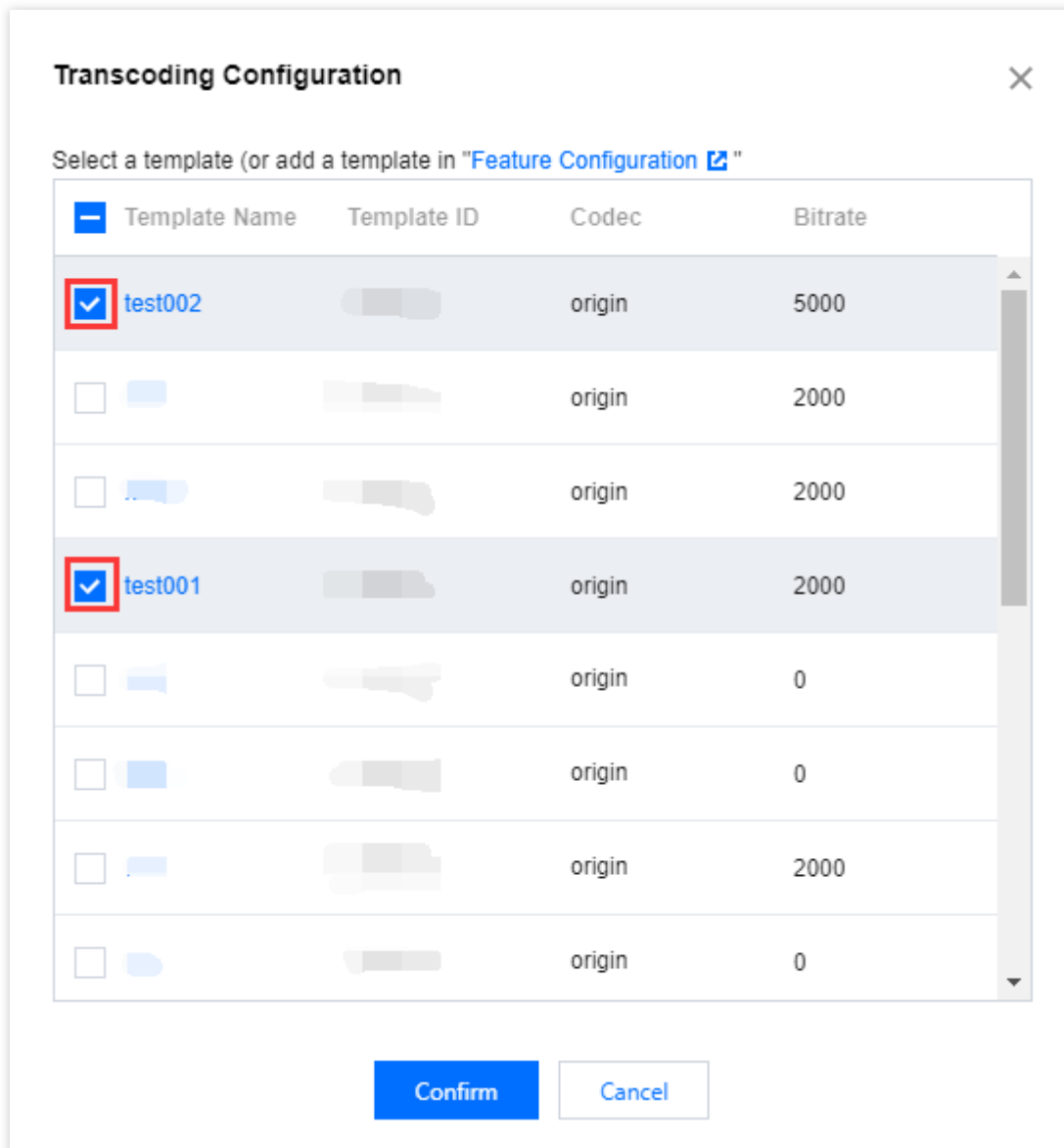
10 / page

1

3. Based on your actual business needs, choose different transcoding configuration templates.

Note:

Choosing different transcoding configuration templates will specify the encoding method and bitrate settings set by the transcoding template for the playback URL under that domain.

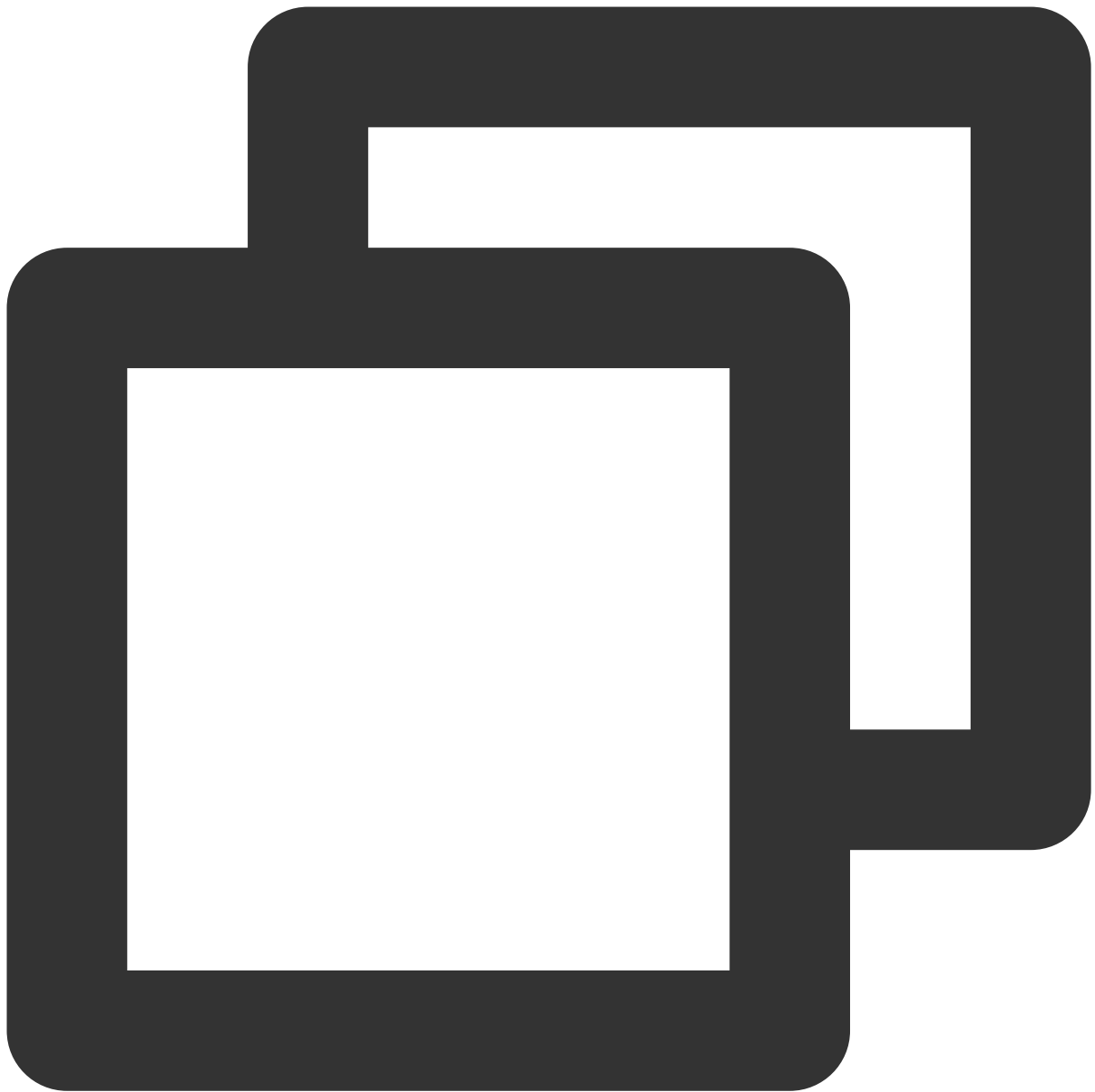


4. Click **Confirm**.

URL format for transcoded streams

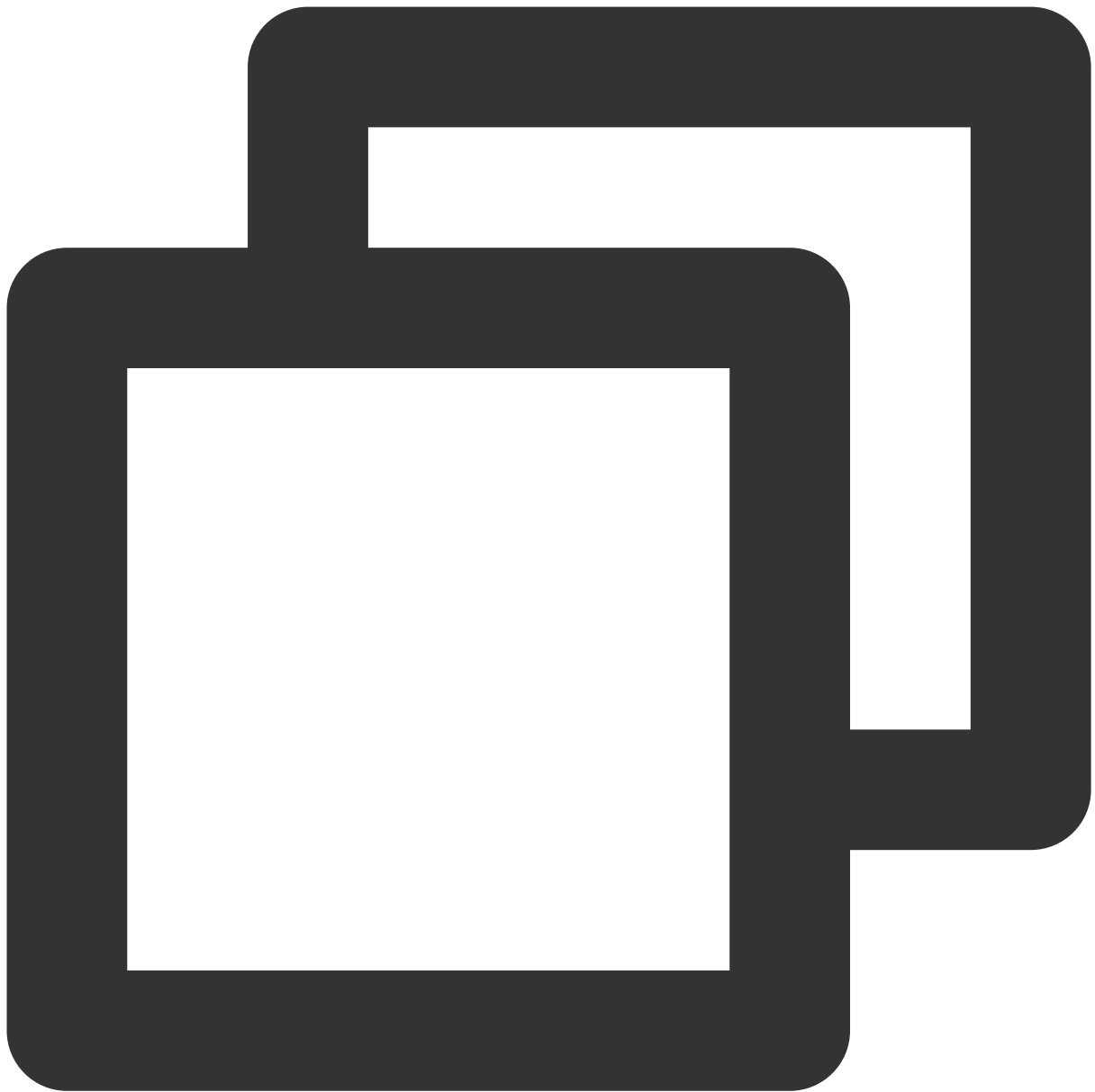
After binding a transcoding template, append its name to your playback URL (**playback URL_transcoding template name**). If you do not append the template name, the original stream will be played. For more information on playback URLs, see [Playback Configuration](#).

Suppose the name of the transcoding template bound is **hd**, and the original playback URL is as follows:



```
http://domain/AppName/StreamName.flv?txSecret=Md5(key+StreamName+hex(time))&txTime=
```

To play the transcoded stream, you need to use the following URL:



```
http://domain/AppName/StreamName_hd.flv?txSecret=Md5(key+StreamName_hd+hex(time))&t
```

Unbinding a transcoding template

1. Go to [Domain Management](#). Click the name of your playback domain or click **Manage** on the right.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.

Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to add your ICP filed domain for live playback.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-03 18:13:40
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-12-05 11:13:42
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 16:19:06
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 14:12:59
<input type="checkbox"/>	...top	...com	Push Domain	CSS	Global	Enabled	2023-09-19 19:10:42
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-08-31 18:21:23
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:38:54
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:37:32
<input type="checkbox"/>	...com	...com	Push Domain	CSS	Global	Enabled	2021-08-31 16:52:03

Total entries: 9. Selected: 0.

2. Select **Template Configuration > Transcoding Configuration**, and click **Edit** in the upper-right corner of the **Transcoding Configuration** tab.

Domain Management / ...top

☐ Origin server mode ⓘ

Basic Info

Playback Configuration

Template Configuration

Access control

Advanced Configuration

Transcoding Configuration

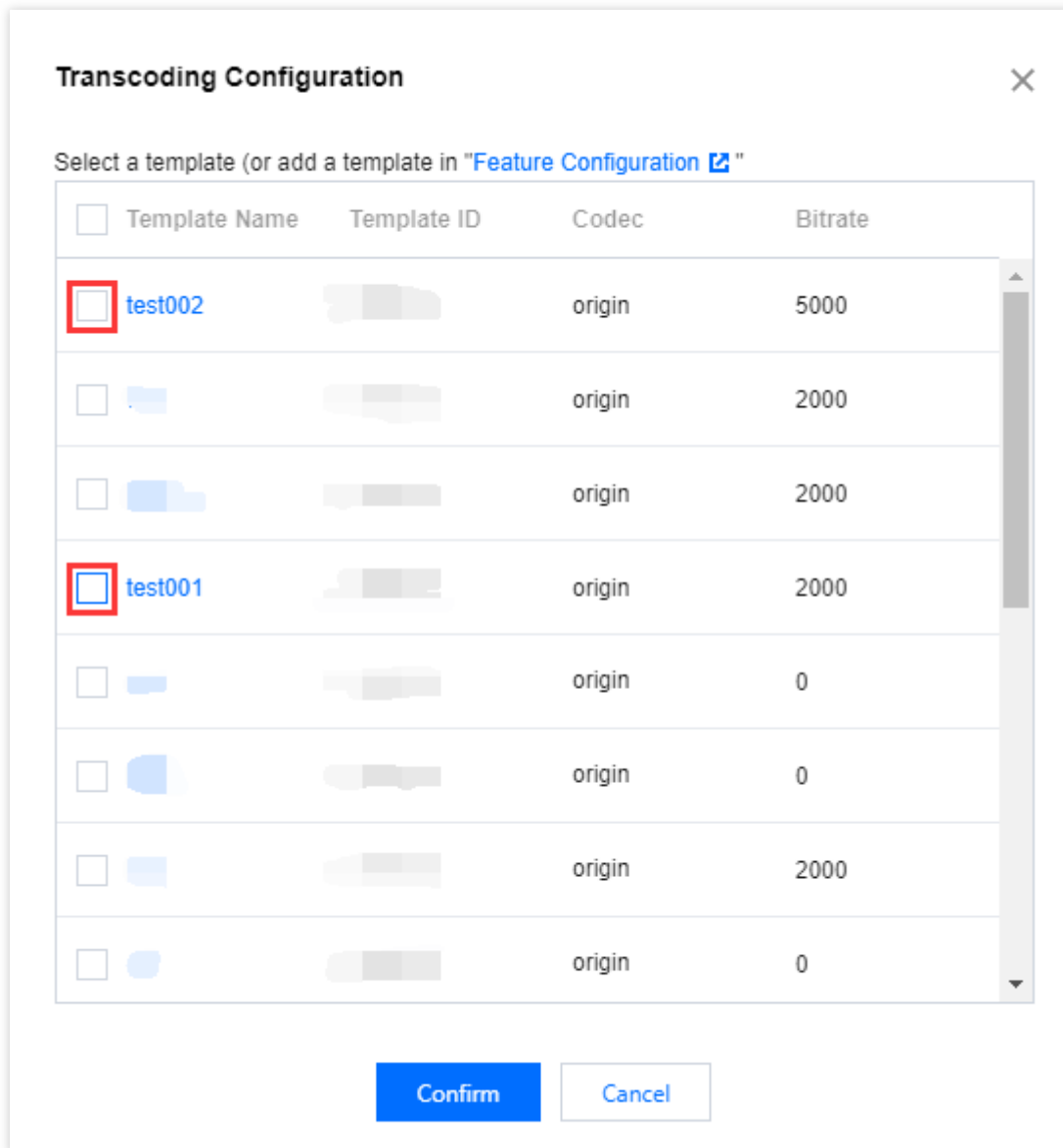
Template Name	Template ID	Codec	Bitrate
test002	...	origin	5000
test001	...	origin	2000

Total items: 2

10 / page

1

3. Based on your actual business needs, deselect the corresponding templates.



4. Click **Confirm**.

Note

To delete a template, you need to unbind it first and then go to **Feature Configuration** > [Live Transcoding](#) to delete it. For details, see [Deleting a Template](#).

Adaptive Bitrate Template

Binding an adaptive bitrate template

1. Go to [Domain Management](#). Click the name of your playback domain or **Manage** on the right.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#).

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-03 18:13:40
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-12-05 11:13:42
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 16:19:06
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 14:12:59
<input type="checkbox"/>	example.com	example.com	Push Domain	CSS	Global	Enabled	2023-09-19 19:10:42
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-08-31 18:21:23
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:38:54
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:37:32
<input type="checkbox"/>	example.com	example.com	Push Domain	CSS	Global	Enabled	2021-08-31 16:52:03

Total entries: 9. Selected: 0.

2. Select **Template Configuration > Adaptive bitrate configuration**, and click **Edit** in the upper-right corner of the **Adaptive bitrate configuration** tab.

Adaptive bitrate configuration

Template Name	Template ID	Template Description	Stream count
No data yet			

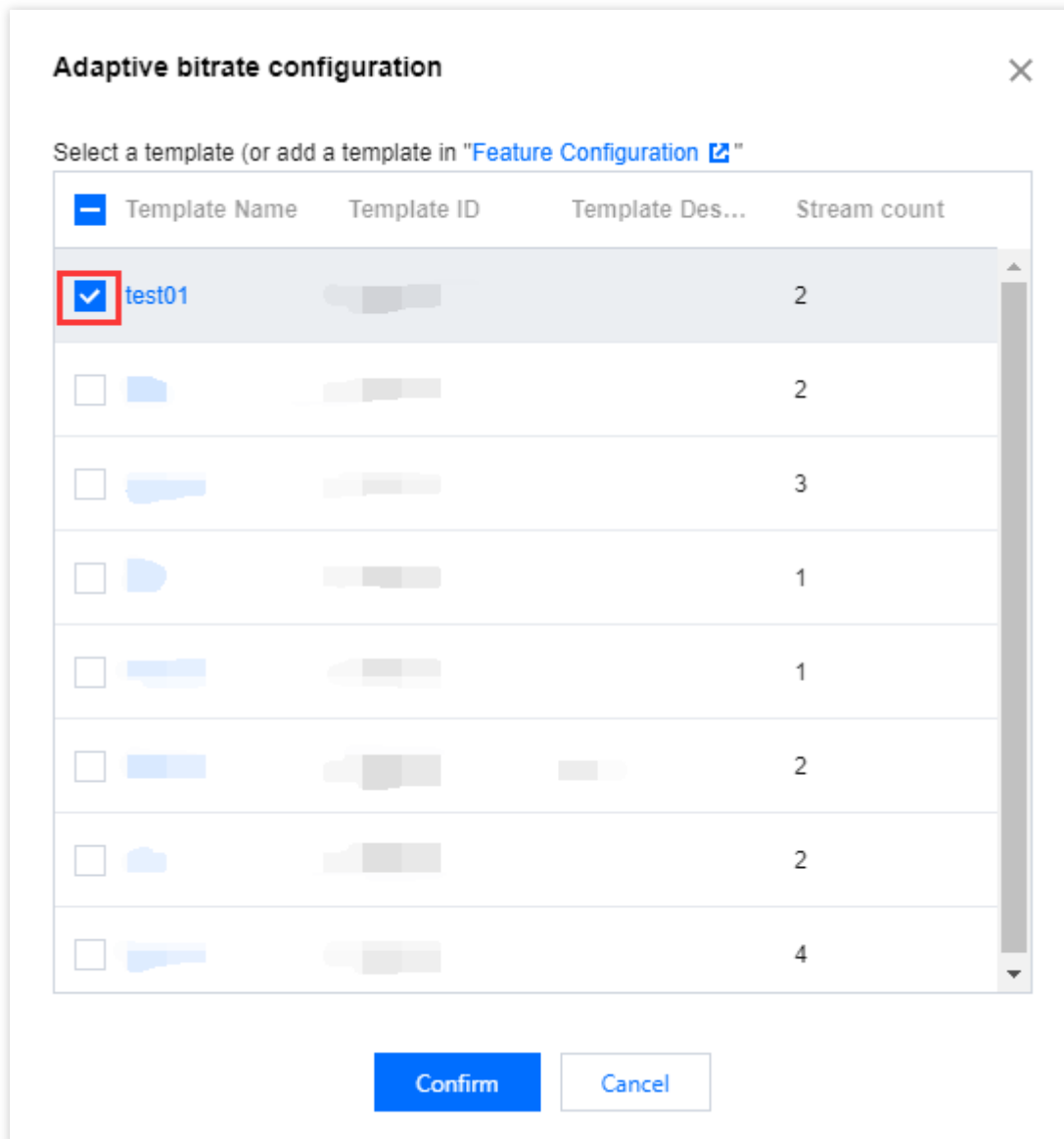
Total items: 0

10 / page

3. Based on your actual business needs, choose the appropriate adaptive bitrate configuration template.

Note:

Choosing different adaptive bitrate configuration templates will specify the sub-stream information set by the adaptive bitrate template for the playback URL under that domain.



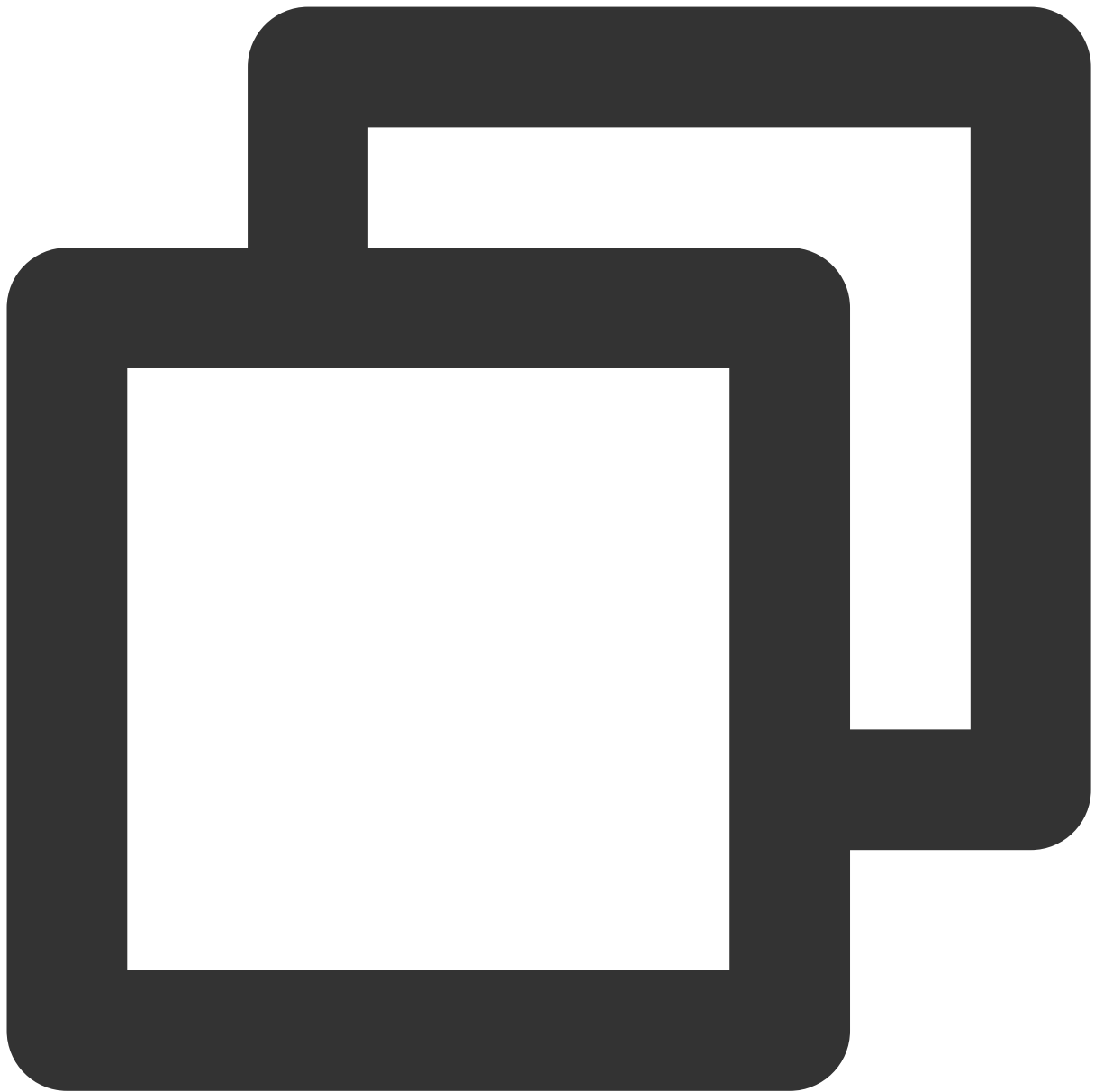
4. Click **Confirm**.

Adaptive bitrate URL format

Only HLS and WebRTC are supported for adaptive bitrate playback. The URL formats for the two protocols are different. For details, see [Playback Configuration](#).

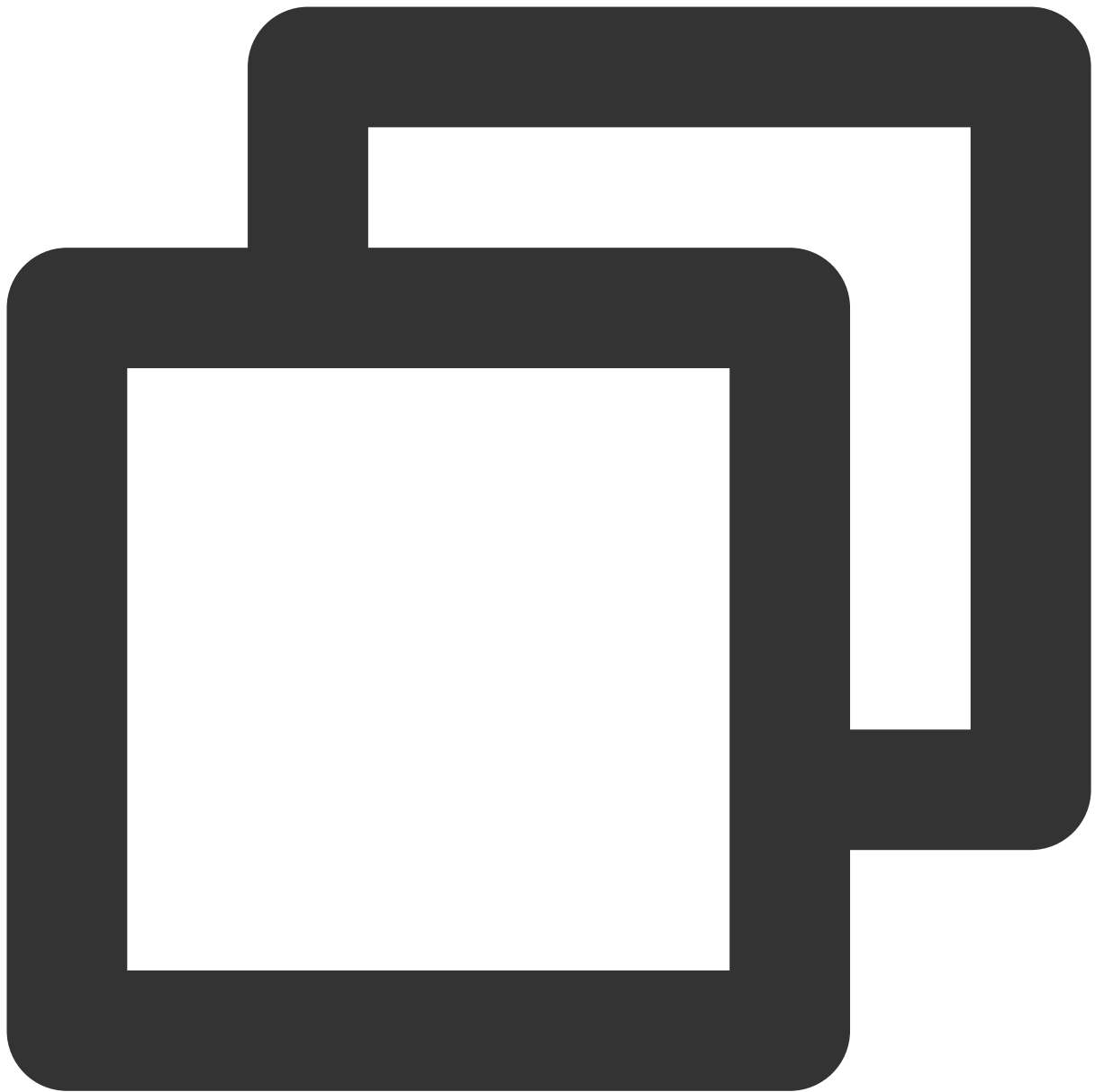
HLS URL:

Suppose the name of the adaptive bitrate template bound is **autobitrate**, and the original playback URL is as follows:



```
http://domain/AppName/StreamName.m3u8?txSecret=Md5(key+StreamName+hex(time))&txTime
```

To play the transcoded stream, you need to use the following URL:

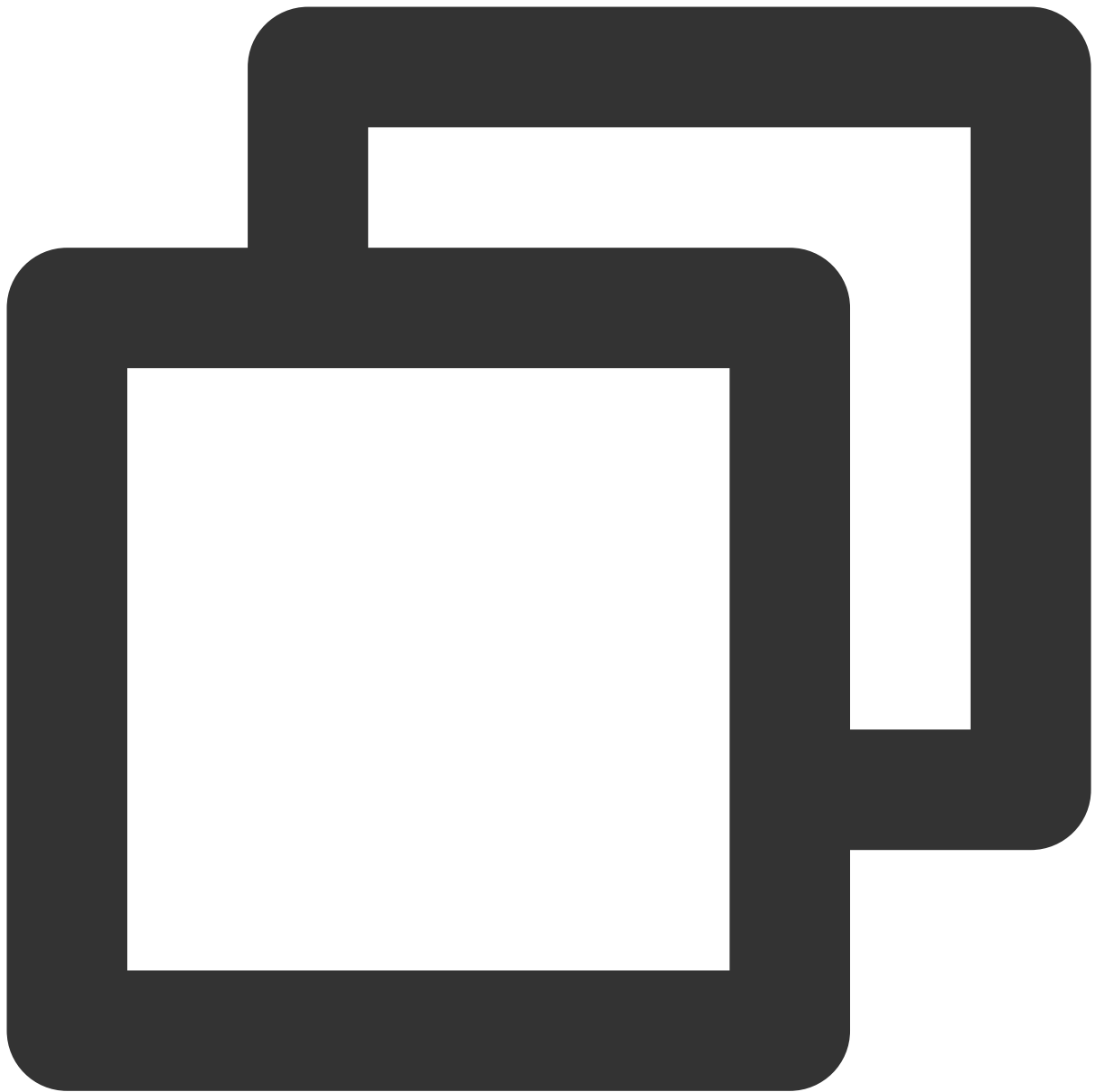


```
http://domain/AppName/StreamName_autobitrate.m3u8?txSecret=Md5 (key+StreamName_autob
```

WebRTC URL:

Suppose the adaptive bitrate template bound has three streams. Their names are "test 1", "test 2", and "test 3", and their bitrates are 200 Kbps, 300 Kbps, and 400 Kbps respectively.

The adaptive bitrate playback URL would be as follows:



```
webrtc://domain/AppName/StreamName?txSecret=Md5(key+StreamName+hex(time))&txTime=he
```

Unbinding an adaptive bitrate template

1. Go to [Domain Management](#). Click the name of your playback domain or click **Manage** on the right.










Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#).

Add Domain

Edit Tag


Certificate Management

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>	.top	 .com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-03 18:13:40
<input type="checkbox"/>	.top	 .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-12-05 11:13:42
<input type="checkbox"/>	.top	 .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 16:19:06
<input type="checkbox"/>	.top	 .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 14:12:59
<input type="checkbox"/>	.top	 .com	Push Domain	CSS	Global	Enabled	2023-09-19 19:10:42
<input type="checkbox"/>	.top	 .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-08-31 18:21:23
<input type="checkbox"/>	.top	 .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:38:54
<input type="checkbox"/>	.top	 .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:37:32
<input type="checkbox"/>	.com	 .com	Push Domain	CSS	Global	Enabled	2021-08-31 16:52:03

Total entries: 9. Selected: 0.

2. Select **Template Configuration > Adaptive bitrate configuration** , and click **Edit** in the upper-right corner of the **Adaptive bitrate configuration** tab .

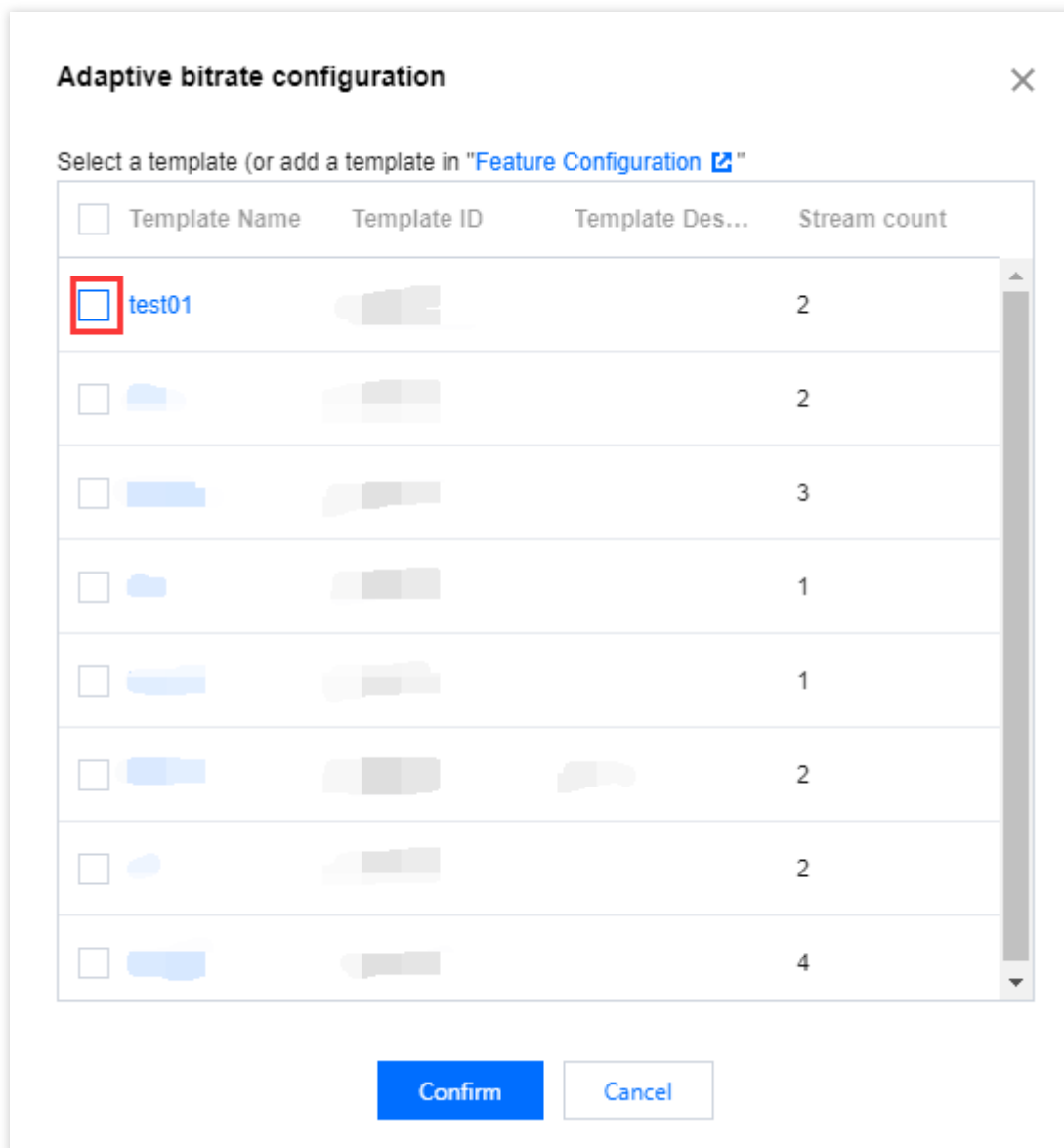
Adaptive bitrate configuration

Template Name	Template ID	Template Description	Stream count
test01			2

Total items: 1

10 / page

3. Based on your actual business needs, deselect the corresponding templates.



4. Click **Confirm**.

Note

To delete a template, you need to unbind it first and then go to **Feature Configuration** > [Live Transcoding](#) to delete it. For details, see [Deleting a Template](#).

HTTPS Configuration

Last updated : 2024-07-02 15:44:17

Overview

The HTTPS protocol is a network protocol built based on the SSL and HTTP protocols for encrypted transfer and authentication, which is more secure than the HTTP protocol. If you want to enable HTTPS acceleration, you can do so by enabling the HTTPS feature for the playback domain name and configuring a correct and valid certificate. You can purchase a certificate from Tencent Cloud [SSL Certificate Service](#). If you already have one, you can upload it to the CSS console for configuration. Currently, CSS only supports the PEM format. If your certificate is in another format, you need to convert it to PEM format first. The format requirements and configuration method for the certificate are as follows:

Prerequisites

You have logged in to the [CSS console](#).

You have [added a playback domain name](#).

Directions

Step 1. Edit the HTTPS configuration

1. Enter [Domain Management](#) and click the **playback domain name** to be configured or **Manage** on the right to enter the domain name details page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to add an ICP filed domain.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Add Time
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-
<input type="checkbox"/>	example.com	example.com	Push Domain	CSS	Global	Enabled	2023-
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-
<input type="checkbox"/>	example.com	example.com	Push Domain	CSS	Global	Enabled	2021-

Total entries: 9. Selected: 0.

2. Select **Advanced Configuration > HTTPS Configuration**, then click



to enable the HTTPS service.

Domain Management / example.com ☐ Origin server mode ⓘ

[Basic Info](#) [Playback Configuration](#) [Template Configuration](#) [Access control](#) **[Advanced Configuration](#)**

HTTPS Configuration ⓘ

HTTPS service ☒

Certificate expiration time **None**

3. After enabling the HTTPS service, enter the HTTPS Configuration page and proceed with the following settings:

HTTPS Configuration

Certificate Source ☒ New ☐ Existing

Certificate Name

CSS uses Nginx for encryption. For details about contents to enter, see [HTTPS Configuration](#).

Certificate content

Private key content

Save

Cancel

HTTPS Configuration

Certificate Source ☐ New ☒ Existing

SSL Certificate List

ID	Domain Name	Expiration Ti...
No data		

No certificate is added. Please go to [Certificate Management](#) to add one.

Save

Cancel

4. Select the source of the certificate to be configured, enter relevant information, and click **Save**.

Certificate Source	Required Configuration Items
Self-owned certificate	Certificate Name: enter a custom name used to identify the certificate. Certificate Content: enter the content of the .crt file for Nginx. For more information, please see Certificate content . Private Key Content: enter the content of the .key file for Nginx. For more information, please see Certificate key .
Tencent Cloud-hosted certificate	Certificate List: select an uploaded certificate in SSL Certificate Service .

Note:

The HTTPS feature will take effect approximately 2 hours after configuration is completed, please be patient.

Certificate Description

A certificate provided by the [CA](#) includes Apache, IIS, Nginx, and Tomcat files. **The encryption service of CSS uses Nginx, so you should select the content of the Nginx files for the configuration.**

Go to **SSL Certificate Service console** > [Certificate Management](#), select the target certificate, click **Download** in the "Operation" column, and decompress the downloaded package to get the following files:

**Certificate content:**

enter the entire content between -----BEGIN CERTIFICATE----- and -----END CERTIFICATE----- in the `.crt` file for Nginx.

Sample content:

```

-----BEGIN CERTIFICATE-----
MIIFvDCCBKSGAwIBAgIQBT06zUPDP8ibV9JskbZwazANBgkqhkiG9w0BAQsFADBy
MQswCQYDVQQGEwJDTjE1MCMGA1UEChMcVHJ1c3RBc2lhIFRlY2hub2xvZ2llcywg
SW5
dXN
MFo
9w0
9NL
COm
js1
dr9
75w
Apo
Cil
LmN
MBQ
MCg
DAE
dXN
Ly9
UIN
XJQ
IGQ
0GY
s17
MB8
KoZ
oru
ivf
BH6
UkP/Y5/sTG9A28P6MDp0j31h/RhQFdWsMDA8yxPAvDiyQ8PJ3UoqRdx/1PxFA+My
+OvIvbbMI4aPJvoA80654H1RmTsw0eL9ghPXIOyneKc=
-----END CERTIFICATE-----

```

Note:

If your certificate is issued by an intermediate CA and contains multiple certificates, the certificate content should be spliced as follows:

```
-----BEGIN CERTIFICATE-----
```

```
-----END CERTIFICATE-----
```

```
-----BEGIN CERTIFICATE-----
```

```
-----END CERTIFICATE-----
```

Certificate**private key:**

enter the entire content between `-----BEGIN RSA PRIVATE KEY-----` and `-----END RSA PRIVATE KEY-----` in the `.key` file for Nginx.

Sample content:

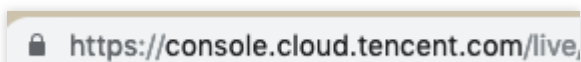
```

-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEAtxs0va+JIpR8xb9kPbIvKokTXZr+uYAd/vfq9NL7zGzUcft8
JC6XIccerKiXTbya9y73+HPX1/OJas08in+tJq1Jyz/Ppfufu9N9C0m8S55IrTOG
0aXL                                                                MVDZ
9Qg6                                                                TyAu
eJ4b                                                                wBPM
d++0                                                                +qIU
A0Pt                                                                Stf9
AlbY                                                                MsMR
7wTz                                                                HVuH
i5Z/                                                                CK9Y
1Xzd                                                                1UtF
g7ae                                                                pUaS
012E                                                                +EBs
/Xk7                                                                wEej
+gLM                                                                U0/A
xosr                                                                gIq/
j/5k                                                                qv83
o7mX                                                                90RL
fYR9                                                                ZQVR
ysC6                                                                32ly
wtxd                                                                v6t7
60Sj                                                                pQX6
9oQv                                                                w7rp
j5koZhOKWknGF6eIo+mXn5ZaUFRi0uta5dFy8CR+l6ZOj0BarJehNajssuYdRlY4
AOL9S6lsj+LbFlmvULI7crVLJX070yDtQpQpjDHMY0+JKVhjPgb8dw==
-----END RSA PRIVATE KEY-----

```

Step 2. Verify the configuration

The HTTPS configuration will take effect in about 2 hours. Please visit the domain name about 2 hours after the certificate is submitted. If HTTPS is displayed in the address bar of the browser, the configuration is successful.



Step 3. Modify the configuration

The HTTPS feature can be enabled and disabled. Once it is disabled, CSS will no longer provide HTTPS service for the domain name. If the certificate has expired, it should be replaced with a new valid one.

FAQs

[What format of the certificate should be filled in for the live HTTPS configuration?](#)

[How to identify whether a certificate is in PEM format or DER format?](#)

Region Configuration

Last updated : 2024-07-10 16:39:06

To use content delivery, acceleration, and playback services in a different region, you can change the acceleration region for your playback domain in the CSS console.

Prerequisites

You have logged in to the [CSS console](#).

You have added a **playback domain name**.

Note:

In the process of adding a new domain and selecting a playback domain, please choose the acceleration region required for live broadcast distribution, such as "Chinese mainland". Subsequently, fill in the domain name and tag information optionally. Click on **Add Domain and proceed to the next step**.

Add Domain

1 Basic settings > 2 CNAME Configuration

You can add 90 more push or playback domain names.

Type *

Playback Domain

Acceleration region *

Chinese mainland

⚠ You are enabling acceleration for a domain in the Chinese mainland. The domain will be unable to handle requests from other regions. For the details, see [documentation](#) [↗](#)

Domain Name *

Enter a domain name, such as www.test.com

Tag (optional) ⓘ

Tag Key ▼

Tag Value

+ Add ⌵ Paste

Add domain

Notes

CSS pricing differs inside and outside the Chinese mainland. For details, see [Pricing Overview](#).

A playback domain cannot be used outside its acceleration region.

If the accelerated region includes the Chinese mainland, you need to apply for ICP filing for your playback domain. Changing the acceleration region will reset the bandwidth cap. You need to configure it again.

Directions

1. Go to [Domain Management](#). Click the name of your **playback domain** or **Manage** on the right.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the C Identity Verification Guide.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME①	Type ▾	Scenario	Region ▾	Status ▾
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Global	Enabled
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Push Domain	CSS	Global	Enabled
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled
<input checked="" type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Chinese mainland	Enabled
<input type="checkbox"/>	example.com	example.com	Push Domain	CSS	Global	Enabled

Total entries: 10. Selected: 0.

2. Select the **Advanced Configuration** tab and find **Region configuration**.
3. Click **Edit**. In the pop-up window, you can change the acceleration region to **Chinese mainland**, **Global**, or **Outside Chinese mainland**.

Domain Management / ...top Origin server mode

Basic Info Playback Configuration Template Configuration Access control **Advanced Configuration**

HTTPS Configuration

HTTPS service ☒

Certificate expiration time None

Playback latency configuration

RTMP and FLV latency ☐ High ☐ Medium ☒ Low

If the GOP for publishing is 2s, the latency is estimated to be 4-5 seconds

HTTP response headers

HTTP response headers affect the response of the client (browser). You can configure up to 10 headers. [How to configure HTTP response headers?](#)

[Edit](#) ✔ Your configuration has taken effect

Se...	Field	Value
No data yet		

Region configuration

Acceleration region Chinese mainland

Bandwidth cap configuration

Because data is collected every five minutes, after you configure a bandwidth rejection. The resources used during this period will be billed as usual.

Bandwidth Cap [Close](#)

4. Click **Save**.

Region configuration

✕

Acceleration region Outside Chinese mainland

⚠ You are applying for activating live acceleration service in Hong Kong/Macao/Taiwan (China Region) and other regions. Please note that the request for Chinese mainland will not be resolved. For specific prices, please see [reference documentation](#)

Save
Cancel

Acceleration Region	ICP Filing Required	Description
Chinese mainland	Yes	Cannot handle requests outside the Chinese mainland.
Global	Yes	Acceleration is supported globally, but prices differ inside and outside the Chinese mainland.
Outside Chinese mainland	No	Cannot handle requests inside the Chinese mainland. Prices differ inside and outside the Chinese mainland.

Origin Server Configuration

Last updated : 2024-07-10 17:25:39

If you have a self-built origin server and live streaming source, CSS can pull streams from your origin server and distribute the content for you. This document describes how to configure origin server information for a playback domain in the CSS console.

Limits

Origin server configuration takes effect about one hour after configuration is complete.

After configuring an origin server for a playback domain, you can no longer bind a push domain to the playback domain by specifying a `StreamName`. Nor can you configure watermarking, transcoding, recording, screenshot, or porn detection tasks for the playback domain.

Prerequisites

You have logged in to the [CSS console](#).

You have built a live streaming origin server.

You have added a **playback domain name**.

Origin-Pull Configuration

You can edit a domain's origin server information, including the basic information, protocol, and host in the console.

1. In the CSS console, select [Domain Management](#) on the left sidebar. Click the name of your **Playback Configuration** or click **Manage** on the right.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you verify your identity. For details, see [Identity Verification Guide](#).

Add DomainEdit TagCertificate Management

Enter part of domain

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time	Operation
<input type="checkbox"/>			Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-03 18:13:40	Manage Disa
<input type="checkbox"/>			Playback Domain	CSS	Chinese mainland	Enabled	2023-12-05 11:13:42	Manage Disa
<input type="checkbox"/>			Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 16:19:06	Manage Disa
<input type="checkbox"/>			Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 14:12:59	Manage Disa
<input type="checkbox"/>			Push Domain	CSS	Global	Enabled	2023-09-19 19:10:42	Manage Disa
<input type="checkbox"/>			Playback Domain	CSS	Chinese mainland	Enabled	2023-08-31 18:21:23	Manage Disa
<input type="checkbox"/>			Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:38:54	Manage Disa
<input type="checkbox"/>			Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:37:32	Manage Disa
<input type="checkbox"/>			Push Domain	CSS	Global	Enabled	2021-08-31 16:52:03	Manage Disa

Total entries: 9. Selected: 0.

10 / page

2. Beside **Domain Management/Domain**, click



to enable or disable **Origin server mode**.

Domain Management / .top

Origin server mode

Basic Info

Playback Configuration

Template Configuration

Access control

Advanced Configura

3. If the origin server mode is already enabled, you can modify its settings on this page.

Basic Configuration Description

Origin server information

Origin Server Information	Description
Origin Server Type	Supports two types: Live Streaming Origin Server and StreamPackage.
Forwarding protocol	Supports RTMP, HTTP-FLV, and HLS protocols.
HTTPS	If the FLV or HLS protocol is used, you can enable HTTPS. If you enable HTTPS, port 443 will be used. Post-redirection HTTPS is also supported. There are no port restrictions.
Primary origin server	The address of the primary origin server, which can be an IP address or domain. You can also configure a backup origin server. The addresses will be polled.

Backup origin server	The address of the backup origin server (optional).
Origin server host header	By default, the origin server address is used as the Host header if it is not configured.

Origin server settings

Origin Server Type

☒ Live streaming origin server ☐ StreamPackage

Origin server information

Forwarding protocol *

HLS

HTTPS

☐

Primary origin server *

Origin ser ▼

xx001.elementtest.org

80

Backup origin server

Origin ser ▼

Same as pr

Origin server host header ⓘ

Host header

If the FLV or HLS protocol is used, you can configure an HTTP host header that specifies the exact domain that CSS accesses when pulling from the origin server. If not configured, the origin address is used as the Host header by default.

Notes

The difference between an origin server address and a host header is as follows:

An origin server address is the IP address an origin-pull request is sent to.

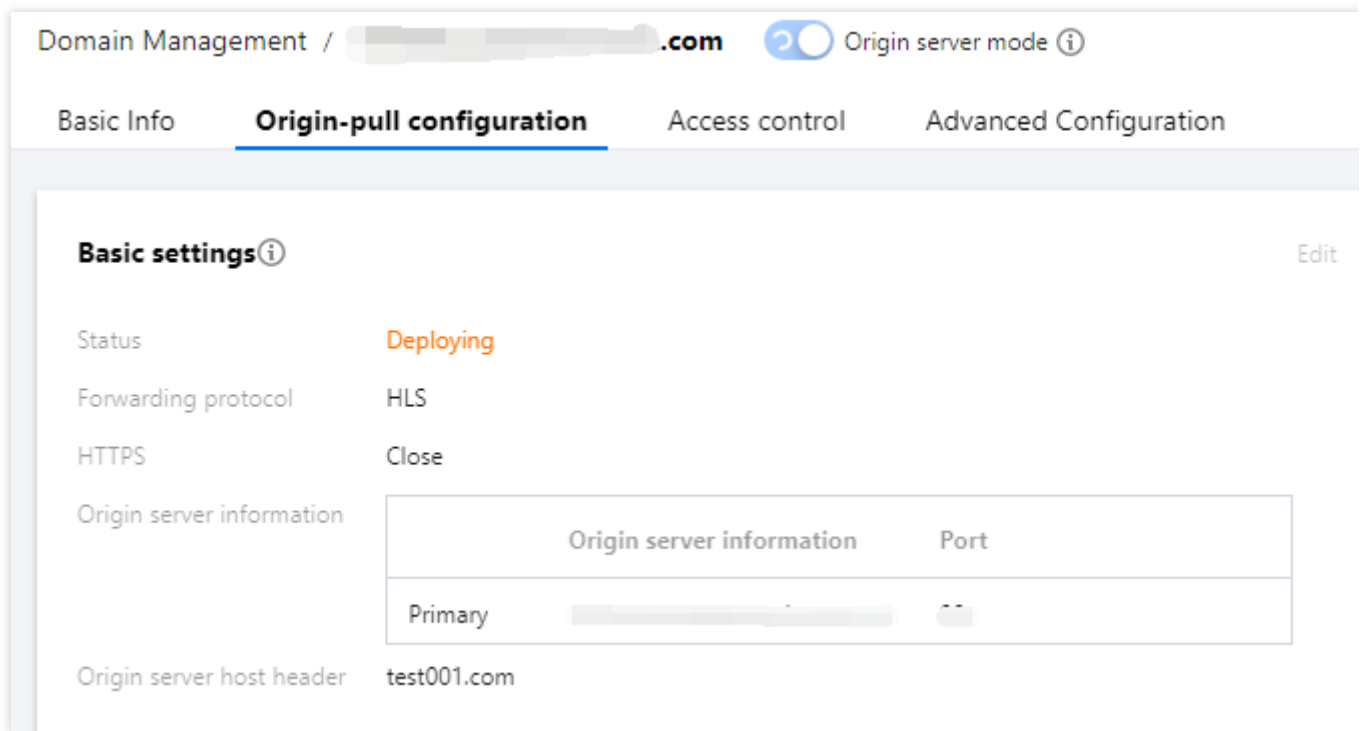
A host header specifies the domain of the origin server address a request is sent to.

Configuration example

1. An origin server is configured for the playback domain `xx001.elementtest.org` as follows:

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2. The process of pulling from the origin server would be as follows:

When the user accesses the resource by opening `http://xx001.elementtest.org/index.m3u8`, because the resource is not yet cached in Tencent Cloud, CSS will resolve the domain `test001.com` to get the server address of the origin server. Suppose it is `1.1.1.1`. CSS will access the `1.1.1.1` server, find the `index.m3u8` file in the web server `test002.com`, and then return the resource to the user.

Remuxing

If the RTMP or HTTP-FLV protocol is used, you can enable HLS remuxing. Below are the formats of an RTMP, HTTP-FLV, and HLS address.

RTMP: `rtmp://Playback domain/AppName/StreamName`

FLV: `http://Playback domain/AppName/StreamName.flv`

M3U8: `http://Playback domain/AppName/StreamName.m3u8`

Notes

Number of HLS segments: Three by default. Value range: 3-10.

HLS segment size: Three seconds by default. Value range: 3-10. The actual segments generated will not be smaller than the GOP size.

Origin server settings

Origin Server Type
☒ Live streaming origin server
☐ StreamPackage

Origin server information

Forwarding protocol *
RTMP

Primary origin server *
Origin ser
Enter port

Backup origin server
Origin ser
Same as pri

Remuxing
Others

HLS remuxing
☒

Segments in M3U8 file
3

HLS segment size
3000
ms

HTTP configuration

If the HLS protocol is used, you can configure the **HTTP settings**.

Item	Description
Redirection	<p>If you enable this, Tencent Cloud will not cache the 301 or 302 status code. When 301 or 302 is returned by the origin server, Tencent Cloud will automatically redirect until it obtains the requested resource (max 10 redirects) and return the resource to the user. No redirects are needed on the user end.</p> <p>If you disable redirection, Tencent Cloud will return the 301 or 302 status code to the user end, which will redirect to get the resource.</p>
Pass-through of origin server URL parameters	By default, URL parameters are not passed through. If you enable this, parameters may be added to the URL without performing URL encoding or decoding.
HTTP request header pass-through	By default, HTTP request headers are not passed through. You can enable this to pass through the headers. Duplicate headers (case-insensitive) are not supported currently.

HTTP response header pass-through	By default, HTTP response headers are not passed through. You can enable this to pass through the headers. Duplicate headers (case-sensitive) are supported currently.
OPTIONS request	By default, GET request is supported, and Option request is supported after enabling it.

HTTP settings

Cache time

URL rewriting

Others

Redirection ⓘ

Pass-through of origin server URL parameters ⓘ

HTTP request header pass-through ⓘ

HTTP response header pass-through ⓘ

OPTIONS request ⓘ

Cache configuration

If the HLS protocol is used, you can configure the resource cache time. After Tencent Cloud obtains the requested resource successfully from the origin server (status code 200), it will cache the index file and segments as configured.

Item	Description
Index file cache time	The time to cache the index file when the origin server returns the 200 status code. The default cache time is 1,000 ms. The maximum time that can be set is 60,000 ms.
Segment cache time	The time to cache the TS/M4S/MP4 segments when the origin server returns the 200 status code. The default cache time is 1,000 ms. The maximum time that can be set is 60,000 ms.
Cache time by status code	According to the status code corresponding to the configured cache, if the same request is received within the cache time, there is no need to visit the origin server, and the status code can be returned directly. The default cache time is 1s. When the origin server returns a non-200 status code, if it is unable to handle it immediately, and you don't want to pass through all subsequent requests to the origin server, you can cache the status code and return it directly to the user. This can reduce the load on the origin server.

	<p>Currently, the following status codes can be cached, regardless of the file type:</p> <p>4XX: 400, 403, 404, 405</p> <p>5XX: 500, 503, 504</p>
Cache key rule configuration	<p>For the cache key rule configuration, retain the parameters that have an impact on the resource content as the cache key, convert a category of requests for the same resource into a unified cache key and hit the same cache to improve the hit rate.</p> <p>File Type</p> <p>Choose file types. There are options of index or shard, Index is selected by default.</p> <p>Retain specified parameters</p> <p>Only English, characters and numbers can be entered. Multiple parameters are separated by ";".</p> <p>Up to 30 groups of parameters are supported. Each parameter name should not exceed 20 characters.</p> <p>If a parameter is specified, even if the parameter does not have a value, it will be cached separately from the parameters with the same name that have value.</p> <p>Note:</p> <p>You must enable the origin-pull URL parameter passthrough in HTTP settings before configuring the cache key rules.</p>

HTTP settings

Cache time

URL rewriting

Others

Index file cache time ⓘ

1000ms

Segment cache time ⓘ

10000ms

Cache time by status code ⓘ

Status code	Cache time
400	1sec
403	1sec
404	1sec
405	1sec
500	1sec
503	1sec
504	1sec

Cache Key Rule Configuration ⓘ

File Type	Keep specifie...	Operation
Index	key1;key2	Modify Delete

Add

URL rewriting

If the HLS protocol is used, you can configure URL rewriting.

Tencent Cloud allows you to rewrite the actual URL CSS pulls from to a URL that better matches your origin server. Currently, you can only rewrite the URL path.

Notes

Original URL: Requests are matched by prefix. For example, if you enter `/test01`, the rewriting rule will be applied to all requests under `/test01`. Regular expressions are not supported currently.

Target URL: Requests are matched by prefix. For example, if you enter `/test01/test02`, all requests under `/test` will be rewritten to `/test01/test02`. Regular expressions are not supported currently.

HTTP settings

Cache time

URL rewriting

Others

You can configure multiple rewriting rules and assign priorities for them

	Original URL	Target URL	Operation
⋮	<input type="text" value="/test01"/>	<input type="text" value="/test01/test02"/>	Delete

Add

Limits

You can configure at most 10 rewriting rules for each playback domain.

Spaces and the following special characters are not supported: `< > " # { } | \ ^ ~ [] ``

You can re-arrange the rules to adjust their priorities. Rules at the top have higher priorities.

Others

Item	Description
Connection timeout	<p>The timeout period for establishing a TCP connection. The default time is 10,000 ms, and the value range is 2000-60000 (ms).</p> <p>Please set the timeout period according to your origin server conditions and network conditions. If the timeout period is too short, when a pull request fails due to network issues, CSS may switch origin servers too frequently. If the timeout period is too long, CSS may wait a long time before it tries a different origin server, causing playback failure at the client end.</p>
Max retries	<p>The maximum number of retry attempts. If multiple origin server addresses have been configured, when a request fails, CSS will try a different address.</p> <p>Value range: 1-10.</p>

HTTP settings	Cache time	URL rewriting	Others
Connection timeout ⓘ	10000	ms	
Max retries ⓘ	1	times	

Bandwidth Cap Configuration

Last updated : 2024-05-28 10:25:05

CSS allows you to set a bandwidth cap for your playback domain. In the acceleration region of your domain, if the peak downstream bandwidth in a reference period hits the cap you set, a 403 error will be returned to playback requests. This feature is disabled by default.

Note:

If the bandwidth cap configuration is enabled, the scanning granularity is 5 minutes. If there is a sudden increase in usage within a short period of time, the previous scan may not have triggered the threshold, and the next scan may directly exceed the threshold. In this scenario, there will be a certain delay (approximately 5 minutes) in the access interception operation, and the consumption during this period will be billed normally.

Prerequisites

You have logged in to the [CSS console](#).

You have added a [playback domain name](#).

Limits

Acceleration Region	Default Bandwidth Capping Region	Remarks
Chinese mainland	Chinese mainland	You can only set a cap for the Chinese mainland.
Outside the Chinese mainland	Outside the Chinese mainland	You can only set a cap for outside the Chinese mainland.
Global acceleration	Global acceleration	You can set different caps for inside and outside the Chinese mainland. You can also set a global cap.

Configuring Bandwidth Cap

1. Go to [Domain Management](#). Click the name of your playback domain or **Manage** on the right.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to verify your Guide.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>	example.org	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-03-19 17:11:08
<input type="checkbox"/>	example.org	example.com	Playback Domain	CSS	Global	Enabled	2024-02-29 15:20:34
<input type="checkbox"/>	example.xyz	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-02-01 11:45:23
<input type="checkbox"/>	example.xyz	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-16 20:48:54
<input type="checkbox"/>	example.xyz	example.com	Push Domain	CSS	Global	Enabled	2024-01-16 20:48:09
<input type="checkbox"/>	example.top	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-03 18:19:30
<input type="checkbox"/>	example.top	example.com	Playback Domain	CSS	Global	Enabled	2023-12-19 15:19:25
<input type="checkbox"/>	example.xyz	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2023-11-24 22:02:37
<input type="checkbox"/>	example.xyz	example.com	Push Domain	CSS	Global	Enabled	2023-11-24 22:01:38
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2023-08-15 20:08:12

Total entries: 48. Selected: 0. 10

2. Select **Advanced Configuration > Bandwidth cap configuration** to view the **Bandwidth cap configuration** tab.

Domain Management / example.org ☐ Origin server mode

[Basic Info](#) [Playback Configuration](#) [Template Configuration](#) [Access control](#) **[Advanced Configuration](#)**

HTTPS Configuration

HTTPS service ☐

Certificate expiration time None

Playback latency configuration

RTMP and FLV latency ☐ High ☐ Medium ☒ Low

If the GOP for publishing is 2s, the latency is estimated to be 4-5 seconds

HTTP response headers

HTTP response headers affect the response of the client (browser). You can configure up to 10 headers. [How to configure HTTP response headers?](#)

[Edit](#) ✓ Your configuration has taken effect

Se...	Field	Value
No data yet		

Region configuration

Acceleration region Global

Bandwidth cap configuration

Because data is collected every five minutes, after you configure a bandwidth cap, if usage increases sharply, the rejection. The resources used during this period will be billed as usual.

Bandwidth Cap Close

3. Click **Edit** in the upper-right corner of the tab to enter the bandwidth cap configuration page.

Bandwidth cap configuration ⓘ

Because data is collected every five minutes, after you configure a bandwidth cap, if usage increases sharply, there may be a five-minute delay rejection. The resources used during this period will be billed as usual.

Bandwidth Cap Close

4. Click



to enable **Bandwidth Cap**.

Note:

After the bandwidth threshold for global acceleration is configured, it will take effect preferentially.

Bandwidth cap configuration ✕

Because data is collected every five minutes, after you configure a bandwidth cap, if usage increases sharply, there may be a five-minute delay in request rejection. The resources used during this period will be billed as usual.

Reference period Every 5 minutes

Bandwidth Cap



After the bandwidth threshold for global acceleration is set, it will take effect preferentially.

Save

Cancel

4.1 After the bandwidth cap is enabled, proceed with the following configuration:

Bandwidth Threshold

Valid Region is determined based on the acceleration region type of the playback domain name. For related configuration rules, refer to [Limits](#).

Fill in the bandwidth threshold based on your actual business needs. Choose the threshold unit as Mbps, Gbps, or Tbps.

Bandwidth Cap ☒

After the bandwidth threshold for global acceleration is set, it will take effect preferentially.

Bandwidth Threshold

Valid Region	Bandwidth Threshold
Chinese mainland	<input type="text" value="200"/> Tbps ▼
Global Acceleration...	<input type="text" value="20000"/> Gbps ▼
Outside Chines...	<input type="text" value="500000"/> Mbps ▼

5. Click



to enable **Alert threshold**.

Alert threshold ☒

When the access bandwidth reaches the alert threshold, we will alert you via SMS as well as in the Message Center.

5.1 After the alert threshold is enabled, set the **alert threshold percentage** based on your actual business needs. When the access bandwidth/bandwidth threshold reaches the alert threshold, the system will alert you through the Message Center and other methods.

Alert threshold ☒ %

When the access bandwidth reaches the alert threshold, we will alert you via SMS as well as in the Message Center.

6. Click **Save**.

Bandwidth cap configuration ✕

Because data is collected every five minutes, after you configure a bandwidth cap, if usage increases sharply, there may be a five-minute delay in request rejection. The resources used during this period will be billed as usual.

Reference period Every 5 minutes

Bandwidth Cap ☒

After the bandwidth threshold for global acceleration is set, it will take effect preferentially.

Bandwidth Threshold

Valid Region	Bandwidth Threshold
Chinese mainland	<input type="text" value="200"/> Tbps ▾
Global Acceleration	<input type="text" value="20000"/> Gbps ▾
Outside China	<input type="text" value="500000"/> Mbps ▾

Alert threshold ☒ − + %

When the access bandwidth reaches the alert threshold, we will alert you via SMS as well as in the Message Center.

Save

Cancel

Note:

The conversion factor between the bandwidth units is 1,000: 1 Tbps = 1,000 Gbps; 1 Gbps = 1,000 Mbps.

If you change the acceleration region for your domain, you need to configure the bandwidth cap again.

The default alert threshold is 80% of the bandwidth cap. Value range: 0-100.

Disabling Bandwidth Cap

1. Go to [Domain Management](#). Click the name of your playback domain or **Manage** on the right.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to verify your Guide.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>	example.org	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-03-19 17:11:08
<input type="checkbox"/>	example.org	example.com	Playback Domain	CSS	Global	Enabled	2024-02-29 15:20:34
<input type="checkbox"/>	example.xyz	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-02-01 11:45:23
<input type="checkbox"/>	example.xyz	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-16 20:48:54
<input type="checkbox"/>	example.xyz	example.com	Push Domain	CSS	Global	Enabled	2024-01-16 20:48:09
<input type="checkbox"/>	example.top	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-03 18:19:30
<input type="checkbox"/>	example.top	example.com	Playback Domain	CSS	Global	Enabled	2023-12-19 15:19:25
<input type="checkbox"/>	example.xyz	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2023-11-24 22:02:37
<input type="checkbox"/>	example.xyz	example.com	Push Domain	CSS	Global	Enabled	2023-11-24 22:01:38
<input type="checkbox"/>	example.com	example.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2023-08-15 20:08:12

Total entries: 48. Selected: 0.

2. Select the **Advanced Configuration** tab to view the **Bandwidth cap configuration** tab.

Domain Management / example.org ☐ Origin server mode

[Basic Info](#) [Playback Configuration](#) [Template Configuration](#) [Access control](#) **[Advanced Configuration](#)**

HTTPS Configuration

HTTPS service ☐

Certificate expiration time: None

Playback latency configuration

RTMP and FLV latency: ☐ High ☐ Medium ☒ Low

If the GOP for publishing is 2s, the latency is estimated to be 4-5 seconds

HTTP response headers

HTTP response headers affect the response of the client (browser). You can configure up to 10 headers. [How to configure HTTP response headers?](#)

[Edit](#) ✓ Your configuration has taken effect

Se...	Field	Value
No data yet		

Region configuration

Acceleration region: Global

Bandwidth cap configuration

Because data is collected every five minutes, after you configure a bandwidth cap, if usage increases sharply, the rejection. The resources used during this period will be billed as usual.

Bandwidth Cap	Enable
Bandwidth Threshold (Chinese Mainland)	200 Tbps
Bandwidth Threshold (Global Acceleration) (Preferential)	20 Tbps
Bandwidth Threshold (Regions Outside Chinese Mainland)	500 Gbps
Alert threshold	Access bandwidth reaches 80% of the bandwidth cap

3. Click **Edit** in the upper-right corner of the tab to enter the bandwidth cap configuration page.

Bandwidth cap configuration ⓘ

Because data is collected every five minutes, after you configure a bandwidth cap, if usage increases sharply, there may be a five-minute delay rejection. The resources used during this period will be billed as usual.

Bandwidth Cap	Enable
Bandwidth Threshold (Chinese Mainland)	200 Tbps
Bandwidth Threshold (Global Acceleration) (Preferential)	20 Tbps
Bandwidth Threshold (Regions Outside Chinese Mainland)	500 Gbps
Alert threshold	Access bandwidth reaches 80% of the bandwidth cap

4. Click



to disable **Bandwidth Cap** .

Bandwidth cap configuration

Because data is collected every five minutes, after you configure a bandwidth cap, if usage increases sharply, there may be a five-minute delay in request rejection. The resources used during this period will be billed as usual.

Reference period

Every 5 minutes

Bandwidth Cap

☒

After the bandwidth threshold for global acceleration is set, it will take effect preferentially.

Bandwidth Threshold

Valid Region	Bandwidth Threshold
Chinese mainland	<div>200</div> <div>Tbps</div>
Global Accelera...	<div>20</div> <div>Tbps</div>
Outside Chines...	<div>500</div> <div>Gbps</div>

Alert threshold

☒

—

80

+

%

When the access bandwidth reaches the alert threshold, we will alert you via SMS as well as in the Message Center.

Save

Cancel

5. Click **Save**.

Bandwidth cap configuration

Because data is collected every five minutes, after you configure a bandwidth cap, if usage increases sharply, there may be a five-minute delay in request rejection. The resources used during this period will be billed as usual.

Reference period Every 5 minutes

Bandwidth Cap



After the bandwidth threshold for global acceleration is set, it will take effect preferentially.

Save

Cancel

IP Blocklist/Allowlist Configuration

Last updated : 2024-06-05 15:41:31

This document shows you how to configure an IP allowlist/blocklist to filter requests and control access to streaming content.

How It Works

IP allowlist: Only IP addresses on the list can access your streaming content.

IP blocklist: IP addresses on the list cannot access your streaming content.

Must-Knows

An IP allowlist/blocklist takes effect about ten minutes after configuration.

Prerequisites

You have activated CSS and logged in to the [CSS console](#).

When both IP Blocklist/Allowlist and [Playback Region Management](#) (Regional Block/Allowlist) are enabled at the same time, the system's judgment logic is as follows:

1.1 First, check the IP Blocklist/Allowlist:

If the IP is in the allowlist, it is directly allowed.

If the IP is in the blocklist, access is directly denied.

If the IP is not in the blocklist/allowlist, go to the next step.

1.2 Then, check the Regional Block/Allowlist (only when the IP is not in the IP Block/Allowlist):

If the region is in the allowlist, then allow access; otherwise, deny access.

If the region is in the blocklist, then deny access; otherwise, allow access.






Configuring an IP Allowlist/Blocklist

1. Select [Domain Management](#) on the left sidebar, and click the target **playback domain** or click **Manage** on the right to enter the domain management page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need [Identity Verification Guide](#).

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>		 .com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-03-19 17:11:08
<input type="checkbox"/>		 .com	Playback Domain	CSS	Global	Enabled	2024-02-29 15:20:34
<input type="checkbox"/>		 .com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-02-01 11:45:23
<input type="checkbox"/>		 .com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-16 20:48:54
<input type="checkbox"/>		 .com	Push Domain	CSS	Global	Enabled	2024-01-16 20:48:09

2. Within the **Access Control**> **IP allowlist/blocklist**, click on



to enable the IP Allowlist/Blocklist.

Domain Management / .top ☐ Origin server mode

[Basic Info](#) [Playback Configuration](#) [Template Configuration](#) **[Access control](#)** [Advanced Configuration](#)

Key Authentication

The authentication key is used to generate the txSecret parameter in the live streaming URL for authentication, which prevents unauthorized playback caused by domain name disclosure. [How to generate a live streaming URL](#)

Playback Authentication ☐

Primary Key

Backup Key

Validity Time (s)

Referer

The Referer HTTP header field is used to identify and filter a request. [How to use Referer for authentication?](#)

Referer ☐

IP allowlist/blocklist

You can use IP allowlist/blocklist to filter requests by IP. [How to use IP allowlist/blocklist?](#)

Status ☐

Authenticate By -

IP List -

3. After enabling the **IP Allowlist/Blocklist**, enter the **IP Allowlist/Blocklist** configuration page and perform the following configuration:

Blocklist

Allowlist

IP Allowlist/Blocklist Configuration

- Enter one IP or IP range (/8/16/24 for example) per line and separate IPs/IP ranges with line breaks. The format of IP:port is not supported.

Authenticate By



Blocklist



Allowlist

The 403 error will be returned for requests from client IPs not in allowlist.

IP List

Enter IPs or IP ranges

You can enter 200 more IP/IP range.

Save

Cancel

IP Allowlist/Blocklist Configuration

- Enter one IP or IP range (/8/16/24 for example) per line and separate IPs/IP ranges with line breaks. The format of IP:port is not supported.

Authenticate By



Blocklist



Allowlist

The 403 error will be returned for requests from client IPs not allowlist.

IP List

Enter IPs or IP ranges

You can enter 500 more IP/IP range.

Save

Cancel


Configuration Item	Description
Authenticate By	Allowlist or blocklist: You cannot select both. If you configure an allowlist, only IP addresses on the list will be able to access your streaming content. If you configure a blocklist, IP addresses on the list cannot access your streaming content.
IP List	The IP blocklist supports a maximum configuration of 200 rules, and the IP allowlist supports up to 500 rules. Please separate entries with a newline character.

You can enter IP addresses or IP ranges (/8/16/24). The “IP address: port number” format is not supported.
IPv6 is not supported currently.


4. Click **Save** to save the configuration (it takes a while for the configuration to take effect).

IP allowlist/blocklist

You can use IP allowlist/blocklist to filter requests by IP. [How to use IP allowlist/blocklist?](#)

Status  Deploying

Authenticate By Blocklist

IP List 

Modifying an IP Allowlist/Blocklist

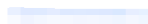


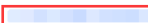








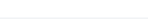

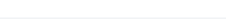
1. Select [Domain Management](#) on the left sidebar, and click the target **playback domain** or click **Manage** on the right to enter the domain management page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.

Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need [Identity Verification Guide](#).

Add DomainEdit TagCertificate Management

<input type="checkbox"/>	Domain Name	CNAME ⓘ	Type ▾	Scenario	Region ▾	Status ▾	Added Time
<input type="checkbox"/>		  .com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-03-19 17:11:08
<input type="checkbox"/>		  .com	Playback Domain	CSS	Global	Enabled	2024-02-29 15:20:34
<input type="checkbox"/>		  .com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-02-01 11:45:23
<input type="checkbox"/>		  .com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-16 20:48:54
<input type="checkbox"/>		  .com	Push Domain	CSS	Global	Enabled	2024-01-16 20:48:09

2. Click **Access Control** and, in the **IP Allowlist/Blocklist** area, click **Edit**.

IP allowlist/blocklist

You can use IP allowlist/blocklist to filter requests by IP. [How to use IP allowlist/blocklist?](#)

Status  Enable

[Edit](#)

Authenticate By **Blocklist**






IP List

3. Modify the configuration and click **Save**.

Disabling IP Allowlist/Blocklist

Follow the steps below to disable IP allowlist/blocklist:

1. Select [Domain Management](#) on the left sidebar, and click the target **playback domain** or click **Manage** on the right to enter the domain management page.

Domain Management						
<p>Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.</p> <p>Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see Domain Management and CNAME Configuration. According to relevant regulations, to accelerate a domain in the Chinese mainland, you need Identity Verification Guide.</p>						
Add Domain Edit Tag Certificate Management						
<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status
<input type="checkbox"/>		 .com	Playback Domain	CSS	Outside Chinese mainland	Enabled
<input type="checkbox"/>		 .com	Playback Domain	CSS	Global	Enabled
<input type="checkbox"/>		 .com	Playback Domain	CSS	Outside Chinese mainland	Enabled
<input type="checkbox"/>		 .com	Playback Domain	CSS	Outside Chinese mainland	Enabled
<input type="checkbox"/>		 .com	Push Domain	CSS	Global	Enabled

2. Select the **Access Control** tab. In the **IP allowlist/blocklist** area, click



to disable IP allowlist/blocklist.

IP allowlist/blocklist

You can use IP allowlist/blocklist to filter requests by IP. [How to use IP allowlist/blocklist?](#)

Status



Enable

[Edit](#)

Authenticate By

Blocklist

IP List



Blocking Playback by Protocol

Last updated : 2024-07-11 17:53:34

You can block playback for a domain by blocking specific protocols. Playback requests that use the blocked protocols will be rejected.

Prerequisites

You have activated CSS and logged in to the [CSS console](#).

You have added a [playback domain name](#).

Blocking Protocols

1. Select [Domain Management](#) on the left sidebar. Click the name of the target playback domain or click **Manage** on the right to enter the domain management page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the China Identity Verification Guide.

Add Domain

Edit Tag

Certificate Management

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Global	Enabled	2024-0
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-0
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-1
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-1
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-1
<input type="checkbox"/>	...top	...com	Push Domain	CSS	Global	Enabled	2023-0
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-0
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-0
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-0
<input type="checkbox"/>	...com	...com	Push Domain	CSS	Global	Enabled	2021-0

Total entries: 10. Selected: 0.

2. Select the **Access Control** tab. In the **Block playback by protocol** area, you can block playback that uses the RTMP, FLV, HLS, DASH, and WebRTC protocols.

3. Click **Edit** and toggle on the protocols you want to block.

Domain Management / .top ☒ Origin server mode ⓘ

Basic Info Playback Configuration Template Configuration **Access control** Advanced Configuration

Key Authentication

The authentication key is used to generate the txSecret parameter in the live streaming URL for authentication, which prevents unauthorized playback caused by domain name disclosure. [How to generate a live streaming URL using the authentication key?](#) ⓘ

Playback Authentication ☒

Primary Key

Backup Key

Validity Time (s) 20

Referer

The Referer HTTP header field is used to identify and filter a request. [How to use Referer for authentication?](#) ⓘ

Referer ☒

IP allowlist/blocklist

You can use IP allowlist/blocklist to filter requests by IP. [How to use IP allowlist/blocklist?](#) ⓘ

Status ☒

Authenticate By -

IP List -

Block playback by protocol

Block playback that uses certain protocols

Block RTMP playback	Close
Block FLV playback	Close
Block HLS playback	Enable
Block DASH playback	Enable
Block WEBrTC playback	Close

4. Click **Save**.

Block playback by protocol ✕

- After you block the protocol, playback requests that use the protocol will be rejected. This applies only to the current playback domain.
- After you unblock the protocol, the protocol can be used to splice playback URLs according to the [URL splicing rules](#) 🔗. This applies only to the current playback domain.

Block RTMP playback

☐

Block FLV playback

☐

Block HLS playback

☒

Block DASH playback

☒

Block WEBRTC playback

☐

LEB (low latency live streaming) is a UDP-based live streaming solution featuring millisecond playback latency. It's priced differently from LVB. For details, see [Billing of LEB](#) 🔗.

Save

Cancel

Note:

It takes a while for the blocking configuration to take effect. After configuring blocked protocols, please wait for the configuration to take effect before you block other protocols.

Except for HLS, protocol blocking only takes effect for new live streams. It does not affect ongoing streams.

Unblocking Protocols

To unblock a blocked protocol, follow the steps below:

1. Select [Domain Management](#) on the left sidebar. Click the name of the target playback domain or click **Manage** on the right to enter the domain management page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the [China Identity Verification Guide](#).

Add Domain

Edit Tag

Certificate Management

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Global	Enabled	2024-0
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-0
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-1
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-1
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-1
<input type="checkbox"/>	.top	.com	Push Domain	CSS	Global	Enabled	2023-0
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-0
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-0
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-0
<input type="checkbox"/>	.com	.com	Push Domain	CSS	Global	Enabled	2021-0

Total entries: 10. Selected: 0.

2. Select the **Access Control** tab. In the **Block playback by protocol** area, toggle off the protocol you want to unblock.

Domain Management / example.com Origin server mode

Basic Info Playback Configuration Template Configuration **Access control** Advanced Configuration

Key Authentication

The authentication key is used to generate the txSecret parameter in the live streaming URL for authentication, which prevents unauthorized playback caused by domain name disclosure. [How to generate a live streaming URL using the authentication key?](#)

Playback Authentication ☒

Primary Key XXXXXXXXXX

Backup Key XXXXXXXXXX

Validity Time (s) 20

Referer

The Referer HTTP header field is used to identify and filter a request. [How to use Referer for authentication?](#)

Referer ☒

IP allowlist/blocklist

You can use IP allowlist/blocklist to filter requests by IP. [How to use IP allowlist/blocklist?](#)

Status ☒

Authenticate By -

IP List -

Block playback by protocol

Block playback that uses certain protocols

Block RTMP playback	Close
Block FLV playback	Close
Block HLS playback	Enable
Block DASH playback	Enable
Block WEBRTC playback	Close

3. Click **Save**.

Block playback by protocol

- After you block the protocol, playback requests that use the protocol will be rejected. This applies only to the current playback domain.
- After you unblock the protocol, the protocol can be used to splice playback URLs according to the [URL splicing rules](#). This applies only to the current playback domain.

Block RTMP playback ☐Block FLV playback ☐Block HLS playback ☐Block DASH playback ☐Block WEBRTC playback ☐

LEB (low latency live streaming) is a UDP-based live streaming solution featuring millisecond playback latency. It's priced differently from LVB. For details, see [Billing of LEB](#).

Save

Cancel

Latency Control

Last updated : 2024-05-28 10:22:55

Set a latency that fits your needs. Note that setting the latency too low may cause playback to stutter.

Note

Latency configuration will take effect approximately 10 minutes after configuration.

Prerequisites

You have activated CSS and logged in to the [CSS console](#).

You have added a [playback domain name](#).

Latency control

1. Select [Domain Management](#) on the left sidebar and click the **playback domain** for which you want to configure RTMP and FLV latency, or click **Manage** on the right to enter the details page.








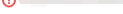


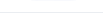
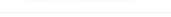

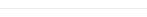

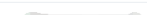


Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) [and](#) [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to verify the domain. [Guide](#).

Add Domain

Edit Tag

Certificate Management

<input type="checkbox"/>	Domain Name	CNAME ①	Type ▼	Scenario	Region ▼	Status ▼	Added Time
<input type="checkbox"/>	 .top	 .com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-03 18:13:40
<input type="checkbox"/>	 .top	 .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-12-05 11:13:42
<input type="checkbox"/>	 .top	 .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 16:19:06
<input type="checkbox"/>	 .top	 .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 14:12:59
<input type="checkbox"/>	 .top	 .com	Push Domain	CSS	Global	Enabled	2023-09-19 19:10:42
<input type="checkbox"/>	 .top	 .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-08-31 18:21:23
<input type="checkbox"/>	 .top	 .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:38:54
<input type="checkbox"/>	 .top	 .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:37:32
<input type="checkbox"/>	 .com	 .com	Push Domain	CSS	Global	Enabled	2021-08-31 16:52:03

Total entries: 9. Selected: 0.

2. In **Advanced Configuration > Playback latency configuration**, you can configure the latency for RTMP and FLV.

3. When live streaming latency parameters are configured, it is recommended to select appropriate latency parameters based on your actual business needs. It is advisable to set the GOP for publishing to 1-2s because the larger the GOP value, the greater the live streaming latency. Note that setting the latency too low may cause playback to stutter.

4. When GOP is set to two seconds, the latency is as follows:

Setting	High	Medium	Low
Estimated Latency	7-9s	5-7s	4-5s

Domain Management / example.com Origin server mode

Basic Info Playback Configuration Template Configuration Access control **Advanced Configuration**

HTTPS Configuration

HTTPS service ☐

Certificate expiration time None

Playback latency configuration

RTMP and FLV latency ☐ High ☐ Medium ☒ Low

If the GOP for publishing is 2s, the latency is estimated to be 4-5 seconds

HTTP Response Header Configuration

Last updated : 2024-05-28 10:21:53

You can use HTTP headers to define fields that carry information about HTTP transactions. Header fields work on the domain level. This means the header fields you configure will take effect for all responses under your domain.

Prerequisites

You have logged in to the [CSS console](#).

You have added a [playback domain name](#).

Use Limits

You can configure at most 10 header fields.

You cannot add two fields with the same name. To specify multiple values for a field, use this format: `value 1, value 2, value 3`.

If a field you configure is the same as a field used by the CSS backend, you will be asked to modify it.

A custom field can be 1-100 characters long and can contain letters, numbers, and hyphens (-).

The value of a field cannot be empty. It can be 1-1,000 characters long and cannot contain Chinese characters.

Configuring HTTP Response Header

1. Go to [Domain Management](#). Click the name of your **playback domain** or click **Manage** on the right.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to verify the domain.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-03 18:13:40
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-12-05 11:13:42
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 16:19:06
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 14:12:59
<input type="checkbox"/>	...top	...com	Push Domain	CSS	Global	Enabled	2023-09-19 19:10:42
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-08-31 18:21:23
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:38:54
<input type="checkbox"/>	...top	...com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:37:32
<input type="checkbox"/>	...com	...com	Push Domain	CSS	Global	Enabled	2021-08-31 16:52:03

Total entries: 9. Selected: 0.

2. Select the **Advanced Configuration** tab.

Domain Management / ...top ☐ Origin server mode

[Basic Info](#) [Playback Configuration](#) [Template Configuration](#) [Access control](#) **[Advanced Configuration](#)**

HTTPS Configuration

HTTPS service ☐

Certificate expiration time: None

Region configuration

Acceleration region: Chinese mainland

Bandwidth cap configuration

Because data is collected every five minutes, after you configure a bandwidth cap, if usage increases sharply, the resources used during this period will be billed as usual.

Bandwidth Cap: Close

Playback latency configuration

RTMP and FLV latency: ☐ High ☐ Medium ☒ Low

If the GOP for publishing is 2s, the latency is estimated to be 4-5 seconds

HTTP response headers

HTTP response headers affect the response of the client (browser). You can configure up to 10 headers. [How to configure HTTP response headers?](#)

[Edit](#) ✓ Your configuration has taken effect

Se...	Field	Value
No data yet		

3. In the **HTTP response headers** area, click **Edit** to add new header fields or modify/delete existing header fields.

New ✕

Type ☒ Preset ☐ Custom

Field

Access-Control-Allow-Methods ▼

Indicates which HTTP methods are allowed for cross-origin requests

Value

1-1,000 characters. Chinese characters are not supported

Save

Cancel

To add a header field, click **New** :

Select **Preset** to add a preset field: `Access-Control-Allow-Methods` , `Access-Control-Max-Age` , or `Access-Control-Expose-Headers` .

New ✕

Type ☒ Preset ☐ Custom

Field

Value

1-1,000 characters. Chinese characters are not supported

Save

Cancel

Field	Description
Access-Control-Allow-Methods	Indicates which HTTP methods are allowed for cross-origin requests. You can specify multiple methods at a time: Access-Control-Allow-Methods: POST, GET, OPTIONS.
Access-Control-Max-Age	Indicates how long (seconds) the results of a preflight request can be cached
Access-Control-Expose-Headers	Indicates which headers can be exposed to clients as part of the response

Select **Custom** to add a custom field.

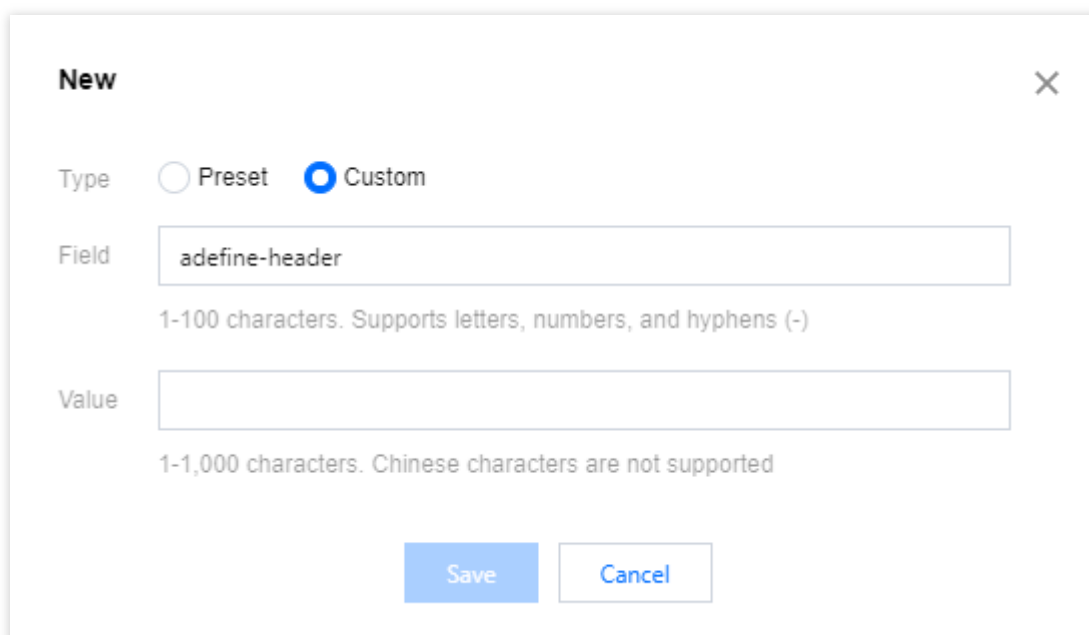
Note:

The name of a custom field can be 1-100 characters long and can contain letters, numbers, and hyphens. The value of a custom field can be 1-1,000 characters long and cannot contain Chinese characters.

The system has default support for the header parameter Access-Control-Allow-Origin, which is used to enable cross-domain requests without the need for customization. There are two specific scenarios:

When the request header does not include Origin, the returned header will be 'Access-Control-Allow-Origin: *'.

When the request header includes 'Origin: \${Origin}', the returned header will be 'Access-Control-Allow-Origin: \${Origin}'. For example, when the request header has Origin: https://cloud.tencent.com, the returned header will be Access-Control-Allow-Origin: https://cloud.tencent.com.



The screenshot shows a 'New' dialog box with a close button (X) in the top right corner. It contains two radio buttons for 'Type': 'Preset' (unselected) and 'Custom' (selected). Below this, there is a 'Field' input field containing the text 'adefine-header', with a note below it stating '1-100 characters. Supports letters, numbers, and hyphens (-)'. There is also a 'Value' input field, which is currently empty, with a note below it stating '1-1,000 characters. Chinese characters are not supported'. At the bottom of the dialog are two buttons: 'Save' (highlighted in blue) and 'Cancel'.

4. When you are finished, Click **OK**. Your configuration may be in one of three statuses: yet to take effect, failed, or effective.

HTTP response headers ⓘ

HTTP response headers affect the response of the client (browser). You can configure up to 10 headers. [How to configure HTTP response headers](#)

[Edit](#)[Cancel](#)

Se...	Field	Value	
1	Access-Control-Allow-Methods	GET, POST, OPTIONS	×
2	Access-Control-Max-Age	600	×
3	Access-Control-Expose-Headers	Content-Length	×
4	define-header	1	×
5	bdefine-header	1	×

[New](#)[OK](#)**HTTP response headers** ⓘ

HTTP response headers affect the response of the client (browser). You can configure up to 10 headers. [How to configure HTTP response headers](#)

[Edit](#)

⌚ Your configuration is being processed and has yet to take effect

Se...	Field	Value
1	Access-Control-Allow-Methods	GET, POST, OPTIONS
2	Access-Control-Max-Age	600
3	Access-Control-Expose-Headers	Content-Length
4	define-header	1
5	bdefine-header	1

Access Control by Region Configuration

Last updated : 2024-06-17 18:09:12

Access control by region lets you can manage a blocklist or allowlist for playback regions for the current domain, providing better control over content distribution in specific areas.

How It Works

If you are configuring a blocklist, requests from the selected regions are banned.

If you are configuring an allowlist, only requests from the selected regions are allowed.

Must-Knows

After you complete the configuration of the blocklist and allowlist for the playback region, it takes approximately 10 minutes to take effect.

If you have enabled both the [IP Blocklist/Allowlist Configuration](#) and playback region management features, note that the IP blocklist/allowlist takes precedence over playback region management.

Prerequisites

You have activated CSS and logged in to the [CSS console](#).

You have added a [playback domain](#).

Configuring Access Control by Region

1. Select [Domain Management](#) on the left sidebar. Click the **playback domain** you want to configure region management for, or click **Manage** on the right side to enter the Domain Management page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.

Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to [Guide](#).

Add DomainEdit TagCertificate Management

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-03 18:13:40
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-12-05 11:13:42
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 16:19:06
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 14:12:59
<input type="checkbox"/>	.top	.com	Push Domain	CSS	Global	Enabled	2023-09-19 19:10:42
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-08-31 18:21:23
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:38:54
<input type="checkbox"/>	.top	.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:37:32
<input type="checkbox"/>	.com	.com	Push Domain	CSS	Global	Enabled	2021-08-31 16:52:03

Total entries: 9. Selected: 0.

2. Under the **Access control** tab, find **Access control by region**.

Domain Management / [\[domain\].com](#) ☒ Origin server mode ⓘ

Basic Info Origin-pull configuration **Access control** Advanced Configuration

Key Authentication

The authentication key is used to generate the txSecret parameter in the live streaming URL for authentication, which prevents unauthorized playback caused by domain name disclosure. [How to use authentication key? ⓘ](#)

Playback Authentication ☐

Primary Key

Backup Key

Validity Time (s) 0

Referer

The Referer HTTP header field is used to identify and filter a request. [How to use Referer for authentication? ⓘ](#)

Referer ☐

IP allowlist/blocklist

You can use IP allowlist/blocklist to filter requests by IP. [How to use IP allowlist/blocklist? ⓘ](#)

Status ☐

Authenticate By Blocklist

IP List

Block playback by protocol

Block playback that uses certain protocols

Block RTMP playback	Close
Block FLV playback	Close
Block HLS playback	Close
Block DASH playback	Close
Block WEBRTC playback	Close

Access control by region

Specify an allowlist/blocklist of regions from which playback requests are allowed/banned. [Learn more ⓘ](#)

Status ☐

3. Click



to enable access control by region and complete the following settings:

Access control by region ✕

If you are configuring a blocklist, requests from the selected regions will be banned; if you are configuring an allowlist, only requests from the selected regions will be allowed.

Authenticate By ☒ Blocklist ☐ Allowlist

Select regions

Regions

- ▶ Asia
- ▶ Africa
- ▶ Europe
- ▶ North America
- ▶ South America
- ▶ Oceania

Selected 0

Regions

Save

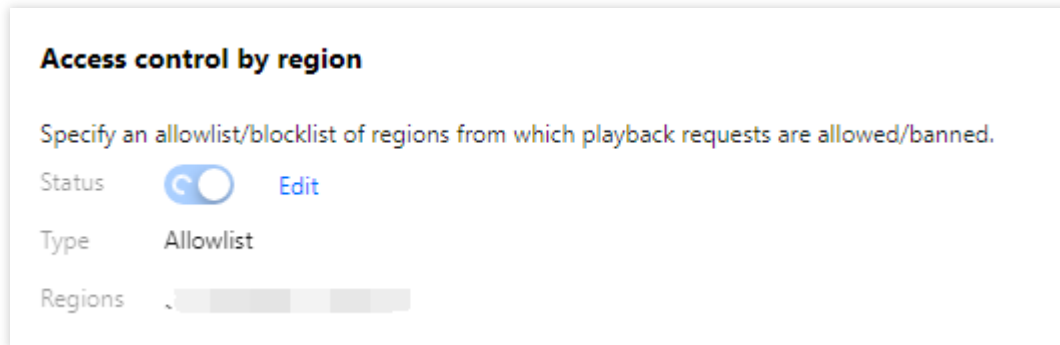
Cancel

Configuration Item	Description
Authenticate By	<p>Choose whether to configure an Allowlist or Blocklist. An allowlist and blocklist cannot be effective at the same time. If you configure an allowlist, access to live stream content will be allowed only for the regions added to the allowlist. Access will be denied for regions that are not added to the allowlist. If you configure a blocklist, access to live stream content will be denied for the regions added to the blocklist. Access will be allowed for all regions that are not added to the blocklist.</p>

Configuring Regions

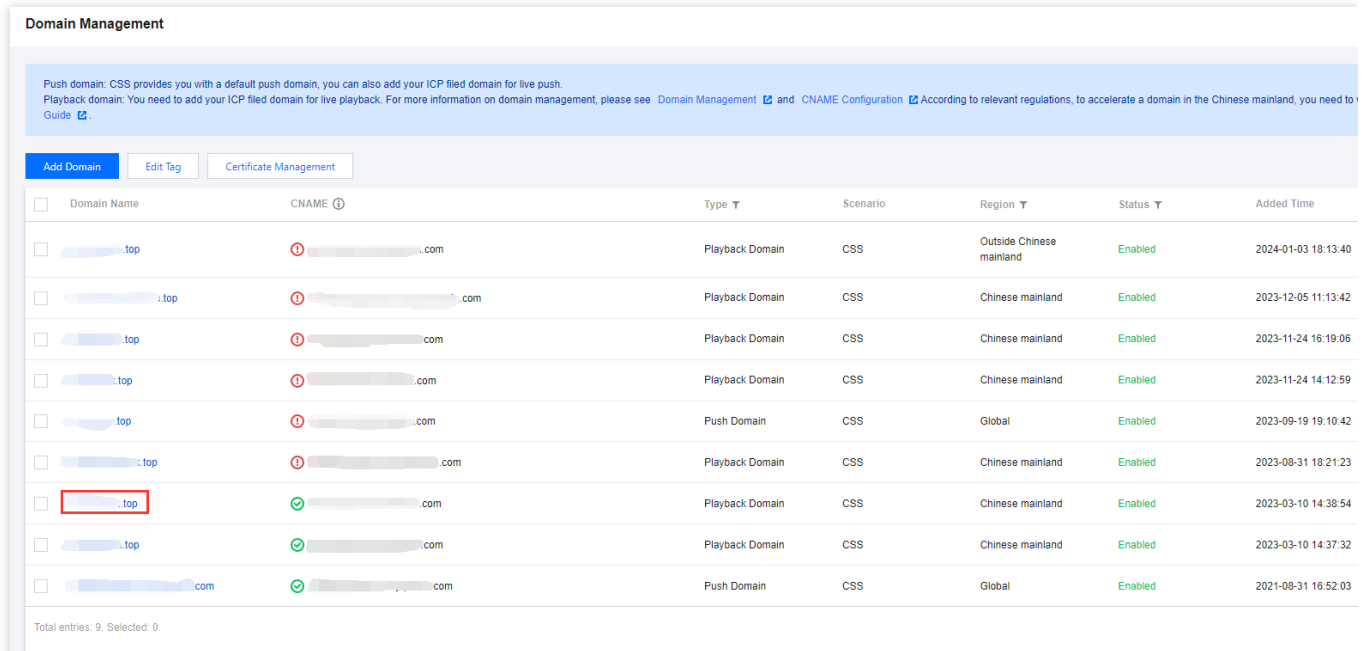
You can view and expand regions under **Asia**, **Africa**, **Europe**, **North America**, **South America**, and **Oceania** and them to the list of selected regions.
You can also search for regions to find them more quickly.

4. Click **Save** to save the configuration (it takes a while for the configuration to take effect).



Modifying Access Control by Region

1. Select **Domain Management** on the left sidebar. Click the **playback domain** you want to modify the region management settings for, or click **Manage** on the right side to enter the Domain Management page.




2. Under the **Access control** tab, find **Access control by region** and click **Edit**.

Access control by region

Specify an allowlist/blocklist of regions from which playback requests are allowed/banned.

Status  [Edit](#)

Type Allowlist










Regions 

3. Modify the configuration and click **Save**.

Disabling Access Control by Region

Follow the steps below to disable access control by region:

1. Select **Domain Management** on the left sidebar. Click the **Playback Domain** you want to disable access control by region for, or click **Manage** on the right side to enter the Domain Management page.

Domain Management							
<p>Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push. Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see Domain Management and CNAME Configuration. According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to Guide.</p>							
Add Domain Edit Tag Certificate Management							
<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>	.top	 .com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-03 18:13:40
<input type="checkbox"/>	.top	 .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-12-05 11:13:42
<input type="checkbox"/>	.top	 .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 16:19:06
<input type="checkbox"/>	.top	 .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 14:12:59
<input type="checkbox"/>	.top	 .com	Push Domain	CSS	Global	Enabled	2023-09-19 19:10:42
<input type="checkbox"/>	.top	 .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-08-31 18:21:23
<input type="checkbox"/>	.top	 .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:38:54
<input type="checkbox"/>	.top	 .com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:37:32
<input type="checkbox"/>	.com	 .com	Push Domain	CSS	Global	Enabled	2021-08-31 16:52:03
Total entries: 9. Selected: 0.							

2. Under the **Access control** tab, find **Access control by region**. Click



to disable access control by region.

Access control by region

Specify an allowlist/blocklist of regions from which playback requests are allowed/banned.

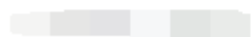
Status

[Edit](#)

Type

Allowlist

Regions



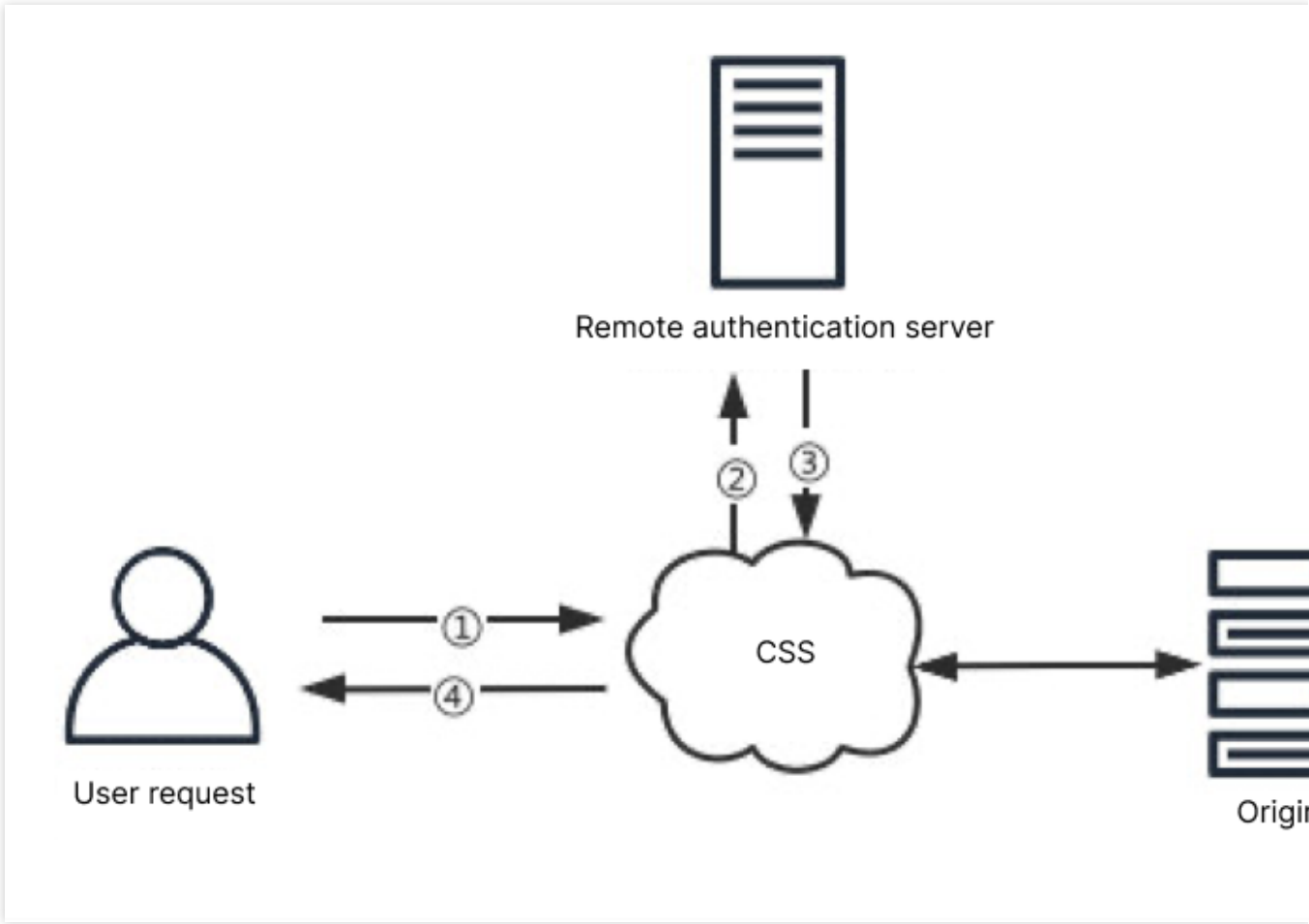
Remote Authentication Configuration

Last updated : 2024-06-17 17:00:55

With remote authentication, after authenticating a push/playback request for hotlink protection, CSS will call your server API to send the request to your server so that you can determine whether the request is legitimate. Based on the result your server returns, CSS will approve or reject the push/playback request. This ensures more precise authentication and improves security. However, you need to develop your own authentication server.

Workflow

Remote authentication works as follows:



No	Description
1	A request is sent to CSS.
2	If remote authentication is enabled for the domain, CSS will process the request as specified and then

	send it to your authentication server.
3	Your authentication server returns the result. The HTTP status code 200 indicates that the request should be approved, while the code 403 indicates that the request should be rejected.
4	CSS approves or rejects the request based on the result.

Prerequisites

You have activated CSS and logged in to the [CSS console](#).

You have added a [playback domain name](#).

Configuring Remote Authentication

1. Select [Domain Management](#) on the left sidebar. Click the name of the target playback domain or click **Manage** on the right to enter the domain management page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to verify your [Guide](#).

Add Domain

Edit Tag



Certificate Management

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>		.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-03 18:13:40
<input type="checkbox"/>		.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-12-05 11:13:42
<input type="checkbox"/>		.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 16:19:06
<input type="checkbox"/>		.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 14:12:59
<input type="checkbox"/>		.com	Push Domain	CSS	Global	Enabled	2023-09-19 19:10:42
<input type="checkbox"/>		.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-08-31 18:21:23
<input type="checkbox"/>		.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:38:54
<input type="checkbox"/>		.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:37:32
<input type="checkbox"/>		.com	Push Domain	CSS	Global	Enabled	2021-08-31 16:52:03

Total entries: 9. Selected: 0.

10


2. Under the **Access Control** tab, find **Remote authentication**.


Domain Management /   Origin server mode ⓘ


Basic Info Playback Configuration Template Configuration **Access control** Advanced Configuration

Key Authentication

The authentication key is used to generate the txSecret parameter in the live streaming URL for authentication, which prevents unauthorized playback caused by domain name disclosure. [streaming URL using the authentication key? ⓘ](#)

Playback Authentication 


Primary Key 

Backup Key 

Validity Time (s) 5


Referer

The Referer HTTP header field is used to identify and filter a request. [How to use Referer for authentication? ⓘ](#)

Referer 

IP allowlist/blocklist

You can use IP allowlist/blocklist to filter requests by IP. [How to use IP allowlist/blocklist? ⓘ](#)

Status 

Authenticate By -

IP List -


Block playback by protocol

Block playback that uses certain protocols

Block RTMP playback	Enable
Block FLV playback	Close
Block HLS playback	Close
Block DASH playback	Close
Block WEBRTC playback	Close


Access control by region

Specify an allowlist/blocklist of regions from which playback requests are allowed/banned. [Learn more ⓘ](#)

Status 

Remote authentication ⓘ

Passes through requests to your own authentication server so that you can determine whether to approve a request. This ensures more precise authentication. [Learn more ⓘ](#)

Remote authentication 

3. Click



to enable remote authentication and complete the following settings:

Remote authentication

Authentication server address *

Example: https://www.example.com:8080/Api/RemoteAuthenticationInterface

Request method

URL authentication

Parameters to keep *



Keep all



Remove all



Keep specified parameters

Custom parameters to add

Type	Field	Value	Operation
<input type="text" value="Select"/>	<input type="text" value="host"/>	\$host	Delete

[Add](#)**Request header authentication**

Request header to keep *



Keep all



Remove all



Keep specified parameters

Custom parameters to add

Type	Field	Value	Operation
<input type="text" value="Select"/>	<input type="text" value="User-Agent"/>	\$User-Agent	Delete

[Add](#)

Timeout period (ms) per try *

Max retries *

-

1

+

Behavior upon timeout ⓘ



Approve



Reject

Asynchronous Authentication ⓘ

[Save](#)[Cancel](#)


Configuration Item		Description
Authentication server address		The address of your authentication server (required). Format: http(s)://+Domain or IP address+Port+Path.
Request method		POST is selected by default. You can also use HEAD or GET.
URL authentication	Parameters to keep	All URL parameters are kept by default. You can also specify parameters to keep or remove all parameters. If you select "Keep specified parameter", fill in the box the parameters you want to keep. Separate them with , as in value1 value2. The parameters are case-sensitive ("key" and "KEY" are different parameters).
	Custom parameters to add	Click "Add" to add authentication parameters (max 50). You can either select a parameter to add or add a custom parameter. The parameters you can select include "host", "uri", "client_ip", and "cdn_ip", which represent the playback domain, the original request URL, the client IP address, and the CDN IP address respectively. If you select "Custom", "Parameter" and "Value" are required. The names and values are case-sensitive ("key" and "KEY" are different parameters). Chinese characters are not allowed.
Request header authentication	Request header to keep	All URL parameters are kept by default. You can also specify parameters to keep or remove all parameters. If you select "Keep specified parameter", fill in the box the parameters you want to keep. Separate them with , as in value1 value2. If you select "Keep all", the CDN node will delete the host header. If you want to keep it, select "Keep specified parameter" or add a custom parameter. The parameters are case-insensitive.
	Custom parameters to add	Click "Add" to add authentication parameters (max 50). You can either select a parameter to add or add a custom parameter. The parameters you can select include "User-Agent", "Referer", and "X-Forwarded-For", which represent the system and browser information of the user, the referer of the URL, and the URL disguise. If you select "Custom", "Parameter" and "Value" are required. The names and values are case-insensitive. Chinese characters not allowed.
Timeout period (ms) per try		This is required. Enter a value between 500 and 3000. The default is 3000.
Max retries		Enter a value between 0 and 3. The default is 1.

Behavior upon timeout	The default is "Approve". You can also set it to "Reject". Whether to approve or reject a request if the system does not receive a response (HTTP status code 200 or 403) after the total timeout period elapses (Total timeout period = Timeout period per try x (Max retries + 1)).
Asynchronous Authentication	Asynchronous authentication is disabled by default. You may enable this feature manually based on your specific business requirements. Once enabled, playback will commence without waiting for the remote authentication result, allowing for immediate content viewing. If the remote authentication subsequently fail, the playback will be disconnected. This approach avoids the issue of increased initial screen load time due to the latency of remote authentication. In the asynchronous authentication mode, the authentication for ts and m3u8 files in the HLS protocol will not be effective, and synchronous authentication will continue to be maintained.

4. Click **Save**.

Note:

After configuring the remote authentication feature, it will take approximately 10 minutes to become effective. We appreciate your patience during this time.

Remote authentication ⓘ
Passes through requests to your own authentication server so that you can determine whether to approve a request. This ensures more precise authentication. [Learn more](#) ⓘ
Remote authentication  Deploying [Edit](#)
Authentication server address `https://www.example.com:8080/Api/RemoteAuthenticationInterface`
Request method `POST`
URL authentication `Keep all`
Custom URL parameters

Type	Field	Value
Select	host	\$host

Request header authentication `Kept parameters: value1|value2`
Custom request header parameters

Type	Field	Value
Select	User-Agent	\$User-Agent

Timeout period (ms) per try `3000`
Max retries `1times`
Behavior upon timeout `Approve`
Asynchronous Authentication `Enable`

Modifying Remote Authentication Settings

1. Select **Domain Management** on the left sidebar. Click the name of the target playback domain or click **Manage** on the right to enter the domain management page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to verify your [Guide](#).

Add Domain

Edit Tag

Certificate Management

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>		.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-03 18:13:40
<input type="checkbox"/>		.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-12-05 11:13:42
<input type="checkbox"/>		.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 16:19:06
<input type="checkbox"/>		.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 14:12:59
<input type="checkbox"/>		.com	Push Domain	CSS	Global	Enabled	2023-09-19 19:10:42
<input type="checkbox"/>		.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-08-31 18:21:23
<input type="checkbox"/>		.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:38:54
<input type="checkbox"/>		.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:37:32
<input type="checkbox"/>		.com	Push Domain	CSS	Global	Enabled	2021-08-31 16:52:03


Total entries: 9. Selected: 0.

10

2. Under the **Access Control** tab, find **Remote authentication** and click **Edit**.

3. Modify the settings and click **Save**.

Remote authentication^①

Passes through requests to your own authentication server so that you can determine whether to approve a request. This ensures more precise authentication. [Learn more](#) 

Remote authentication

☒ Active [Edit](#)

Authentication server address

https://www.example.com:8080/Api/RemoteAuthenticationInterface

Request method

POST

URL authentication

Keep all

Custom URL parameters

Type	Field	Value
Select	host	\$host

Request header authentication

Kept parameters: value1|value2

Custom request header parameters

Type	Field	Value
Select	User-Agent	\$User-Agent

Timeout period (ms) per try

3000

Max retries

1times

Behavior upon timeout

Approve

Asynchronous Authentication

Enable

Disabling Remote Authentication

1. Select [Domain Management](#) on the left sidebar. Click the name of the target playback domain or click **Manage** on the right to enter the domain management page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the Chinese mainland, you need to verify your [Guide](#).

Add Domain

Edit Tag

Certificate Management

<input type="checkbox"/>	Domain Name	CNAME	Type	Scenario	Region	Status	Added Time
<input type="checkbox"/>		.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01-03 18:13:40
<input type="checkbox"/>		.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-12-05 11:13:42
<input type="checkbox"/>		.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 16:19:06
<input type="checkbox"/>		.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11-24 14:12:59
<input type="checkbox"/>		.com	Push Domain	CSS	Global	Enabled	2023-09-19 19:10:42
<input type="checkbox"/>		.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-08-31 18:21:23
<input type="checkbox"/>		.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:38:54
<input type="checkbox"/>		.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-03-10 14:37:32
<input type="checkbox"/>		.com	Push Domain	CSS	Global	Enabled	2021-08-31 16:52:03

Total entries: 9. Selected: 0.

2. Under the **Access Control** tab, find **Remote authentication**, and click



to disable remote authentication.

Remote authentication

Passes through requests to your own authentication server so that you can determine whether to approve a request. This ensures more precise authentication. [Learn more](#)

Remote authentication

Active [Edit](#)

Authentication server address

https://www.example.com:8080/Api/RemoteAuthenticationInterface

Request method

POST

URL authentication

Keep all

Custom URL parameters

Type	Field	Value
Select	host	\$host

Request header authentication

Kept parameters: value1|value2

Custom request header parameters

Type	Field	Value
Select	User-Agent	\$User-Agent

Timeout period (ms) per try

3000

Max retries

1times

Behavior upon timeout

Approve

Asynchronous Authentication

Enable

3. To disable the remote authentication configuration, it is expected to take effect in about 10 minutes. Click **Confirm**.

Disable remote authentication

The change will take effect in about 10 minutes. Do you want to continue?

Confirm

Cancel

Certificate Management

Last updated : 2024-07-11 17:45:00

Normally, live streaming domain names use the Hypertext Transfer Protocol (HTTP). HTTP can be converted to Hyper Text Transfer Protocol over Secure Socket Layer (HTTPS) using SSL/TLS protocol for encrypted data transmission. You can go to **Certificate Management** to query and configure SSL certificates for domain names.

How to Configure

The purpose of configuring an SSL certificate for a domain name is to encrypt key user data for secure transmission. A Secure Sockets Layer (SSL) certificate allows a site to switch from HTTP (HyperText Transfer Protocol) to its SSL-based encrypted version HTTPS (HyperText Transfer Protocol over Secure Socket Layer).

Configuring Certificate

1. Go to [Domain Management](#) in the CSS console, and click **Certificate Management** to go to the certificate management page.

Domain Management

Push domain: CSS provides you with a default push domain, you can also add your ICP filed domain for live push.
Playback domain: You need to add your ICP filed domain for live playback. For more information on domain management, please see [Domain Management](#) and [CNAME Configuration](#). According to relevant regulations, to accelerate a domain in the China Identity Verification Guide.

[Add Domain](#) [Edit Tag](#) [Certificate Management](#)

<input type="checkbox"/>	Domain Name	CNAME①	Type	Scenario	Region	Status	Added
<input type="checkbox"/>	xxxxx.top	① xxxxx.com	Playback Domain	CSS	Global	Enabled	2024-01
<input type="checkbox"/>	xxxxx.top	① xxxxx.com	Playback Domain	CSS	Outside Chinese mainland	Enabled	2024-01
<input type="checkbox"/>	xxxxx.top	① xxxxx.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11
<input type="checkbox"/>	xxxxx.top	① xxxxx.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11
<input type="checkbox"/>	xxxxx.top	① xxxxx.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-11
<input type="checkbox"/>	xxxxx.top	① xxxxx.com	Push Domain	CSS	Global	Enabled	2023-01
<input type="checkbox"/>	xxxxx.top	① xxxxx.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-01
<input type="checkbox"/>	xxxxx.top	① xxxxx.com	Playback Domain	CSS	Chinese mainland	Enabled	2023-01
<input type="checkbox"/>	xxxxx.com	① xxxxx.com	Push Domain	CSS	Global	Enabled	2021-01

Total entries: 10. Selected: 0.

2. Click **Configure Certificate** to add a certificate configuration.

Certificate Management

You can upload your own certificate or go to [SSL Certificate Service](#) to apply for a free DV SSL certificate issued by TrustAsia.

[Configure Certificate](#)

Domain Name	Remarks	HTTPS Configuration	Expiration Time
No data yet			

Total items: 0

3. In the certificate configuration pop-up window, select a certificate source:

Self-owned certificate: enter remarks, content, and key of this certificate. After the configuration is saved, the certificate info will be synced to [Certificate Management](#) in the SSL Certificate Service console. For details about how to set the certificate content and key, please see [HTTPS Configuration](#).

Configure Certificate

1 Upload Certificate

>

2 Select domain name

Certificate Source ☒ New ☐ Existing

Remarks *

Certificate content *

[View Sample](#)

Key *

[View Sample](#)

Next

Tencent Cloud-hosted certificate: select a certificate you purchased in the SSL Certificate Service console.

Configure Certificate

1 Upload Certificate

>

2 Select domain name

Certificate Source ☐ New ☒ Existing

SSL Certificate List *

ID	Domain Name	Expiration Time
----	-------------	-----------------

No certificate is added. Please go to [Certificate Management](#) to add one.

Next

4. After the certificate is confirmed to be available, click **Next** to enter the domain name configuration page.
5. In **Bind Domain Names**, select one or more playback domain names which match the certificate. If a selected domain name is already bound to a certificate, the new certificate will apply.
6. In **Selected**, you can view selected domain names and whether their HTTPS configuration is enabled.

Configure Certificate

✓

Upload Certificate

>

2

Select domain name

Certificate Info

Domain Name

Expiration Time 2022-07-07 07:59:59

Bind Domain Names

Enter a domain name

✓	Domain Name	Certificate e...	HTTPS Confi...
✓	<div></div>	2022-07-07 0...	Close

Press Shift to select multiple items

Selected (1)

Enable HTTPS Configurati

Domain Name	HTTPS Configuration
<div></div>	Enable

Back

Confirm

7. Choose whether to enable HTTPS Configuration for selected domain names:

Note:

Toggling **Enable HTTPS Configuration** on will enable HTTPS configuration for the domain names.

Enable HTTPS Configuration is enabled by default. If you toggle this button off, the HTTPS configuration status of the domain names will not change after binding, with only their certificate updated.

8. Click **Confirm**.

Viewing Certificate Configuration

After you [configure a certificate](#), you can go to [Certificate Management](#) to view its configuration, including the domain name, remarks, source, HTTPS configuration, and expiration time.

Configure Certificate				
Domain Name	Remarks	Certificate Source	HTTPS Configuration	Expiration Time
		Self-owned certificate	Enabled	2020-12-30 16:00:00
		Self-owned certificate	Enabled	2020-12-31 16:00:00
		Self-owned certificate	Enabled	2020-12-30 16:00:00
		Tencent Cloud-hosted certificate	Disabled	2022-07-07 07:59:59
		Self-owned certificate	Disabled	2020-12-30 16:00:00
Total items: 5				10 ▾ /

Updating Certificate Configuration

1. Go to [Certificate Management](#), find the target certificate configuration in the list, and click **Update** on its right.

		Tencent Cloud-hosted certificate	Disabled	2022-07-07 07:59:59
--	--	----------------------------------	----------	---------------------

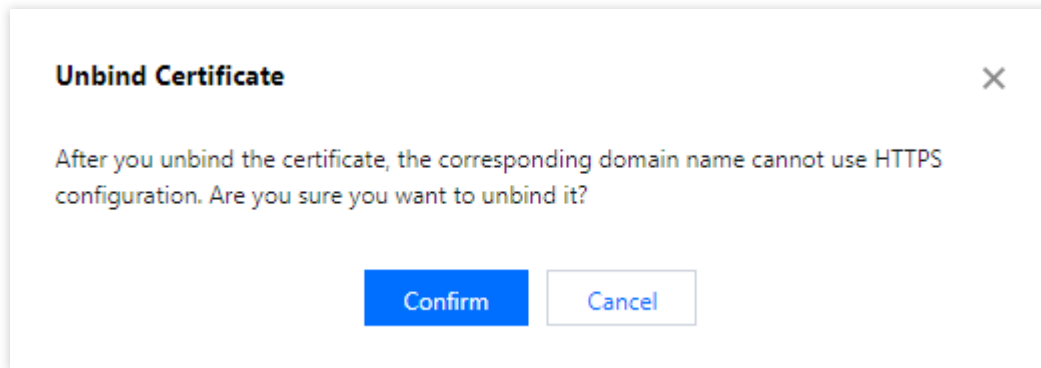
2. On the certificate configuration page, configure the certificate again.
3. Click **Confirm**.

Deleting Certificate Configuration

1. Go to [Certificate Management](#), find the target certificate configuration in the list, and click **Delete** on its right.

<div><div></div><div></div></div>	Tencent Cloud-hosted certificate	Disabled	2022-07-07 07:59:5
-----------------------------------	----------------------------------	----------	--------------------

2. In the confirmation pop-up window, click **Confirm**.



Note:

After you unbind the certificate, the domain names cannot use HTTPS configuration.

Stream Management

Last updated : 2024-07-16 09:36:23

Log in to the CSS console and enter [Stream Management](#). Stream Management includes interrupting live streams and disabling live streams, as well as viewing **Live Streams**, **Primary/Backup Streams**, **Stream History**, **Disabled Streams**, and their detailed information. Here is a brief introduction and usage of these features:

Live Streams Management

Log in to the CSS console, then navigate to [Stream Management](#) > **Live Streams**, and perform operations according to your actual business needs.

Preview live stream

In the Live Streams list, you can select the domain and corresponding online stream you want to query. Click "Preview" on the right to view the real-time live streaming image.

Stream Management				
Live Streams	Primary/Backup streams	Stream History	Disabled Streams	Select a domain name
StreamName	Domain Name	AppName	Status	Playback Delayed
		live	On live	No
		live	On live	No
Total items: 2				

View stream data

Click on the **stream data** on the right side to view detailed information of the online live stream, such as traffic, bandwidth, frame rate, bitrate, etc.

Stream Management				
Live Streams	Primary/Backup streams	Stream History	Disabled Streams	Select a domain name
StreamName	Domain Name	AppName	Status	Playback Delayed
		live	On live	No
		live	On live	No
Total items: 2				

Interrupt live stream

Click **Stream Interruption** on the right to interrupt the current live stream publishing.

Note:

After the interruption, the current live stream will stop publishing. You can resume the live stream by republishing with the same Stream Name.

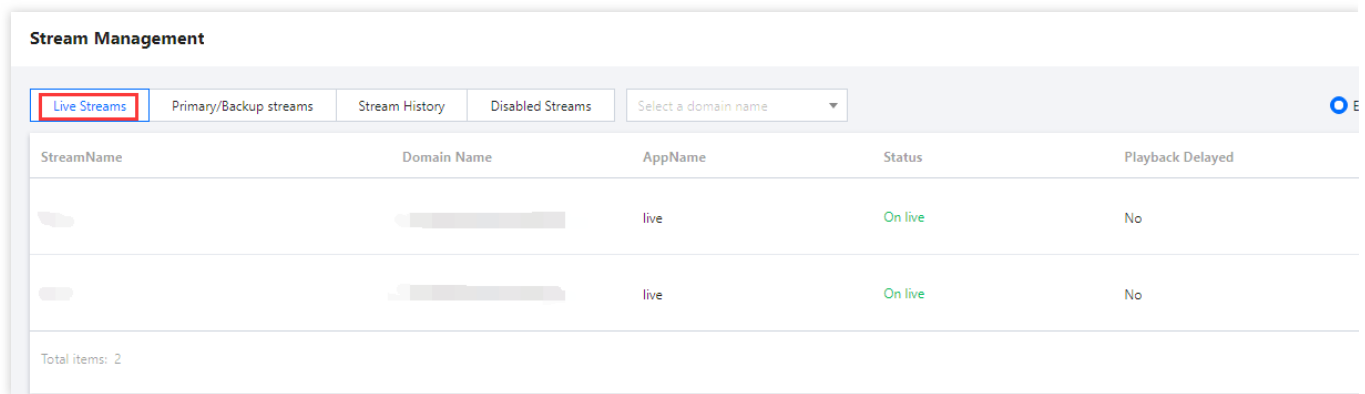
Stream Management				
Live Streams	Primary/Backup streams	Stream History	Disabled Streams	Select a domain name
StreamName	Domain Name	AppName	Status	Playback Delayed
		live	On live	No
		live	On live	No
Total items: 2				

Disable live stream

Click **Disable** to disable the live stream.

Note:

After disabling, the current live stream will stop publishing (republishing is not possible for the current Stream Name until it is re-enabled). You can manually resume it or it will be automatically enabled after 7 days by default.



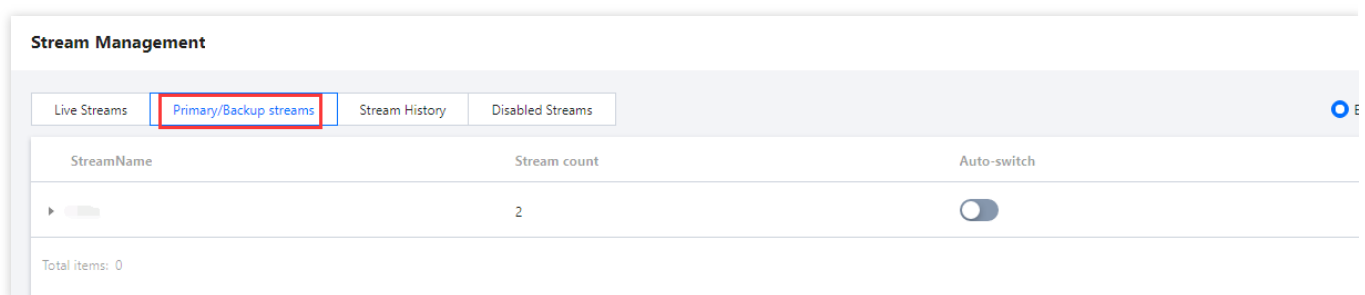
Primary and backup stream management

The primary and backup stream feature refers to the system's ability to automatically merge and output two live streams with the same **Stream ID**. The primary stream's content is prioritized for playback. If there are issues with the primary stream's content, you can **automatically** or **manually** switch to the backup stream content to ensure the stability of the live image. The primary and backup streams can be enabled or disabled for optimal scheduling. When optimal scheduling is enabled, the system will dynamically evaluate the quality of each stream and select the highest-quality stream as the primary stream.

Log in to the CSS console, then navigate to [Stream Management](#) > **Primary/Backup streams**, and perform operations according to your actual business needs.

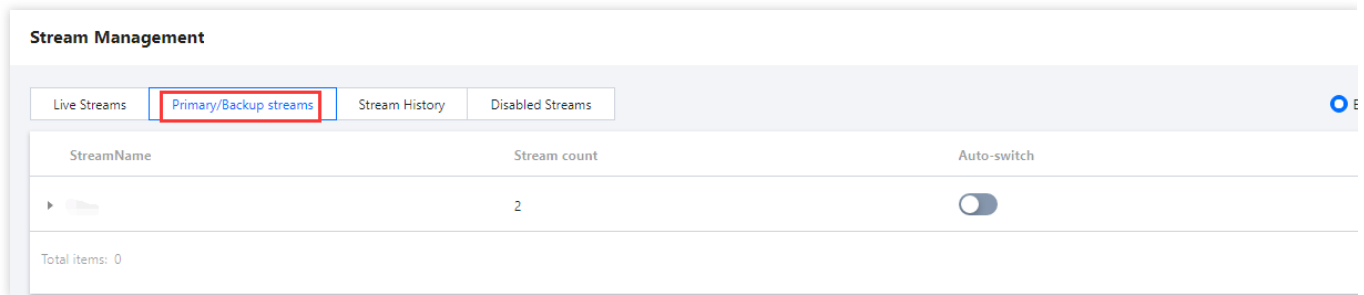
Preview live stream

Click **Preview** on the right to view the real-time live streaming image.



View stream data

Click on the **stream data** on the right side to view detailed information of the online live stream, such as traffic, bandwidth, frame rate, bitrate, etc.



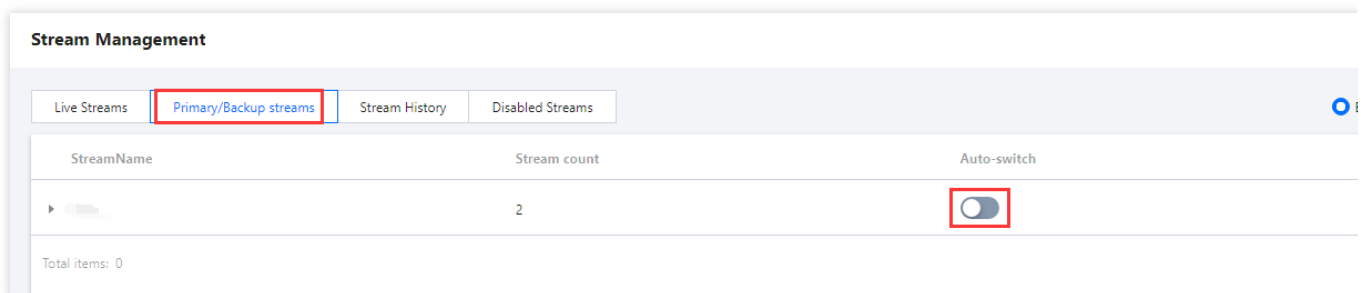
Optimal Scheduling Management

Enable optimal scheduling

Click



, to enable optimal scheduling. When optimal scheduling is enabled, the system will dynamically evaluate the quality of each stream and select the highest-quality stream as the primary stream.

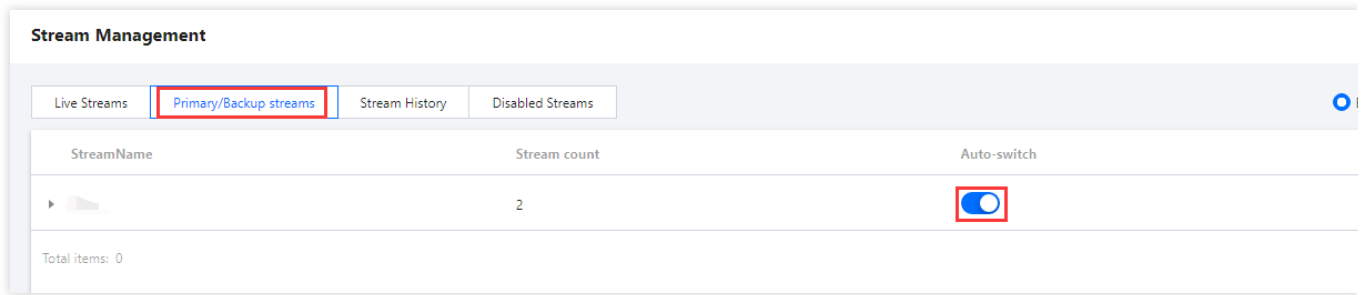


Disable Optimal Scheduling

Click



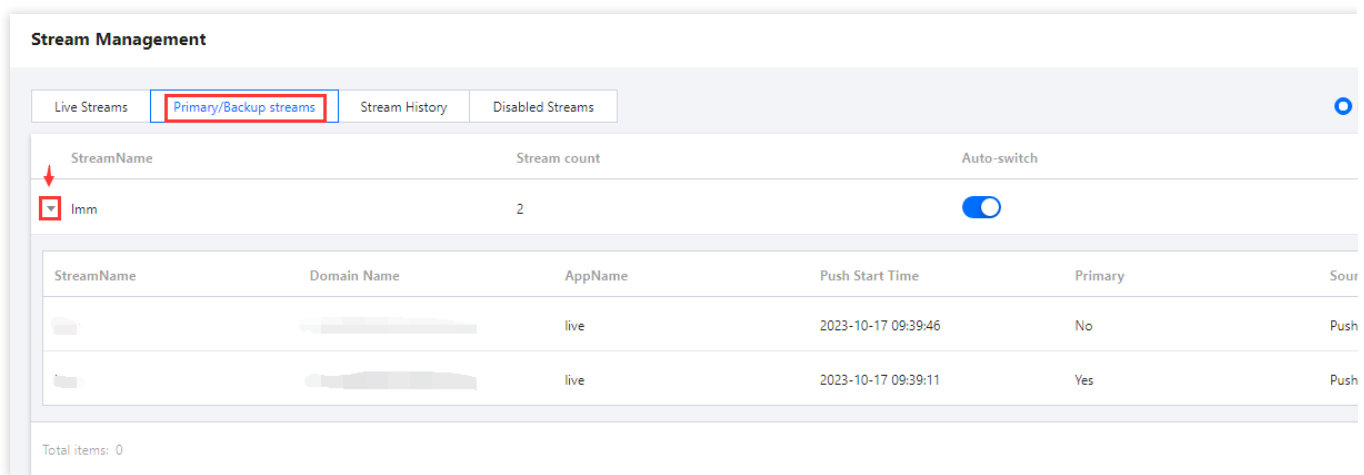
, to disable optimal scheduling.



Primary and Backup Stream Switching

Click on the left-pointing triangle to expand the manual switch to the standby option.

Click the **Switch** on the right side to switch between the main and backup streams. By manually switching the main and backup streams, you can flexibly deal with issues that may arise during the live broadcast.



Stream History Management

Log in to the CSS console, then navigate to [Stream Management](#) > **Stream History**, You can query historical live stream data and perform operations according to your actual business needs.

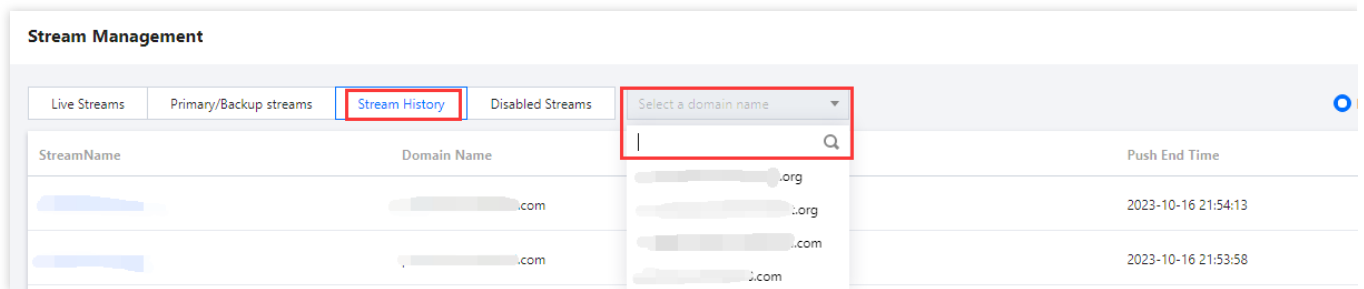
Disable Historical Live Stream

In the historical stream list, you can select the domain name to be queried and the corresponding historical live stream. Click **Disable** to disable the historical live stream.

Note:

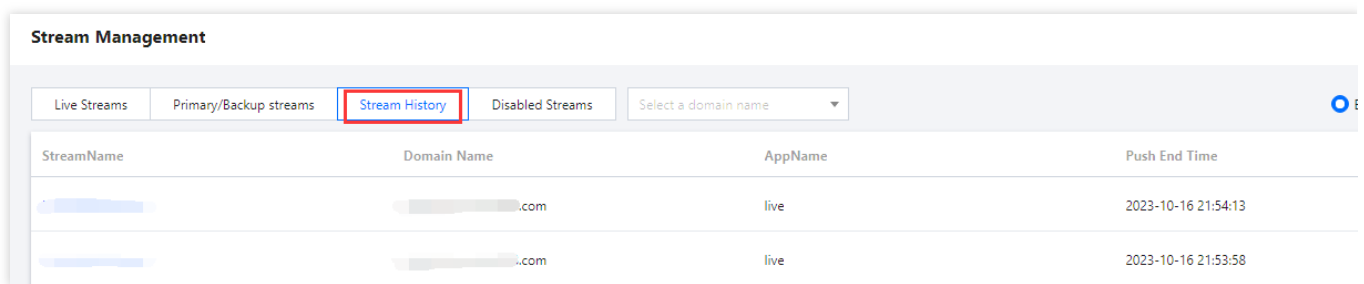
After being disabled, the current live broadcast will stop pushing (streaming cannot be re-pushed until the current StreamName is restored). It can be manually restored or automatically enabled after 7 days by default.

You can view stream history in the past 7 days under the **Stream History** tab or query records in the past month in [Stream Interruption Records](#).



View stream data

Click on the **stream data** on the right side to view detailed information of the online live stream, such as traffic, bandwidth, frame rate, bitrate, etc.



Disabled Streams Management

Log in to the CSS console, then navigate to [Stream Management](#) > **Disabled Streams**, and perform operations according to your actual business needs.

Enable live streaming

In the Disabled Streams list, select the corresponding disabled live stream and click **Enable** to resume the live stream publishing.

Stream Management

Live Streams

Primary/Backup streams

Stream History

Disabled Streams

StreamName	Status	Operation
	Disabled	<div>Enable</div> Streaming

Total items: 1

View stream data

Click on the **stream data** on the right side to view detailed information of the online live stream, such as traffic, bandwidth, frame rate, bitrate, etc.

Stream Management

Live Streams

Primary/Backup streams

Stream History

Disabled Streams

StreamName	Status	Operation
	Disabled	<div>Enable</div> Streaming

Total items: 1

Package Management

Last updated : 2023-10-30 11:17:55

You can view the usage of your [traffic](#) and [transcoding](#) plan in the CSS console.

Traffic plan

Select [plan](#) on the left sidebar. You can do the following under the **Traffic plan** tab:

View the usage, purchase time, expiration time, and status (unused, in use, exhausted, expired, or frozen) of your **traffic plan**.

The screenshot shows the 'Cloud Streaming Services' sidebar on the left with 'Plan' selected. The main panel is titled 'Resource Plan/Plugin Management' and has two tabs: 'Traffic plan' (highlighted with a red box) and 'Transcoding plan'. Below the tabs are two buttons: 'Buy plan' and 'Usage details'. A table below shows columns for ID, Type, Usage (Chinese mainland LVB traffic), Creation Time, and Expiration Time. The table is currently empty, displaying 'No data yet' and 'Total items: 0'.

View the deduction details of your **traffic plan**, including the plan ID, plan type, usage, deduction type, deduction ratio, deducted amount, and deduction time. **Usage statistics are updated at the time of billing each day (the exact billing time may vary).** For details about how deductions work, see [Prepaid plan](#).

The screenshot shows the 'Usage details' page. At the top, there's a back arrow and the title 'Usage details'. Below this, there's a 'Resource Pack Type' dropdown menu set to 'Traffic plan' (highlighted with a red box) and a 'Deduction time' range selector set to '2023-10-24 ~ 2023-10-24'. Below these are two buttons: 'Buy plan' and 'Usage details'. A table below shows columns for Resource pack ID, Resource Pack Type, Usage, Deduction type, Region, and Deduction amount. The table is currently empty, displaying 'No data yet' and 'Total items: 0'.

View your **current billing mode** in the top right corner. Traffic plan can be used for deduction only in **daily bill-by-traffic** mode. If you use other modes, your plan will be frozen and their validity will not be extended.

Click **Buy plan** to go to the purchase page to buy traffic plan.

Note

Before you buy a plan, please read [Traffic plan](#) to learn about the **billing details** and **limits**.

You can refund a plan in the console if it meets the requirements of our [refund policy](#).

Transcoding plan

Select [plan](#) on the left sidebar. You can do the following under the **Transcoding plan** tab:

View the usage, purchase time, expiration time, and status of **standard transcoding plan** and **TSC transcoding plan**.

The screenshot shows the Tencent Cloud console interface. On the left sidebar, 'Cloud Streaming Services' is expanded, and 'Plan' is selected. The main area is titled 'Resource Plan/Plugin Management'. Under the 'Transcoding plan' tab, there are two buttons: 'Buy plan' and 'Usage details'. Below these buttons is a table with columns: ID, Type, Usage, Creation Ti..., and Expi. The table is currently empty, showing 'No data yet' and 'Total items: 0'.

View the usage details of **standard transcoding plan** and **TSC transcoding plan**, including the plan ID, plan type, usage, deduction type, deduction ratio, deducted amount, and deduction time. **Usage statistics are updated at the time of billing each day (the exact billing time may vary).**

The screenshot shows the 'Usage details' page. At the top, there is a back arrow and the title 'Usage details'. Below this, there are two filters: 'Resource Pack Type' set to 'Transcoding plan' and 'Deduction time' set to '2023-10-24 ~ 2023-10-24'. Below the filters is a table with columns: Resource pack ID, Resource Pack Type, Usage, Deduction type, Region, and Deduction r. The table is currently empty, showing 'No data yet' and 'Total items: 0'.

View your **current billing mode** in the top right corner. Transcoding plan can be used for deduction only in **daily bill-by-traffic** mode. If you use other modes, your plan will be frozen and their validity will not be extended.

Click **Buy plan** to go to the purchase page to buy transcoding plan.

Note

Before you buy a plan, please read [Standard Transcoding plan](#) and [TSC Transcoding plan](#) to learn about the **billing details** and **limits**.

Feature Configuration

Live Watermarking

Last updated : 2023-09-26 12:53:46

CSS supports the watermark feature. It adds watermarks to the live streaming screen to protect video content from theft. This document describes how to create, modify, bind, unbind, and delete a watermark template in the console.

You can create a watermark template in the following ways:

Create a watermark template in the CSS console. For more information, please see [Creating Watermark Template](#).

Create a watermark template by calling an API. For more information, please see [AddLiveWatermark](#).

Notes

After creating a template, you can bind it to a push domain name. The binding will take effect in 5–10 minutes.

The watermark templates are managed at the domain name level in the console, and rules created by APIs cannot be canceled there for the time being. If you bound the watermark configuration to a specified stream through the watermark management API and want to unbind them, you need to call the [DeleteLiveWatermark](#) API.

Binding, unbinding, and modifying a template affect only new live streams after the update but not ongoing ones. To make the new rule take effect for ongoing live streams, you need to interrupt them and push them again.

Prerequisites

You have activated the CSS service and added a [push domain name](#).

Creating Watermark Template

1. Log in to the CSS console and select **Feature Configuration** > [Live Watermarking](#).
2. Click **Create Watermark Template**.
3. Enter a watermark name, which can contain up to 30 letters, digits, underscores (_), and hyphens (-).
4. Click **Select image** to upload an image as the watermark.

Note :

For the best visual effect, the watermark should be a transparent image in PNG format; the image size should be smaller than 2MB; the uploaded image file name should only support: English, numbers, and symbols - ! _ . *.

5. Set the watermark image preview window size:

Default width and height values: Width 1920px, Height 1080px.

Width and height value range: 360px-4096px.

Clicking **Update** the right side will automatically validate and synchronize the update of the watermark image preview window.

6. Specify the watermark location in the following ways:

Drag the watermark image in the configuration pane.

Adjust the coordinates of the X axis and Y axis.

7. Click **Save**.

Create template

Bind Domain Name


Watermark Configuration

Watermark Name *

test

Max 30 characters; supports letters, digits, underscores, and dashes

Image Upload *




File size33K
Upload Time2023-09-22 11:16:25

Select image

Note: For a better visual experience, we recommend you use a transparent image with a black background.

Image *



Preview window size Width: 1920 PX Height: 1080 PX

X-axis *

-

0

+

%

Y-axis *

-

0

+

%

Save

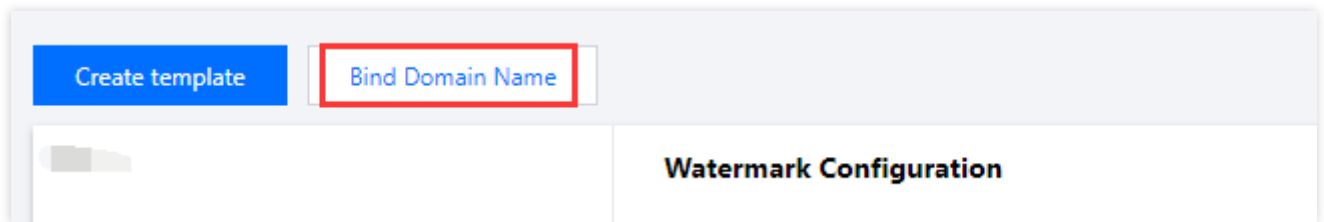
Cancel

Binding Domain Name

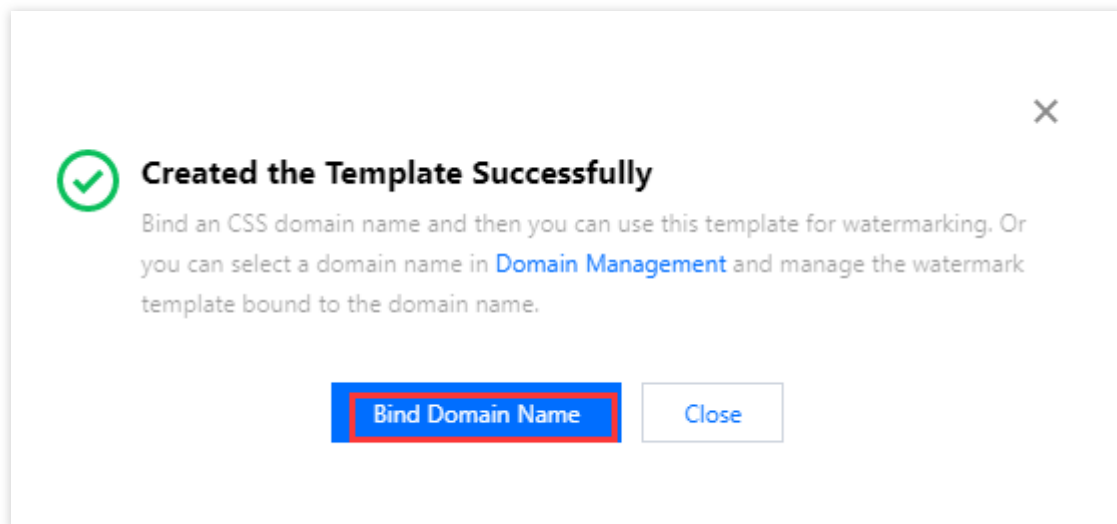
1. Log in to the CSS console and select **Feature Configuration** > [Live Watermarking](#).

2. Enter the domain name binding page in either of the following ways:

Directly bind a domain name: click **Bind Domain Name** in the top-left corner.



Bind a domain name after creating the watermark template: after the [watermark template is created](#), click **Bind Domain Name** in the pop-up window.



3. Select a **watermark template** and a **push domain name** in the domain name binding window and then click **Confirm**.

Bind Domain Name ✕

Domain name binding takes effect in about 10 minutes after the configuration. Using the domain name for push will trigger the template.

Watermark Template

Push Domain

Delete

Add

Confirm

Cancel


Note :

You can click **Add** to bind multiple push domain names to this template.


Unbinding

1. Log in to the CSS console and select **Feature Configuration** > [Live Watermarking](#).
2. Select domain names bound to the watermark template and click **Unbind**.

Watermark Configuration

Image 

Watermark Name **test**

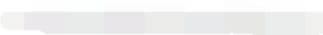
Watermark ID 

Location **Upper left**

X-AXIS **0%**

Y-AXIS **0%**

[Preview](#)

Bound Domain Names  [Unbind](#)

3. Confirm whether to unbind the domain name and click **Confirm** to unbind it.

Are You Sure You Want to Unbind This Template from the Domain Name? ✕


After unbinding, current live streaming will not be affected while this operation will be valid for live streams pushed in the future.

[Confirm](#) [Cancel](#)

Modifying Template

1. Go to **Feature Configuration** > [Live Watermarking](#).
2. Select the target watermark template and click **Edit** on the right to modify the template information.
3. Click **Save**.

Watermark Configuration

Image

Watermark Name

test

Watermark ID

Location

Upper left

X-AXIS

0%

Y-AXIS

0%

Preview

Bound Domain Names

Unbind

Note

You can click **Preview** to view how the watermark will be displayed on the screen.

Deleting Template

Note :


If the template is already associated, you need to [Unbind](#) it first before you can perform the delete operation.

Once the template is deleted, it cannot be recovered. Please proceed with caution.

If a template has been bound to a domain name, you need to unbind the template before deleting it. For detailed directions, please see [Unbinding](#).

1. Go to **Feature Configuration** > [Live Watermarking](#).
2. Select the watermark template you have successfully created, and click **Delete** in the upper right corner.

Watermark Configuration

Image 

Watermark Name **test**

Watermark ID

Location **Upper left**

X-AXIS **0%**

Y-AXIS **0%**

[Preview](#)

Bound Domain Names **None**

3. In the pop-up dialog box, click **Confirm** to confirm the deletion.

×

Are you sure you want to deletetest ?

Confirm

Cancel

Relevant Operations

For more information on how to **bind/unbind** a **domain name** to/from a watermark template, please see [Watermark Configuration](#).

Live Transcoding

Last updated : 2024-02-02 09:15:57

Live transcoding (including video transcoding and audio transcoding) refers to the process where the original stream pushed from the live streaming site is converted into streams of different codecs, resolutions, and bitrates in the cloud before being pushed to viewers. This meets playback needs in varying network environments on different devices.

This document describes how to create, bind, unbind, modify, and delete a transcoding template via the CSS console.

You can create a transcoding template in two ways:

Create a transcoding template in the CSS console. For detailed directions, see [Creating a standard transcoding template](#), [Creating a TSC transcoding template](#), and [Creating an audio-only transcoding template](#).

Create a transcoding template for live streams using an API. For the API parameters and examples, see [CreateLiveTranscodeTemplate](#).

Must-Knows

CSS supports standard transcoding, Top Speed Codec (TSC) transcoding, and audio-only transcoding. Please read the billing documents before using the services.

Standard transcoding: [Standard Transcoding Packages](#), [Standard Transcoding \(pay-as-you-go\)](#)

TSC transcoding: [TSC Transcoding Packages](#), [TSC Transcoding \(pay-as-you-go\)](#)

Compared with **standard transcoding**, **TSC transcoding** provides higher video quality at lower bitrate. Leveraging technologies including intelligent scene recognition, dynamic encoding, and CTU/line/frame-level bitrate control, TSC transcoding allows you to provide higher-definition streaming services at lower bitrates (50% lower on average). It is widely used for game streaming, showroom streaming, and event streaming.

After creating a template, you can bind it with a playback domain name. The binding takes effect in 5-10 minutes.

After binding a template, you can add the template name (`_template name`) after `StreamName` in the original URL to generate a URL for the transcoding output. Note that the **template name** and **stream name** cannot have the same suffix. For example, if the template name is `hd` , and `StreamName` is `test_a1_hd` , the system will use `test_a1` as the stream name and `hd` as the transcoding template, and playback will fail.

If you have specified the height and width or short and long sides of the transcoding output, to prevent image distortion, keep the resolution of published streams as close to the values set as possible.

On the **Live Transcoding** page of the console, you can view the domain a template is bound to, as well as finer-granularity bindings performed via APIs. You can also [unbind](#) a template here.

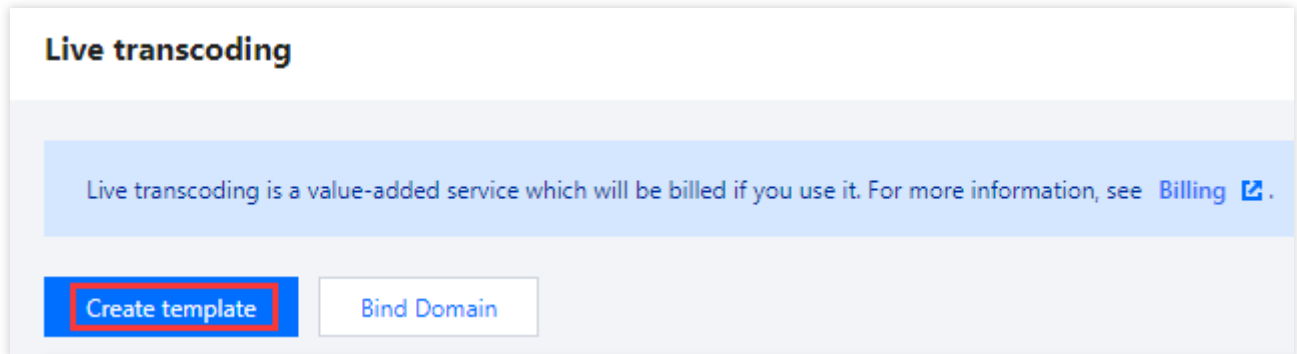
You can bind one playback domain name with **multiple transcoding templates**, or bind one transcoding template with **multiple playback domain names**.

You can create up to **50** transcoding templates.

Creating a Transcoding Template

Creating a standard transcoding template

1. Log in to the CSS console and select **Feature Configuration** > **Live Transcoding**.



2. Click **Create Template**, select **Standard Transcoding** for transcoding type, and complete the following configuration:

Basic configuration: Template name, video bitrate, video resolution and more. For details, see [Basic Configuration for Standard Transcoding](#).

Advanced configuration (optional): Click **Advanced Configuration** to show advanced settings. For details, see [Advanced Configuration for Standard Transcoding](#).

3. Click **Save**.

Basic Configuration for Standard Transcoding

Basic Configuration for Standard Transcoding	Required	Description
Transcoding type	Yes	The optional transcoding types, include standard transcoding, TSC transcoding, or audio-only transcoding.
Template name	Yes	Please enter 1 to 10 characters. The live transcoding template name. It only supports letters and alphanumeric combinations and does not support pure digits. The template name must not duplicate existing transcoding template names, adaptive bitrate template names, or sub-stream names.
Template description	No	The live transcoding template description. It can only contain Chinese characters, letters, digits, spaces, underscores (_), and hyphens (-).
Video quality	No	You can choose Smooth, SD, or HD. After you select a value, the system will automatically enter the recommended

		video bitrate and height, which can be modified.
Video bitrate(in Kbps)	Yes	<p>You can choose to keep the original bitrate, set the video bitrate, or use the default transcoding bitrate.</p> <p>Set the transcoding code rate, value range: 101Kbps - 8000Kbps.</p> <p>If you enter a value not larger than 1,000, it must be a multiple of 100.</p> <p>If you enter a value larger than 1,000, it must be a multiple of 500.</p>
Video resolution (px)	Yes	<p>Choose to keep the original resolution, set by width and height, or set by length.</p> <p>The default is set by long and short sides.</p> <p>The input value is the short side value, which can be switched to width and height settings, and the input value is the height value.</p> <p>Value range: 0-3000. The value must be a multiple of 2. The other side will be auto-scaled.</p>
DRM encryption	No	<p>It is disabled by default and can be enabled manually.</p> <p>To enable DRM encryption, you need to first obtain the key information in</p> <p>DRM Management.</p> <p>DRM encryption of Widevine, FairPlay, and NormalAES are supported for HLS. For FairPlay encryption, you need to upload the certificate you obtain from Apple to your player.</p> <p>Encryption types: default Widevine, optional Fairplay, and NormalAES.</p>

Transcoding Configuration

Transcoding Type

Standard Transcoding

Top Speed Codec Transcoding

Audio-only Transcoding

Template Name *

Enter 1-10 characters

Supports letters and numbers; cannot contain only numbers or be identical to the name of an existing transcoding template or stream.

Template Description

Please describe template

Supports Chinese characters, letters, digits, spaces, and _ -

Video quality

Smooth SD HD

Video Bitrate *

Specify a bitrate ▾

101-8000

kbps

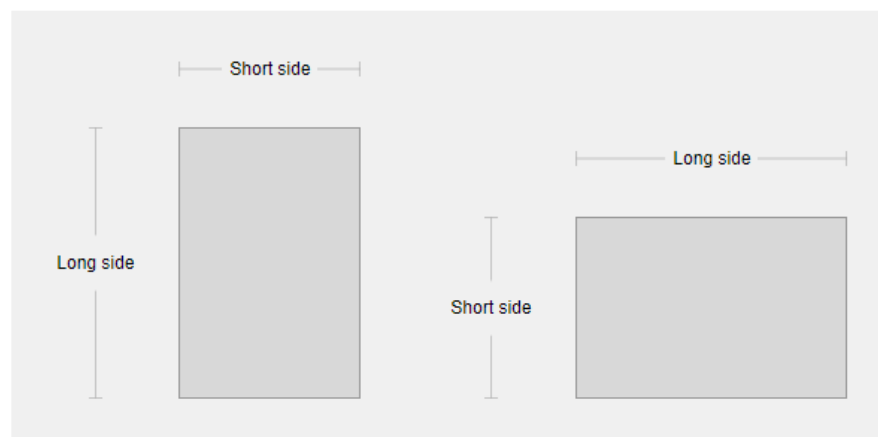
Video Resolution *

Set the short s ▾

Value range: 0-3,000

px

Enter a multiple of 2. The other side will be scaled proportionally according to resolution.



DRM encryption

Supports Widevine, FairPlay, and NormalAES DRM encryption for HLS playback. For FairPlay DRM, you need to upload the certificate you obtained. [Obtaining a FairPlay certificate](#)Before you enable DRM encryption, please go to [DRM Management](#) to configure the key information.

Type *



Widevine



Fairplay



NormalAES

[Advanced Configuration](#) ▾

Advanced Configuration for Standard Transcoding

Advanced Configuration for Standard Transcoding	Required	Description
Codec	No	The original codec is used by default. You can choose H.264, H.265, or AV1.
Video frame rate (fps)	No	You can choose to keep the original frame rate, set the video frame rate, and keep the original frame rate by

		default. Set the video frame rate range: 1fps - 60fps.
GOP(seconds)	No	The GOP setting range is between 1 to 6 seconds. The larger the GOP, the higher the latency; a smaller GOP may potentially lead to stuttering. If not configured, the system default value will be adopted.
Live subtitles	No	The subtitle feature is deactivated by default, but can be manually activated. To activate this feature, it is necessary to bind a subtitle template. Choose a subtitle template to bind based on your business requirements. Preview and observe the effects of the subtitle template. You can adjust the subtitle template according to business needs at any time.
Loudness	No	Through this feature, the volume of the video can be adjusted. The larger the value, the greater the volume. The range for setting the volume loudness is from -40 to -10 LKFS. Currently, the simultaneous configuration of loudness and subtitle features is not supported.
Parameter limit	No	Parameter limits are disabled by default. After a limit is enabled, if you enter a value higher than the original, the original will be used. This can avoid video quality issues caused by using high video quality settings to transcode videos of low quality.

Codec

☒ Original codec
 ☐ H.264
 ☐ H.265
 ☐ AV1

Video Frame Rate

Specify a fram ▾

1-60

fps

GOP

1-6s

s

The larger the GOP, the higher the delay. The lower the GOP, the more likely lagging may occur

Live subtitles

☐

Convert speech in live streaming to text in real time. For details, see [Live Subtitling](#). Using this feature may incur live transcoding fees (cha recognition fees, and speech translation fees (charged by MPS). [Learn more](#)

Loudness

-40~-10

LKFS

The loudness. The larger the value, the louder.

Parameter Limit

The output video height cannot exceed the original height ⓘ ☐

The output frame rate cannot exceed the original frame rate ⓘ ☐

The output bitrate cannot exceed the original bitrate ⓘ ☐

[Advanced Configuration](#) ▲

Save

Cancel

Creating a TSC transcoding template

- Log in to the CSS console and select **Feature Configuration** > [Live Transcoding](#).
- Click **Create Template**, select **Top Speed Codec Transcoding** for transcoding type, and complete the following configuration:

Basic configuration: Template name, video bitrate, video resolution, etc. For details, see [Basic Configuration for TSC Transcoding](#).

Advanced configuration (optional): Click **Advanced Configuration** to show advanced settings. For details, see [Advanced Configuration for Top Speed Codec Transcoding](#).

- Click **Save**.

Basic Configuration for TSC Transcoding

Basic Configuration for TSC Transcoding	Required	Description
Transcoding Type	Yes	The optional transcoding types, include standard transcoding, TSC transcoding, or audio-only transcoding.
Template name	Yes	Please enter 2 to 10 characters. The live transcoding template name. It only supports letters and alphanumeric combinations and does not support pure digits.

		The template name must not duplicate existing transcoding template names, adaptive bitrate template names, or sub-stream names.
Template description	No	The live transcoding template description. It can only contain Chinese characters, letters, digits, spaces, underscores (_), and hyphens (-).
Video quality	No	You can choose Smooth, SD, or HD. After you select a value, the system will automatically enter the recommended video bitrate and height, which can be modified.
Video bitrate(in Kbps)	Yes	<p>You can choose to keep the original bitrate, set the video bitrate, or use the default transcoding bitrate.</p> <p>Set the transcoding code rate, value range: 101Kbps - 8000Kbps.</p> <p>If you enter a value not larger than 1,000, it must be a multiple of 100.</p> <p>If you enter a value larger than 1,000, it must be a multiple of 500.</p>
Video resolution (px)	Yes	<p>Choose to keep the original resolution, set by width and height, or set by length.</p> <p>The default is set by long and short sides.</p> <p>The input value is the short side value, which can be switched to width and height settings, and the input value is the height value.</p> <p>Value range: 0-3000. The value must be a multiple of 2. The other side will be auto-scaled.</p>
DRM encryption	No	<p>It is disabled by default and can be enabled manually.</p> <p>To enable DRM encryption, you need to first obtain the key information in DRM Management.</p> <p>DRM encryption of Widevine, FairPlay, and NormalAES are supported for HLS. For FairPlay encryption, you need to upload the certificate you obtain from Apple to your player.</p> <p>Encryption types: default Widevine, optional Fairplay, and NormalAES.</p>

Transcoding Configuration

Transcoding Type

Standard Transcoding

Top Speed Codec Transcoding

Audio-only Transcoding

Template Name *

2-10 characters

Supports letters and numbers; cannot contain only numbers or be identical to the name of an existing transcoding template or stream.

Template Description

Please describe template

Supports Chinese characters, letters, digits, spaces, and _-

Video quality

Smooth SD HD

Video Bitrate *

Specify a bitrate ▾

101-8000

kbps

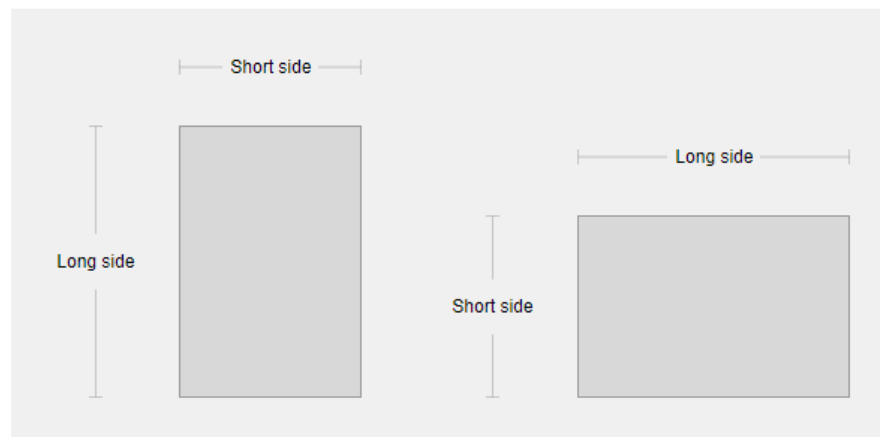
Video Resolution *

Set the short side ▾

Value range: 0-3,000

px

Enter a multiple of 2. The other side will be scaled proportionally according to resolution.



DRM encryption

Supports Widevine, FairPlay, and NormalAES DRM encryption for HLS playback. For FairPlay DRM, you need to upload the certificate you obtained by [Obtaining a FairPlay certificate](#).Before you enable DRM encryption, please go to [DRM Management](#) to configure the key information.

Type *



Widevine



Fairplay



NormalAES

[Advanced Configuration](#) ▾

Advanced Configuration for TSC Transcoding

Advanced Configuration for TSC Transcoding	Required	Description
Codec	No	The original codec is used by default. You can choose H.264, H.265, or AV1.
Video frame rate (fps)	No	You can choose to keep the original frame rate, set the video frame rate, and keep the original frame rate by

		default. Set the video frame rate range: 1fps - 60fps.
GOP(seconds)	No	Value range: 1-6. The larger the GOP, the higher the delay. If this parameter is left empty, the default value will be used. The GOP setting range is between 1 to 6 seconds. The larger the GOP, the higher the latency; a smaller GOP may potentially lead to stuttering. If not configured, the system default value will be adopted.
Live subtitles	No	The subtitle feature is deactivated by default, but can be manually activated. To activate this feature, it is necessary to bind a subtitle template. Choose a subtitle template to bind based on your business requirements. Preview and observe the effects of the subtitle template. You can adjust the subtitle template according to business needs at any time.
Parameter limit	No	It is disabled by default and can be enabled manually. After a limit is enabled, the original value of the input stream will be used if you enter a value larger than the original. This can avoid video quality issues caused by using high video quality settings to transcode videos of low quality.

Codec

☒ Original codec
☐ H.264
☐ H.265
☐ AV1

Video Frame Rate

Specify a frame ▼

1-60

fps

GOP

1-6s

s

The larger the GOP, the higher the delay. The lower the GOP, the more likely lagging may occur

Live subtitles

☐

Convert speech in live streaming to text in real time. For details, see [Live Subtitling](#). Using this feature may incur live transcoding fees (character recognition fees, and speech translation fees (charged by MPS)). [Learn more](#)

Parameter Limit

The output video height cannot exceed the original height ^① ☐

The output frame rate cannot exceed the original frame rate ^① ☐

The output bitrate cannot exceed the original bitrate ^① ☐

Advanced Configuration ▲

Save

Cancel

Creating an Audio-only transcoding template

1. Log in to the CSS console and select **Feature Configuration** > [Live Transcoding](#).
2. Click **Create Template**, select **Audio-only Transcoding** for transcoding type, complete the [configuration](#), and then click **Save**.

Basic Configuration for Audio-only Transcoding	Required	Description
Transcoding type	Yes	The optional transcoding types, include standard transcoding, TSC transcoding, or audio-only transcoding.
Template name	Yes	Please enter 1 to 10 characters. The live transcoding template name. It only supports letters and alphanumeric combinations and does not support pure digits. The template name must not duplicate existing transcoding template names, adaptive bitrate template names, or sub-stream names.
Template description	No	The live transcoding template description. It can only contain Chinese characters, letters, digits, spaces, underscores (_), and hyphens (-).
Audio bitrate (Kbps)	Yes	You can choose to keep the original bitrate or set the audio bitrate, with the default being to keep the original bitrate. To set the audio bitrate, the value range is 101kbps - 500kbps.
Live subtitles	No	The subtitle feature is deactivated by default, but can be manually activated. To activate this feature, it is necessary to bind a subtitle template. Choose a subtitle template to bind based on your business requirements. Preview and observe the effects of the subtitle template. You can adjust the subtitle template according to business needs at any time.
Loudness	No	Through this feature, the volume of the video can be adjusted. The larger the value, the louder the sound. The range for setting the volume loudness is from -40 to -10 LKFS. Currently, the simultaneous configuration of loudness and subtitle features is not supported.
DRM encryption	No	It is disabled by default and can be enabled manually.

To enable DRM encryption, you need to first obtain the key information in [DRM Management](#).
DRM encryption of Widevine, FairPlay, and NormalAES are supported for HLS. For FairPlay encryption, you need to upload the certificate you obtain from Apple to your player.
Encryption types: default **Widevine**, optional Fairplay, and NormalAES.

Transcoding Configuration

Transcoding Type

Standard Transcoding

Top Speed Codec Transcoding

Audio-only Transcoding

Template Name *

Enter 1-10 characters

Supports letters and numbers; cannot contain only numbers or be identical to the name of an existing transcoding template or stream.

Template Description

Please describe template

Supports Chinese characters, letters, digits, spaces, and _ -

Audio Bitrate *

Custom

101-500

kbps

Live subtitles

Convert speech in live streaming to text in real time. For details, see [Live Subtitling](#). Using this feature may incur live transcoding fees (ch: fees, and speech translation fees (charged by MPS). [Learn more](#)

Loudness

-40~-10

LKFS

The loudness. The larger the value, the louder.

DRM encryption

Supports Widevine, FairPlay, and NormalAES DRM encryption for HLS playback. For FairPlay DRM, you need to upload the certificate you obt [Obtaining a FairPlay certificate](#)
Before you enable DRM encryption, please go to [DRM Management](#) to configure the key information.

Type *

Widevine

Fairplay

NormalAES

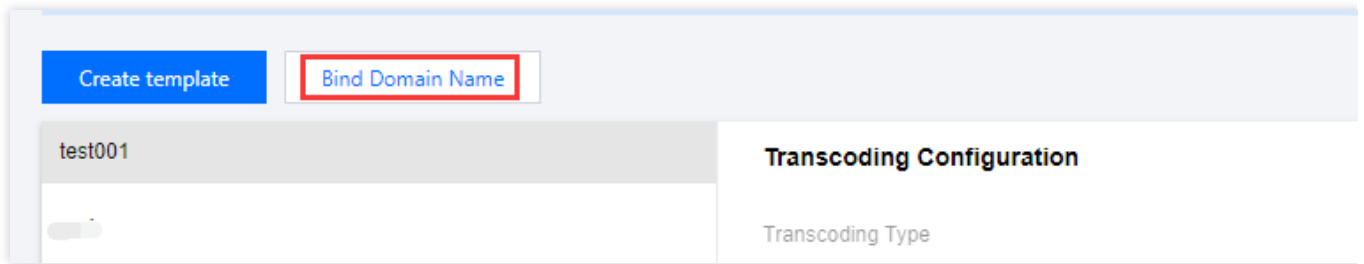
Save

Cancel

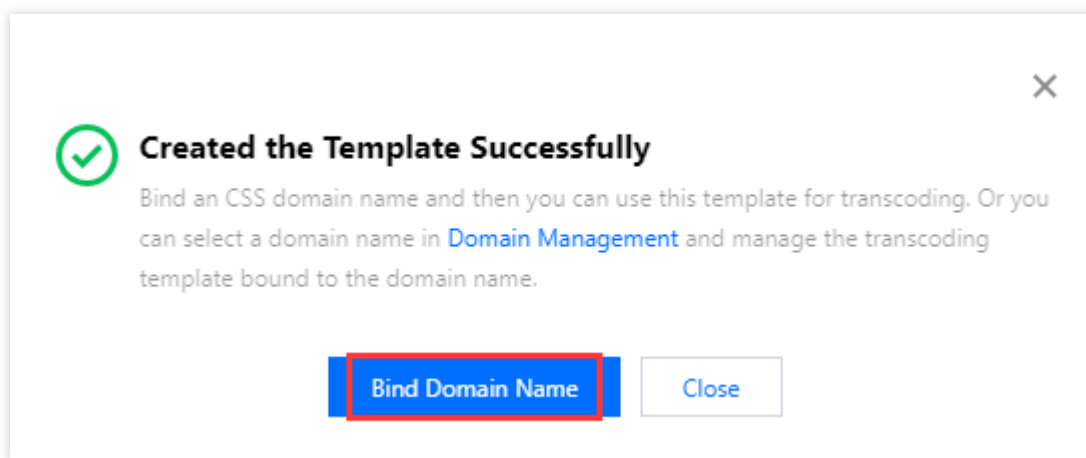
Binding a Domain Name

1. Log in to the CSS console and select **Feature Configuration** > [Live Transcoding](#).
2. Bind a domain name in either of two ways:

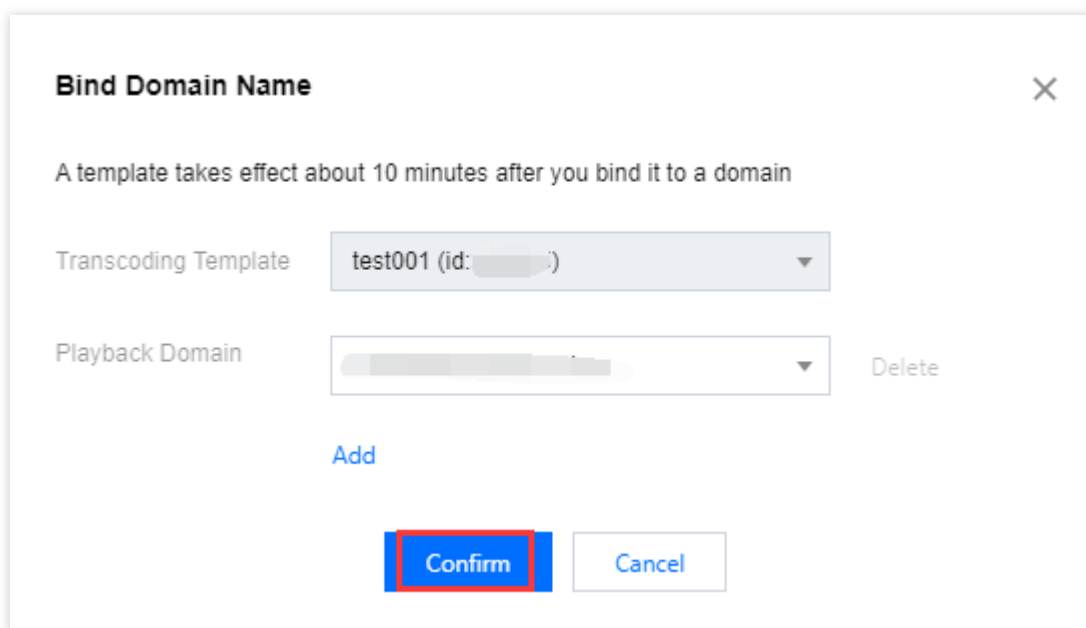
Bind a domain to an existing template: Click **Bind Domain Name** in the top left.



Bind a domain name after creating a transcoding template: After [creating a template](#), click **Bind Domain Name** in the pop-up window.



3. Select a transcoding template and a playback domain in the domain binding window and then click **Confirm**.



Note

You can click **Add** to bind a template to multiple playback domains.

Unbinding a Domain Name

1. Log in to the CSS console and select **Feature Configuration** > [Live Transcoding](#).
2. Select the target template and click **Unbind**.

Transcoding Configuration

Transcoding Type	Standard Transcoding
Template Name	test001
Template ID	
Template Description	-
Video Bitrate	2000 kbps
Video Resolution	Short side:1000 px Long side: scale proportionally
Live subtitles	Close
DRM encryption	Enable
Type	widevine
Track	AUDIO UHD1
Video Encoding	Original codec
Video Frame Rate	30 fps
The output video height cannot exceed the original height	Yes
The output frame rate cannot exceed the original frame rate	No
The output bitrate cannot exceed the original bitrate	No
Keyframe Interval/GOP	2 s
Loudness	-10 LKFS

Bound Domain Names **Unbind**

3. In the pop-up window, click **Confirm**.

Are You Sure You Want to Unbind This Template from the Domain Name? ✕

After unbinding, current live streaming will not be affected while this operation will be valid for live streams pushed in the future.

Confirm

Cancel

Modifying a Template

1. Log in to the CSS console and select **Feature Configuration** > [Live Transcoding](#).
2. Select the target transcoding template and click **Edit** on the right to modify it.

Transcoding Configuration

Transcoding Type	Standard Transcoding
Template Name	test001
Template ID	
Template Description	-
Video Bitrate	2000 kbps
Video Resolution	Short side:1000 px Long side: scale proportionally
Live subtitles	Close
DRM encryption	Enable
Type	widevine
Track	AUDIO UHD1
Video Encoding	Original codec
Video Frame Rate	30 fps
The output video height cannot exceed the original height	Yes
The output frame rate cannot exceed the original frame rate	No
The output bitrate cannot exceed the original bitrate	No
Keyframe Interval/GOP	2 s
Loudness	-10 LKFS

Bound Domain Names  [Unbind](#)

3. After modification, click **Save**.

Deleting a Template

Note

If a template has been bound to domains, you need to [unbind](#) them before you can delete the template.

1. Log in to the CSS console and select **Feature Configuration** > [Live Transcoding](#).
2. Select the target template (make sure it's not bound to a domain), and click **Delete**.

Transcoding Configuration

Transcoding Type	Standard Transcoding
Template Name	test001
Template ID	
Template Description	-
Video Bitrate	2000 kbps
Video Resolution	Short side:1000 px Long side: scale proportionally
Live subtitles	Close
DRM encryption	Enable
Type	widevine
Track	AUDIO UHD1
Video Encoding	Original codec
Video Frame Rate	30 fps
The output video height cannot exceed the original height	Yes
The output frame rate cannot exceed the original frame rate	No
The output bitrate cannot exceed the original bitrate	No
Keyframe Interval/GOP	2 s
Loudness	-10 LKFS

Bound Domain Names **None**

3. In the pop-up window, click **Confirm**.

Delete transcoding configuration ×

Confirm to delete transcoding configuration: test001 ?

Confirm Cancel

More

You can also **unbind** and **bind** domains and transcoding templates on the **Domain Management** page. For details, see [Template Configuration](#).

Live Recording

Recording to VOD

Last updated : 2024-06-13 16:39:47

CSS supports recording live streams and storing recording files in VOD for download and preview. This document describes how to create, bind, unbind, modify, and delete recording templates.

You can create a recording template in two ways:

In the CSS console: For detailed directions, see [Creating a Recording Template](#).

Using an API: For the API parameters and examples, see [CreateLiveRecordTemplate](#).

Notes

Recording files are saved in [VOD](#) by default. Please activate VOD first. To avoid service suspension due to overdue payments, you can also buy VOD storage packages in advance. For more information, see [Getting Started with VOD](#). After enabling the recording feature, please make sure that your VOD service is in normal status. If it is not activated or is suspended due to overdue payments, live recording will fail. No recording files will be generated. Nor will fees be incurred.

A recording file is available in about five minutes after recording ends. For example, if you start recording a live stream at 12:00 and stop at 12:30, you can get the recording at around 12:35.

Limited by the support of audio and video file formats (FLV/MP4/HLS) for codec types, you can only use the H.264 and H.265 video codec and the AAC audio codec.

After creating a recording template, you can bind it with push domain names. For detailed directions, see [Recording Configuration](#). The binding takes effect in about 5-10 minutes.

For the naming rules of generated recording files, see [VodFileName](#).

Binding, unbinding, or modifying a template affects only new live streams and not ongoing ones. To make the change apply to ongoing live streams, you need to stop them and push them again.

Mixed-stream recording does not support mixing streams inside the Chinese mainland with those outside. It will cause an error and playback will fail.

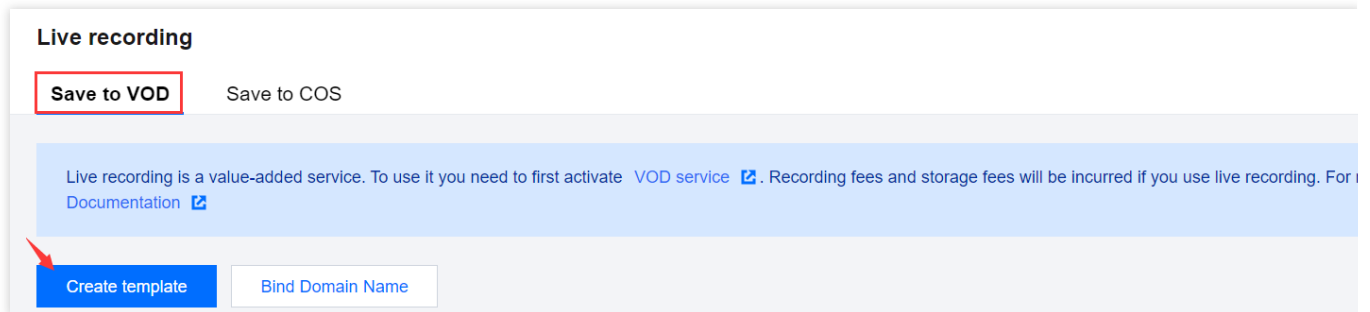
Prerequisites

You have activated CSS and added a [push domain](#).

You have activated the [VOD service](#).

Creating a Recording Template

1. Log in to the CSS console and select **Feature Configuration** > [Live Recording](#) on the left sidebar.
2. In the live recording settings, choose **Save to VOD**.



3. Click **Create template** to set the template information and proceed with the following configurations:

Basic recording configuration: This includes the template name, recording content, recording format, and other configuration items. For details, see [Basic Recording Configuration Instructions](#).

Basic recording format configuration: This includes HLS file segmentation, max recording time per file, resumption timeout, and other configuration items. For details, see [Basic Recording Format Configuration Instructions](#).

(Optional) **Advanced recording format configuration:** By clicking **Advanced Configuration**, you can access and select additional configurations. For details, see [Advanced Recording Format Configuration Instructions](#).

Upon completion, click **Save**.

Basic Recording Configuration Instructions

Note:

When recording the original stream via WebRTC streaming, both HLS and MP4 formats can record and play audio normally, but the FLV format will lose audio. It is recommended to select HLS or MP4 format.

When an audio-only transcoding template is selected during specified transcoded stream recording, the HLS/FLV/MP4 recording file will miss the initial 2 seconds of content due to format conversion. Please plan your push and recording schedule accordingly.

Initiating a transcoding task is required for recording transcoded streams, which will incur additional transcoding costs. However, if the same transcoding template is used for playback, charges will not be duplicated.

Recording Configuration

Template Name *

test001



Only supports letters, digits, underscores, and dashes

Template Description

Please describe template

Supports Chinese characters, letters, digits, spaces, and _-

Recording Content *

☒ Original stream ⓘ☒ Watermarked stream ⓘ☒ Transcoded and watermarked stream ⓘ[Change Template](#)

Template Name/ID	Template Type	Video Encoding	Video Bitrate	Dimensions
test001()	Standard Transco...	Original codec	2000 kbps	Short side 1000 px

For the recording content, if multiple options are selected, multiple recordings will be initiated, and various recording files will be generat

Time zone

☒ UTC+8 ☐ UTC

The time in the filename will be in UTC+8

Recording Format *

Video Format

☐ HLS ☐ FLV ☐ MP4

Audio Format

☐ AAC ⓘ

Save

Cancel

Basic Configuration Item		Description
Template Name		The template name, which can contain Chinese characters, letters, digits, underscores (_), and hyphens (-).
Template Description		The template description, which can contain Chinese characters, letters, digits, underscores (_), and hyphens (-).
Recording Content	Original stream	Record videos before transcoding, watermarking, and stream mixing.
	Watermarked stream	Record videos after they are watermarked according to the specified watermark template.
	Transcoded and watermarked stream	Click Transcoded and watermarked stream . You can select an existing transcoding template or click the name of a template to modify its configuration.

Choosing this configuration will automatically initiate transcoding based on the transcoding template ID after push, and recording will proceed. If the transcoding template has been mistakenly deleted, the effect will be the same as recording content as watermarked streams. Time zone	You can select UTC+8 or UTC . When UTC+8 is selected as the timezone, the naming of the recording files will use the UTC+8 time. When UTC is selected as the timezone, the naming of the recording files will use the UTC time.
Recording Format	Videos can be output in formats of HLS, MP4, FLV, and AAC (for audio-only recording).

Basic Recording Format Configuration Instructions

Note:

Since the recording file is uploaded as it is recorded, it is impossible to ascertain the end time before uploading, preventing the inclusion of the end time in the file name.

Enabling simultaneous recording and uploading ensures files are uploaded immediately after recording ends. A single recording file supports a duration of up to 12 hours and enhances FLV recording's disaster recovery capability.

Playback files may experience lag when being dragged for online playback, but this does not affect local playback.

1. Select the recording content and formats and complete the following settings:

Recording Content • ☒ Original stream ⓘ ☒ Watermarked stream ⓘ ☒ Transcoded and watermarked stream ⓘ [Change Template](#)

Template Name/ID	Template Type	Video Encoding	Video Bitrate	Dimensions
test(.....)	Standard Transc...	H.264	2000 kbps	Short side 1080 px

For the recording content, if multiple options are selected, multiple recordings will be initiated, and various recording files will be generated.

Time zone ☒ UTC+8 ☐ UTC

The time in the filename will be in UTC+8

Recording Format •

Video Format

☒ HLS ☒ FLV ☐ MP4

Audio Format

☐ AAC ⓘ

▼ Audio/Video - HLS

Recording File Configuration

HLS File Segmentation ⓘ ☒

Max Recording Time Per File • 120 min

Resumption Timeout 1-1800 sec
This value will affect when to generate a recording file.

Storage Period ☒ Permanent ☐ Custom

VOD Subapplication/Category PrimaryApplication SystemDefault/

[Advanced Configuration](#) ▶

▼ Audio/Video - FLV

Recording File Configuration

Max Recording Time Per File 1-720 minutes min

Storage Period ☒ Permanent ☐ Custom

VOD Subapplication/Category PrimaryApplication SystemDefault/

[Advanced Configuration](#) ▶

Basic Recording Format Configuration Item	Description
HLS File Segmentation	<p>The HLS file segmentation feature is disabled by default. If post-processing services are needed, it is recommended to enable HLS file segmentation and set the duration of individual HLS recording files.</p> <p>If HLS file segmentation is enabled, the duration of individual HLS recording files can be configured, allowing for the definition of the duration of files produced by post-recording processing.</p> <p>If HLS file segmentation is disabled, recording will continue uninterrupted until the live stream ends. If post-recording processing has been configured, it will be initiated after the recording is complete.</p>
Max Recording Time Per File	Audio/Video - HLS format

(min)	<p>There is no upper limit on the recording duration of a file in HLS format. If the waiting time for continuation of recording is exceeded, a new recording file will be generated to continue recording.</p> <p>When an HLS recording file is saved to VOD, the duration of a single TS file is set to 60 seconds by default.</p> <p>When HLS file segmentation is enabled, the duration of a single HLS recording file can range from 1 to 720 minutes.</p> <p>Audio/Video - FLV format</p> <p>The duration of a single file recorded in FLV format is limited to 1 to 720 minutes.</p> <p>Audio/Video - MP4 format</p> <p>The duration of a single file recorded in MP4 format is limited to 1 to 120 minutes.</p> <p>Audio-only - AAC Format</p> <p>The duration of a single file recorded in AAC format is limited to 1 to 120 minutes.</p>
Resumption Timeout (sec)	<p>The resumption timeout period directly affects the time it takes to generate a recording file.</p> <p>When the interval of stream interruption does not exceed the set resumption timeout period, a single live stream will generate only one file. However, the recording file will be received after the resumption timeout period has elapsed, and recording costs will be incurred during the resumption timeout period. Please set a reasonable resumption timeout period.</p> <p>Only HLS format supports resuming recording after stream interruptions, with the resumption timeout period being configurable from 1 to 1,800 seconds.</p>
Storage Period (days)	<p>You can select Permanent to save a recording file permanently or Custom to specify a storage period (up to 1,500 days). If you set the period to 0, recording files will be saved permanently.</p> <p>If a specified time is chosen, in accordance with national regulations, operators must record live video content and ensure storage backup. It is recommended to store recording files for 60 days to 3 years.</p>
VOD Subapplication/Category	<p>Recording to a specified VOD category in VOD application is supported. By default, the recording is stored in the main application of the account, and only applications with an open write status are supported.</p>

2. Click **Save**.

Advanced Recording Format Configuration Instructions

1. You can switch between different tabs to view the configuration requirements for Audio/Video - HLS format, Audio/Video - FLV format, Audio/Video - MP4 format, and Audio-only - AAC format.

Audio/Video - HLS Format

Audio/Video - FLV Format

Audio/Video - MP4 Format

Audio-only - AAC Format

Recording Format *

Video Format

☒ HLS ☐ FLV ☐ MP4

Audio Format

☐ AAC ⓘ

▼ Audio/Video - HLS

Recording File Configuration

HLS File Segmentation ⓘ

☒

Max Recording Time Per File *

min

Resumption Timeout

sec

This value will affect when to generate a recording file.

Storage Period

☐ Permanent ☒ Custom days

VOD Subapplication/Category

Post-Recording Process Configuration

Post-Recording Processing ⓘ

☒

Post-Recording Process Content

☐ Original stream ☒ Watermarked stream ☒ Transcoded and watermarked stream

Template N...	Template T...	Video Enco...	Video Bitrate	Dimensions
<input checked="" type="checkbox"/> test(Standard Tr...	H.264	2000 kbps	Short side 1...

VOD Task Flow

[Change](#) [Cancel](#)

[Advanced Configuration ▲](#)

Recording Format

Video Format

☐ HLS ☒ FLV ☐ MP4

Audio Format

☐ AAC

Audio/Video - FLV

Recording File Configuration

Max Recording Time Per File

1-720 minutes

min

Storage Period

☐ Permanent ☒ Custom

0-1500

days

VOD Subapplication/Category

PrimaryApplication

SystemDefault/

Upload while recording

☒

Post-Recording Process Configuration

Post-Recording Processing

☒

Post-Recording Process Content

☐ Original stream ☒ Watermarked stream ☒ Transcoded and watermarked stream

Template N...	Template T...	Video Enco...	Video Bitrate	Dimensions	
<input checked="" type="checkbox"/>	test(Standard Tr...	H.264	2000 kbps	Short side 1...

VOD Task Flow

Change Cancel

Advanced Configuration

Recording Format •

Video Format

☐ HLS ☐ FLV ☒ MP4

Audio Format

☐ AAC ?

▼ Audio/Video - MP4

Recording File Configuration

Max Recording Time Per File min

Storage Period ☐ Permanent ☒ Custom days

VOD Subapplication/Category

Post-Recording Process Configuration

Post-Recording Processing ? ☒

Post-Recording Process Content

☒ Original stream ☒ Watermarked stream ☒ Transcoded and watermarked stream

Template N...	Template T...	Video Enco...	Video Bitrate	Dimensions
<input checked="" type="checkbox"/> test()	Standard Tr...	H.264	2000 kbps	Short side 1...

VOD Task Flow [Change](#) [Cancel](#)

[Advanced Configuration](#) ▲

After you select this format, AAC files will be generated when audio-only or quasi-audio/video live streams are pushed.

Recording Format • Video Format

☐ HLS
 ☐ FLV
 ☐ MP4

Audio Format

☒ AAC ⓘ

▼ Audio-only - AAC

Recording File Configuration

Max Recording Time Per File min

Storage Period ☐ Permanent ☒ Custom days

VOD Subapplication/Category

Post-Recording Process Configuration

Post-Recording Processing ⓘ ☒

Post-Recording Process Content ☒ Original stream ☐ Watermarked stream ☐ Transcoded and watermarked stream

Template N...	Template T...	Video Enco...	Video Bitrate	Dimensions
<input type="checkbox"/> test(Standard Tr...	H.264	2000 kbps	Short side 1...

VOD Task Flow [Change](#) [Cancel](#)

[Advanced Configuration ▲](#)

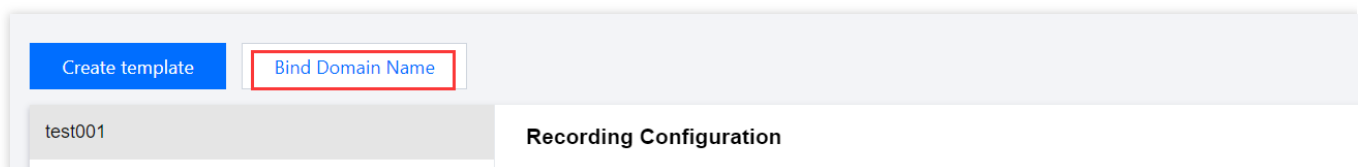
Advanced Configuration Item	Description
Post-Recording Process Configuration	<p>The post-recording processing feature is disabled by default. You can manually enable this feature based on your business needs.</p> <p>After enabling post-recording processing, no post-recording process content is selected by default. You need to manually select the corresponding process content.</p> <p>When HLS, FLV, MP4, and AAC audio and video formats are enabled with post-recording processing, the on-demand task flow cannot be empty.</p> <p>You can cancel or change the VOD task flow . You can click to select the bound task flow and choose a task flow already created under the VOD application, or click the task flow name on the current VOD task flow selection page to go to the VOD console to add/modify the task flow configuration.</p> <p>After the task flow is successfully bound, the VOD task flow template will be executed after the recording file is generated, incurring corresponding video on demand fees.</p>
Upload while recording	<p>The upload while recording feature is disabled by default. You can manually enable this feature based on your business needs.</p> <p>Currently, only the FLV format supports the upload while recording feature. Once enabled, it allows immediate upload of files after recording ends, supports a</p>

recording file duration of up to 12 hours, and enhances FLV recording's disaster recovery capability. Playback files may experience lag when being dragged for online playback, but this does not affect local playback.

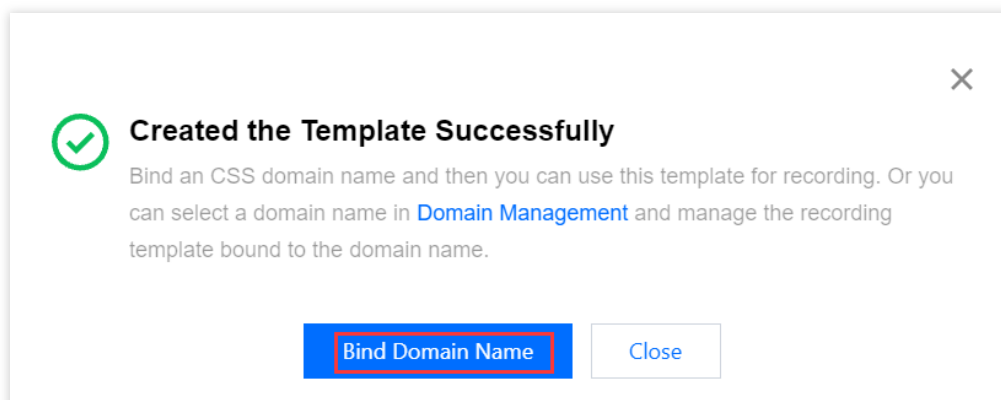
Binding a Domain Name

1. Log in to the CSS console and select **Feature Configuration** > [Live Recording](#) on the left sidebar.

Bind a domain to an existing template: Click **Bind Domain Name** in the top left.



Bind a domain after creating a template: After [creating a template](#), click **Bind Domain Name** in the dialog box that pops up.



2. In the pop-up window, select a **recording template** and a **push domain** and then click **Confirm**.

Bind Domain Name ✕

Domain name binding takes effect in about 10 minutes after the configuration. Using the domain name for push will trigger the template.

Recording Template

test001 (id:) ▼

Push Domain

Please select ▼

Delete

Add

Confirm

Cancel

Note:

You can click **Add** to bind multiple push domains to a template.

Unbinding a Domain Name

1. Log in to the CSS console and select **Feature Configuration** > [Live Recording](#) on the left sidebar.
2. Select a recording template bound with domain names, find the target domain name, and click **Unbind**.

Bind Domain Name ✕

Domain name binding takes effect in about 10 minutes after the configuration. Using the domain name for push will trigger the template.

Recording Template

test001 (id:) ▼

Push Domain

Please select ▼

Delete

Add

Confirm

Cancel

3. In the pop-up window, click **Confirm**.

Are You Sure You Want to Unbind This Template from the Domain Name? ✕

After unbinding, current live streaming will not be affected while this operation will be valid for live streams pushed in the future.

Confirm

Cancel

Note:

Unbinding a recording template will not affect ongoing live streams.

To cancel recording for ongoing streams, stop the streams and push them again.

Modifying a Template

1. Go to **Feature Configuration** > [Live Recording](#).
2. Select the target recording template, click **Edit** on the right, modify the settings, and click **Save**.

Recording Configuration

Delete Edit

Template Name

test001

Template ID

Template Description

Recording Content

Original stream, Watermarked stream, Transcoded and watermarked stream (Transcoding template ID:)

Recording Format

HLS FLV MP4

Time zone

UTC+8

Recording Configuration

Audio/Video - HLS

Recording File Configuration

HLS File Segmentation

Enable

Max Recording Time Per File

120 min

Resumption Timeout

60 sec

Storage Period

30 days

VOD Storage Path

PrimaryApplication - SystemDefault/

Storage Policy

STANDARD ①

Post-Recording Process Configuration

Post-Recording Processing

Enable

Post-Recording Process Content

Specific transcoding stream recording with watermark (transcoding template ID:), Watermarked stream

VOD Task Flow

Audio/Video - FLV

Recording File Configuration

Max Recording Time Per File

300 min

Storage Period

Permanent

VOD Storage Path

PrimaryApplication - SystemDefault/

Storage Policy

STANDARD ①

Upload while recording

Enable

Post-Recording Process Configuration

Post-Recording Processing

Enable

Post-Recording Process Content

Specific transcoding stream recording with watermark (transcoding template ID:), Watermarked stream

VOD Task Flow

Audio/Video - MP4

Recording File Configuration

Max Recording Time Per File

60 min

Storage Period

180 days

VOD Storage Path

PrimaryApplication - SystemDefault/

Storage Policy

STANDARD ①

Post-Recording Process Configuration

Post-Recording Processing

Enable

Post-Recording Process Content

Original stream, Specific transcoding stream recording with watermark (transcoding template ID:), Watermarked stream

VOD Task Flow

Bound Domain Names

Unbind

Deleting a Template

Note:

If domain names are bound to a template, you need to [unbind](#) them before you can delete the template.

Once a template is deleted, it cannot be restored. Please proceed with caution.

In the console, recording templates are managed at the domain level. To unbind recording rules bound to streams by APIs, call [DeleteLiveRecordRule](#).

1. Log in to the CSS console and select **Feature Configuration** > [Live Recording](#) on the left sidebar.
2. Select the target recording template, and click **Delete** in the upper right.

Recording Configuration

Delete

Template Name
test001

Template ID
[redacted]

Template Description

Recording Content
Original stream, Watermarked stream, Transcoded and watermarked stream (Transcoding template ID: [redacted])

Recording Format
HLS FLV MP4

Time zone
UTC+8

Recording Configuration

Audio/Video - HLS

Recording File Configuration

HLS File Segmentation
Enable

Max Recording Time Per File
120 min

Resumption Timeout
300 sec

Storage Period
30 days

VOD Storage Path
[redacted]

Storage Policy
STANDARD ⓘ

Post-Recording Process Configuration

Post-Recording Processing
Enable

Post-Recording Process Content
Specific transcoding stream recording with watermark (transcoding template ID: [redacted]), Watermarked stream

VOD Task Flow
[redacted]

Audio/Video - FLV

Recording File Configuration

Max Recording Time Per File
60 min

Storage Period
60 days

VOD Storage Path
[redacted]

Storage Policy
STANDARD ⓘ

Upload while recording
Enable

Post-Recording Process Configuration

Post-Recording Processing
Enable

Post-Recording Process Content
Specific transcoding stream recording with watermark (transcoding template ID: [redacted]), Watermarked stream

VOD Task Flow
[redacted]

Audio/Video - MP4

Recording File Configuration

Max Recording Time Per File
30 min

Storage Period
Permanent

VOD Storage Path
[redacted]

Storage Policy
STANDARD ⓘ

Post-Recording Process Configuration

Post-Recording Processing
Enable

Post-Recording Process Content
Original stream, Specific transcoding stream recording with watermark (transcoding template ID: [redacted]), Watermarked stream

VOD Task Flow
[redacted]

Bound Domain Names
None

3. In the pop-up window, click **Confirm**.

Delete recording configuration

×

Confirm to delete configurationtest001 ?

Confirm

Cancel

More

For more information about **binding** and **unbinding** a domain name, see [Recording Configuration](#).

FAQs

How are recording files named?

If a recording template is created in the console, the names of recording files (the names returned by the recording callback) are in the following format:

```
{StreamID}*{StartYear}-{StartMonth}-{StartDay}-{StartHour}-{StartMinute}-{StartSecond}*{EndYear}-{EndMonth}-{EndDay}-{EndHour}-{EndMinute}-{EndSecond}
```

Fields:

Placeholder	Description
{StreamID}	The stream ID.
{StartYear}	The start time - year.
{StartMonth}	The start time - month.
{StartDay}	The start time - day.
{StartHour}	The start time - hours.
{StartMinute}	The start time - minutes.
{StartSecond}	The start time - seconds.
{EndYear}	The end time - year.
{EndMonth}	The end time - month.
{EndDay}	The end time - day.
{EndHour}	The end time - hours.
{EndMinute}	The end time - minutes.
{EndSecond}	The end time - seconds.

Recording to COS

Last updated : 2024-06-25 15:05:52

With CSS, you can record a live stream and save the recording file to VOD or COS. This document shows you how to record to Cloud Object Storage (COS).

Notes

To record to COS, you need to activate COS first. We recommend you buy a storage package in advance to avoid service suspension caused by overdue payments. For details, see [COS > Getting Started](#).

After enabling the recording feature, please make sure that your COS service is in normal status. If COS is not activated or is suspended due to overdue payments, live recording will fail. No recording files will be generated. Nor will fees be incurred.

A recording file is available about five minutes after recording ends. For example, if you start recording a live stream at 12:00 and stop at 12:30, you can get the recorded video at around 12:35.

After creating a recording template, you need to bind it to a push domain. For detailed directions, see "Recording Configuration". The template takes effect 5-10 minutes after binding.

Mixed-stream recording does not support mixing streams inside the Chinese mainland with streams outside. Doing so will cause an error and playback of the recording file will fail.

CSS needs permissions to store recording files in COS. Before you use the record-to-COS feature, make sure you have granted the necessary permission. If recording to COS fails due to insufficient permissions, the video cannot be recovered. For how to grant the permission, see "Authorizing CSS to Store Recording Files in COS".

Due to the default traffic and QPS limits of COS storage buckets, if your estimated concurrent push streams exceed 5000, please [Submit a Ticket](#) to adjust the QPS limit to avoid affecting the normal use of your business.

If you do not specify a recording template when initiating a recording task, the recording file will be saved to VOD.

When storing recorded content in COS and the storage folder includes the stream ID, please ensure the legality of the stream ID aligns with the naming conventions of COS folders/files to prevent file saving failures. For details on COS object naming conventions, refer to the [Naming Conventions Document](#).

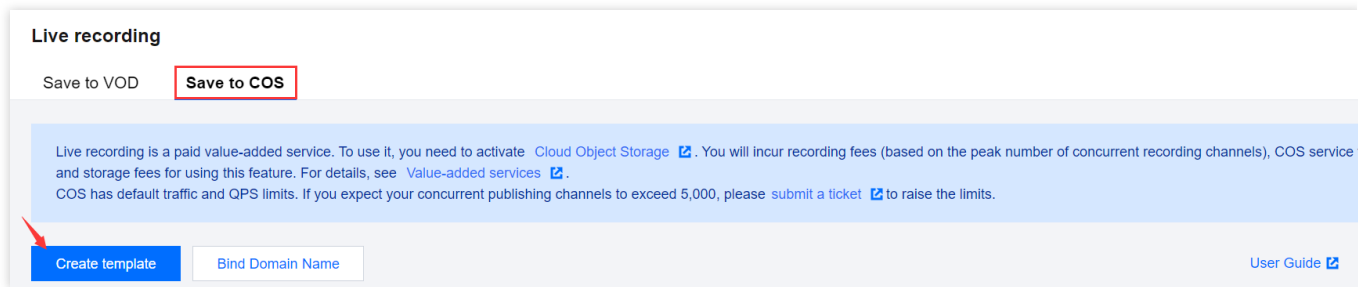
Prerequisites

You have activated CSS and added a [push domain](#).

You have activated [COS](#).

Creating a Recording Template

1. Log in to the CSS console and select **Feature Configuration** > [Live Recording](#) on the left sidebar.
2. Select **Save to COS**.



3. Click **Create template** to set the template information and proceed with the following configurations:
Basic recording configuration: This includes the template name, recording content, recording format, and other configuration items. For details, see [Basic Recording Configuration Instructions](#).
Basic recording format configuration: This includes HLS file segmentation, max recording time per file, resumption timeout, and other configuration items. For details, see [Basic Recording Format Configuration Instructions](#).
(Optional) Advanced recording format configuration: By clicking **Advanced Configuration**, you can access and select additional configurations. For details, see [Advanced Recording Format Configuration Instructions](#).
4. Upon completion, click **Save**.

Basic Recording Configuration Instructions

Note:

When recording the original stream via WebRTC streaming, both HLS and MP4 formats can record and play audio normally, but the FLV format will lose audio. It is recommended to select HLS or MP4 format.

When an audio-only transcoding template is selected during specified transcoded stream recording, the HLS/FLV/MP4 recording file will miss the initial 2 seconds of content due to format conversion. Please plan your push and recording schedule accordingly.

Initiating a transcoding task is required for recording transcoded streams, which will incur additional transcoding costs. However, if the same transcoding template is used for playback, charges will not be duplicated.

Recording Configuration

Template Name * 

Only supports letters, digits, underscores, and dashes

Template Description

Supports Chinese characters, letters, digits, spaces, and _-

Recording Content * ☒ Original stream ⓘ ☒ Watermarked stream ⓘ ☒ Transcoded and watermarked stream ⓘ [Change Template](#)

Template Name/ID	Template Type	Video Encoding	Video Bitrate	Dimensions
test(001)	Standard Transc...	H.264	2000 kbps	Short side 1080 px

For the recording content, if multiple options are selected, multiple recordings will be initiated, and various recording files will be generated.

Time zone ☒ UTC+8 ☐ UTC

The time in the filename will be in UTC+8

Recording Format * Video Format
☐ HLS ☐ FLV ☐ MP4

Audio Format

☐ AAC ⓘ

Save

Cancel

Basic Configuration Item		Description
Template Name		The template name, which can contain letters, digits, underscores (_), and hyphens (-).
Template Description		The template description, which can be customized and can contain Chinese and English characters, digits, spaces, underscores (_), and hyphens (-).
Recording Content	Original stream	The recording video records the original stream by default and retains its original bitrate. Record videos before transcoding, watermarking, and stream mixing. For WebRTC streams, please select other content types, because the audio playback may be not compatible.
	Watermarked stream	Record videos after they are watermarked according to the specified watermark template. If no watermark template is configured, original streams will be recorded.
	Transcoded and watermarked stream	Click Transcoded and watermarked stream . You can select an existing transcoding template or click the name of a template to modify its configuration.

		Choosing this configuration will automatically initiate transcoding based on the transcoding template ID after push, and recording will proceed. If the transcoding template has been mistakenly deleted, the effect will be the same as recording content as watermarked streams.
Time zone		You can select UTC+8 or UTC . When UTC+8 is selected as the timezone, the naming of the recording files will use the UTC+8 time. When UTC is selected as the timezone, the naming of the recording files will use the UTC time.
Recording Format		Videos can be output in formats of HLS, MP4, FLV, and AAC (for audio-only recording).

Basic Recording Format Configuration Instructions

Note:

Since the recording file is uploaded as it is recorded, it is impossible to ascertain the end time before uploading, preventing the inclusion of the end time in the file name.

Enabling simultaneous recording and uploading ensures files are uploaded immediately after recording ends. A single recording file supports a duration of up to 12 hours and enhances FLV recording's disaster recovery capability.

Playback files may experience lag when being dragged for online playback, but this does not affect local playback.

1. Select the recording content and formats and complete the following settings:

Recording Content

☒ Original stream ⓘ
 ☒ Watermarked stream ⓘ
 ☒ Transcoded and watermarked stream ⓘ
 [Change Template](#)

Template Name/ID	Template Type	Video Encoding	Video Bitrate	Dimensions
test({})	Standard Transc...	H.264	2000 kbps	Short side 1080 px

For the recording content, if multiple options are selected, multiple recordings will be initiated, and various recording files will be generated.

Time zone: ☒ UTC+8 ☐ UTC
The time in the filename will be in UTC+8

Recording Format

Video Format

☒ HLS
 ☒ FLV
 ☐ MP4

Audio Format

☐ AAC ⓘ

Audio/Video - HLS

Recording File Configuration

HLS File Segmentation ⓘ

☒

Max Recording Time Per File

min

Resumption Timeout

sec

This value will affect when to generate a recording file.

Storage path

Storage path

Click to choose a path

Click the above input box to choose a path

Region

Backup storage path

☐

In case of failure to save recording files to the primary storage path due to network jitter, the backup path will be used. After the primary path recovers, the recording files saved in the backup path will be automatically uploaded to the primary path. The backup and primary paths must be in different regions.

Folder ⓘ

{RecordSource}/{Domain}/{AppName}/{StreamID}/{Recordid}/{StartYear}-{StartMonth}-{StartDay}-{StartHour}-{StartMinute}-{StartSecond}

Use default

Supports letters, numbers, and special characters /{}_-

[Advanced Configuration](#)

Audio/Video - FLV

Recording File Configuration

Max Recording Time Per File

min

Storage path

Storage path

Click to choose a path

Click the above input box to choose a path

Region

Backup storage path

☐

In case of failure to save recording files to the primary storage path due to network jitter, the backup path will be used. After the primary path recovers, the recording files saved in the backup path will be automatically uploaded to the primary path. The backup and primary paths must be in different regions.

Folder ⓘ

{RecordSource}/{Domain}/{AppName}/{StreamID}/{Recordid}/{StartYear}-{StartMonth}-{StartDay}-{StartHour}-{StartMinute}-{StartSecond}

Use default

[Advanced Configuration](#)

Basic
Recording
Format
Configuration
Item

Description

HLS File

The HLS file segmentation feature is disabled by default. If post-processing services are needed,

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Segmentation	<p>it is recommended to enable HLS file segmentation and set the duration of individual HLS recording files.</p> <p>If HLS file segmentation is enabled, the duration of individual HLS recording files can be configured, allowing for the definition of the duration of files produced by post-recording processing.</p> <p>If HLS file segmentation is disabled, recording will continue uninterrupted until the live stream ends. If post-recording processing has been configured, it will be initiated after the recording is complete.</p>
Max Recording Time Per File (min)	<p>Audio/Video - HLS format</p> <p>There is no upper limit on the recording duration of a file in HLS format. If the waiting time for continuation of recording is exceeded, a new recording file will be generated to continue recording.</p> <p>When an HLS recording file is saved to COS, the duration of a single TS file is set to 10 seconds by default.</p> <p>When HLS file segmentation is enabled, the duration of a single HLS recording file can range from 1 to 720 minutes.</p> <p>Audio/Video - FLV format</p> <p>The duration of a single file recorded in FLV format is limited to 1 to 720 minutes.</p> <p>Audio/Video - MP4 format</p> <p>The duration of a single file recorded in MP4 format is limited to 1 to 120 minutes.</p> <p>Audio-only - AAC format</p> <p>The duration of a single file recorded in AAC format is limited to 1 to 120 minutes.</p>
Resumption Timeout (sec)	<p>The resumption timeout period directly affects the time it takes to generate a recording file.</p> <p>When the interval of stream interruption does not exceed the set resumption timeout period, a single live stream will generate only one file. However, the recording file will be received after the resumption timeout period has elapsed, and recording costs will be incurred during the resumption timeout period. Please set a reasonable resumption timeout period.</p> <p>Only HLS format supports resuming recording after stream interruptions, with the resumption timeout period being configurable from 1 to 1,800 seconds.</p>
Storage path	<p>You can select a COS bucket from buckets that you have created and completed authorization in Cloud Object Storage.</p> <p>The region is the region of the mentioned bucket, which cannot be modified.</p>
Backup storage path	<p>The backup storage path feature is disabled by default. You can manually enable this feature according to your business needs.</p> <p>When network jitter prevents the recording file from being stored in the primary storage path, the system will automatically store it in the backup storage path to prevent file loss. Once the primary storage path is restored, the recording file in the backup storage path will be automatically synchronized to the primary storage path. The primary and secondary regions cannot be the same.</p>
Folder	<p>The default storage folder</p> <p>is <code>{RecordSource}/{Domain}/{AppName}/{StreamID}/{RecordId}/{StartYear}-</code></p>

{StartMonth}-{StartDay}-{StartHour}-{StartMinute}-{StartSecond}.

{RecordSource} indicates the content type. If the original stream is recorded, this is "origin".

If a transcoded stream is recorded, this is the transcoding template ID.

{StartYear} indicates the starting year.

{StartMonth} indicates the starting month.

{StartDay} indicates the starting day.

{StartMinute} indicates the starting minute.

{StartSecond} indicates the starting second.

{Domain} indicates the push domain.

{AppName} indicates the push path.

{StreamID} indicates the stream ID.

{RecordId} indicates the recording task ID, which is returned by the CreateRecordTask API.

(/) indicates folder levels. (-) is an ordinary character.

2. Click **Save**.

Advanced Recording Format Configuration Instructions

1. Log in to the CSS console and select **Feature Configuration** > **Live recording** > [Save to COS](#) > Create template > Recording Format > Advanced Configuration.

Note:

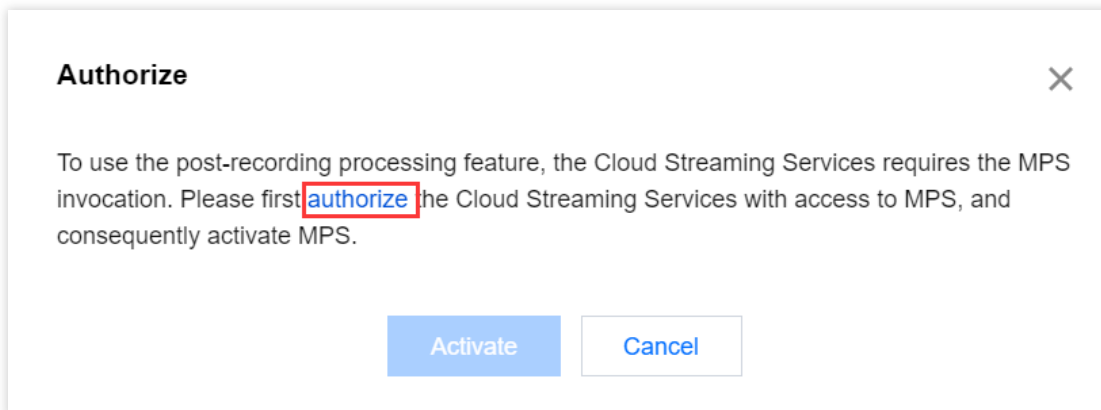
Post-Recording Process Configuration

Post-recording MPS

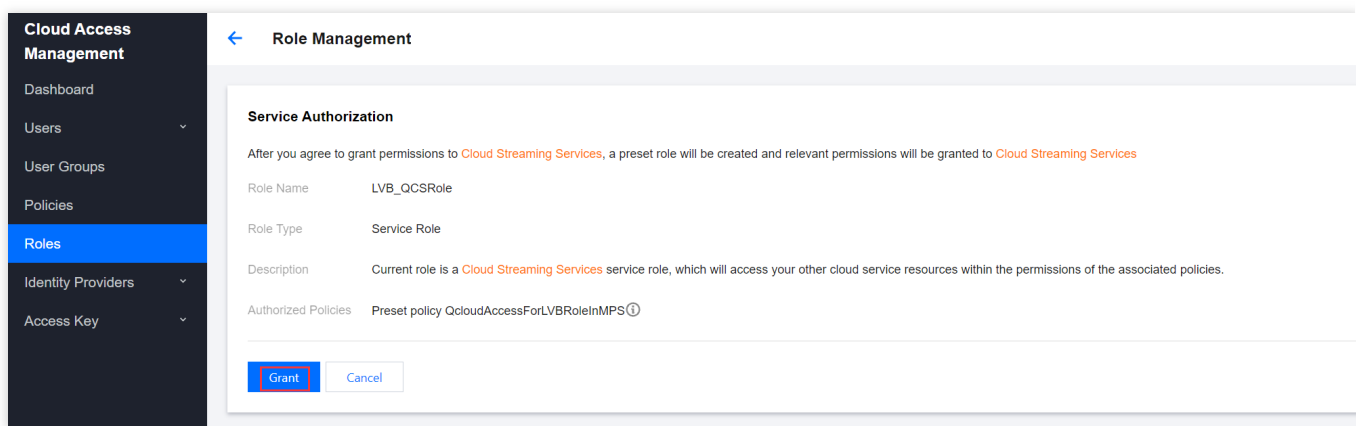


Prerequisite: Since this is the **first time activating the post-recording MPS feature**, the Cloud Streaming Services console needs to call the Media Processing Service (MPS), requiring you to create a service role and [authorize](#) the current account role to use the MPS product.

2. Click **authorize** to enter the CAM role management page.



3. On the role management page, click **Grant** to complete the identity verification and finalize the MPS authorization, enabling normal use of the MPS.



4. After successful authorization, the system will automatically activate the MPS product and display the Save to COS page.

5. Choose **Create template > Recording Format > Advanced Configuration** , and proceed with the following configuration:

5.1 You can switch between different tabs to view the configuration requirements for Audio/Video - HLS format, Audio/Video - FLV format, Audio/Video - MP4 format, and Audio-only - AAC format.

Audio/Video - HLS Format

Audio/Video - FLV Format

Audio/Video - MP4 Format

Audio-only - AAC Format

Recording Format

Video Format

☒ HLS ☐ FLV ☐ MP4

Audio Format

☐ AAC

Audio/Video - HLS

Recording File Configuration

HLS File Segmentation

☒

Max Recording Time Per File

min

Resumption Timeout

sec

This value will affect when to generate a recording file.

Storage path

Storage path

Click the above input box to choose a path

Region

Backup storage path

☐

In case of failure to save recording files to the primary storage path due to network jitter, the backup path will be used. After the primary path recovers, the recording file saved in the backup path will be automatically uploaded to the primary path. The backup and primary paths must be in different regions.

Folder

{RecordSource}/{Domain}/{AppName}/{StreamID}/{RecordId}/{StartYear}-{StartMonth}-{StartDay}-{StartHour}-{StartMinute}-{StartSecond}

Use default

Supports letters, numbers, and special characters /{}_-

Post-Recording Process Configuration

Post-recording MPS

☒

Post-Recording Process Content

☒ Original stream ☒ Watermarked stream ☒ Transcoded and watermarked stream

Template N...	Template T...	Video Enco...	Video Bitrate	Dimensions
<input checked="" type="checkbox"/>	Standard Tr...	Original codec	2000 kbps	Short side 1...

Selection of MPS Orchestration

Advanced Configuration

Recording Format *

Video Format

☐ HLS ☒ FLV ☐ MP4

Audio Format

☐ AAC ⓘ

▼ Audio/Video - FLV

Recording File Configuration

Max Recording Time Per File

1-720 minutes

min

Storage path *

Storage path *

Click the above input box to choose a path

Region *

ap-singapore

Backup storage path

☐

In case of failure to save recording files to the primary storage path due to network jitter, the backup path will be used. After the primary path recovers, the recording file saved in the backup path will be automatically uploaded to the primary path. The backup and primary paths must be in different regions.

Folder ⓘ

{RecordSource}/{Domain}/{AppName}/{StreamID}/{RecordId}/{StartYear}-{StartMonth}-{StartDay}-{StartHour}-{StartMinute}-{StartSecond}

Use default

Supports letters, numbers, and special characters /()_-

Upload while recording ⓘ

☒

Post-Recording Process Configuration

Post-recording MPS ⓘ

☒

Post-Recording Process Content

☒ Original stream ☒ Watermarked stream ☒ Transcoded and watermarked stream

	Template N...	Template T...	Video Enco...	Video Bitrate	Dimensions
<input checked="" type="checkbox"/>		Standard Tr...	Original codec	2000 kbps	Short side 1...

Selection of MPS Orchestration

☐ Change Cancel

Advanced Configuration ▲

Recording Format

Video Format

☐ HLS ☐ FLV ☒ MP4

Audio Format

☐ AAC

Audio/Video - MP4

Recording File Configuration

Max Recording Time Per File

1-120 min

Storage path

Storage path

Click the above input box to choose a path

Region

ap-singapore

Backup storage path

Storage path

Click to choose a path

Click the above input box to choose a path

Region

In case of failure to save recording files to the primary storage path due to network jitter, the backup path will be used. After the primary path recovers, the recording file saved in the backup path will be automatically uploaded to the primary path. The backup and primary paths must be in different regions.

Folder

{RecordSource}/{Domain}/{AppName}/{StreamID}/{RecordId}/{StartYear}-{StartMonth}-{StartDay}-{StartHour}-{StartMinute}-{StartSecond}

Use default

Supports letters, numbers, and special characters /()_-

Post-Recording Process Configuration

Post-recording MPS

☒ ☐ ☐

Post-Recording Process Content

Template N...	Template T...	Video Enco...	Video Bitrate	Dimensions
<input type="checkbox"/>	Standard Tr...	Original codec	2000 kbps	Short side 1...

Selection of MPS Orchestration

Change Cancel

Advanced Configuration

After you select this format, AAC files will be generated when audio-only or quasi-audio/video live streams are pushed.

Recording Format •

Video Format

☐ HLS
☐ FLV
☐ MP4

Audio Format

☒ AAC ⓘ

▼ Audio-only - AAC

Recording File Configuration

Max Recording Time Per File

1-120
min

Storage path •

Storage path •

Click the above input box to choose a path

Region •

ap-singapore

Backup storage path

☒

Storage path •

Click to choose a path

Click the above input box to choose a path

Region •

In case of failure to save recording files to the primary storage path due to network jitter, the backup path will be used. After the primary path recovers, the recording files saved in the backup path will be automatically uploaded to the primary path. The backup and primary paths must be in different regions.

Folder ⓘ

{RecordSource}/{Domain}/{AppName}/{StreamID}/{RecordId}/{StartYear}-{StartMonth}-{StartDay}-{StartHour}-{StartMinute}-{StartSecond}

Use default

Post-Recording Process Configuration

Post-recording MPS ⓘ

☒

Post-Recording Process Content

☒ Original stream
☐ Watermarked stream
☐ Transcoded and watermarked stream

Template N...	Template T...	Video Enco...	Video Bitrate	Dimensions
<input type="checkbox"/>	Standard Tr...	Original codec	2000 kbps	Short side 1...

Selection of MPS Orchestration

☐ Change Cancel

Advanced Configuration ▲

Advanced Configuration Item	Description
Post-Recording Process Configuration	<p>The post-recording MPS feature is disabled by default. You can manually enable this feature based on your business needs.</p> <p>After enabling the post-recording MPS, no post-recording process content is selected by default. You need to manually select the corresponding process content.</p> <p>When HLS, FLV, MP4, and AAC audio and video formats are enabled with post-recording processing, MPS orchestration cannot be empty.</p>

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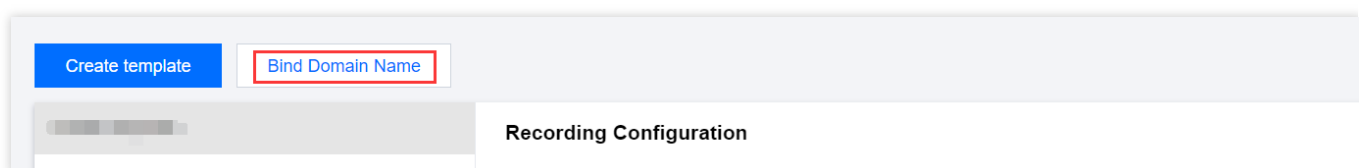
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	<p>After enabling the post-recording MPS, you can use the MPS orchestration to transcode, repackage, and perform a series of other post-processing services on the original recording files. The storage setting for the processed files is determined by the MPS orchestration task settings, while the original recording files are still retained.</p> <p>You can cancel or change the MPS orchestration . You can click to select the bound MPS orchestration and choose an orchestration already created under the MPS orchestration application, or click the orchestration name on the current MPS orchestration selection page to go to the MPS console to add/modify the orchestration configuration.</p> <p>After the orchestration is successfully bound, the MPS template will be executed after the recording file is generated, incurring corresponding Media Processing fees.</p>
Upload while recording	<p>The upload while recording feature is disabled by default. You can manually enable this feature based on your business needs.</p> <p>Currently, only the FLV format supports the upload while recording feature . Once enabled, it allows immediate upload of files after recording ends, supports a recording file duration of up to 12 hours, and enhances FLV recording's disaster recovery capability. Playback files may experience lag when being dragged for online playback, but this does not affect local playback.</p>

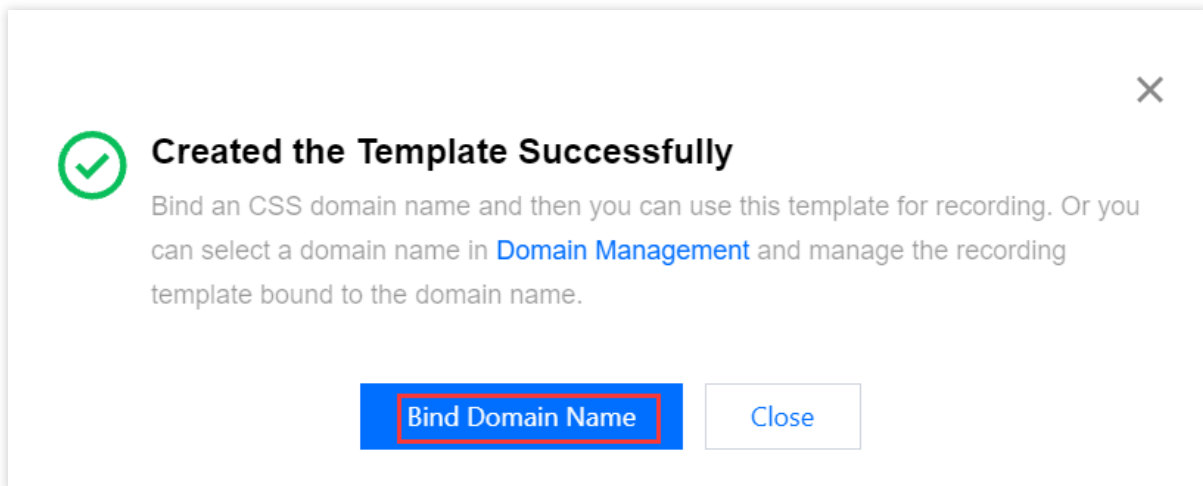
Binding a Domain Name

1. Log in to the CSS console, select **Feature Configuration** > [Live Recording](#) on the left sidebar, and click **Save to COS**.

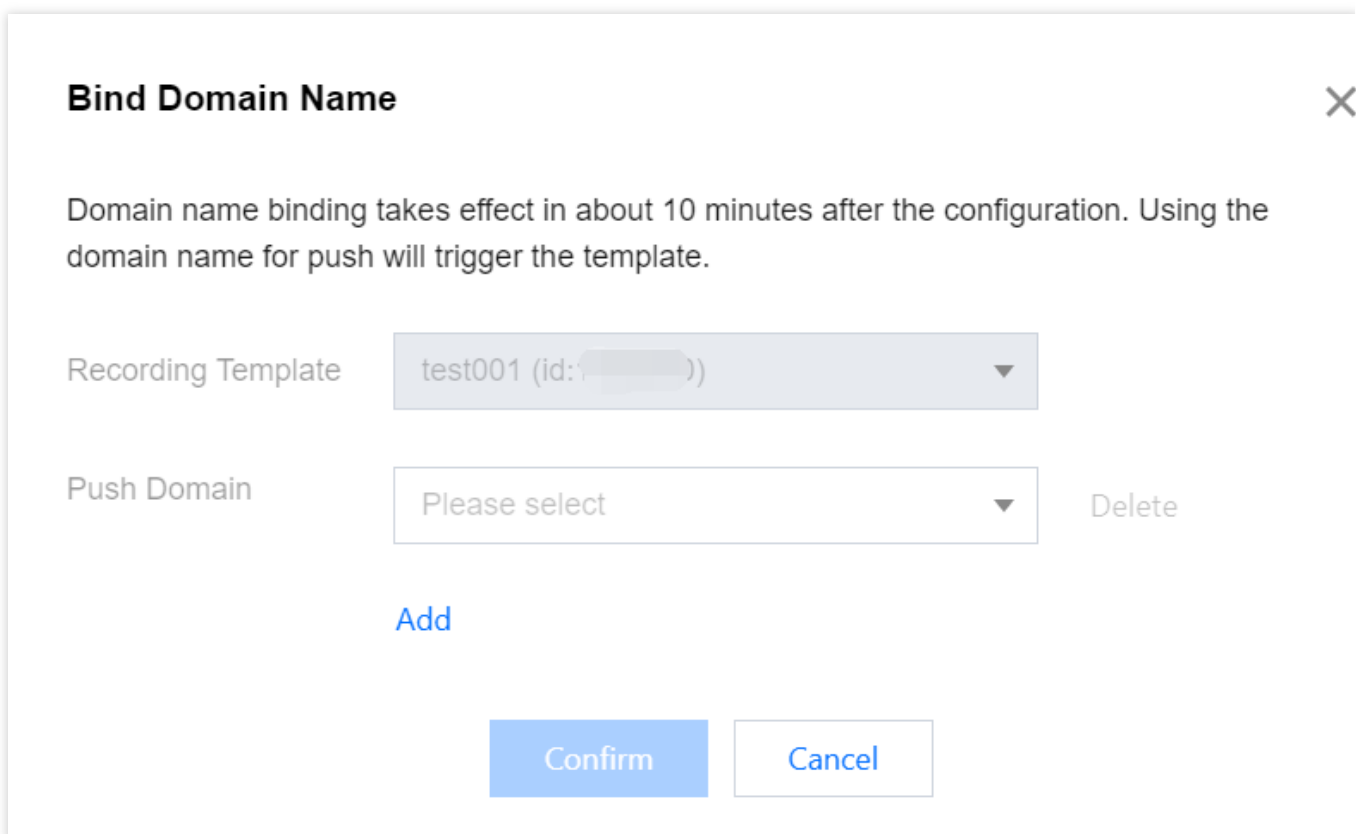
Bind a domain to an existing template: Click **Bind Domain Name** in the top left.



Bind a domain after creating a template: After creating a template, click **Bind Domain Name** in the dialog box that pops up.



2. In the pop-up window, select a **Recording template** and a **Push domain** and then click **Confirm**.



Note:

You can click **Add** to bind multiple push domains to a template.

Unbinding a Domain Name

1. Log in to the CSS console, select **Feature Configuration** > **Live Recording** on the left sidebar, and click **Save to COS**.
2. Select a recording template bound with domain names, find the target domain name, and click **Unbind**.

Recording ConfigurationDeleteEdit

Template Name
test001

Template ID
[redacted]

Template Description

Recording Content
Original stream, Watermarked stream, Transcoded and watermarked stream (Transcoding template ID: [redacted])

Recording Format
HLS FLV MP4

Time zone
UTC+8

Recording Configuration

Audio/Video - HLS

Recording File Configuration

HLS File Segmentation
Enable

Max Recording Time Per File
120 min

Resumption Timeout
0 sec

Storage path
[redacted]

Folder
{RecordSource}/{Domain}/{AppName}/{StreamID}/{RecordId}/{StartYear}-{StartMonth}-{StartDay}-{StartHour}-{StartMinute}-{StartSecond}

Post-Recording Process Configuration

Post-Recording Processing
Enable

Post-Recording Process Content
Original stream, Specific transcoding stream recording with watermark (transcoding template ID: [redacted]), Watermarked stream

MPS Orchestration
[redacted]

Audio/Video - FLV

Recording File Configuration

Max Recording Time Per File
120 min

Storage path
[redacted]

Folder
{RecordSource}/{Domain}/{AppName}/{StreamID}/{RecordId}/{StartYear}-{StartMonth}-{StartDay}-{StartHour}-{StartMinute}-{StartSecond}

Upload while recording
Enable

Post-Recording Process Configuration

Post-Recording Processing
Enable

Post-Recording Process Content
Specific transcoding stream recording with watermark (transcoding template ID: [redacted]), Watermarked stream

MPS Orchestration
[redacted]

Audio/Video - MP4

Recording File Configuration

Max Recording Time Per File
60 min

Storage path
[redacted]

Folder
{RecordSource}/{Domain}/{AppName}/{StreamID}/{RecordId}/{StartYear}-{StartMonth}-{StartDay}-{StartHour}-{StartMinute}-{StartSecond}

Post-Recording Process Configuration

Post-Recording Processing
Enable

Post-Recording Process Content
Specific transcoding stream recording with watermark (transcoding template ID: [redacted]), Watermarked stream

MPS Orchestration
[redacted]

Bound Domain Names [redacted] **Unbind**

3. In the pop-up window, click **Confirm**.

Are You Sure You Want to Unbind This Template from the Domain Name? ✕

After unbinding, current live streaming will not be affected while this operation will be valid for live streams pushed in the future.

Confirm

Cancel

Note:

Unbinding the recording template will not affect ongoing live streams.

To cancel recording for ongoing streams, stop the streams and push them again.

Modifying a Template

1. Go to **Feature Configuration > Live Recording** and select **Save to COS**.
2. Select the target recording template and click **Edit** on the right to modify the template information.
3. Click **Save**.

Recording Configuration

Delete

Template Name

test001

Template ID

Template Description

Recording Content

Original stream, Watermarked stream, Transcoded and watermarked stream (Transcoding template ID:361135)

Recording Format

HLS FLV MP4

Time zone

UTC+8

Recording Configuration

Audio/Video - HLS

Recording File Configuration

HLS File Segmentation

Enable

Max Recording Time Per File

120 min

Resumption Timeout

0 sec

Storage path

Folder

{RecordSource}/{Domain}/{AppName}/{StreamID}/{RecordId}/{StartYear}-{StartMonth}-{StartDay}-{StartHour}-{StartMinute}-{StartSecond}

Post-Recording Process Configuration

Post-Recording Processing

Enable

Post-Recording Process Content

Original stream, Specific transcoding stream recording with watermark (transcoding template ID:), Watermarked stream

MPS Orchestration

Audio/Video - FLV

Recording File Configuration

Max Recording Time Per File

120 min

Storage path

Folder

{RecordSource}/{Domain}/{AppName}/{StreamID}/{RecordId}/{StartYear}-{StartMonth}-{StartDay}-{StartHour}-{StartMinute}-{StartSecond}

Upload while recording

Enable

Post-Recording Process Configuration

Post-Recording Processing

Enable

Post-Recording Process Content

Specific transcoding stream recording with watermark (transcoding template ID:), Watermarked stream

MPS Orchestration

Audio/Video - MP4

Recording File Configuration

Max Recording Time Per File

60 min

Storage path

Folder

{RecordSource}/{Domain}/{AppName}/{StreamID}/{RecordId}/{StartYear}-{StartMonth}-{StartDay}-{StartHour}-{StartMinute}-{StartSecond}

Post-Recording Process Configuration

Post-Recording Processing

Enable

Post-Recording Process Content

Specific transcoding stream recording with watermark (transcoding template ID:), Watermarked stream

MPS Orchestration

Bound Domain Names

Unbind

Deleting a Template

Note:

If the template has been associated, you need to first [unbind it](#) before you can delete it. Once a template is deleted, it cannot be restored. Please proceed with caution.

The management of recording templates in the console is at the domain name level, and currently, it is impossible to cancel the rules created by the associated interface. If you have associated a specific stream through the recording management interface, you will need to call [Delete Recording Rule](#) to unbind it.

1. Log in to the CSS console, select **Feature Configuration > Live Recording** on the left sidebar, and click **Save to COS**.
2. Select the target recording template, and click **Delete** in the upper right.

Recording Configuration Delete Edit

Template Name

test001

Template ID

Template Description

Recording Content

Original stream, Watermarked stream, Transcoded and watermarked stream (Transcoding template ID:)

Recording Format

HLS

FLV

MP4

Time zone

UTC+8

Recording Configuration

Audio/Video - HLS

Recording File Configuration

HLS File Segmentation

Enable

Max Recording Time Per File

120 min

Resumption Timeout

0 sec

Storage path

Folder

{RecordSource}/{Domain}/{AppName}/{StreamID}/{RecordId}/{StartYear}-{StartMonth}-{StartDay}-{StartHour}-{StartMinute}-{StartSecond}

Post-Recording Process Configuration

Post-Recording Processing

Enable

Post-Recording Process Content

Original stream, Specific transcoding stream recording with watermark (transcoding template ID:), Watermarked stream

MPS Orchestration

AV1

Audio/Video - FLV

Recording File Configuration

Max Recording Time Per File

120 min

Storage path

Folder

{RecordSource}/{Domain}/{AppName}/{StreamID}/{RecordId}/{StartYear}-{StartMonth}-{StartDay}-{StartHour}-{StartMinute}-{StartSecond}

Upload while recording

Enable

Post-Recording Process Configuration

Post-Recording Processing

Enable

Post-Recording Process Content

Specific transcoding stream recording with watermark (transcoding template ID:), Watermarked stream

MPS Orchestration

Audio/Video - MP4

Recording File Configuration

Max Recording Time Per File

60 min

Storage path

Folder

{RecordSource}/{Domain}/{AppName}/{StreamID}/{RecordId}/{StartYear}-{StartMonth}-{StartDay}-{StartHour}-{StartMinute}-{StartSecond}

Post-Recording Process Configuration

Post-Recording Processing

Enable

Post-Recording Process Content

Specific transcoding stream recording with watermark (transcoding template ID:), Watermarked stream

MPS Orchestration

Bound Domain Names

None

3. In the pop-up window, click **Confirm**.

Delete recording configuration

Confirm to delete configurationtest001 ?

Confirm

Cancel

More

You can also **unbind** and **bind** domains and recording templates on the **Domain Management** page. For details, see [Recording Configuration](#).

Time Shifting

Time Shifting

Last updated : 2024-07-16 09:36:23

Time shifting is powered by the recording capability of CSS. It allows users to rewind and play earlier parts of a live stream. This is commonly used to play back highlights of live streamed sports events.

Notes

After creating a time shifting template, you need to bind it to a push domain. The configuration takes effect 5-10 minutes after binding.

When enabling the new live time-shifting feature, billing will be based on the [Time-shift Data Write Volume](#). Using the new live time-shifting feature will also generate [Live Streaming Traffic Bandwidth Fees](#) and [Live Transcoding Fees](#). To timeshift a transcoded live stream, you need to configure a transcoding task for the stream in advance. This will incur transcoding fees. Please make sure the transcoding template used is not deleted.

When writing time-shift transcoded stream data, transcoding will be initiated first, generating [Live Transcoding Fees](#). Please make sure that the selected transcoding template has not been accidentally deleted, otherwise, the accidentally deleted time-shift transcoded stream will not be playable. No transcoding fees will be generated when playing the time-shift transcoded stream.

Prerequisites

You have activated CSS and added a [push domain name](#).

Creating a Time Shifting Template

1. Log in to the CSS console and select **Feature Configuration** > [Time Shifting](#) on the left sidebar.
2. Click **Create template** to set the template information and configure the following settings:

Time shifting

[Template](#)
[Time shifting details](#)

Time shifting is a paid value-added service. For the billing details, see [documentation](#).

Create template

Bind Domain Name

Create Template

Time shifting configuration

Template Name *

Enter 1-10 characters

Only supports letters, digits, underscores, and dashes

Template Description

Supports Chinese characters, letters, digits, spaces, and _-

Region *

Outside Chinese mainland

Cross-region time shifting may lead to stuttering or playback failure.

Stream type *

☐ Original stream

The original stream (not transcoded, watermarked, or mixed) is timeshifted. For WebRTC streams, time shifting the original stream may cause audio stream" or "Transcoded stream".

☐ Watermarked stream

The watermarked stream (watermarked as specified in the selected watermark template) is timeshifted.

☐ Transcoded stream

Transcoding fees will be incurred

The transcoded stream (transcoded as specified in the selected transcoding templates) is timeshifted. If a transcoding template is deleted, time shi

Time-shift days *

7 days

TS segment length

-

5

+

sec

[Advanced Configuration](#)

Save

Cancel

Item		Description
Template Name		The time shifting template name, which can be 1-10 characters long and can contain Chinese characters, letters, numbers, and _-
Template Description		The introduction and description of the live broadcast time shift template can be customized (only Chinese, English, numbers, spaces, __, - are supported).
Region		By default, outside Chinese mainland, Hong Kong, Macao, and Taiwan regions are supported, with the option to select Chinese mainland. Please bind the correct time-shift playback acceleration region, as cross-regional time-shift playback may result in lagging or inability to pull the stream.
Stream type	Original stream	If you choose this configuration, the time-shift content will not have transcoding, watermark, or mixed-stream effects. For time-shift content with WebRTC push, the audio may not be compatible with some players. It is recommended to choose "Watermarked Stream" or "Transcoded Stream".

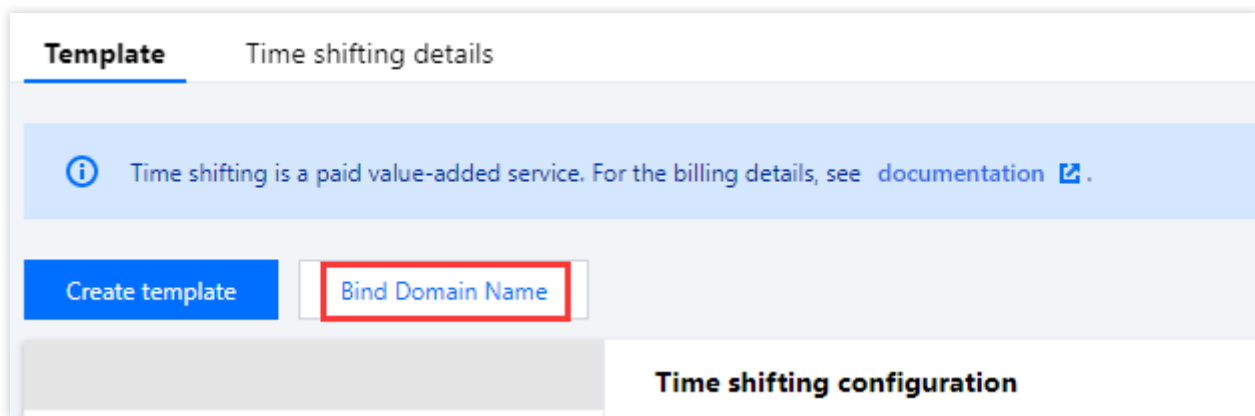
	Watermarked stream	The watermarked stream (watermarked as specified in the selected watermark template) is timeshifted.
	Transcoded stream	When selecting this configuration, the time-shift video content will be the content after transcoding according to the transcoding template ID. If the transcoding template is deleted, the time-shift playback content will become invalid. Transcoded streams will generate Transcoding Fees .
Time-shift days		The default is 7 days, with options to choose 1 day, 3 days, 15 days, and 30 days.
TS segment length		The default length is five seconds. You can set it to a value between 3 and 10.

3. After completing the input, click **Save** to confirm.

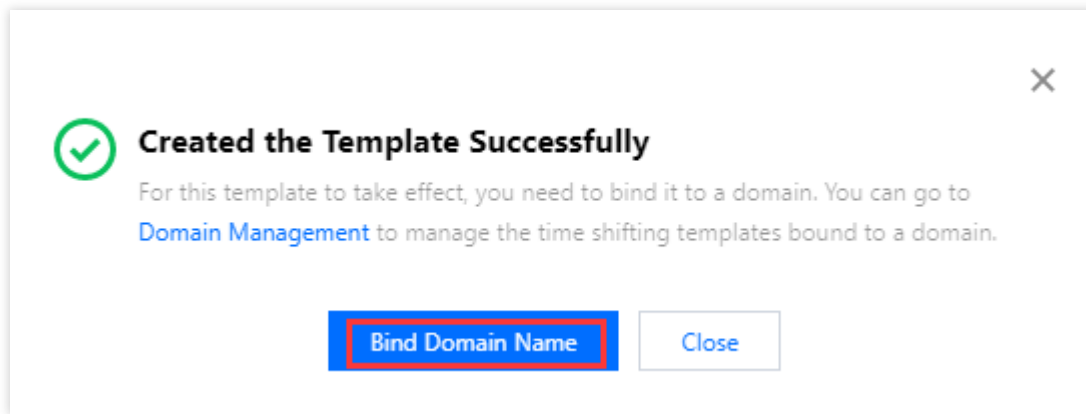
Binding a Domain Name

1. Log in to the CSS console, and select **Feature Configuration** > [Time Shifting](#) on the left sidebar.

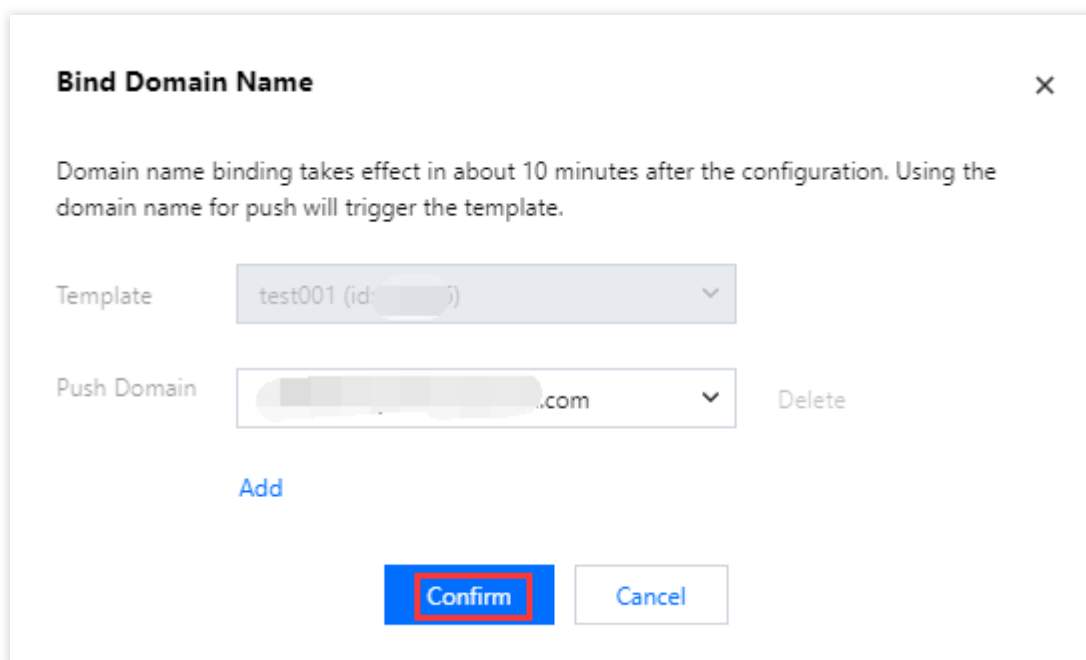
Bind a domain to an existing template: Click **Bind Domain Name** in the top left.



Bind a domain after creating a template: After [creating a template](#), click **Bind Domain Name** in the dialog box that pops up.



2. In the pop-up window, select a **time shifting template** and a **push domain** and then click **Confirm**.

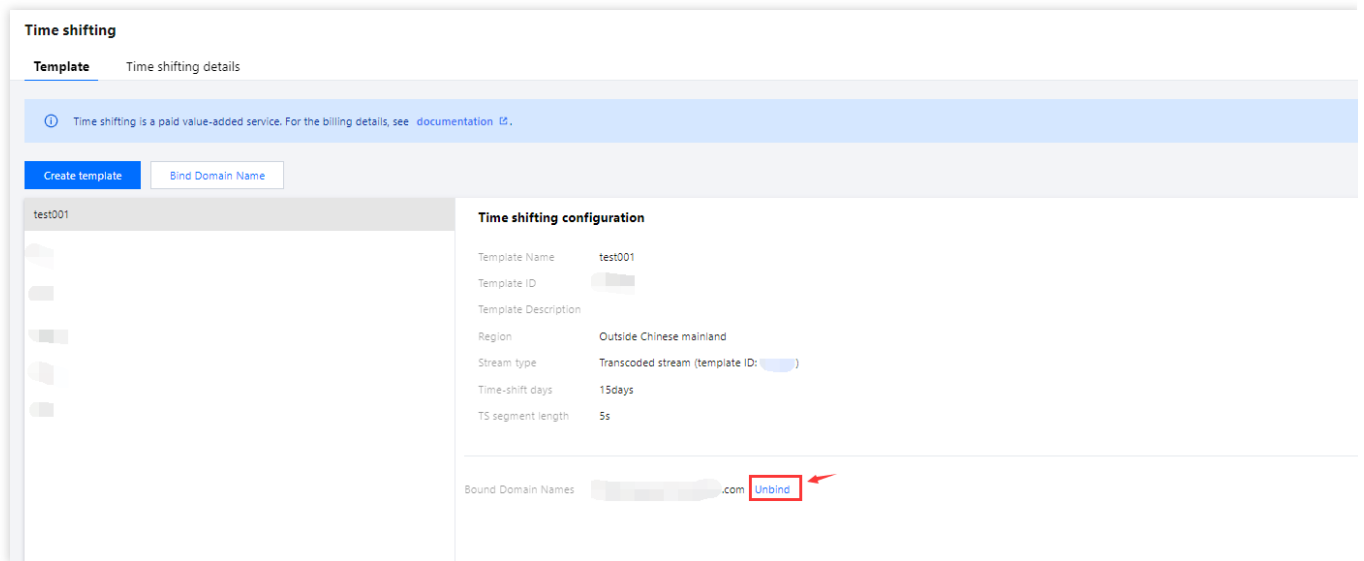


Note :

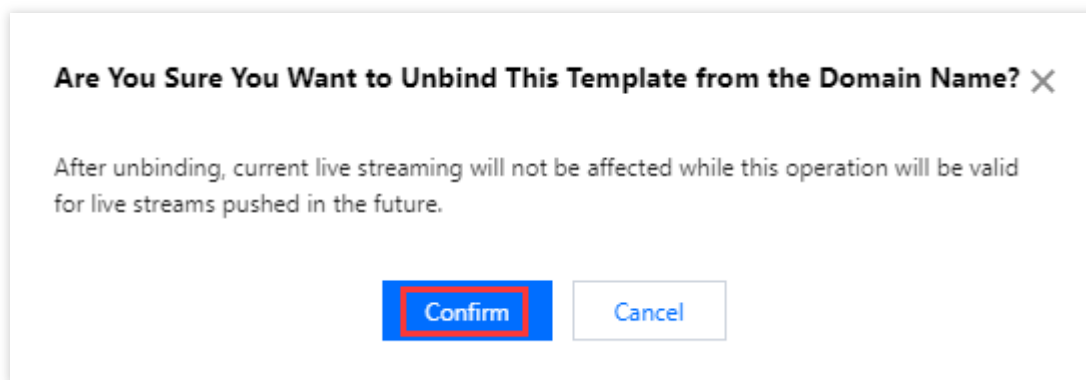
You can click **Add** to bind multiple push domains to a template.

Unbinding a Domain Name

1. Log in to the CSS console, and select **Feature Configuration** > [Time Shifting](#) on the left sidebar.
2. Select a time shifting template bound with domain names, find the target domain name, and click **Unbind**.



3. In the pop-up window, click **Confirm**.

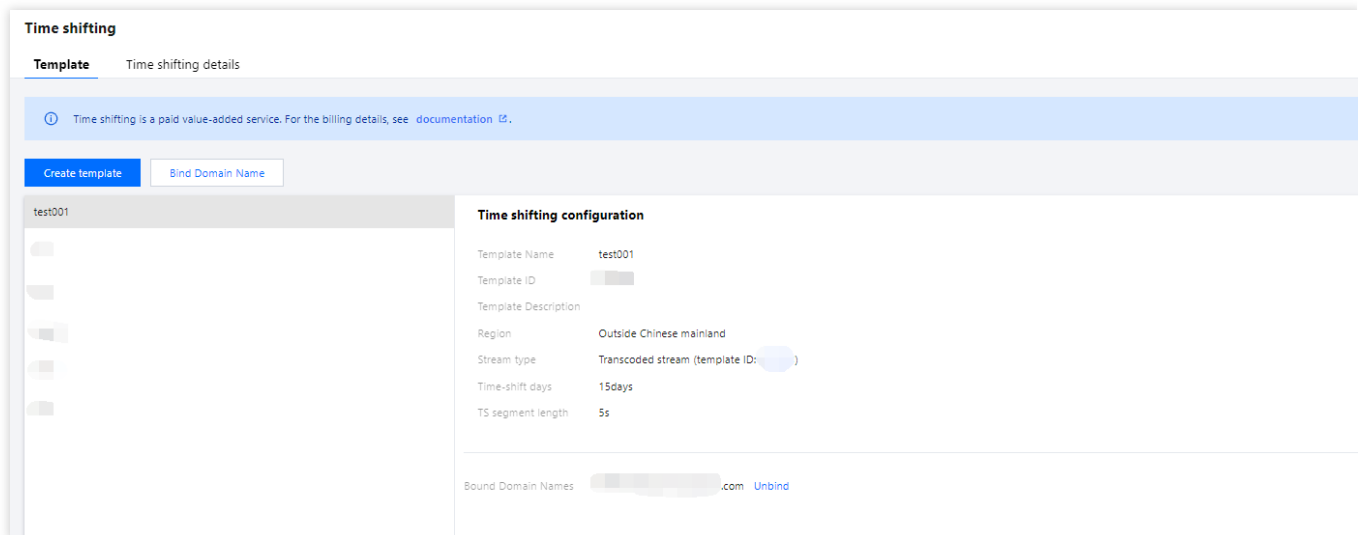


Note :

Unbinding a time shifting template will not affect ongoing live streams.

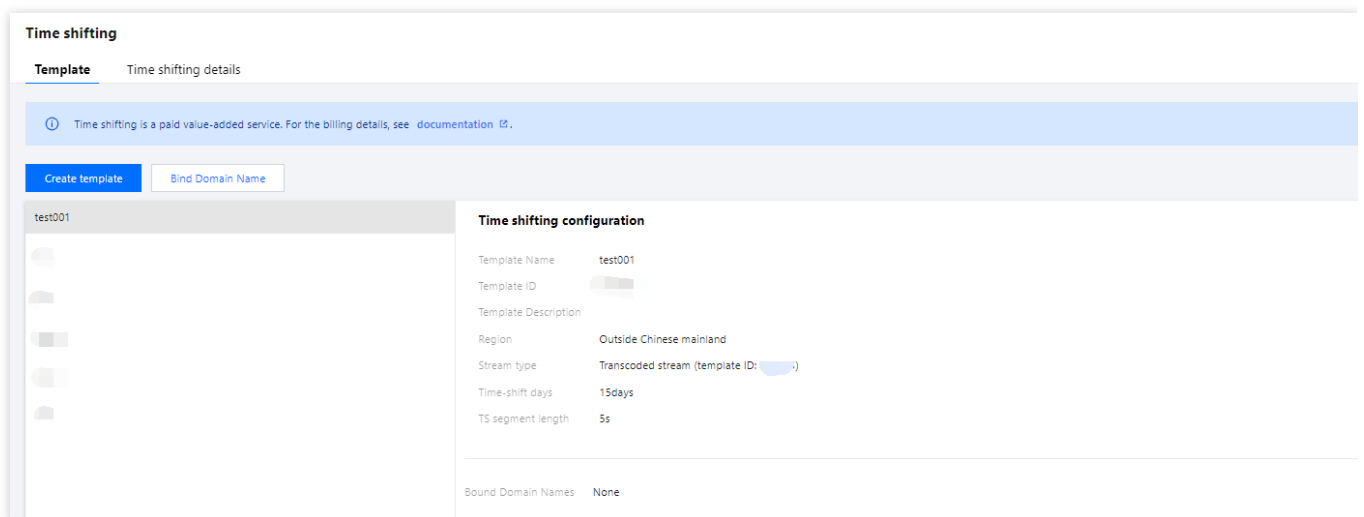
Modifying a Template

1. Go to **Feature Configuration** > [Time Shifting](#).
2. Select the target time shifting template, click **Edit** on the right, modify the settings, and click **Save**.

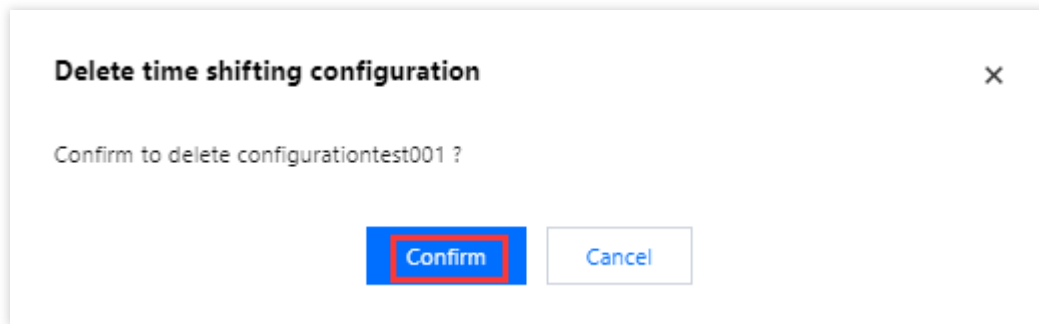


Deleting a Template

1. Log in to the CSS console, and select **Feature Configuration** > **Time Shifting** on the left sidebar.
2. Select the target time shifting template, and click **Delete** in the upper right.



3. In the pop-up window, click **Confirm**.

**Note:**

If domain names are bound to a template, you need to [unbind](#) them before you can delete the template.

In the console, time shifting templates are managed at the domain level. You cannot unbind time shifting rules bound to streams by APIs.

More

You can also **unbind** and **bind** domains and time shifting templates on the **Domain Management** page. For details, see [Time Shifting Configuration](#).

Viewing Time Shifting Details

Last updated : 2024-07-16 09:36:23

Tencent Cloud Live Broadcast supports time-shift management through index information, including functions such as viewing time-shift details, configuring time-shift playback, and live broadcast editing.

Prerequisites

You have logged in to the CSS console.

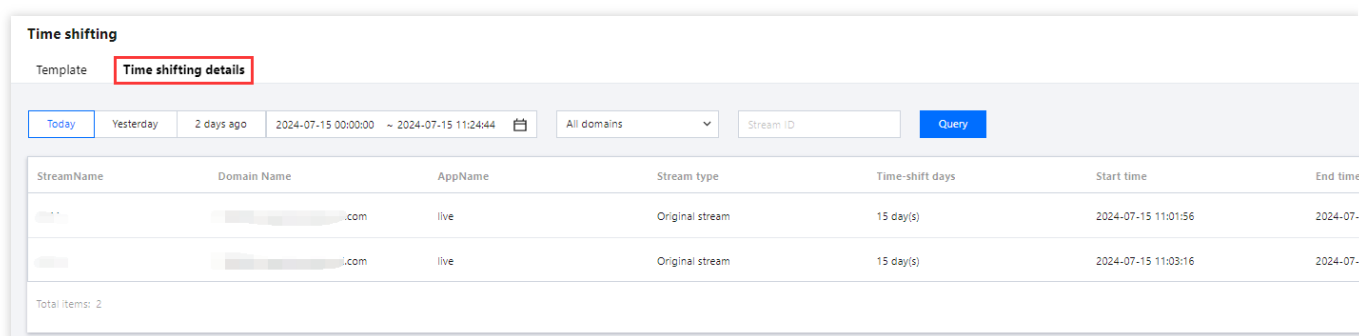
You have created a [time shifting template](#), bound it to a push domain, and successfully pushed a stream.

To use the live video editing and solidification capability, please make sure that you have activated the Tencent Cloud [MPS](#). The solidified content will be stored in the COS service, and activating the MPS service will automatically activate the COS service.

Index Information Operation Guide

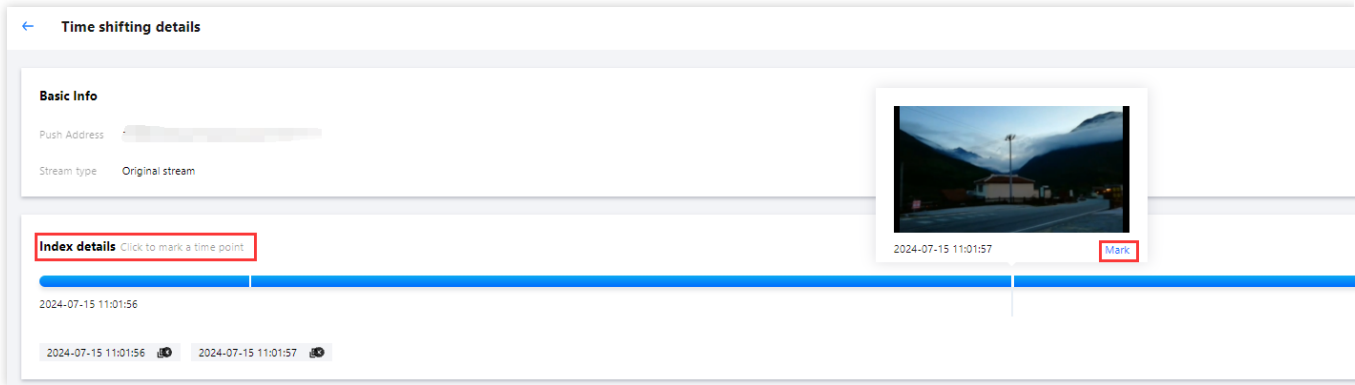
Directions

1. Click **Feature Configuration > Time Shifting** on the left sidebar and select the [Time shifting details](#) tab.
2. Select a domain or enter a stream ID, specify the time period (cannot be longer than 24 hours), and click **Query**.
3. Click **Details** to enter the details page.



Time shifting						
Template Time shifting details						
<div>Today Yesterday 2 days ago 2024-07-15 00:00:00 ~ 2024-07-15 11:24:44 All domains Stream ID Query</div>						
StreamName	Domain Name	AppName	Stream type	Time-shift days	Start time	End time
	.com	live	Original stream	15 day(s)	2024-07-15 11:01:56	2024-07-
	.com	live	Original stream	15 day(s)	2024-07-15 11:03:16	2024-07-
Total items: 2						

4. View the push URL and stream type in the **Basic Info** area.
5. You can move the mouse over the timeline in the **Index Details** page to view the position and time. By clicking on the timeline, you can mark the time.
6. Click the timeline to preview the video at a specific time point and mark that point.



Note:

To preview time-shifted content, the domain used for playback must have an HTTPS certificate. If your playback domain does not have an HTTPS certificate yet, add one in **Domain Management**> [Certificate Management](#). Using the time shifting feature will incur playback traffic/bandwidth fees.

7. **Time Shifting and Live Clipping** can be configured as follows:

Item		Description
Select a feature	Time shifting	Generate a time shifting URL that delays live streaming playback by a specific time
	Live clipping	Generate a clip from a live stream at the specified start and end time and store it permanently
Playback domain		Select a playback domain you added to CSS.
Generate time-shifting playback URL		Click Generate Address to generate a time-shifting playback URL and copy it.
Navigate to the MPSfor fixed time-shifting content		The encapsulation format can be selected as either MP4 type or HLS type .

Time shifting

Live clipping

Generate a time shifting URL that delays live streaming playback by a specific time

←

Time shifting details

Basic Info

Push Address

Stream type

Original stream

2024-07-15 11:01:56

2024-07-15 11:01:57

Index details

Click to mark a time point

2024-07-15 11:01:57

Mark

Time shifting & live clipping

1

Select a feature

Time shifting

Generate a time shifting URL that delays live streaming playback by a specific time

Play from ago

60

sec

Live clipping

Generate a clip from a live stream at the specified start and end time and store it permanently

Current time: 2024-07-15 11:28:04 (UTC+08:00)

2

Playback domain

3

Generate time-shifting playback URL

Generate Address

http://.top/live/.um3u8?txTimeshift=on&tsDelay=60

Time shifting URL examples

Generate a clip from a live stream at the specified start and end time and store it permanently

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← Time shifting details

Basic Info

Push Address

Stream type

Original stream

2024-07-15 11:01:57

Mark

Index details

Click to mark a time point:

2024-07-15 11:01:56

Click to copy

2024-07-15 11:01:56

2024-07-15 11:01:57

Time shifting & live clipping

1 Select a feature

Time shifting

Generate a time shifting URL that delays live streaming playback by a specific time

Live clipping

Generate a clip from a live stream at the specified start and end time and store it permanently

Play from

2024-07-15 11:01:56

to

2024-07-15 11:01:57

2 Playback domain

3 Generate time-shifting playback URL

Generate Address

http://.top/live/.n3u8txTimeshift=on&tsDelay=60

Time shifting URL examples

4 Go to the MPS console to configure storage of live clips

Container format

MP4

HLS

Configure storage

8. Select the function mode as **Live Clipping**. When you have chosen to navigate to the MPS for fixed time-shifting content, click **Configure storage** to enter **MPS > Tasks > VOD**. For more details, please refer to the [Live Streaming Highlights Clipping document > Create Clip Persistence Task](#).

Live Screenshot

Last updated : 2024-06-25 15:28:19

Cloud Streaming Services (CSS) provides a screenshot feature, supporting the use of screenshot templates configured through the console. After the template is associated with the push domain name, it captures the live streaming screen during the push process and stores the live screenshot data in Tencent Cloud Object Storage (COS). If the push domain name is already associated with a callback configuration, Tencent Cloud will send a request to the customer's server during the live streaming when a callback event is triggered, and the customer's server is responsible for responding to the request. After verification, the customer can obtain a JSON packet containing the screenshot callback information.

This document describes how to create, bind, unbind, modify, and delete screenshot templates through the console.

There are two ways to create a screenshot template:

To create a template via the CSS console, for specific operation steps, see [Creating a Screenshot Template](#).

Call the `CreateLiveSnapshotTemplate` API to create a template. For information on the parameters and request sample, see [CreateLiveSnapshotTemplate](#).

Must-Knows

The screenshot feature can be used independently, but the porn detection feature can only be enabled after the screenshot feature is enabled and cannot be used independently. Live stream porn detection has been fully upgraded to live stream moderation, which no longer relies on the live screenshot capability. For a better product experience, it is recommended to use the live stream moderation feature. For details, see [Live Stream Moderation](#).

The screencapture and porn detection features are priced at 0.0176 USD and 0.2294 USD per 1,000 screenshots respectively. For details, see [Intelligent Porn Detection](#).

The screenshots and porn detection results are stored in your COS bucket, which will incur COS storage fees. For more information, see [COS Pricing](#).

Screencapturing will fail for audio-only streams, in which case no screencapturing costs will be incurred.

If you want to store the data in a COS bucket of **another account**, you need to first grant CSS the permission to write to that COS bucket. For more information, see [Authorizing CSS to Store Screenshots in a COS Bucket](#).

If your COS bucket allows public read access and has politically sensitive, pornographic, or other inappropriate content, to avoid the bucket being blocked, please delete the content first.

After creating a template, you need to bind it to a push domain. For more information, see [Screencapture and Porn Detection Configuration](#). The configuration takes effect in about 5-10 minutes.

The screenshot template management in the console is at the domain name level and currently, it is not possible to cancel the rules created via API. For screenshot rules bound to specific streams by an API, you need to call [DeleteLiveSnapshotRule](#) to unbind them.

Binding, unbinding, or modifying a template affects only new live streams but not ongoing ones. To apply new rules to ongoing streams, you need to stop them and push them again.

Prerequisites

You have activated CSS and added a [push domain](#).

You have created a COS bucket. For detailed directions, see [Creating Bucket](#).

Creating a Screenshot Template

1. Log in to the CSS console, and choose **Feature Configuration** > [Live Screencapture](#).

Note:

Because the CSS screenshot service needs to store screenshots in COS buckets, when creating a screenshot template for **the first time**, you need to create a service role and authorize CSS to have read and write permissions for COS.

2. Click **Create template**.

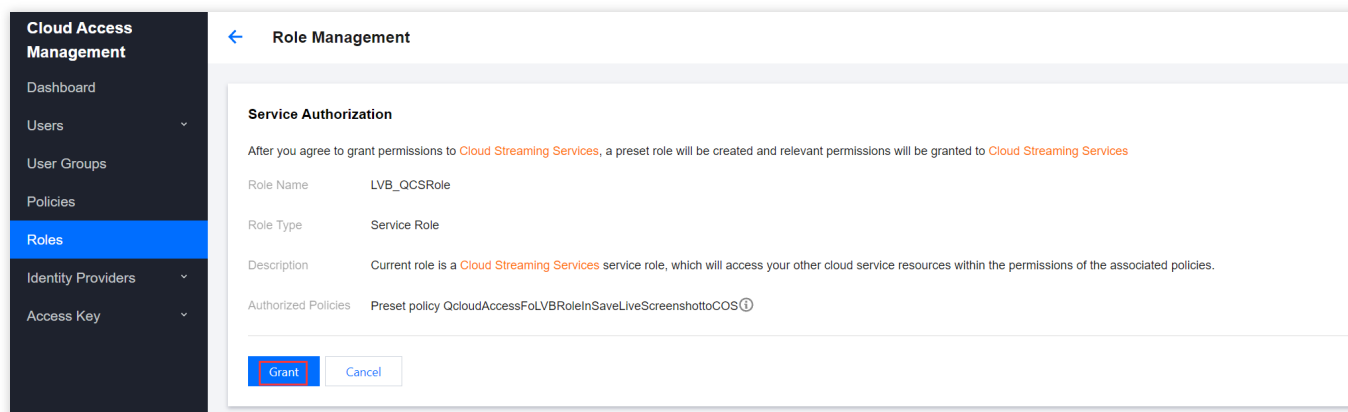
3. The console will pop up a window to request resource authorization. Click **Authorize Now** to enter the Role Management page.

Authorization is required for this feature

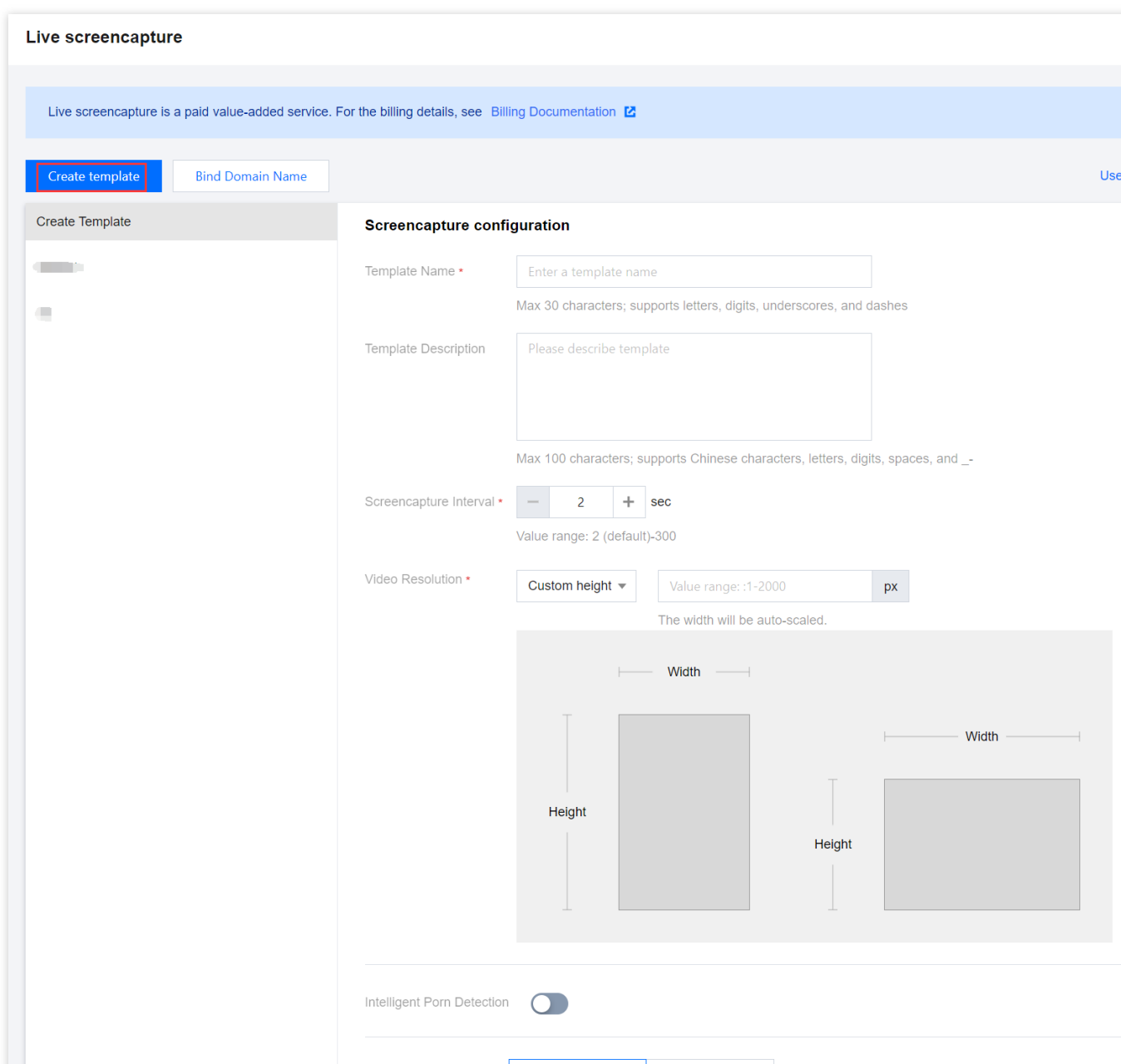
To use the **CSS** feature, you need to allow **Cloud Streaming Services** to access your authorized resources as a service role. Please click "Authorize Now" to grant permissions to the related service APIs of **Cloud Streaming Services**.

[Authorize Now](#)[Cancel](#)

4. On the Role Management page, click **Grant**. After identity verification is completed, you can complete the COS resource authorization and use the live screenshot service normally. Upon successful authorization, you will be redirected to the page for creating screenshot templates.



5. Click **Create template** to go to the screenshot template creation page and proceed with the following configuration:



COS Account *

Current Account

Other Account

Appid *

1307230051

Storage Path *

Bucket *

If you cannot find a bucket for this service, [create one](#)

Region *

Enter COS Region

Folder

☒ Default
 ☐ Custom

/[Year]-[Month]-[Day]/

Backup Storage Path

☐

In case of failure to save screenshots to the primary storage path due to network jitter, the backup path will be primary path recovers, the screenshots saved in the backup path will be automatically uploaded to the primary backup and primary paths must be in different regions.

File Name

{StreamID}-screenshot-{Hour}-{Minute}-{Second}-{Width}x

Default{StreamID}-screenshot-{Hour}-{Minute}-{Second}-{Width}x{Height}{Ext}, Only [a-z, A-Z, 0-9] and symbols and placeholders are allowed [reference documentation](#)

Save

Cancel

Configuration Item	Required	Description
Template Name	Yes	The name of the screencapture and porn detection template, which can contain up to 30 Chinese characters, letters, numbers, underscores (_), and hyphens (-).
Template Description	No	Description of the screenshot template, which can contain up to 100 Chinese characters, letters, digits, spaces, underscores (_), and hyphens (-).
Screencapture Interval	Yes	The screencapture interval, which is 2 seconds by default. Value range: 2-300 seconds.
Video Resolution	Yes	By default, the original resolution is maintained, but you have the option to set the screenshot height. The input height range is from 1 px to 2,000 px, and the other side will automatically scale in proportion to the resolution by default.
Intelligent Porn Detection	No	The intelligent porn detection feature is disabled by default and can be enabled manually. After enabling intelligent porn detection, you must configure a callback to receive the results.
COS Account	Yes	Current Account or Other Account .
AppId	Yes	This is required only if you select Other Account . You can view the <code>APP ID</code> of an account on the Account

			Information page of the console. To save data to a COS bucket of another account, you need to first grant CSS read and write access to that bucket. For details, see Authorizing CSS to Store Screenshots in a COS Bucket .
Storage Path	Bucket	Yes	You can select a COS bucket in Bucket, which you have already created and authorized in COS .
	Region	Yes	The region corresponds to the regional information of the aforementioned bucket and cannot be modified.
	Folder	No	Click the box to choose a COS folder. The default is: {Year}-{Month}-{Day}/. Note: COS folder names can only contain [a-z, A-Z, 0-9] and the symbols -, !, _, ., * as well as placeholders.
Backup Storage Path		No	<p>The backup storage path feature is disabled by default. You can manually enable this feature based on your business needs.</p> <p>When network jitter prevents the screenshot from being stored in the primary storage path, the system will automatically store the file to the backup storage path to prevent file loss. Once the primary storage path is restored, screenshots under the backup storage path will be automatically synchronized to the primary storage path. Primary and backup storage paths should be in different regions.</p>
File Name		No	<p>The format of screenshot filenames. You can customize your own format. The default is {StreamID}-screenshot-{Hour}-{Minute}-{Second}-{Width}x{Height}{Ext} :</p> <p>{AppName}: The push app name. {PushDomain}: The push domain. {StreamID}: The stream ID. {Year}: The screenshot time (year). {Month}: The screenshot time (month). {Day}: The screenshot time (day). {Hour}: The screenshot time (hour). {Minute}: The screenshot time (minute). {Second}: screenshot time (second) {Width}: The width of the screenshot. {Height}: The height of the screenshot. {Ext}: The extension (.jpg).</p> <p>Note: The filename can contain only letters, digits, placeholders, and symbols (-, !, _, ., *).</p>

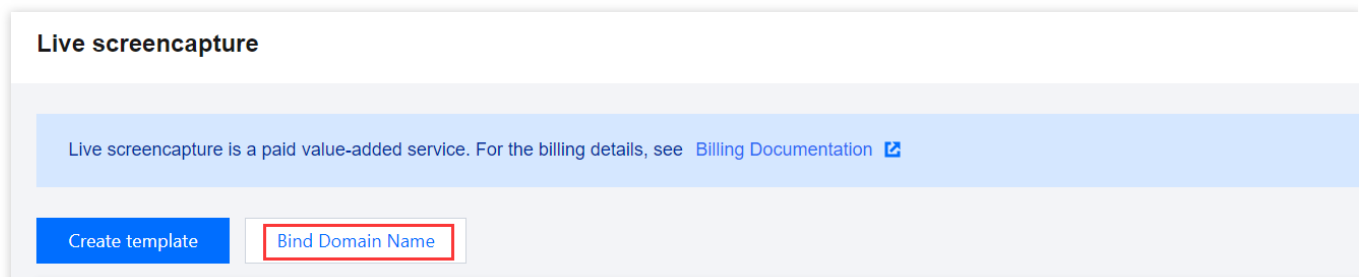
Example: If the filename format is `{Year}-{Month}-{Day}-{Hour}-{Ext}` , a screenshot captured at 14:00:00 on January 1, 2020 would be named `2020010114.jpg` in COS.

6. Click **Save** to save the current template.

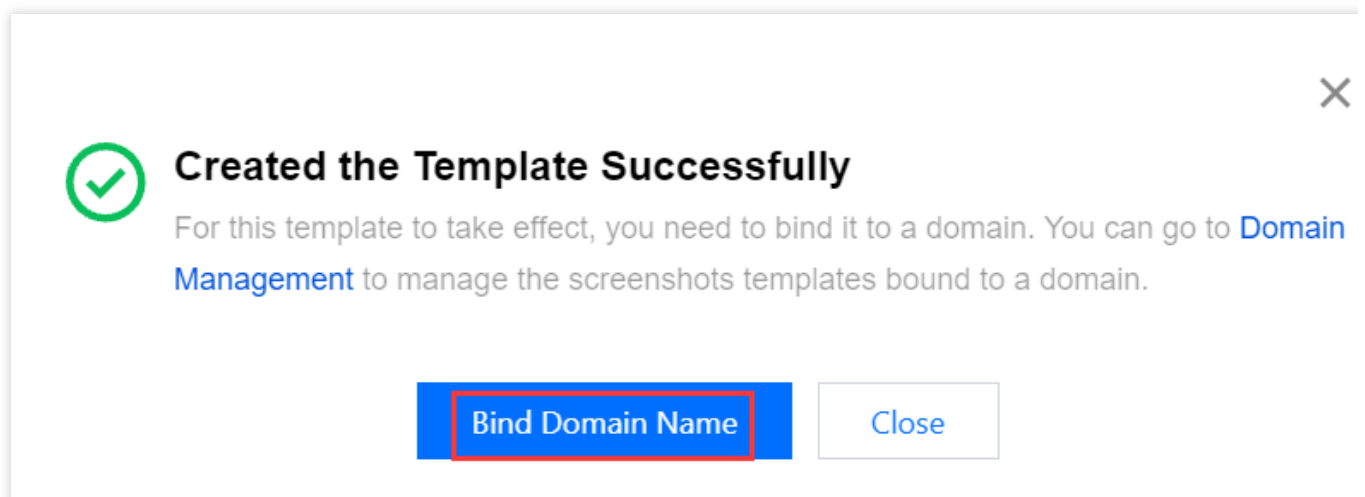
Binding a Domain Name

1. Log in to the CSS console, and choose **Feature Configuration** > [Live Screenshot](#).
2. Bind a domain name in either of two ways:

Bind a domain to an existing template: Click **Bind Domain Name** in the top left.



Bind a domain name after successfully creating a screenshot template: After successfully [Creating a Screenshot Template](#), click **Bind Domain Name** in the reminder box .



3. In the domain binding window, select the **screenshot template** and **push domain name** you need to bind, and then click **Confirm** .

Bind Domain Name



Domain name binding takes effect in about 10 minutes after the configuration. Using the domain name for push will trigger the template.

Screenshot Template

test001 (id: [redacted])



Push Domain

[redacted].top



Delete

Add

Confirm

Cancel

Note:

You can click **Add** to bind multiple push domains to a template.

Unbinding a Domain Name

1. Log in to the CSS console, and choose **Feature Configuration** > [Live Screenshot](#).
2. Select the target screenshot and porn detection template, find the domain you want to unbind, and click **Unbind**.

Screencapture configuration Delete

Template Name

test001

Template ID

Template Description

test

Screencapture Interval

2 s

Screenshot Resolution

Height: 500 px
Width: Scale proportionally

Intelligent Porn Detection

Disabled

COS account

Current Account

Storage path

Bucket Region ap-tokyo Folder /(Year)-(Month)-(Day)/

Backup storage path

Enable

Bucket Region ap-mumbai Folder /(Year)-(Month)-(Day)/

File Name

(StreamID)-screenshot-(Hour)-(Minute)-(Second)-(Width)x(Height)(Ext)

Bound Domain Names

.top

Unbind

3. In the pop-up window, click **Confirm**.

Are You Sure You Want to Unbind This Template from the Domain Name? ✕

After unbinding, current live streaming will not be affected while this operation will be valid for live streams pushed in the future.

Confirm

Cancel

Modifying a Template

1. Log in to the CSS console, and choose **Feature Configuration** > [Live Screencapture](#).
2. Select a screencapture and porn detection template, click **Edit** on the right, and modify its information.
3. Click **Save**.

live

Screencapture and Porn Detection Configuration

Template Name	live
Template ID	
Template Description	
Screencapture Interval	2 s
Screenshot Resolution	Original

Intelligent Porn Detection	Disabled
----------------------------	----------

Storage Account	
Bucket	
Region	ap-nanjing
Folder	/Year-Month-Day/
File Name	{StreamID}-screenshot-Hour-Minute-Second-WidthxHeightExt

Bound Domain Names		Unbind
--------------------	--	------------------------

Screencapture configuration

Delete

Template Name	test001
Template ID	
Template Description	test
Screencapture Interval	2 s
Screenshot Resolution	Height: 500 px Width: Scale proportionally

Intelligent Porn Detection	Disabled
----------------------------	----------

COS account	Current Account
Storage path	<div>Bucket <div></div> Region ap-tokyo Folder /Year-Month-Day/</div>
Backup storage path	Enable
	<div>Bucket <div></div> Region ap-mumbai Folder /Year-Month-Day/</div>
File Name	{StreamID}-screenshot-Hour-Minute-Second-WidthxHeightExt

Bound Domain Names		Unbind
--------------------	--	------------------------

Deleting a Template

Note:

If a template has been bound to domains, you need to [unbind](#) them before you can delete the template. Note that once a template is deleted, it cannot be recovered. Proceed with caution.

1. Log in to the CSS console, and choose **Feature Configuration** > [Live Screencapture](#).
2. Select the screenshot template you have successfully created and click **Delete** above.

Screencapture configuration Delete

Template Name

test001

Template ID

Template Description

test

Screencapture Interval

2 s

Screenshot Resolution

Height: 500 px
Width: Scale proportionally

Intelligent Porn Detection

Disabled

COS account

Current Account

Storage path

Bucket

Region

ap-tokyo

Folder

/{Year}-{Month}-{Day}/

Backup storage path

Enable

Bucket

Region

ap-mumbai

Folder

/{Year}-{Month}-{Day}/

File Name

{StreamID}-screenshot-{Hour}-{Minute}-{Second}-{Width}x{Height}{Ext}

Bound Domain Names

None

3. Confirm that you want to delete the current screenshot template, and click **Confirm** to delete it.

Delete screencapture configuration ×

Confirm deletiontest001 ?

Confirm

Cancel

More

For specific operations and related instructions on **binding and unbinding screenshot templates at the domain name level**, refer to [Screenshot Configuration](#).

Live Stream Moderation

Live Stream Moderation

Last updated : 2024-07-16 09:36:23

CSS offers a live stream moderation feature, supporting the configuration of moderation templates through the console. Once the streaming domain is associated with the template, this service will obtain live screenshots and the audio during streaming, storing any non-compliant screenshots or audio data in Tencent Cloud COS. If the streaming domain is linked to the callback configuration, Tencent Cloud will send a request to the customer's server once a callback event is triggered during the live stream. Customer's server is responsible for handling the request. After verification, a JSON packet containing the moderation callback information can be obtained. This document provides instructions on how to create, bind, unbind, modify, and delete moderation configuration templates via the console.

Notes

Live stream moderation is a charged feature. When enabled, the IA function is charged at 0.2294 USD per thousand images, while the AAS function is charged at 0.0021 USD per minute. For more information, please refer to [Live Stream Moderation](#).

Screenshots or the audio flagged during live stream moderation and stored in your Tencent Cloud COS will generate storage costs in COS. For pricing details, please refer to [COS Product Pricing](#).

If the access permission of the COS Bucket is set to public read, and the Bucket contains inappropriate contents related to pornography, illegal activities, or any other prohibited contents, it is recommended to go to the corresponding COS Bucket and delete the relevant images. This action can avoid COS Bucket being blocked, as the block may affect the use of it.

After creating the template, it can be associated with the streaming domain name. Refer to the Live Stream Moderation Configuration document for details. The association of the template is usually effective within 5-10 minutes.

Binding, modifying, or unbinding a template only affects the updated live streams and not ongoing ones. To apply new rules to ongoing live streams, you need to stop them and push them again.

For image recognition to be linked with a custom dictionary, the Image TAS strategy needs to be initiated, without which the linkage will not be effective. The image TAS by default, will perform OCR recognition and moderation on text in the screenshots from live screen. The default policy of Image TAS operates beyond the control of image recognition strategy and will audit all the non-compliant contents.

Prerequisites for Use

You have activated the Tencent CSS service and added a [Pushing Domain Name](#).

You have created a COS bucket. For more details, please refer to [Creating a Bucket](#).

Creating Live Stream Moderation Templates

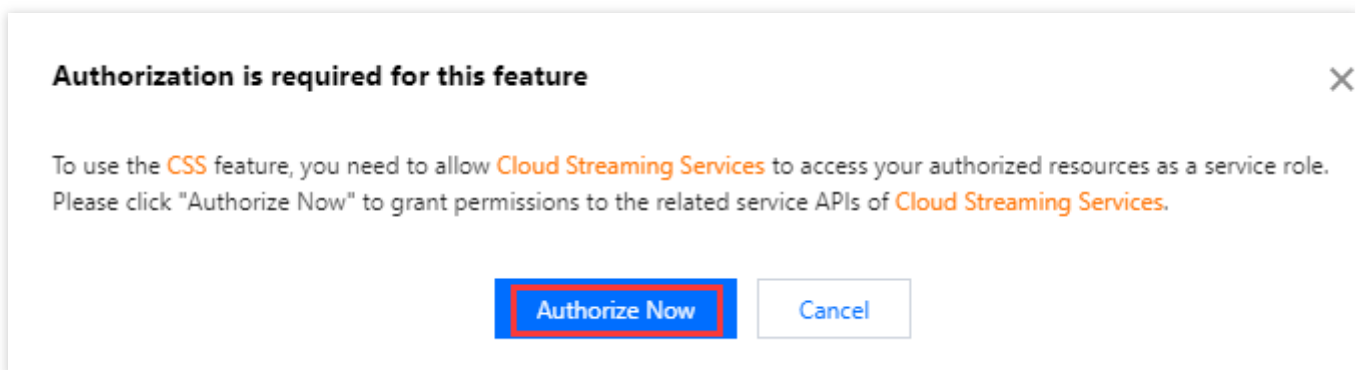
1. Log in to the [CSS console](#) and choose **Feature Configuration > Content moderation** from the left navigation bar.

Note:

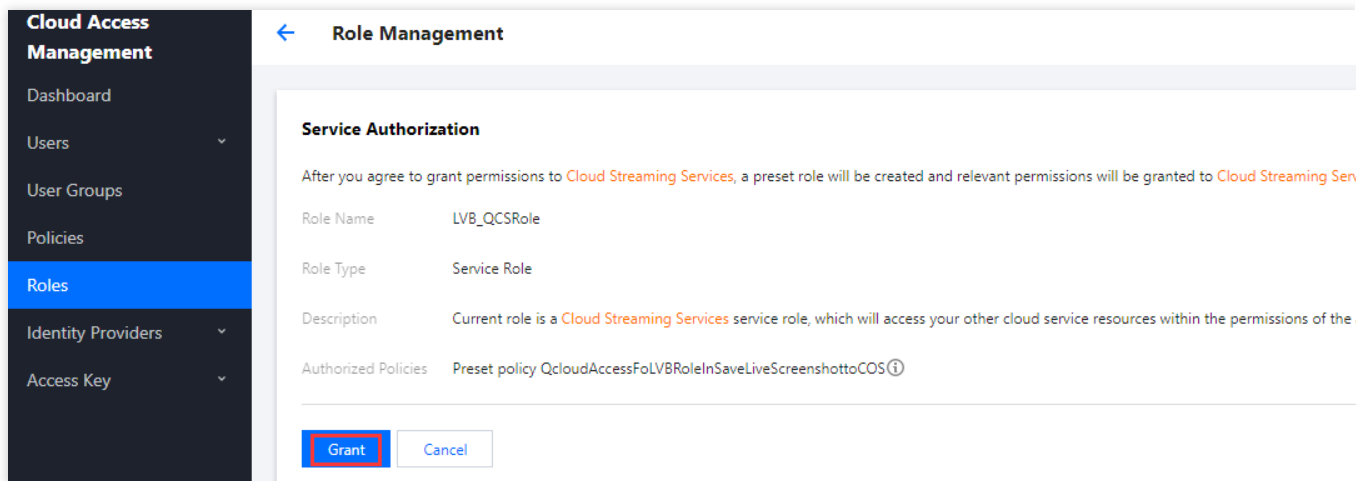
Since the CSS moderation service requires to store screenshots or audio data in the COS bucket, the **initial** creation of a moderation template necessitates the development of a service role, and authorizes CSS to have read and write access on COS. Access the CAM and click to authorize.

2. Click **Create template**.

3. A pop-up window will be generated to apply for resource authorization in the console. Please click **Authorize Now** in the pop-up window to go to the **Role Management** page.



4. On the **Role Management** page, click **Grant**. After authentication, you can authorize COS resources and proceed to use the Live Stream Moderation service normally.

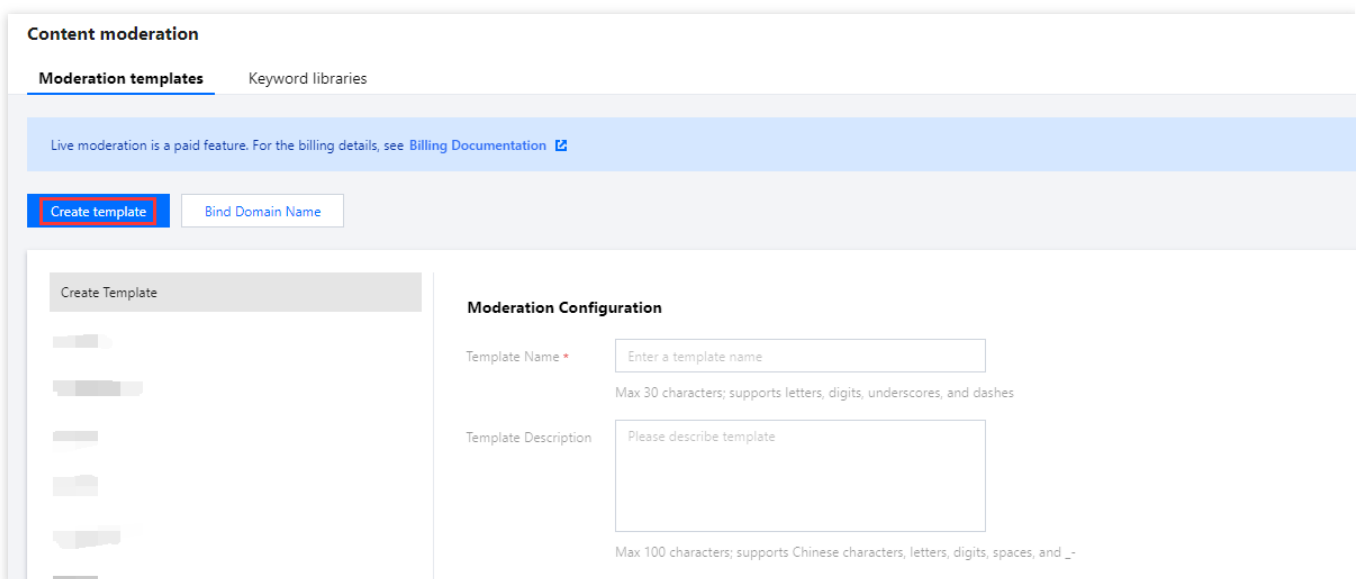


5. After authorization, you will be redirected to the Create template page, where you can fill in the configuration items.

Steps

Step 1: Configuring Moderation

Click **Create template** to configure moderation:



Configuration Item	Description
Template Name	The template name can include up to 30 Chinese characters, letters, digits, underscores (_), and hyphens (-).
Template	The template description can include up to 100 Chinese characters, letters, digits,

Description	spaces, underscores (_), and hyphens (-).
-------------	---

Step 2: Configuring Screencapture/Segment Policy

In Screencapture/Segment policy, you can configure the auditing content based on your business requirements.

Configuration Item	Required Item	Description
Auditing Content Configuring	Yes	<p>Complete Audit</p> <p>Live Screen Auditing Only</p> <p>Screencapture interval. It refers to a time lapse of the auditing screencapture in every two images during the live screen auditing process. The shorter the screencapture interval, the finer the auditing performs. Correspondingly, the auditing costs will increase.</p> <p>Screencapture interval. The value of it can range between 2-300 seconds. The default value is 2 seconds.</p> <p>AAS Only</p> <p>The audio auditing feature only supports Chinese.</p> <p>Audio segment duration. It refers to the length of each audio segment during the live stream AAS process. The length of the audio segments only affects the duration of the audio content returned by the moderation, not the billing process.</p> <p>Audio segment duration. The value of it can range between 15-60 seconds. The default value is 15 seconds.</p>

Screencapture/Segment policy

Content type to moderate ☒ Screenshot images ☒ Audio

Screencapture interval
 2 50 100 150 200 250 300 2 sec
Specify the interval at which screenshots are taken of a live stream. With a shorter interval, moderation will be less likely to miss content, but the cost will be higher.

Audio segment duration
 15 30 45 60 15 sec
Specify the duration of audio segments cut from a live stream. This determines the length of segments returned when suspicious content is detected. It does not affect the billing process.

Step 3: Configuring Recognition Policy

1. On recognition policy configuration page, you can configure policies for both **Image Recognition** and **Audio Recognition** based on your distinct business scenario requirements.

2. The **Image Recognition** and **Audio Recognition** features under the recognition policy configuration can be expanded separately to select the dimensions you need for your recognition moderation.

Note:

By selecting the corresponding category, the system will recognize and hit the content accordingly. Not selecting any category implies that no content is required to be recognized or hit.

To bind a custom dictionary to the image recognition feature, turn the Image Recognition policy **ON** under Image Recognition Configuration. The binding will not take effect if the policy remains turned off.

Image Recognition Configuration

Audio Recognition Configuration

Recognition policy


 Select which categories of content you want CSS to recognize. If none is selected, the content will not be moderated.

Image Recognition

Audio recognition

☒ Porn (3)

☒ Violence/Terrorism (10)

☒ Political (8)

☒ Illegal (6)

☒ Advertisement (2)

☒ Age-inappropriate (2)

☒ Sexy (6)

☒ OCR (7)

Use custom keyword library

Select a keyword library

Use a custom keyword library for image recognition. For this to work, you need to select "OCR" of "Image recognition".

Recognition policy


 Select which categories of content you want CSS to recognize. If none is selected, the content will not be moderated.

Image Recognition **Audio recognition**

☐ Porn (3)

☒ Moaning (1)

☒ Illegal (4)

☒ Violence/Terrorism (3)

☒ Political (1)

☒ Advertisement (9)

☒ Abuse (2)

Use custom keyword library

3. In the drop-down list for associating an image recognition or audio recognition with a **Use custom keyword library**, you have the option to select a custom dictionary that has already been configured.

Use custom keyword library

Use a custom keyword library for image recognition. For this to work, you need to select "OCR" of "Image recognition".

Use custom keyword library

Note:

In accordance with your business requirements, if a custom dictionary used for content recognition is needed, you may configure it in advance. For more information, please refer to the custom dictionary.

4. After completing the configuration items in **Storage**, click **Save** to preserve the current template.

Storage

Storage path *

Bucket Please select

If you cannot find a bucket for this service, [create one](#)

Region Enter COS Region

Backup storage path ☒

Bucket Please select

If you cannot find a bucket for this service, [create one](#)

Region Enter COS Region

If the primary bucket is down, moderation data will be automatically stored in the backup bucket. The backup bucket is used only when the primary bucket does not work, so moderation data is saved. **The primary and backup buckets cannot be in the same region.**

Folder *

/Audit/{Year}-{Month}-{Day}/

Default/Audit/{Year}-{Month}-{Day}/, Only [a-z, A-Z, 0-9] and symbols (-, !, _, ., *) and placeholders are allowed [reference documentation](#)

File Name *

{StreamID}-Audit-{Hour}-{Minute}-{Second}{Ext}

Default{StreamID}-Audit-{Hour}-{Minute}-{Second}{Ext}, Only [a-z, A-Z, 0-9] and symbols (-, !, _, ., *) and placeholders are allowed [reference documentation](#)

Save

Cancel

Configuration Item	Required Item	Description
Storage path	Yes	Choose a COS bucket that you have created and authorized in COS. Region refers to the geographic information of the above Bucket, which is unalterable.
Backup storage path	No	You can enable the backup storage path. If the primary Bucket experiences issues causing content moderation to fail to store normally, the moderation return content will automatically be stored under the backup Bucket to prevent file loss. The backup Bucket is only enabled during a business anomaly, and only one copy of the audit content will be stored. The primary Region and backup Region cannot be identical.
Folder	Yes	Click the input box to select a COS folder. The default is <code>/Audit/{Year}-{Month}-{Day}/</code> . Note: COS folder names only allow <code>[a-z, A-Z, 0-9]</code> characters and the symbols <code>-, !, _, ., *</code> along with placeholders.
File Name	Yes	The file name format can be customized through parameter assembly. Default is: <code>{StreamID}-Audit-{Hour}-{Minute}-{Second}{Ext}</code> , wherein: {StreamID}: Stream ID {Audit}: Audit {Hour}: Audit time (Hour) {Minute}: Audit time (Minute) {Second}: Audit time (Second)

{Ext}: Extension (.jpg)

Note: It only accepts [a-z, A-Z, 0-9], symbols `-`, `!`, `_`, `.`, `*`, and placeholders.

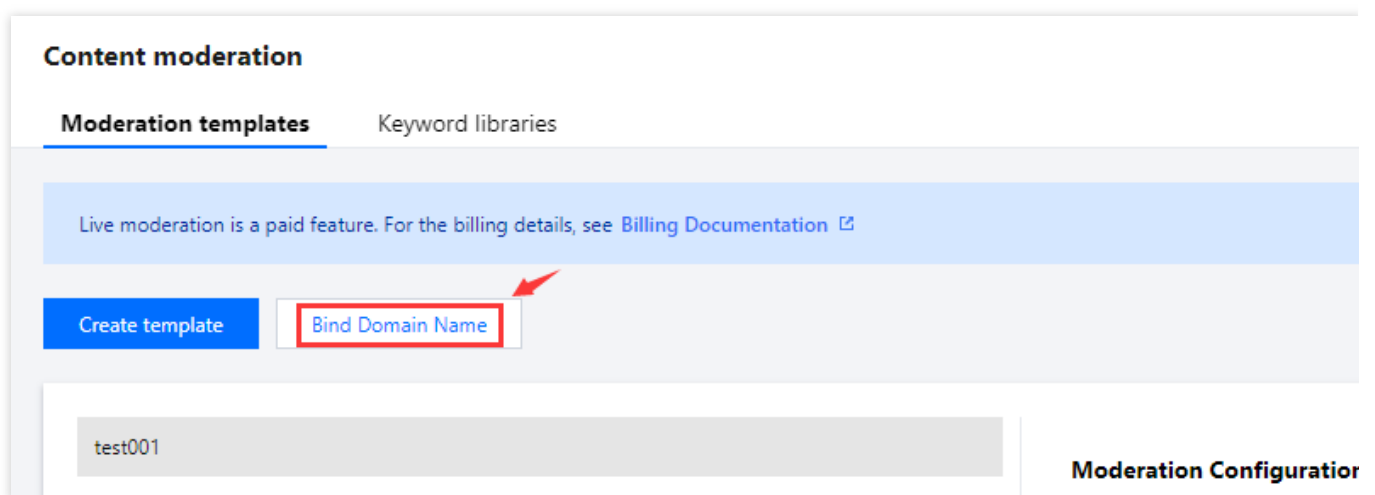
For example, if you enter the file format as `{Hour}-{Minute}-{Second}-{Ext}`, then a snapshot of the live stream was taken automatically at 14:00:00, and stored in COS with the filename as 140000.jpg.

Binding Domain Names

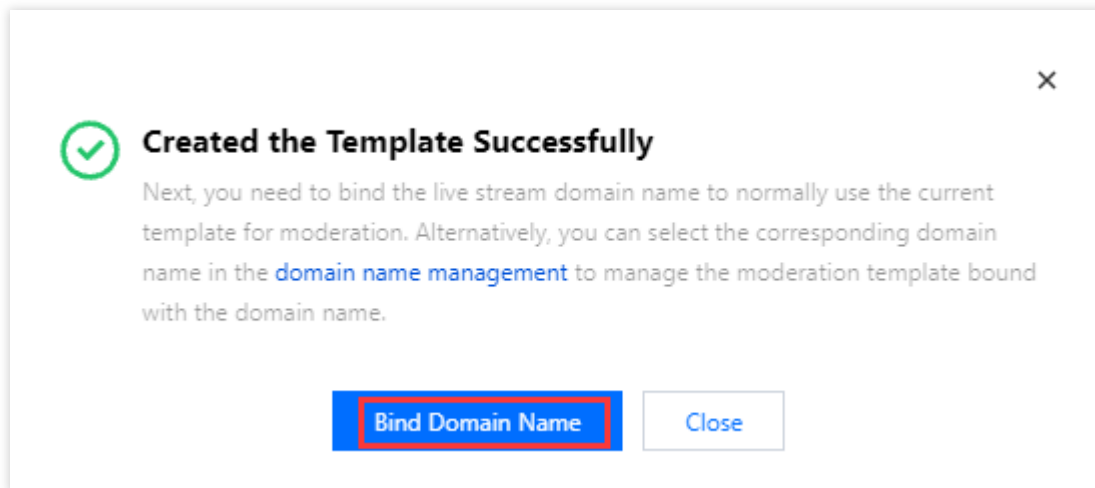
1. Log in to the [CSS console](#) and choose **Feature Configuration > Content moderation** from the left navigation bar.

2. You can access the domain-binding window via the following methods:

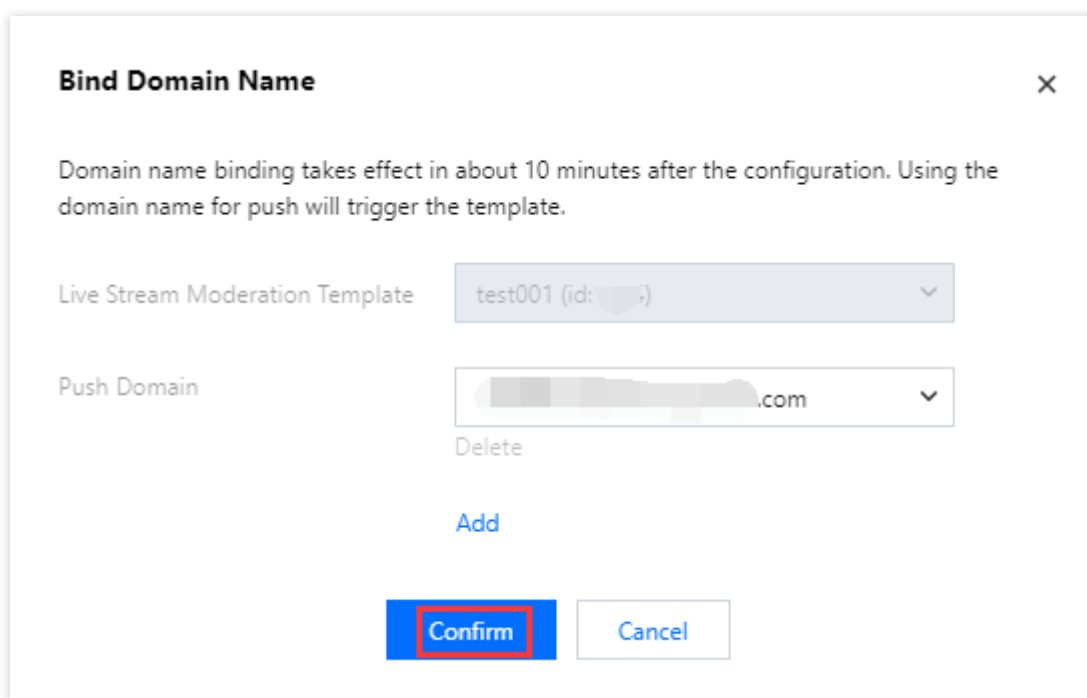
Direct Domain Association: Click on **Bind Domain Name** at the top left.



Binding domain names after the successful creation of a new moderation template: after successfully creating a moderation template, click **Bind Domain Name** in the notification pop-up.



3. In the Bind Domain Name window, select the desired **Live Stream Moderation template** and **Push Domain**, then click on Confirm to successfully bind them.



Note:

You can click **Add** to associate multiple push domains with the current template.

Unbinding

1. Log in to the [CSS console](#) and choose **Feature Configuration > Content moderation** from the left navigation bar.

2. Select the live stream moderation template of the bound domain that you want to unbind, then click **Unbind**.

Content moderation

Moderation templates Keyword libraries

Live moderation is a paid feature. For the billing details, see [Billing Documentation](#)

Create template Bind Domain Name

test001

Moderation Configuration

Template Name test001

Template ID

Template Description

Screencapture/Segment policy

Content type to moderate All moderations

Screencapture interval 2s

Audio segment duration 15s

Recognition policy

Image Recognition

Advertisement: QR code/barcode detection, Logo detection
Illegal: Delinquent conduct, Counterculture, Illegal or non-compliant content, Contrabands, Persona
Political: Positive figures, Foreign/Regional leaders, Badly-behaved celebrities, Positive flags and logo
Porn: Nudity/Sexual activity, Sexual innuendo/vulgarity, Sex products
Sexy: Sexy clothing - women, Sexy clothing - men, Sexy or skin baring, Close-ups of certain body par
Age-inappropriate: Age-inappropriate, Illegal emojis
Violence/Terrorism: Hot weapons, Large military weapons, Cold weapons, Gathering, Blood/Gore, f
symbols

Audio recognition

Abuse: Abuse (severe), Abuse (mild)
Advertisement: Referrals, Recruitment ads, Product ads, Trading ads, Investment ads, Game ads, E
Illegal: Sensitive music, Contrabands, Illegal or banned activities, Illegal organizations
Political: Positive
Porn: Vulgar audio
Violence/Terrorism: Terrorist organizations, Descriptions of horrific and bloody scenes, Weapons
Moaning: Vulgar audio

Keyword library used for audio moderation test

Storage

Storage Path Bucket Region ap-tokyo

Backup Storage Path Bucket Region ap-mumbai

Folder /Audit/{Year}-{Month}-{Day}/

File Name {StreamID}-Audit-{Hour}-{Minute}-{Second}[Ext]

Bound Domain Names .com **Unbind**

3. Confirm it if you wish to unbind the current linked domain, and click **Confirm** to proceed with unbinding.

Are You Sure You Want to Unbind This Template from the Domain Name? ✕

After unbinding, current live streaming will not be affected while this operation will be valid for live streams pushed in the future.

Confirm

Cancel

Modifying a Template

1. From the left navigation bar, choose **Feature Configuration > Content moderation**.
2. Select the successfully created moderation template, click **Edit** on the right to go to modify the template information.

Content moderation

Moderation templates

Keyword libraries

Live moderation is a paid feature. For the billing details, see [Billing Documentation](#)

Create template

Bind Domain Name

test001

Moderation Configuration

Template Name

test001

Template ID

Template Description

Screenshot/Segment policy

Content type to moderate

All moderations

Screenshot interval

2s

Audio segment duration

15s

Recognition policy

Image Recognition

Advertisement: QR code/barcode detection, Logo detection

Illegal: Delinquent conduct, Counterculture, Illegal or non-compliant content, Contrabands, Personal

Political: Positive figures, Foreign/Regional leaders, Badly-behaved celebrities, Positive flags and logos

Porn: Nudity/Sexual activity, Sexual innuendo/vulgarity, Sex products

Sexy: Sexy clothing - women, Sexy clothing - men, Sexy or skin baring, Close-ups of certain body part

Age-inappropriate: Age-inappropriate, Illegal emojis

Violence/Terrorism: Hot weapons, Large military weapons, Cold weapons, Gathering, Blood/Gore, Fi symbols

Audio recognition

Abuse: Abuse (severe), Abuse (mild)

Advertisement: Referrals, Recruitment ads, Product ads, Trading ads, Investment ads, Game ads, E-

Illegal: Sensitive music, Contrabands, Illegal or banned activities, Illegal organizations

Political: Positive

Porn: Vulgar audio

Violence/Terrorism: Terrorist organizations, Descriptions of horrific and bloody scenes, Weapons

Moaning: Vulgar audio

Keyword library used for audio moderation

test

Storage

Storage Path

Bucket

Region ap-tokyo

Backup Storage Path

Bucket

Region ap-mumbai

Folder

/Audit/(Year)-(Month)-(Day)/

File Name

{StreamID}-Audit-(Hour)-(Minute)-(Second){Ext}

Bound Domain Names

.com

Unbind

Deleting a Template

Note:

If the template has been associated, you must first [Unbinding](#) it before performing a deletion process.

Note that a deleted template cannot be recovered. Proceed with caution.

1. From the left navigation bar, choose **Feature Configuration > Content moderation**.
2. Select the successfully created moderation template, click **Delete** in the upper part.

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Content moderation

Moderation templates Keyword libraries

Live moderation is a paid feature. For the billing details, see [Billing Documentation](#)

Create template Bind Domain Name

test001

Moderation Configuration

Template Name test001

Template ID

Template Description

Screencapture/Segment policy

Content type to moderate All moderations

Screencapture interval 2s

Audio segment duration 15s

Recognition policy

Image Recognition

Advertisement: QR code/barcode detection, Logo detection
Illegal: Delinquent conduct, Counterculture, Illegal or non-compliant content, Contrabands, Persona
Political: Positive figures, Foreign/Regional leaders, Badly-behaved celebrities, Positive flags and logo
Porn: Nudity/Sexual activity, Sexual innuendo/vulgarity, Sex products
Sexy: Sexy clothing - women, Sexy clothing - men, Sexy or skin baring, Close-ups of certain body par
Age-inappropriate: Age-inappropriate, Illegal emojis
Violence/Terrorism: Hot weapons, Large military weapons, Cold weapons, Gathering, Blood/Gore, f
symbols

Audio recognition

Abuse: Abuse (severe), Abuse (mild)
Advertisement: Referrals, Recruitment ads, Product ads, Trading ads, Investment ads, Game ads, E
Illegal: Sensitive music, Contrabands, Illegal or banned activities, Illegal organizations
Political: Positive
Porn: Vulgar audio
Violence/Terrorism: Terrorist organizations, Descriptions of horrific and bloody scenes, Weapons
Moaning: Vulgar audio

Keyword library used for audio moderation test

Storage

Storage Path Bucket Region ap-tokyo

Backup Storage Path Bucket Region ap-mumbai

Folder /Audit/{Year}-{Month}-{Day}/

File Name {StreamID}-Audit-{Hour}-{Minute}-{Second}{Ext}

Bound Domain Names None

3. Confirm it if you wish to delete the current moderation template, click **Confirm** to delete successfully.

Delete template X

Are you sure you want to deletetest001 ?

Confirm Cancel

Related Operations

For specific instructions and additional information on binding and unbinding moderation templates at the domain level, please refer to [Live Streaming Review Configuration](#).

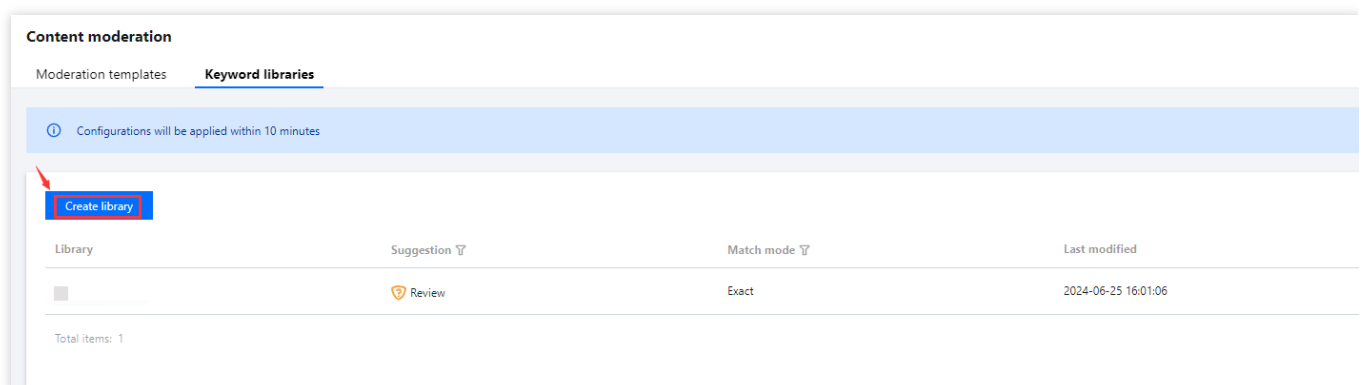
Custom Dictionary

Last updated : 2024-07-11 17:45:00

Live screen auditing and AAS can bind to custom dictionaries to personalize the recognition of specific entries and set them to be either green-lit or hit as violations. Once set-up is successful, dictionary contents become effective within 10 minutes.

Creating a New Dictionary

1. Log in to the [CSS console](#), navigate to Feature Configuration > Content moderation > **Keyword libraries**.
2. Click **Create library**. In the pop-up window, fill in the configuration items based on your actual business requirements.



Configuration Item	Required Item	Description
Library name	Yes	Library Name. It only contains up to 32 characters, in a combination of Chinese characters, letters, digits, and underscores.
Suggestion	Yes	You can select Block or Review . Block: The information is confirmed to be blocked. Review: The information might be undesirable and requires manual recognition.
Match mode	Yes	Exact matching only supports Chinese. Exact Matching. It performs a one-to-one match with the input text, directly hitting the output when the input text is identical with the output one.

Create library

Library name *

Suggestion ⓘ * ☒ Block ☐ Review

Match mode * ☒ Exact ⓘ

Confirm

Cancel

Note:

Choosing the appropriate handling suggestions will result in varying levels of hitting, corresponding to the Suggestion field in the return values of the interface.

3. Click **Confirm** to save the current template.

Modifying Dictionary

Steps

1. On the custom dictionary page, select the dictionary that needs to be operated, click **Edit** on the right, then modify the dictionary configuration information according to business requirements in the pop-up window on the right.

Content moderation

Moderation templates

Keyword libraries

ⓘ

Configurations will be applied within 10 minutes

Create library

Library	Suggestion ▾	Match mode ▾	Last modified
test	<div><div></div>Block</div>	Exact	2024-07-11 15:07:55
<div><div></div></div>	<div><div></div>Review</div>	Exact	2024-06-25 16:01:06

Total items: 2

2. Click **Add keyword**, then add samples in the pop-up window and incorporate sensitive words according to business requirements.

Keyword list Up to 10,000 keywords can be added

Add keyword

Delete

All

Keyword

Add keywords

Category *

Category

Keywords *

Max 2,000 keywords; press Enter to separate

1. Press Enter to separate keywords. Each keyword cannot exceed 20 characters.

2. You can also copy keywords (max 20,000) to the input box. Make sure they are separated with line breaks.

3. A total of 10,000 keywords can be added.

Confirm

Cancel

2.1 You can select **Category**. Enter **keyword**, and separate multiple keywords by pressing enter. Submit no more than 2,000 at a time.

Note:

Only supports the recognition of sensitive words in Chinese.

Keywords are confirmed by newline. Each keyword length is within 20 Chinese characters.

Batch import is supported via the copy-paste method, with a single-time maximum of 2,000 keywords, separated by line feed character.

The maximum number of sensitive words that can be added is 10,000.

3. Click **Save** in the lower-right corner to save the current template, thereby completing the modification of the custom dictionary.

Edit library

Basic info

Library name *

Suggestion ⓘ * ☒ Block ☐ Review

Match mode * ☒ Exact ⓘ

Last modified --

Keyword count ⓘ 1

Keyword list

Up to 10,000 keywords can be added

<input type="checkbox"/> Keyword	Keyword ID	Category	Creation Time	Operation
<input type="checkbox"/> fight each other		Illegal	2024-07-11 15:11:51	Delete

Total items: 1

10 ▾ / page

1 / 1 page

4. Once the custom dictionary has been configured, you can select **Associate** image recognition or audio recognition during the creation of the moderation template within the recognition policy configuration.

Deleting a Dictionary

1. On the custom dictionary page, locate and select the desired dictionary, then click **Delete** on the right to remove the dictionary.

Content moderation

Moderation templates

Keyword libraries

Configurations will be applied within 10 minutes

Create library

Library	Suggestion ▾	Match mode ▾	Last modified
test	<div>Block</div>	Exact	2024-07-11 15:07:55
	<div>Review</div>	Exact	2024-06-25 16:01:06

Total items: 2

2. After deletion, an **Information Confirmation Prompt** dialog box will appear. Click **Confirm** to delete the custom dictionary.

Note

This library has 1 keyword(s), which will also be deleted. Are you sure?

Confirm

Cancel

Adaptive Bitrate

Last updated : 2024-02-02 09:15:11

With the adaptive bitrate feature, the playback bitrate of a live stream can change smoothly based on network conditions. This ensures a smooth playback experience under changing network conditions.

Notes

After creating a template, you can bind it with a playback domain name. The binding takes effect in 5-10 minutes. A playback domain can be bound with **multiple adaptive bitrate templates**, and an adaptive bitrate template can be bound to **multiple playback domains**.

Each adaptive bitrate template can have up to 15 streams.

For the adaptive bitrate feature to work, the player needs to support adaptive bitrate.

The GOP for the streams of an adaptive bitrate template must be identical.

The codec for the streams of an adaptive bitrate template must be the same.

Adaptive bitrate playback addresses only support HLS and WebRTC playback protocols. For the address concatenation rules, please refer to the [Address Generator](#).

Creating an Adaptive Bitrate Template

1. Log in to the [CSS console](#) and select **Feature Configuration > Adaptive Bitrate** on the left sidebar.
2. Click **Create template** and complete the following settings:
Basic information: The template name and description. For details, see [Basic Information](#).
Stream information: See [Stream Information](#).
3. Click **Add stream** to add a new stream to the template. You can add up to 15 streams for a template.
4. Click **Save**.

Basic Information

Basic Information	Required	Description
Template name	Yes	Please enter 1 to 10 characters. The adaptive bitrate template name. It only supports letters and alphanumeric combinations and does not support pure digits. The template name must not duplicate existing transcoding template names, adaptive bitrate template names, or sub-stream names.
Template	No	The adaptive bitrate template description. It can only contain Chinese

description		characters, letters, digits, spaces, underscores (_), and hyphens (-).
Live subtitles	No	<p>The subtitle feature is deactivated by default, but can be manually activated. To activate this feature, it is necessary to bind a subtitle template. Choose a subtitle template to bind based on your business requirements. Preview and observe the effects of the subtitle template. You can adjust the subtitle template according to business needs at any time.</p>

Create template

Bind Domain Name

Create Template

Adaptive bitrate details

Template Name *

Enter 1-10 characters

Supports letters and numbers; cannot contain only numbers or be identical to the name of an existing transcoding template or stre

Template Description

Please describe template

Supports Chinese characters, letters, digits, spaces, and _-

Live subtitles

☐

Convert speech in live streaming to text in real time. For details, see [Live Subtitling](#). Using this feature may incur live transcod recognition fees, and speech translation fees (charged by MPS). [Learn more](#)

Stream Information

Stream Information	Required	Description
Transcoding type	Yes	The optional transcoding types, include standard transcoding and TSC transcoding.
Stream name	Yes	<p>Please enter 1 to 10 characters.</p> <p>Substream Template Name supports 1-10 characters, only allowing letters and alphanumeric combinations, and does not support pure digits.</p> <p>The substream name cannot be duplicated with existing transcoding template names, adaptive bitrate template names, and substream names.</p>
Video quality	No	You can choose Smooth , SD , or HD . After you select a value, the system will automatically enter the recommended video bitrate and height, which can be modified.
Video bitrate (Kbps)	Yes	<p>The output video bitrate. Value range: 101-8000.</p> <p>If you enter a value not larger than 1,000, it must be a multiple of 100.</p> <p>If you enter a value larger than 1,000, it must be a multiple of 500.</p>

Video resolution (px)	Yes	By default, you set the height of the output video. You can also set the short side length . The value must be in the range of 2-3000 and must be multiple of two. The other side will be scaled proportionally.
DRM encryption	Yes	Disabled by default and can be enabled manually. To enable DRM encryption, you need to first obtain the key information in DRM Management . DRM schemes including Widevine, FairPlay, and NormalAES are supported for HLS playback. For FairPlay encryption, you need to upload the certificate you obtain from Apple to your player. Encryption Types: Default Widevine , Optional Fairplay and NormalAES.
Codec	No	The original codec is selected by default. You can change it to H.264, H.265, or AV1. The codec for all the streams in the same adaptive bitrate template must be the same.
Video frame rate (fps)	No	You can choose to keep the original frame rate or set a video frame rate. By default, the original frame rate is maintained. The video frame rate setting value range: 1 fps - 60 fps.
GOP(seconds)	No	The GOP is not specified by default. Value range: 1-6. The higher the GOP, the higher the latency. A smaller GOP may potentially lead to stuttering. The GOP for all the streams in the same adaptive bitrate template must be the same.
Loudness	No	Through this feature, the volume of the video can be adjusted. The larger the value, the greater the volume. The range for setting the volume loudness is from -40 to -10 LKFS. Currently, the simultaneous configuration of loudness and subtitle features is not supported.
Parameter limit	No	Parameter limits are disabled by default. After a limit is enabled, if you enter a value higher than the original, the original will be used. This can avoid video quality issues caused by using high video quality settings to transcode videos of low quality.

Streams

▼ Stream 1

Transcoding Type

Standard Transcoding

Top Speed Codec Transcoding

Stream name *

Enter 1-10 characters

Supports letters and numbers; cannot contain only numbers or be identical to the name of an existing transcoding template or stream.

Video quality

Smooth

SD

HD

Video Bitrate *

101-8000

kbps

Video Resolution *

Set the height ▼

Enter the height (2-3,000)

px

Enter a multiple of 2. The other side will be scaled proportionally according to resolution.

Width

Height

Width

Height

DRM encryption

☒

Supports Widevine, FairPlay, and NormalAES DRM encryption for HLS playback. For FairPlay DRM, you need to upload the certificate you obtain from Apple to your player. [Obtaining a FairPlay certificate](#)

Before you enable DRM encryption, please go to [DRM Management](#) to configure the key information.

Type *

☒ Widevine

☐ Fairplay

☐ NormalAES

Codec

☒ Original codec

☐ H.264

☐ H.265

☐ AV1

The codec for the streams of an adaptive bitrate template must be the same

Video Frame Rate

Specify a fram ▼

1-60

fps

GOP

1-6s

s

Higher GOP means higher latency, while low GOP may cause stutter. The GOP for the streams of an adaptive bitrate template must be identical.

Loudness

-40~-10

LKFS

The loudness. The larger the value, the louder.

Parameter Limit

The output video height cannot exceed the original height ⓘ ☒

The output frame rate cannot exceed the original frame rate ⓘ ☒

The output bitrate cannot exceed the original bitrate ⓘ ☒

[Advanced Configuration ▲](#)

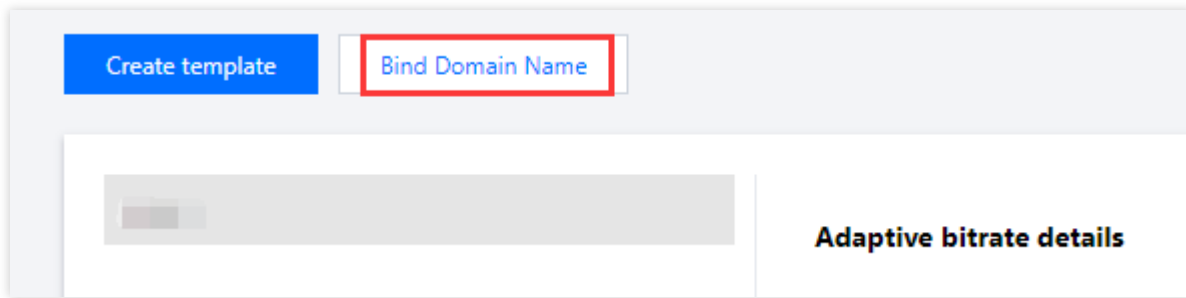
Binding a Domain Name

1. Log in to the [CSS console](#). Select **Feature Configuration > Adaptive Bitrate** on the left sidebar.
2. Bind a domain name in either of two ways:

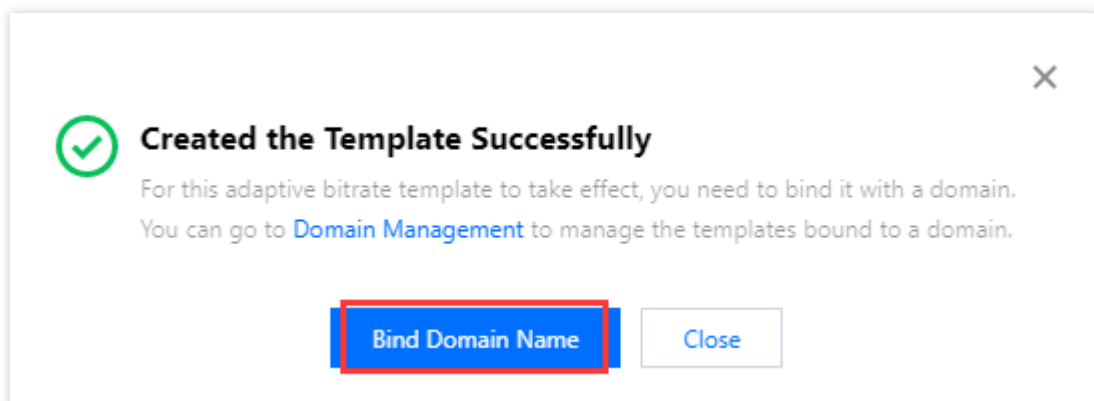
Bind a domain to an existing template: Click **Bind Domain Name** in the top left.

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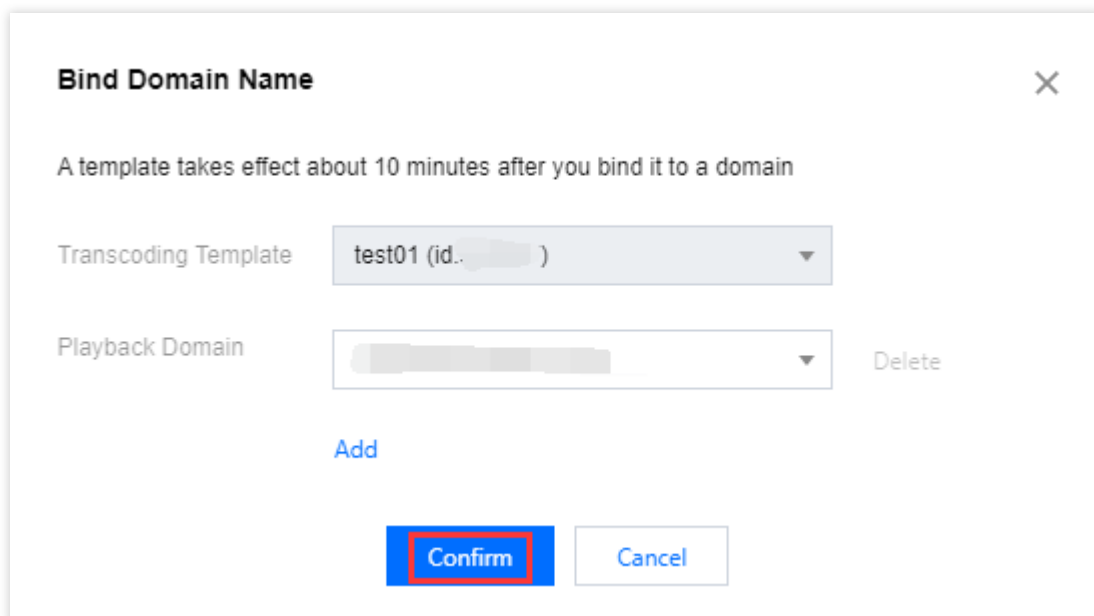
Page 331 of 553



Bind a domain after creating a template: After [creating an adaptive bitrate template](#), click **Bind Domain Name** in the pop-up window.



3. Select an **adaptive bitrate template** and a **playback domain** and then click **Confirm**.



Note

You can click **Add** to bind a template to multiple playback domains.

Unbinding a Domain Name

1. Log in to the [CSS console](#). Select **Feature Configuration > Adaptive Bitrate** on the left sidebar.
2. Select the target template and click **Unbind**.

Adaptive bitrate details Delete Edit

Template Name: test01
Template ID:
Template Description:
Live subtitles: Close
Streams:

test02 (ID:)

Transcoding Type	Standard Transcoding	Video Resolution	Long side:1000 px Short side: scale proportionally
Video Bitrate	3000 kbps	The output video height cannot exceed the original height	Yes
DRM encryption	Enable		
Type	Widevine		
Track	AUDIO/UHD1	The output frame rate cannot exceed the original frame rate	No
Video Encoding	Original codec		
Video Frame Rate	30 fps	The output bitrate cannot exceed the original bitrate	No
Keyframe Interval/GOP	2 s		
Loudness	-		

test03 (ID:)

Transcoding Type	Standard Transcoding	Video Resolution	Long side:1500 px Short side: scale proportionally
Video Bitrate	5000 kbps	The output video height cannot exceed the original height	No
DRM encryption	Enable		
Type	Fairplay		
Track	AUDIO/UHD2	The output frame rate cannot exceed the original frame rate	Yes
Video Encoding	Original codec		
Video Frame Rate	Same as source	The output bitrate cannot exceed the original bitrate	No
Keyframe Interval/GOP	2 s		
Loudness	-20 LKFS		

Bound Domain Names: Unbind

3. In the pop-up window, click **Confirm**.

Are You Sure You Want to Unbind This Template from the Domain Name? ✕

After unbinding, current live streaming will not be affected while this operation will be valid for live streams pushed in the future.

Confirm

Cancel

Modifying a Template

1. Log in to the [CSS console](#). Select **Feature Configuration > Adaptive Bitrate** on the left sidebar.
2. Select the target template and click **Edit** on the right to modify it.

Adaptive bitrate detailsDeleteEdit

Template Name: test01

Template ID:

Template Description:

Live subtitles: Close

Streams

test02 (ID:)

Transcoding Type	Standard Transcoding	Video Resolution	Long side:1000 px; Short side: scale proportionally
Video Bitrate	3000 kbps	The output video height cannot exceed the original height	Yes
DRM encryption	Enable		
Type	Widevine		
Track	AUDIO UHD1	The output frame rate cannot exceed the original frame rate	No
Video Encoding	Original codec		
Video Frame Rate	30 fps	The output bitrate cannot exceed the original bitrate	No
Keyframe Interval/GOP	2 s		
Loudness	-		

test03 (ID:)

Transcoding Type	Standard Transcoding	Video Resolution	Long side:1500 px; Short side: scale proportionally
Video Bitrate	5000 kbps	The output video height cannot exceed the original height	No
DRM encryption	Enable		
Type	Fairplay		
Track	AUDIO UHD2	The output frame rate cannot exceed the original frame rate	Yes
Video Encoding	Original codec		
Video Frame Rate	Same as source	The output bitrate cannot exceed the original bitrate	No
Keyframe Interval/GOP	2 s		
Loudness	-20 LKFS		

Bound Domain Names: Unbind

3. After modification, click **Save**.

Deleting a Template


Note

If a template has been bound to domains, you need to [unbind](#) them before you can delete the template. Once the template is deleted, it cannot be recovered. Please proceed with caution.

1. Log in to the [CSS console](#). Select **Feature Configuration > Adaptive Bitrate** on the left sidebar.
2. Select the target template (make sure it's not bound to a domain), and click **Delete**.

Adaptive bitrate detailsDeleteEdit


Template Name: test01

Template ID: 


Template Description:

Live subtitles: Close

Streams

test02 (ID: )

Transcoding Type	Standard Transcoding	Video Resolution	Long side:1000 px Short side: scale proportionally
Video Bitrate	3000 kbps	The output video height cannot exceed the original height	Yes
DRM encryption	Enable		
Type	Widevine		
Track	AUDIO/UHD1	The output frame rate cannot exceed the original frame rate	No
Video Encoding	Original codec		
Video Frame Rate	30 fps	The output bitrate cannot exceed the original bitrate	No
Keyframe Interval/GOP	2 s		
Loudness	-		

test03 (ID: )

Transcoding Type	Standard Transcoding	Video Resolution	Long side:1500 px Short side: scale proportionally
Video Bitrate	5000 kbps	The output video height cannot exceed the original height	No
DRM encryption	Enable		
Type	Fairplay		
Track	AUDIO/UHD2	The output frame rate cannot exceed the original frame rate	Yes
Video Encoding	Original codec		
Video Frame Rate	Same as source	The output bitrate cannot exceed the original bitrate	No
Keyframe Interval/GOP	2 s		
Loudness	-20 LKFS		

Bound Domain Names: None

3. In the pop-up window, click **Confirm**.

Delete template×

Are you sure you want to delete the adaptive bitrate template test01 ?

ConfirmCancel

Standby Streams

Last updated : 2024-06-19 16:58:48

This document shows you how to create, bind, unbind, modify, and delete a standby stream template. A standby stream shows a video or image that becomes active automatically when your live stream is interrupted, helping you improve viewing experience. Once the original stream is recovered, CSS will switch back.

Notes

After creating a template, you need to bind it to a push domain. The configuration takes effect 5-10 minutes after binding.

Binding, unbinding, or modifying a template affects only new live streams and not ongoing ones. To make the change apply to ongoing live streams, you need to stop them and push them again.

You can create up to **50** standby stream templates.

The standby stream feature cannot differentiate between normal stream interruption and abnormal stream interruption. When the stream is interrupted, the standby stream service is triggered by the system.

Prerequisites

You have activated CSS and added a [push domain](#).

Creating a Standby Stream Template

1. Log in to the [CSS console](#). Select **Feature Configuration > Standby Streams** on the left sidebar.
2. Click **Create template**.
3. Enter a template name, which can be up to 30 characters long and can contain Chinese characters, letters, numbers, underscores (`_`), and hyphens (`-`).
4. Fill in the template description, which only supports Chinese, English, numbers, spaces, underscores, and hyphens, not exceeding 1024 bytes (Note: Chinese characters are counted as 3 bytes each).
5. Select the stream type, which can be image or video.

You can choose to upload images in JPG or PNG format, with a file size less than 5MB. The uploaded image file names only support: English, numbers, and the symbols `- ! _ . *`

You can enter a video URL, which supports FLV and MP4 format audio and video files. The required audio encoding format is AAC.

- Set the stream interruption waiting time (the waiting duration after the stream interruption before playing the standby content) to a value between 0 and 6 seconds.
- Set the maximum standby content duration, with a default value of 120 seconds. This is the maximum playback duration for the standby content. If the standby content is shorter than this duration, it will be looped. The value cannot be greater than 1,000,000.
- Click **Save**.

Standby streams

A standby stream shows a video or image that becomes active automatically when your live stream is interrupted. CSS will switch back to the original stream once it is recovered. The live standby stream is a paid value-added service. Using this feature will incur [value-added feature fees](#).

[Create template](#) [Bind Domain Name](#)

Create Template

Create template

Template Name *

Enter 1-30 characters


Only supports letters, digits, underscores, and dashes

Template Description

Max 1,024 bytes (one Chinese character is 3 bytes); supports Chinese characters, letters, digits, spaces, and _-

Standby stream *

☒ Image ☐ Video



[Select image](#)

The image must be in JPG or PNG format and smaller than 5 MB, and the filename can only contain letters, numbers, and special characters

Wait time ⓘ *

—

0

+

s

Max playback time ⓘ *

—

120

+

s

[Save](#) [Cancel](#)

Binding a Domain Name

- Log in to the CSS console and select **Feature Configuration** > [Standby Streams](#) on the left sidebar.
- You can bind a domain to a template in one of two ways:

Bind a domain to an existing template: Click **Bind Domain Name** in the top left.

Standby streams

A standby stream shows a video or image that becomes active automatically when your live stream is interrupted. CSS will switch back to the original live stream when the standby stream is interrupted. The live standby stream is a paid value-added service. Using this feature will incur [value-added feature fees](#).

[Create template](#)[Bind Domain Name](#)

Bind a domain after creating a template: After creating a standby stream template, click **Bind Domain Name** in the dialog box that pops up.



Created the Template Successfully

For the standby stream settings to take effect, you need to bind this template to a domain. You can also manage the standby stream settings of a domain in [Domain Management](#).

[Bind Domain Name](#)[Close](#)

3. In the pop-up window, select a **standby stream template** and a **push domain** and then click **Confirm**.

Bind Domain Name

Domain name binding takes effect in about 10 minutes after the configuration. Using the domain name for push will trigger the template.

Standby stream template test001 (id)

Push Domain .top

Delete

Add

Confirm Cancel

Note:

You can click **Add** to bind multiple push domains to a template.

Unbinding a Domain Name

1. Log in to the CSS console and select **Feature Configuration** > [Standby Streams](#) on the left sidebar.
2. Select the target template and click **Unbind**.

Standby streams

Template Name	test001
Template ID	
Template Description	test001
Standby stream	Preview
Wait time ⓘ	2 s
Max playback time ⓘ	120 s

Bound Domain Names .top **Unbind**

3. In the pop-up window, click **Confirm**.

Are You Sure You Want to Unbind This Template from the Domain Name? ✕

After unbinding, current live streaming will not be affected while this operation will be valid for live streams pushed in the future.

Confirm

Cancel

Modifying a Template

1. Go to **Feature Configuration** > [Standby Streams](#).
2. Select the target template and click **Edit** on the right to modify the template information.
3. After modification, click **Save**.

Standby streams

Template Name test001

Template ID 

Template Description test001

Standby stream [Preview](#)

Wait time ⓘ 2 s

Max playback time ⓘ 120 s

Bound Domain Names .top [Unbind](#)


Deleting a Template

Note:

If the template is already associated, you need to [Unbind Template](#) before you can perform the delete operation. Once a template is deleted, it cannot be recovered. Please proceed with caution.

1. Go to **Feature Configuration** > [Standby Streams](#).
2. Select the template you want to delete and click **Delete** in the top right.

Standby streams

Template Name	test001
Template ID	
Template Description	test001
Standby stream	Preview
Wait time ⓘ	2 s
Max playback time ⓘ	120 s

Bound Domain Names **None**

3. In the pop-up window, click **Confirm**.

Delete standby stream ×

Are you sure you want to delete test001

Confirm

Cancel

More

You can also **unbind** and **bind** domains and standby stream templates on the **Domain Management** page. For details, see [Standby Stream Configuration](#).

Live Stream Callback

Last updated : 2023-03-23 10:01:21

CSS supports callbacks. To use this feature, you need to create a callback template in the console, configure an address to receive callbacks for an event, and then bind the template with your push domain name. If the event triggers a callback during live streaming, Tencent Cloud will send a request to your server, which is responsible for responding to the request. After successful verification, the server will obtain a JSON packet of the callback through the address configured.

This document describes how to create, modify and delete a callback template in the console.

You can create a callback template in the following ways:

- Create a template in the CSS console. For details, see [Creating a Callback Template](#).
- Create a template with APIs. For the parameters and request sample, see [CreateLiveCallbackTemplate](#).

Must-knows

- After creating a template, you need to [bind it with a push domain name](#). The binding takes effect in about 5-10 minutes.
- Make sure the HTTP or HTTPS server you use to receive callbacks are able to receive requests and respond normally.
- In the console, you can only bind and unbind callback templates at the domain level. For callback rules bound to specific streams by APIs, you need to call [DeleteLiveCallbackRule](#) to unbind them.
- For information on callback protocols, see [How to Receive Event Notification](#).
- For information about the parameters in a callback, see the following documents:
 - [Stream pushing](#)
 - [Stream interruption](#)
 - [Recording](#)
 - [Screencapturing](#)
 - [Porn detection](#)
 - [Relay](#)
 - [Push errors](#)

Creating a Callback Template

1. Log in to the [CSS console](#).
2. Select **Event Center** > [Live Stream Callback](#) in the left sidebar.

3. Click **Create Template**, fill in the information, select the types of callbacks you want to receive, enter the callback URLs, and click **Save**.

Create Callback Template | Bind Domain Name | User Guide | View Usage

Create Template

Callback Configuration

Template Name *
Only support letters, digits, underscores, and dashes, and up to 30 chars

Template Description
Only support letters, digits, underscores, and dashes, and up to 100 chars.

Callback Key

Callback Type * ☒ Push Callback ☒ Interruption Callback ☒ Recording Callback ☒ Screenshot Capture Callback ☒ Porn Detection Callback

Push Callback *

Interruption Callback *

Recording Callback *

Screenshot Capture Callback *

Porn Detection Callback *

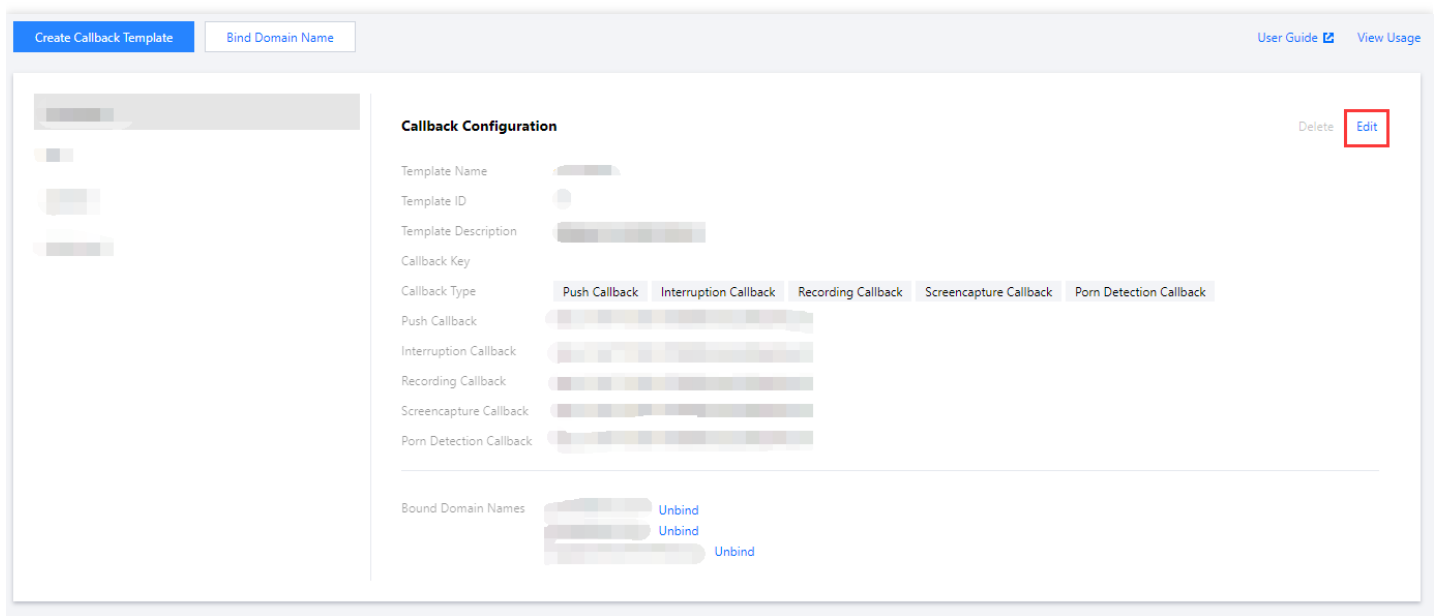
Save **Cancel**

Item	Description
Template Name	The callback template name, which can contain up to 30 Chinese characters, letters, numbers, underscores (_), and hyphens (-).
Template Description	The description of the callback template, which can contain up to 100 Chinese characters, letters, numbers, underscores (_), and hyphens (-).
Callback Key	A custom callback key. It can contain up to 32 letters and numbers. For details, see Common callback parameters .
Push Callback	Enter an HTTP or HTTPS address to receive push callbacks.
Interruption Callback	Enter an HTTP or HTTPS address to receive push interruption callbacks.
Recording Callback	Enter an HTTP or HTTPS address to receive recording callbacks.
Screenshot Capture Callback	Enter an HTTP or HTTPS address to receive screenshot capture callbacks.
Porn Detection Callback	Enter an HTTP or HTTPS address to receive porn detection callbacks.

Item	Description
Error callbacks	Enter an HTTP or HTTPS address to receive push error callbacks.

Modifying a Callback Template

1. Select **Event Center** > [Live Stream Callback](#).
2. Select the target callback template and click **Edit** to modify its information.
3. After modification, click **Save**.



Deleting a Callback Template

If a template is bound to a domain name, you need to unbind it before you can delete it. For detailed directions, see [Unbinding Callback Template](#).

1. Select **Event Center** > [Live Stream Callback](#).
2. Find the target callback template, and click **Delete**.
3. In the pop-up window, click **Confirm**.

Delete callback configuration

Confirm to delete callback configuration: test ?

Confirm

Cancel

DRM

Configuring DRM Encryption

Last updated : 2023-10-07 14:50:00

CSS offers DRM encryption capabilities based on Widevine, FariPlay, and NormalAES to help you protect your content and prevent piracy and hotlinking. This document shows you how to configure DRM encryption in the CSS console.

Must-Knows

Tencent Cloud only encrypts your content. DRM licenses are offered by third party licensing services SDMC and DRMtoday, which charge a licensing fee. To learn more details, please contact the companies.

Prerequisites

You have activated CSS and added a [playback domain name](#).

You have created an account at [SDMC DRM](#) or [DRMtoday](#) and configured an access key.

Console Settings


Configuring DRM key information

1. Log in to the CSS console and select **Feature Configuration** > [DRM management](#) on the left sidebar.
2. Click **Edit**, select a licensing provider (SDMC or DRMtoday), and fill in the key information.

If your licensing service provider is **SDMC**:

Enter your SDMC UID, Secret ID, and Secret key (you need to obtain the information from SDMC).

DRM management

 To enable DRM encryption, please obtain the key information from your DRM licensing service provider. [How do I get secret key information](#)
CSS supports Widevine, FairPlay, and NormalAES DRM encryption for HLS playback. For FairPlay DRM, you need to upload the license you

Secret key information

DRM licensing service

UID *



SecretID *

SecretKey *

If your licensing service provider is **DRMtoday**:

Enter your DRMtoday `Merchantname` , `MerchantUUID` , `MerchantAPIName` ,
`MerchantAPIPassword` , `KeySeedID` , and `IVSeedID` (you need to obtain the information from DRMtoday).

DRM management

 To enable DRM encryption, please obtain the key information from your DRM licensing service provider. [How do I get secret key information?](#) 
CSS supports Widevine, FairPlay, and NormalAES DRM encryption for HLS playback. For FairPlay DRM, you need to upload the license you obtain

Secret key information

DRM licensing service	<input type="text" value="DRMtoday"/>
MerchantName *	<input type="text" value="Enter the MerchantName"/>
MerchantUUID *	<input type="text" value="Enter the MerchantUUID"/>
MerchantApiName *	<input type="text" value="Enter the MerchantApiName"/>
MerchantApiPassword *	<input type="text" value="Enter the MerchantApiPassword"/>
KeySeedID *	<input type="text" value="Enter the KeySeedID"/>
IvSeedID *	<input type="text" value="Enter the IvSeedID"/>

[Save](#)[Cancel](#)**Creating a transcoding template and binding a domain**

1. Select **Feature Configuration** > [Live Transcoding](#) on the left sidebar.
2. Click **Create Transcoding Template** and toggle **DRM encryption** on.

Live transcoding is a value-added service and will be billed if you activate it. For more information, please see [Billing Documentation](#)

Create Transcoding Template

Bind Domain Name

Create Template

test

3r

Live Transcoding

Transcoding Type

Standard Transcoding

Top Speed Codec TranscodingAu

Template Name *

Enter 1-10 characters

Support only letters or combination of letters and digits

Template Description

Please describe template

Only support letters, digits, underscores, and dashes.

Recommended Parameter

SmoothSDHD

Video Bitrate *

101-8000

kbps

Video Resolution *

Set the short sideValue range: 0-3,000px

Enter a multiple of 2. The other side will be scaled

Short side

Long side

Short side

DRM encryption

Supports Widevine, FairPlay, and NormalAES DRM encryption for HLS play obtain from Apple to your player. [How do I get a license?](#) Before you enable DRM encryption, please go to [DRM Management](#) to con

Type *

Widevine

FairplayNormalAES

Advanced Configuration

Save

Cancel

Configuration Item	Required	Description

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DRM encryption	No	Whether to enable DRM encryption. It's disabled by default. Before enabling this feature, you need to configure DRM key information in "DRM management".
Type	Yes	Widevine, FairPlay, or NomalAES. For FairPlay encryption, you need to upload the certificate you obtain from Apple to your player. For details, see Obtaining a FairPlay certificate .

3. Click **Bind Domain Name** to bind the template to your playback domain.

Bind Domain Name

Domain name binding takes effect in about 10 minutes after the configuration. Please add "_transcoding template name" after the StreamName to generate a new URL for playing back the transcoded stream.

Transcoding Template

Playback Domain

Delete

Add

Confirm

Cancel

Obtaining the DRM-encrypted playback URL

Only HLS playback supports DRM encryption. Use the [Address Generator](#) to generate playback URLs (select the template you created). The HLS URL generated is DRM-encrypted.

Domain Type •

Playback Domain ▼

If you select push domain, a push address will be generated; and if you select playback domain, a playback address will be generated. If there is no av

AppName •

live

Use "live" by default. Only letters, digits, and symbols are supported.

StreamName •

Only support letters, digits, and symbols.

Expiration Time

UTC+8 ▼
2022-06-30 16:43:53

The expiration time of playback address is the setting timestamp plus the playback authentication expiration time, and the push address expiration tim

Transcoding Template

test ▼

Cancel Transcoding

If you select a transcoding template, the generated playback address will be the live streaming address after transcoding. If you want to play the origin generate the address.

Generate Address

Address Resolution Sample

Generation Result(Generate the following address according to the above settings)

Type	Playback Domain		
Expiration Time	2022-06-30 16:43:53 (UTC+8)	reference documentation	
RTMP URL	rtmp	<div></div> /live/demo_test	<div></div>
FLV URL	http	<div></div> ve/demo_test.flv	<div></div>
HLS URL	<div>DRM</div> http://	<div></div> demo_test.m3u8	<div></div>
WebRTC URL	webrtc://	<div></div> /live/demo_test	<div></div>

LEB (low latency live streaming) is a UDP-based live streaming solution featuring millisecond playback latency. **It's priced differently from LVB.** For details, see

Configuring your player

For the DRM encryption feature to work, your player must meet the following requirements:

It must have been equipped by [SDMC](#) with the ability to obtain and decrypt license information from video data.

Use FairPlay encryption for iOS players and Widevine or NormalAES for Android players.

On iOS, you need to apply for a certificate and upload it to the [SDMC console](#).

Note

You need to create an account first before you can visit the SDMC console. For detailed directions on how to create an SDMC account, see [Obtaining the UID and Key Information](#). If you encounter any problems, please [submit a ticket](#).

We will help you navigate the process.

Obtaining a FairPlay Certificate

Last updated : 2023-11-20 16:32:40

To encrypt your content with FairPlay, you need to obtain an FPS deployment package from Apple and upload the following files to SDMC's server.

FPS certificate file (`.der` or `.cer`)

Private key file (`.pem`)

Private key password file (`.txt`)

Application secret key (ASK) (`.txt`)

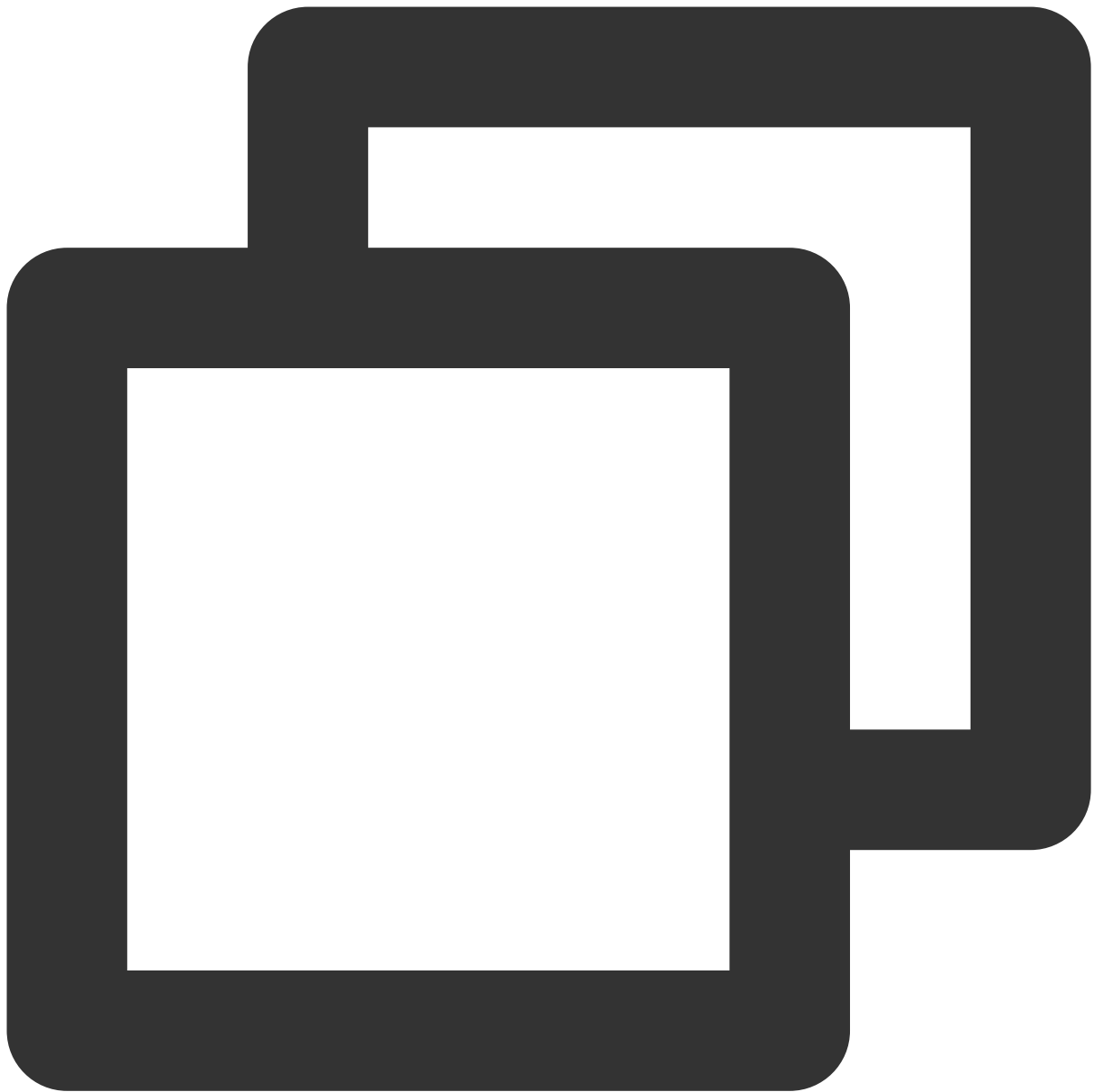
Directions

Step 1. Create an Apple developer account and request an FPS package

1. Create an [Apple developer account](#).
2. At the bottom of the [FairPlay Streaming](#) page, click **Request FPS Deployment Package**, and log in with your Apple developer account.
3. Fill out the form and submit it. After your request is approved, Apple will send you a package containing the FPS certificate generation guide.

Note

When asked if you have implemented and tested Key Security Module (KSM), you can paste the answer below:



I am using a 3rd party DRM company and the company has already built and tested KSM

Step 2. Create a private key and a certificate signing request (CSR)

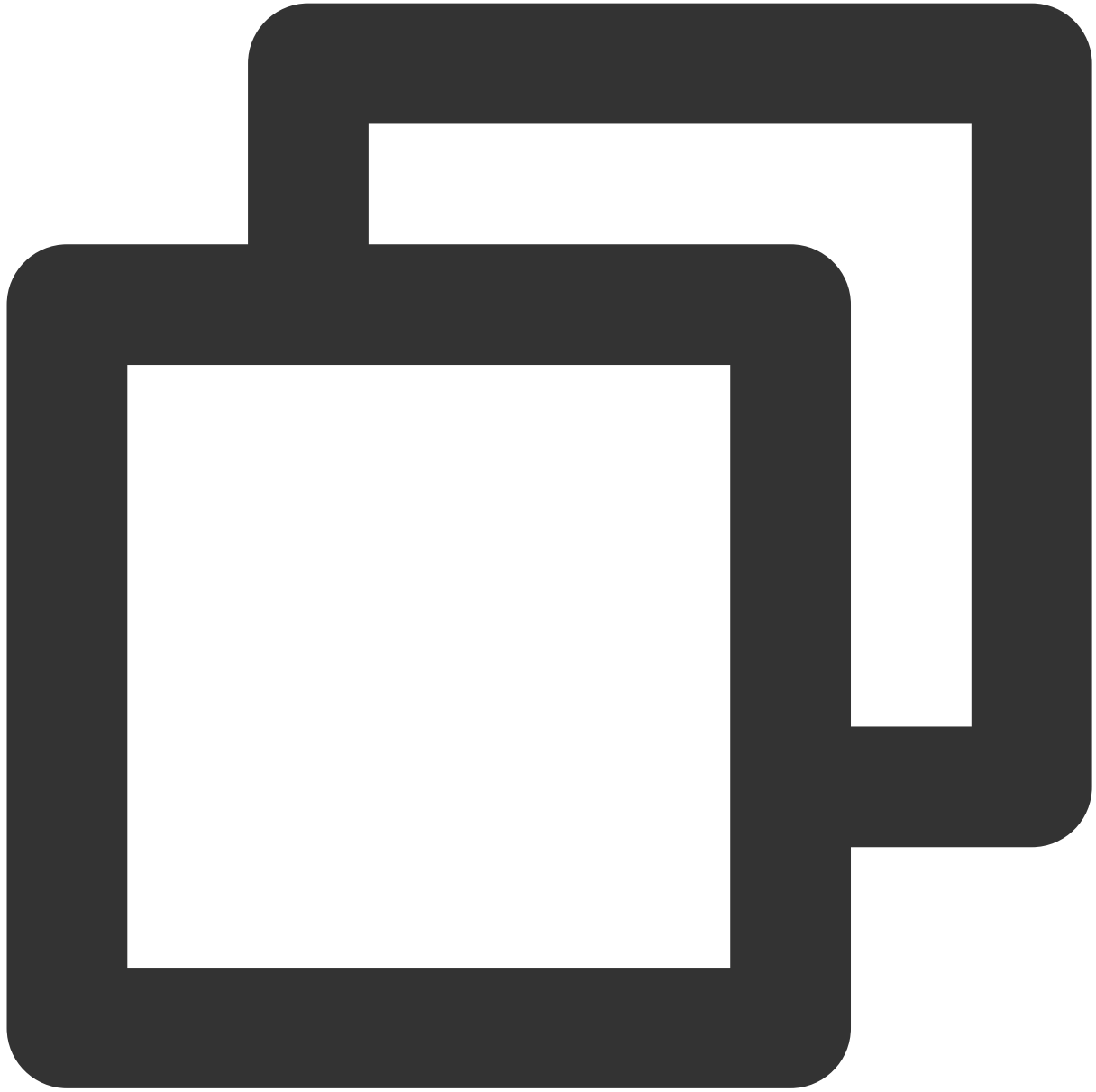
Create a private key file (`privatekey.pem`) and a CSR file (`certreq.csr`) as instructed in the FPS certificate generation guide. The following describes the OpenSSL method in the guide.

Note

Make sure OpenSSL is installed on the computer or server environment where this process is performed.

1. Create a private key file (`privatekey.pem`):

1.1 Run the command below to create a private key file:

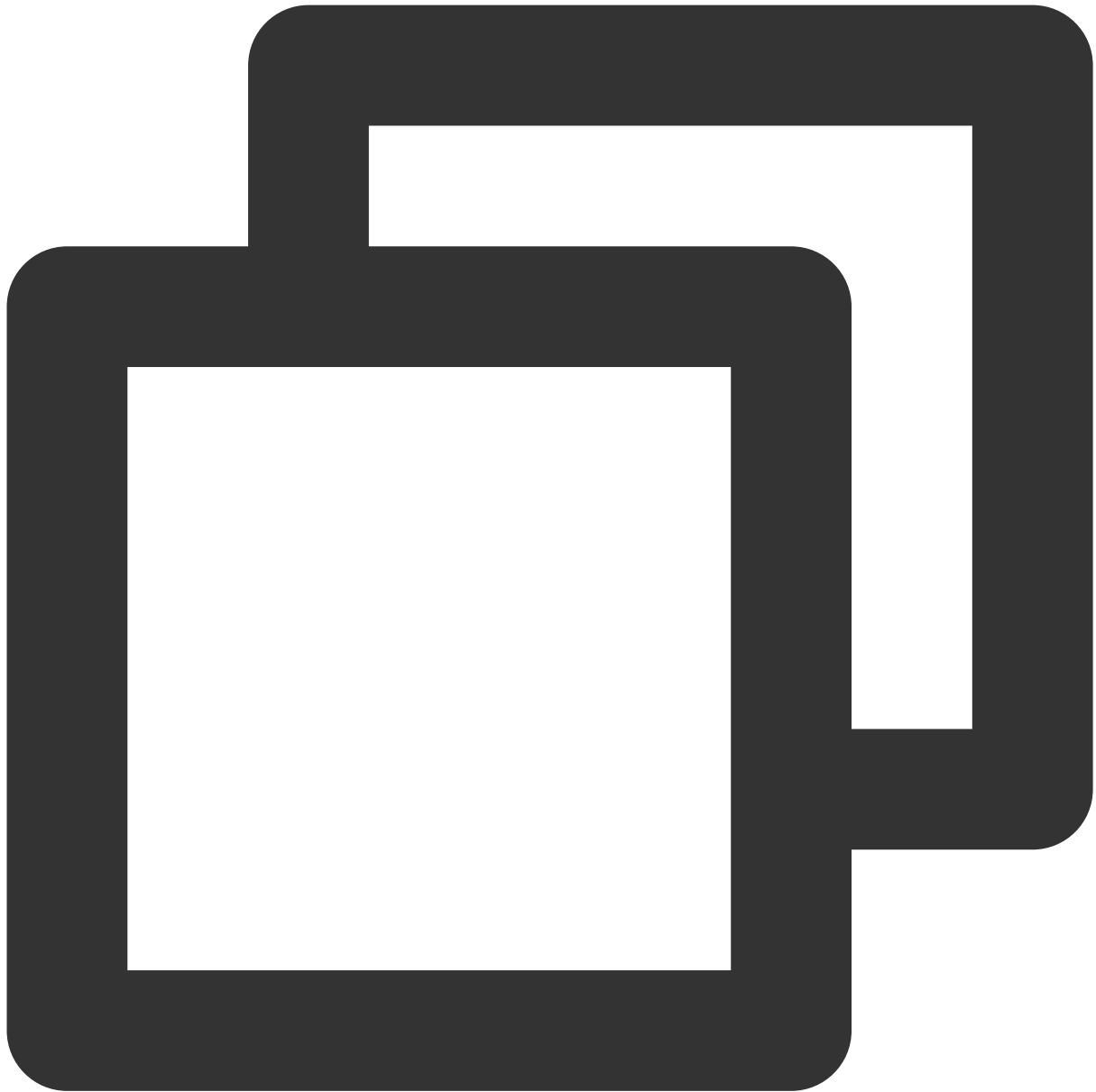


```
openssl genrsa -aes256 -out privatekey.pem 1024
```

1.2 Set a password (not longer than 32 characters) for the private key. Note it for later use.

2. Create a CSR file:

2.1 Run the command below (you can modify `-subj`):

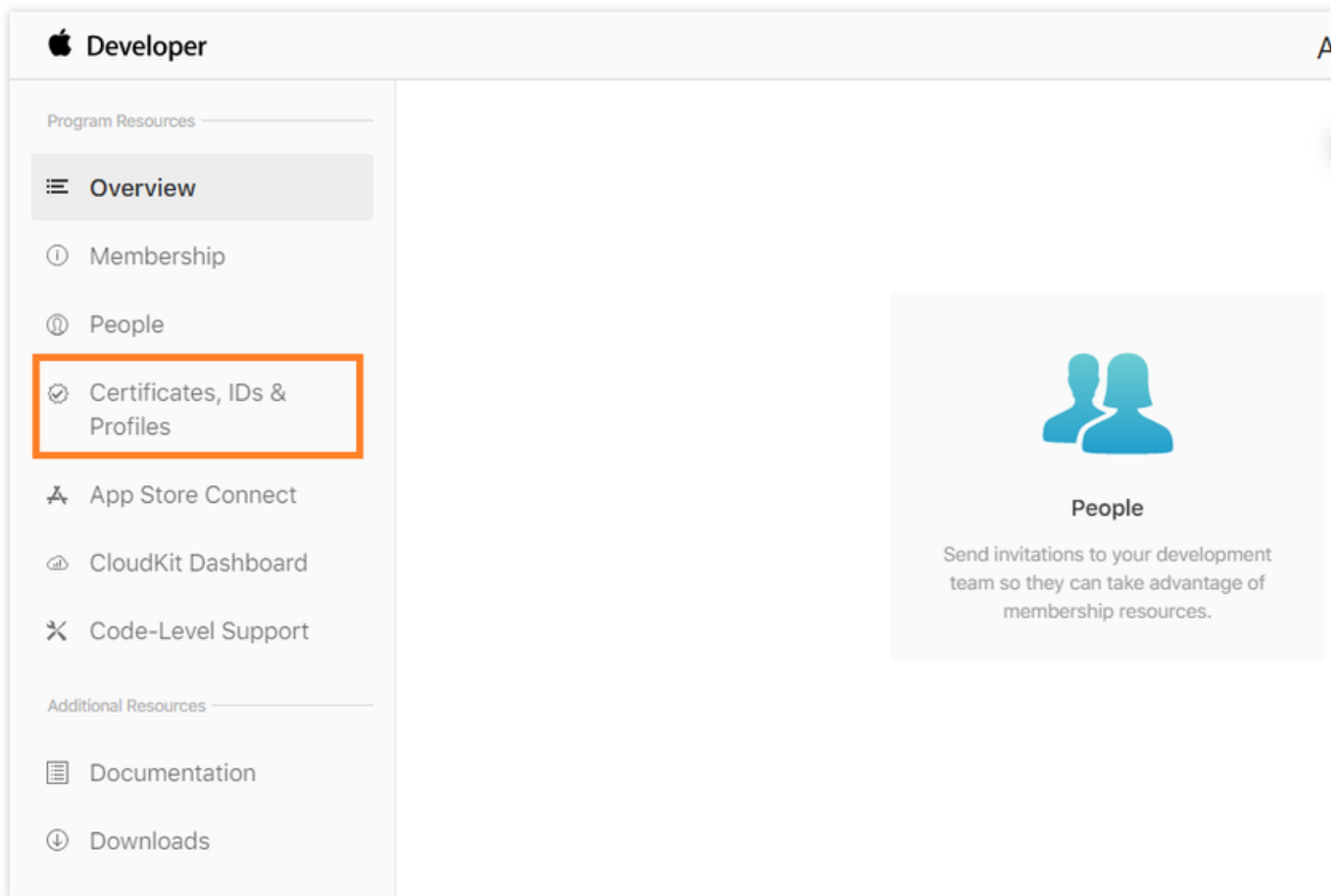


```
openssl req -new -sha1 -key privatekey.pem -out certreq.csr -subj "/CN=SubjectName/
```

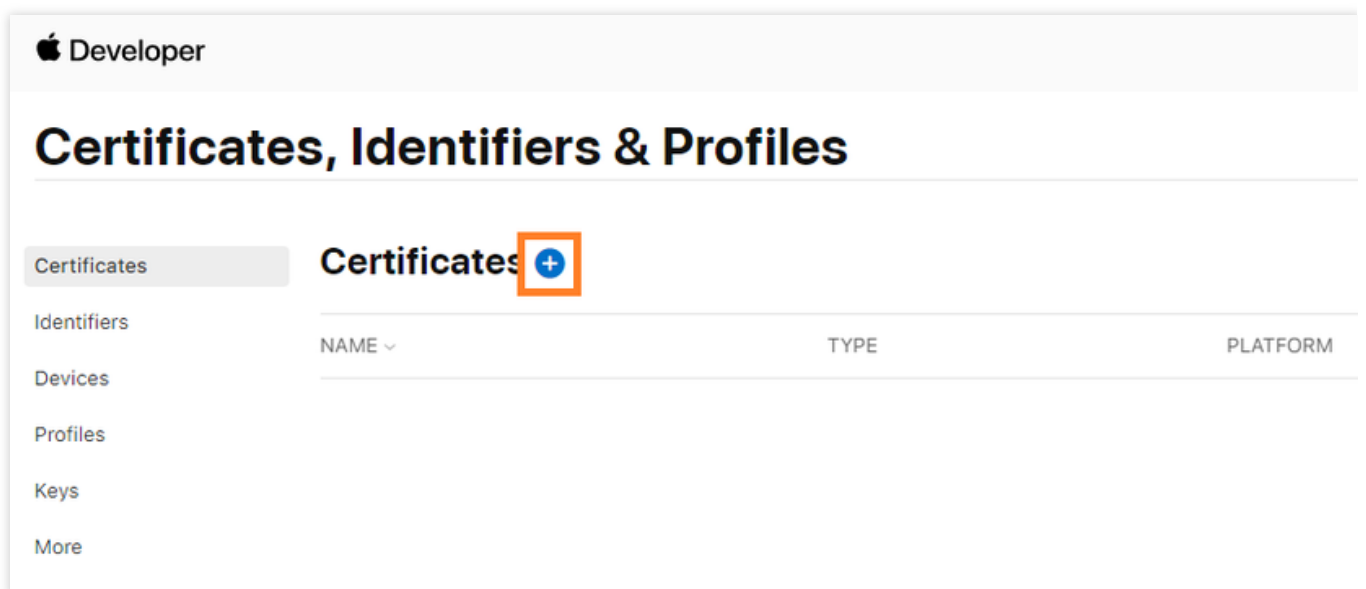
2.2 Enter the private key password configured in the [previous step](#).

Step 3. Generate the FPS certificate

1. Log in to [Apple Developer](#) and click [Certificates, IDs & Profiles](#).



2. Click + to enter the **Create a New Certificate** page.



3. Select **FairPlay Streaming Certificate** and click **Continue**.

[< All Certificates](#)

Create a New Certificate

Sign and send updates for websites.

- ☐ **WatchKit Services Certificate**
Establish connectivity between your notification server, the Apple Push Notification service sandbox, and production environment to update ClockKit complication data. When utilizing HTTP/2, the same certificate can be used to deliver app notifications, update ClockKit complication data, and alert background VoIP apps of incoming activity. A separate certificate is required for each app you distribute.
- ☐ **VoIP Services Certificate**
Establish connectivity between your notification server, the Apple Push Notification service sandbox, and production environment to alert background VoIP apps of incoming activity. A separate certificate is required for each app you distribute.
- ☐ **Apple Pay Payment Processing Certificate**
Decrypt app transaction data sent by Apple to a merchant/developer.
- ☐ **Apple Pay Merchant Identity Certificate**
A client TLS certificate that is used to authenticate you to Apple Pay Payment Processing Servers
You need to accept the agreement 'Apple Pay Platform Web Merchant Terms and Conditions'. [Review Agreement >](#)
- ☒ **FairPlay Streaming Certificate**
Enable the secure delivery of high value content to devices via the HTTP Live Streaming protocol.

Legacy

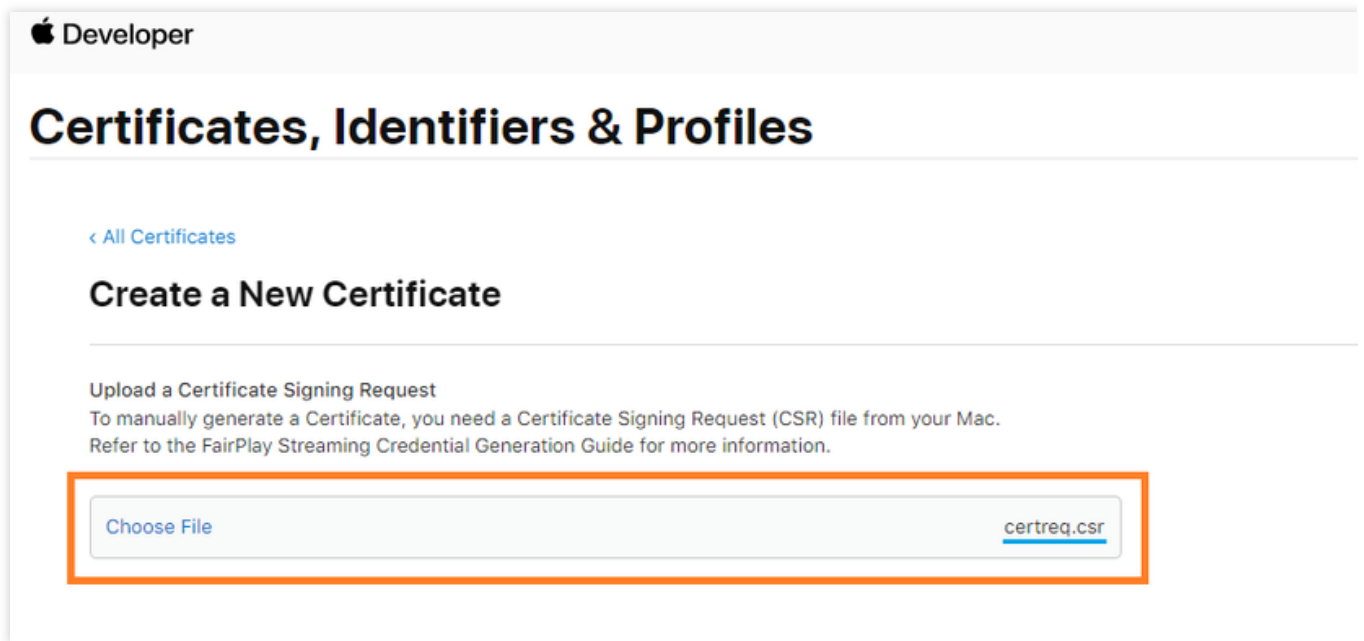
- ☐ **Safari**
Legacy Safari Extensions (.safariextz files) built with Safari Extension Builder and distributed through the Safari Extensions Gallery or your website, have been deprecated with Safari 12.

Intermediate Certificates

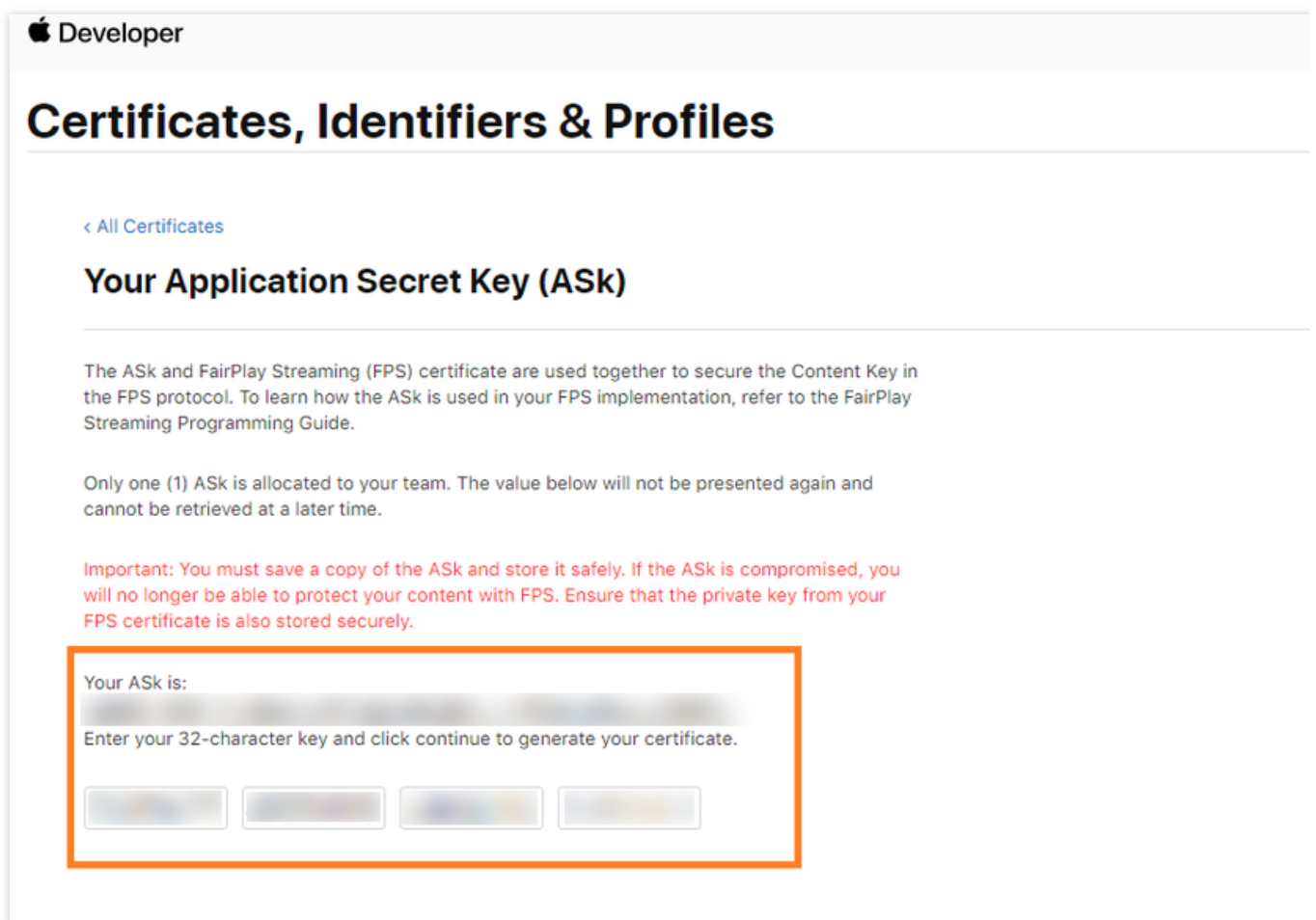
To use your certificates, you must have the intermediate signing certificate in your system keychain. This is automatically installed by Xcode. For more information about the intermediate signing certificate click the link below:

[Worldwide Developer Relations Certificate Authority >](#)

4. Click **Choose File**, select the `certreq.csr` file created, and click **Continue**.



5. Copy and save the ASK, paste it in the input field below, and click **Continue**.



6. A window will pop up to confirm that you have saved the ASK. Click **Generate**.

Have you saved your Application Security Key?

Before generating your certificate, make sure to save a copy of your Application Security Key in a safe place.

[Cancel](#)[Generate](#)

7. After the above steps are completed, the FPS certificate generated will appear in the certificate list.

Developer

Certificates, Identifiers & Profiles

Certificates

Identifiers

Devices

Profiles

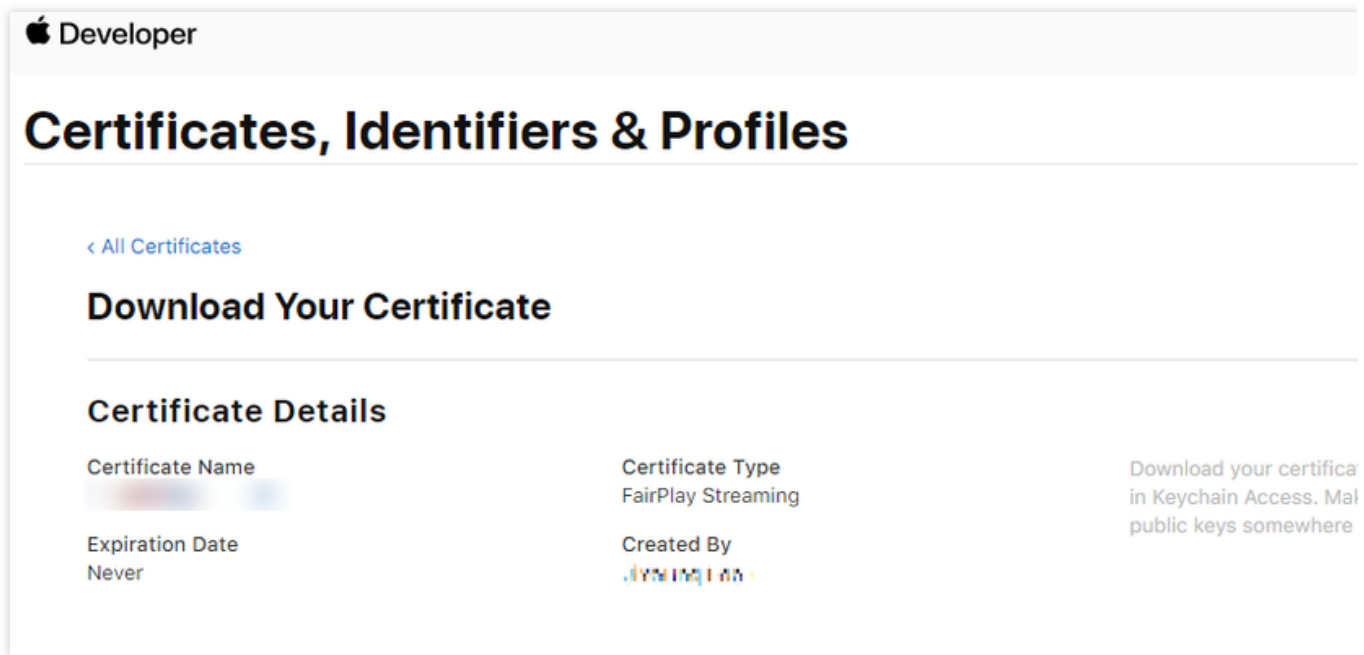
Keys

More

Certificates +

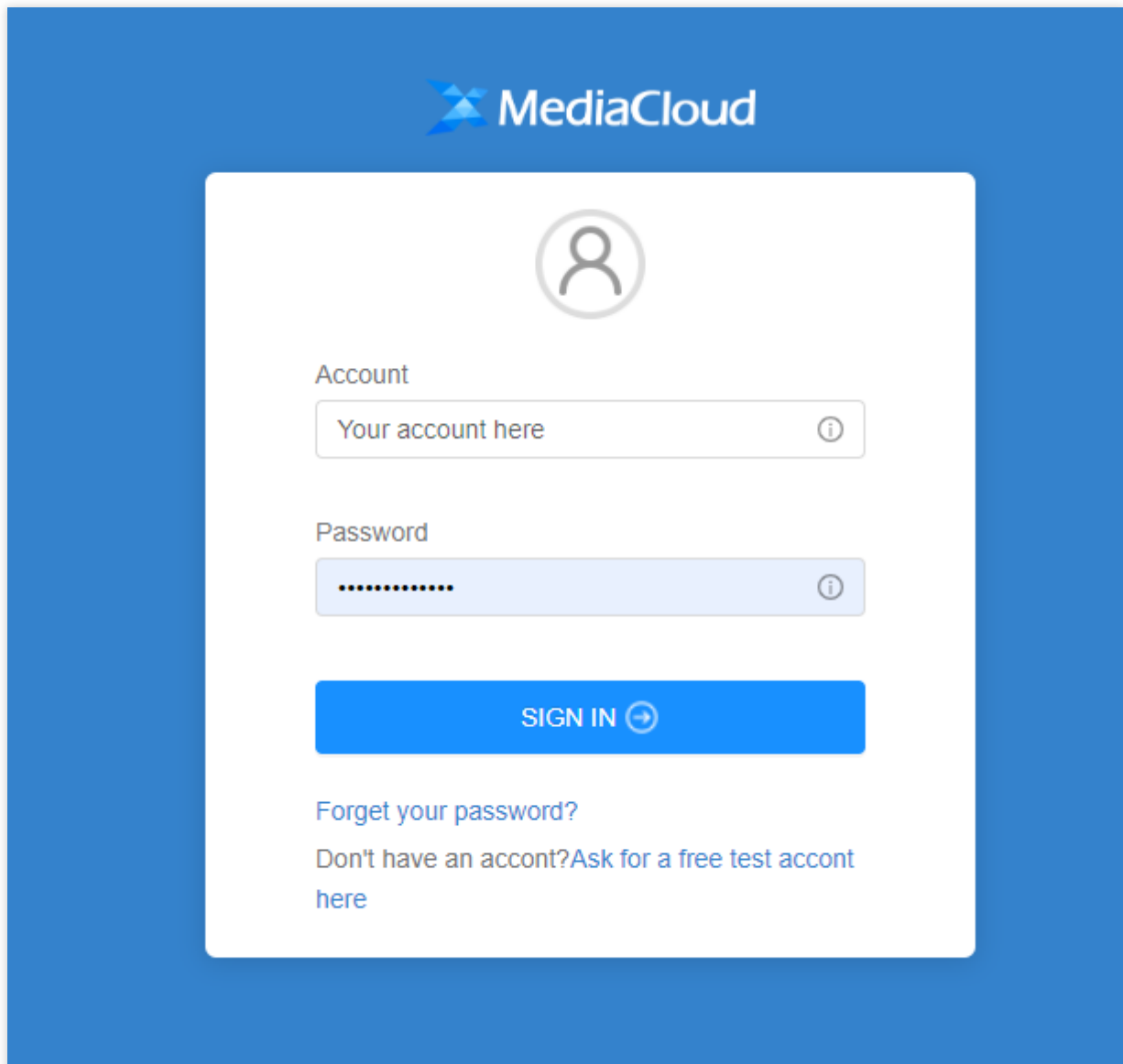
NAME ~	TYPE	PLATFORM
	FairPlay Streaming	iOS

8. Click **Download** to download the FPS certificate (`fairplay.cer`).

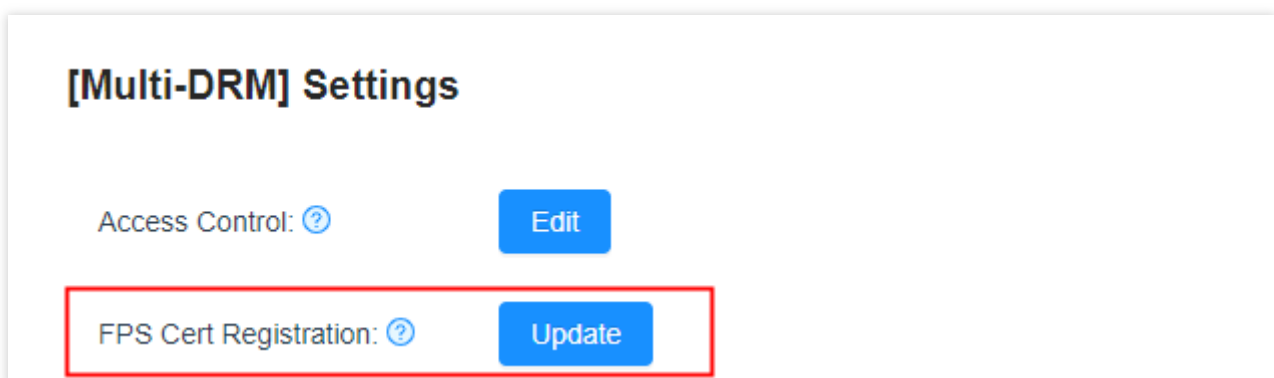


Step 4. Upload the certificate to SDMC's platform

1. Log in to [SDMC's DRM console](#) and find DRM settings in the menu.



2. On the DRM settings page, find **FPS Cert Registration**, and click **Update**.



3. Upload the FPS certificate, private key file, private key password file, and ASK file, and click **OK**.

FPS Cert Registration

X

* FPS Certification File(.der or .cer):

Select File

* Private Key File(.pem):

Select File

* Private Key Password File(.txt):

Select File

* Ask File(.txt):

Select File

Cancel

OK

Note

If you have any questions, please [submit a ticket](#).

Obtaining the UID and Key Information


Last updated : 2023-02-27 15:47:12


The licensing services of DRM encryption in CSS are provided by the third-party vendors SDMC and DRMtoday. To use DRM encryption, you need to provide CSS with your SDMC or DRMtoday user key. This document shows you how to obtain an SDMC or DRMtoday user key.


SDMC

Directions

1. Visit [SDMC's DRM service registration page](#).

**Location**
High-tech Industrial Park,
Nanshan District, Shenzhen,
China

**Make A Call**
+86-18617185008


**Send A Mail**
info@xmediatv.com

Leave a message, and we will send you free trial demo!

Your Name*


Your Company*

Your Email*

 +86

Tell Us About Project *

Send Message



2. Enter your information and click **Send Message**. You will receive an acknowledgement email from SDMC in a few hours, and the company's salespeople will contact you to confirm your information.

Thanks for your interesting in our solution. This is XMediaTV Business Team from SDMC, taking charge of OTT platform & Cloud business. Glad to work together with you.

Regarding to your project, we have the corresponding solution to meet your requirements and we also have delivered many global similar projects successfully. May i know your whatsapp or Skype to discuss directly?

who we are:

SDMC is invested by Tencent, which is one of the biggest internet company in China. SDMC and Tencent joint together launched Cloud Online Video SaaS platform TXMedia to provide high quality video streaming service to customers.

Grow your video business in:

We glad to invite you to video and audio streaming service community, here we freely sharing and answering any streaming related questions, helping you empower your video business by content share, white-label platform, video revenue model, cutting-edge info....come and talk to our experts In:

Whatsapp group → <https://chat.whatsapp.com/2886d4a12f647f5a2f7e42>

Facebook group → <https://www.facebook.com/groups/1026734804967024/>

Linkedin group → <https://www.linkedin.com/groups/145988534/>

Know our streaming solution first!

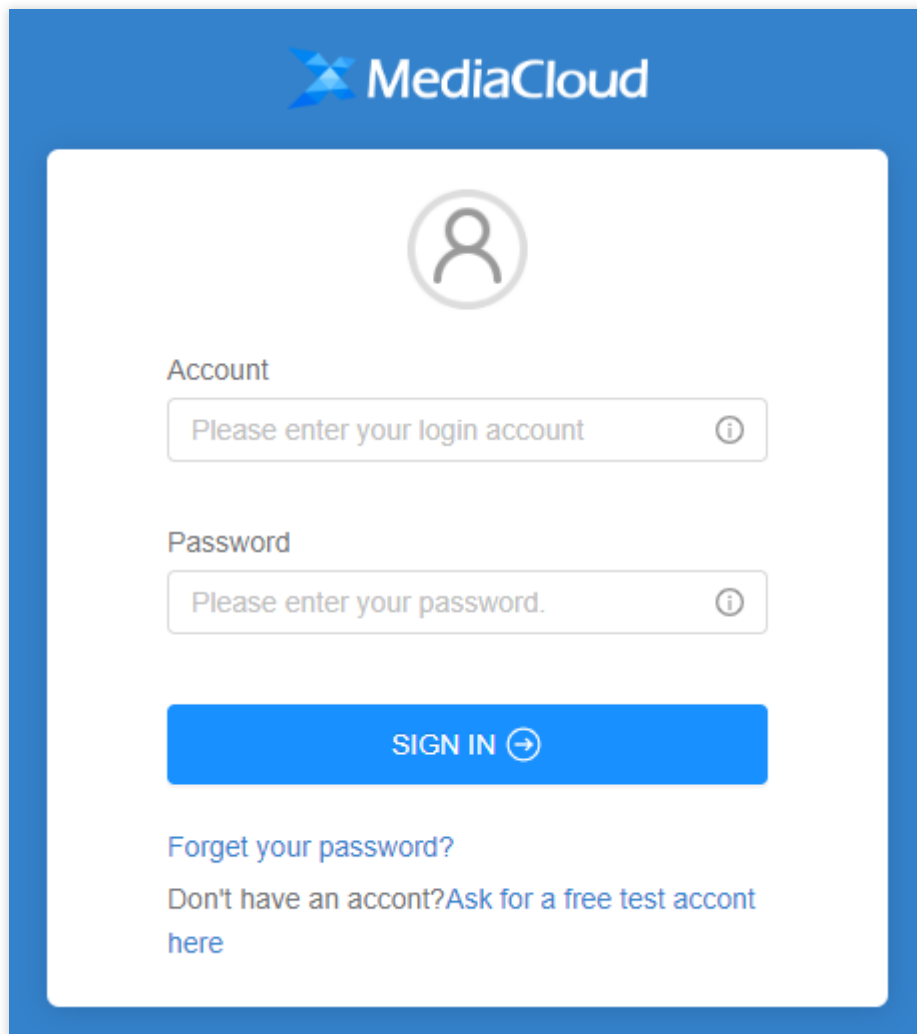
[SDMC XMediaTV Introduction V4.7 20210626.pdf](#)

Please grab some time with me whenever you' re ready - Schedule a Meeting

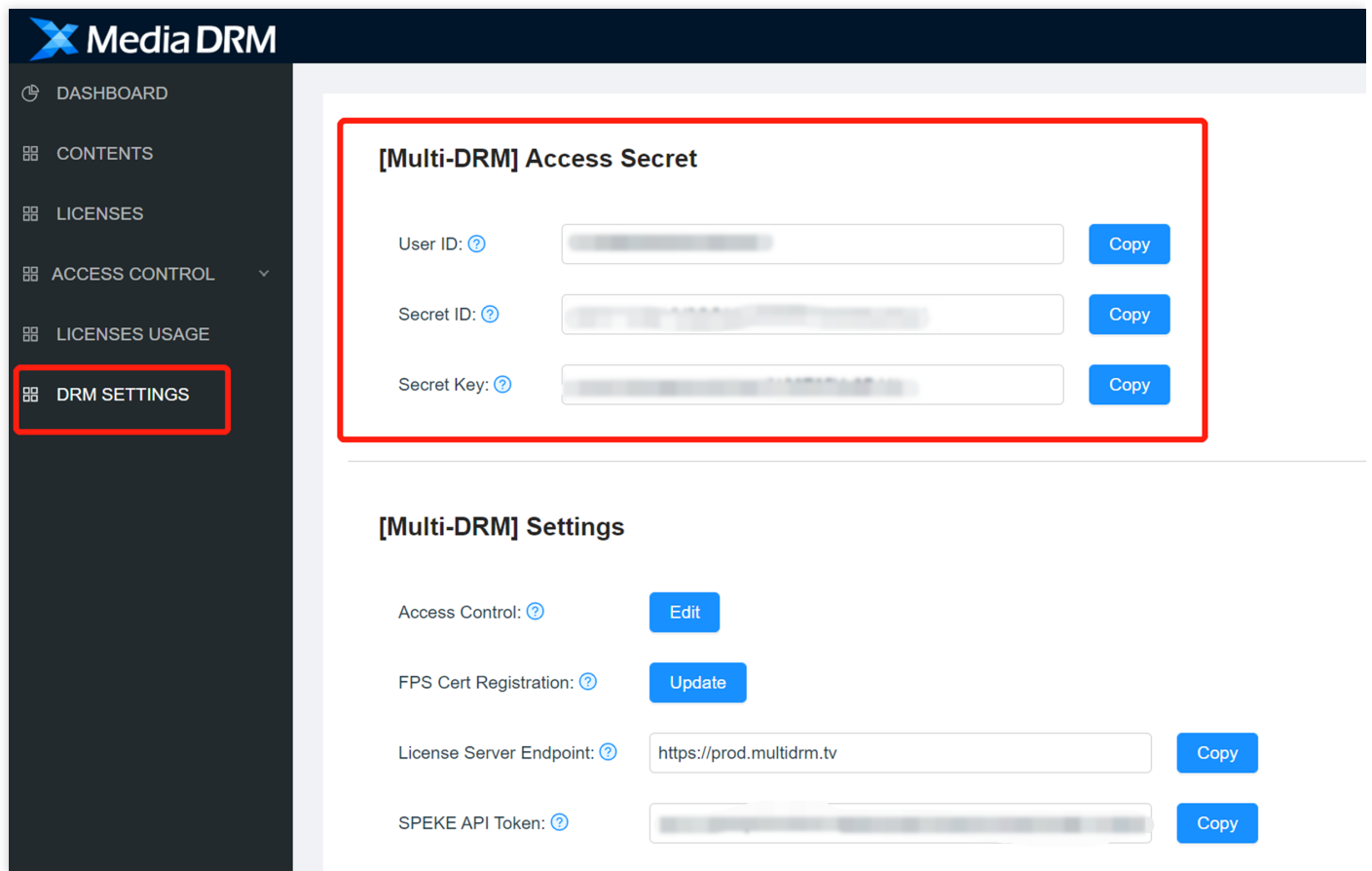
Best regards.

Xmedia Business Team

- SDMC will review your application and email you the address of its DRM console and your initial password.
- Log in to the [SDMC DRM console](#) with the account and password you received.

The image shows the MediaCloud login interface. It features a blue header with the MediaCloud logo. Below the header is a white login box. At the top of the box is a circular icon containing a person silhouette. Below this icon are two input fields: one for the account and one for the password. Each field has a placeholder text and an information icon. Below the input fields is a blue 'SIGN IN' button with a right arrow icon. At the bottom of the box, there are two links: 'Forget your password?' and 'Don't have an account? Ask for a free test account here'.

5. Click **DRM SETTINGS** to view your user ID, secret ID, and secret key.



Media DRM

DASHBOARD

CONTENTS

LICENSES

ACCESS CONTROL

LICENSES USAGE

DRM SETTINGS

[Multi-DRM] Access Secret

User ID: [Copy](#)

Secret ID: [Copy](#)

Secret Key: [Copy](#)

[Multi-DRM] Settings

Access Control: [Edit](#)

FPS Cert Registration: [Update](#)

License Server Endpoint: [Copy](#)

SPEKE API Token: [Copy](#)

6. Go to [DRM management](#) of the CSS console and enter the information obtained.



Secret key information [Edit](#)

DRM licensing service	SDMC
UID	
SecretID	
SecretKey	

DRMtoday

Directions

1. Visit the [DRMtoday website](#) and fill in the information as required.

Request your FREE DRM trial

Complete our signup form and we'll be in touch to start your assessment.

✓ 30 days free (up to 500 licenses) ✓ No credit card required ✓ No obligation

Company (required)

Website (required)

First name (required)

Last name (required)

Company e-mail (required)

Country where you're based (required)

[Please select] ▼

Expected monthly users (required)

[Please select] ▼

Streaming formats you use

☐ MPEG-DASH

☐ HLS

☐ Smooth Streaming

☐ CMAF

Encoders/packagegers you use

Video players you use

Your streaming use cases

☐ VOD

☐ Live

☐ Offline

Comments

How did you hear about us?

Other

☐ I have read and accepted the [Privacy Policy](#). (required)

☐ I have read and agreed to the [Evaluation License Agreement](#). (required)

☐ Yes Yes, castLabs may e-mail me occasional updates to stay informed about streaming technology. (required)
YOU MAY OPT-OUT AT ANY TIME USING EACH E-MAIL'S UNSUBSCRIBE LINK. SEE OUR [PRIVACY POLICY](#) TO LEARN MORE.

☐ No

☐ I'm not a robot

reCAPTCHA

Privacy - Terms

Send ▶

2. Click **Send**. Normally, you will receive a system email from DRMtoday within a few hours.

DRMtoday: Free trial request confirmation

Hello [REDACTED]

Thanks for your interest in a free trial of **castLabs'** [DRMtoday](#) service!

You'll receive an email shortly with account details to get started on your 30 day assessment period. Our team validates trial requests, so it may take a business day for your account information to arrive.

If you have any questions please don't hesitate to contact us at: sales@castlabs.com

Below is a summary of the information you've submitted:

First name: [REDACTED]
Last name: [REDACTED]
E-mail: [REDACTED]
Company: [REDACTED]
Website: [REDACTED]
Country where you are based: [REDACTED]
Expected monthly user-base: [REDACTED]
Streaming formats: [REDACTED]
Streaming use cases: [REDACTED]
Marketing communication opt-in: [REDACTED]
How you heard about us: [REDACTED]
Read and accepted the [Privacy Policy](#): [REDACTED]
Read and agreed to the [Evaluation License Agreement](#): [REDACTED]

3. Shortly after that, DRMtoday will send you another email containing your account details.

You've been invited to the [DRMtoday staging](#) by *Tencent*.

Here you can access our DRMtoday service to manage your content licensing activity.

Just sign in using this temporary password. You'll be asked to create an account password, and then you're ready to start downloading!

Your sign-in email: [redacted]

Your temporary password: [redacted]

[Sign in now »](#)


Your temporary password is valid for 7 days. If the time limit has expired before entering the password, please contact helpcenter@castlabs.com to receive a new password.

[Sign in to your account](#)

castlabs.com

This is an automated email. If you have any questions, please contact our help center:
helpcenter@castlabs.com

4. Visit the [DRMtoday login page](#), enter your account, and create a password to log in.



Sign in to your castLabs account

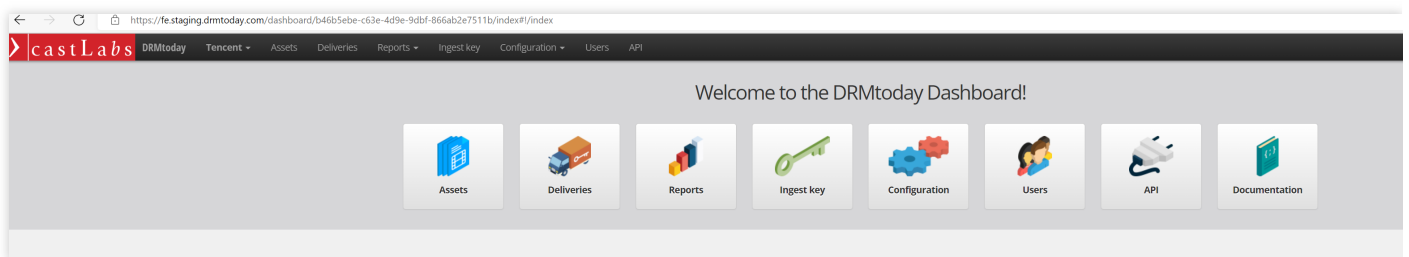
Email

Password

Sign in

[Forgot your password?](#)

5. You will enter the DRMtoday Dashboard.



6. Click **API**. On the page below, note your merchant name and UUID.

API

Endpoints

API Endpoints

All DRMtoday API endpoints include

- either the merchant's API name or their UUID for identification and
- a ticket from [CAS for authentication](#).

Please visit the documentation links for details (e.g. method and payload) on specific requests.

Operation	Method	Endpoint
Key ingestion		
Ingest key	POST	http://[redacted].it]
Remove key	POST	http://[redacted].it]
Query metadata	POST	http://[redacted].it]
Download metadata	GET	https://[redacted].it]
Configuration		
Configuration	depends	https://[redacted].it]
Reselling	depends	https://[redacted].it]
Reporting		
Monthly summaries	POST	https://[redacted].it]
Download delivery logs	POST	https://[redacted].it]

Your merchant API name
Your merchant UUID

7. Go to the **Users** page. Add an API account, grant the permissions, and note the password.

Note :

The password will appear only once. Make sure you note your merchant API name and password.

Users

List 7 + Add user + Add API account

Account data

Permissions

Account data

☐ Enabled

Login *

tencent: Enter login

Description

Optional description for your reference

* Required fields are marked with an asterisk.

+ Add API account Reset

← → ⬇ 1/1 ↺

Enable the API account you created:

Users

List ? + Add user + Add API account				
Enabled	Login	Name	Last updated	by
<input type="checkbox"/>	[redacted] ★		2021-03-01 10:12:13	[redacted]
<input type="checkbox"/>	[redacted] ★		2020-11-06 14:33:41	[redacted]
<input type="checkbox"/>	[redacted] ★	[redacted]	2021-03-01 10:12:10	[redacted]
<input checked="" type="checkbox"/>	[redacted] ★		2022-05-27 02:14:30	[redacted]
<input type="checkbox"/>	[redacted] ★	API	2021-03-01 10:12:16	[redacted]
<input checked="" type="checkbox"/>	[redacted] ★	API	2022-05-27 02:38:14	[redacted]
<input type="checkbox"/>	[redacted]	API	2021-03-01 10:12:19	[redacted]

8. Go to **Configuration > Ingest Settings**. Add a key seed to generate the key (key seed ID) and IV (IV seed ID).

Note :

A key generated by a key seed can be viewed multiple times. You can provide it to your DRM encryption provider. For simple encryption with HMAC SHA512, you can use the key seed and key ID to generate an HMAC SHA512 string and use the first 16 characters of the string as the key or IV.

Key seeds [Widevine CENC API](#) [Harmonic API](#) [CPIX / SPEKE API](#)

Key seeds

Configure key seeds for key derivation during ingest that derive the key from a keyID using the key seed here (e.g. Widevine ingest API).

Enabled	ID	Description	Key derivation algorithm	Added	by
<input checked="" type="checkbox"/>	[redacted]	[redacted]	[redacted]	2022-05-26 03:11:15	[redacted]
<input checked="" type="checkbox"/>	[redacted]	[redacted]	[redacted]	2021-02-03 09:43:49	[redacted]
<input checked="" type="checkbox"/>	[redacted]	[redacted]	[redacted]	2021-02-03 09:43:36	[redacted]
<input checked="" type="checkbox"/>	[redacted]	[redacted]	[redacted]	2022-05-26 03:11:43	[redacted]

Add key seed +☒ Enabled

Description *

Key seed *

Hex

Key derivation algorithm




After submitting this form, the key seed will not be accessible again. Please secure a copy for your records.

[Add key seed](#)

9. After obtaining the merchant name, merchant UUID, merchant API name, merchant API password, and key seed

ID, and IV seed ID, enter the information in **DRM Management** of the CSS console.

DRM management

 To enable DRM encryption, please obtain the key information from your DRM licensing service provider. [How do I get secret key information?](#) 
CSS supports Widevine, FairPlay, and NormalAES DRM encryption for HLS playback. For FairPlay DRM, you need to upload the license you obtain from Apple to your player. [How do I get a license?](#) 

Secret key information

DRM licensing service	<input type="text" value="DRMtoday"/>
MerchantName *	<input type="text" value="Enter the MerchantName"/>
MerchantUUID *	<input type="text" value="Enter the MerchantUUID"/>
MerchantApiName *	<input type="text" value="Enter the MerchantApiName"/>
MerchantApiPassword *	<input type="text" value="Enter the MerchantApiPassword"/>
KeySeedID *	<input type="text" value="Enter the KeySeedID"/>
IvSeedID *	<input type="text" value="Enter the IvSeedID"/>

Note :

If you encounter any problems while trying to obtain the above information, please [submit a ticket](#). We will help you navigate the process.

Live Subtitling

Last updated : 2024-07-26 14:46:39

The live 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 offers voice translation services for 16 language pairs, including Chinese-English, Chinese-Japanese, and Chinese-Korean. In practical applications, please select the proper type according to your business needs and audience group. This document describes how to create, modify, and delete subtitle templates through the console.

Points of Attention

A template takes effect about 5 to 10 minutes after successfully created.

To use the live subtitling function, after binding a subtitle template to a transcoding template, you should obtain the subtitle stream with the suffix of a playback address corresponding to the name of a transcoding template.

Live subtitling function is a **premium service**. Utilizing this function will incur [live transcoding](#) fees and ASR fees of MPS. Cross-language translation may generate voice translation fees of MPS. For the specific billing rules, please refer to [billing document](#).

Prerequisites for Use

The CSS service has been activated.

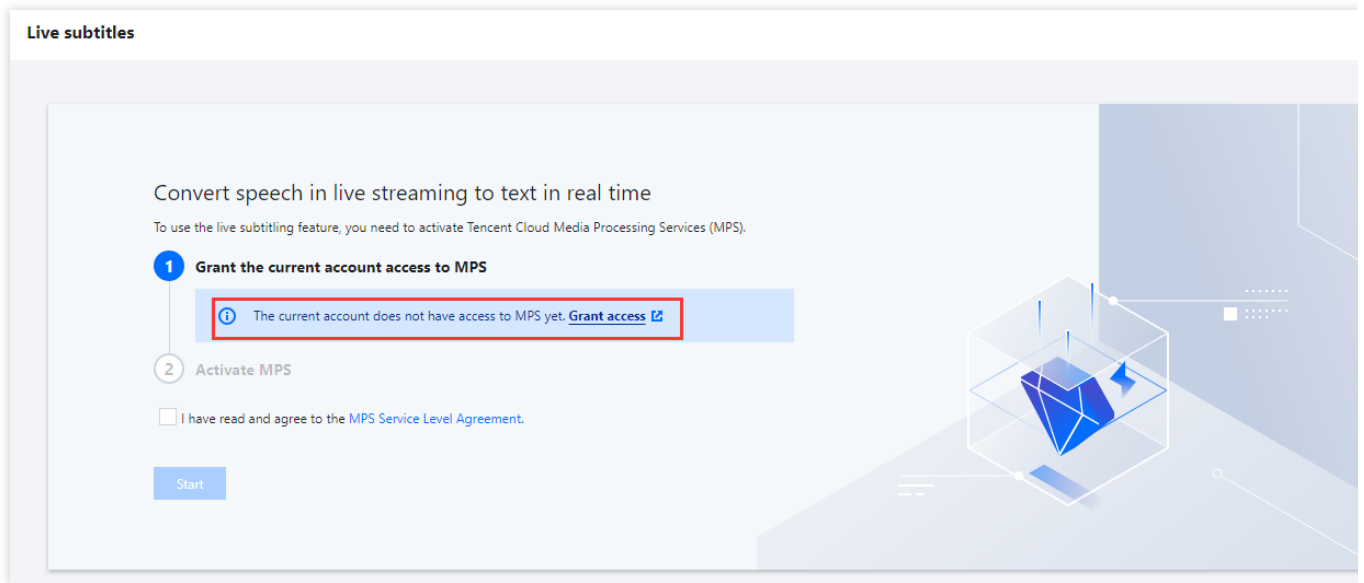
Creating Subtitle Template

1. Log in to the [CSS console](#). Choose **Feature Configuration > Live Subtitles**.

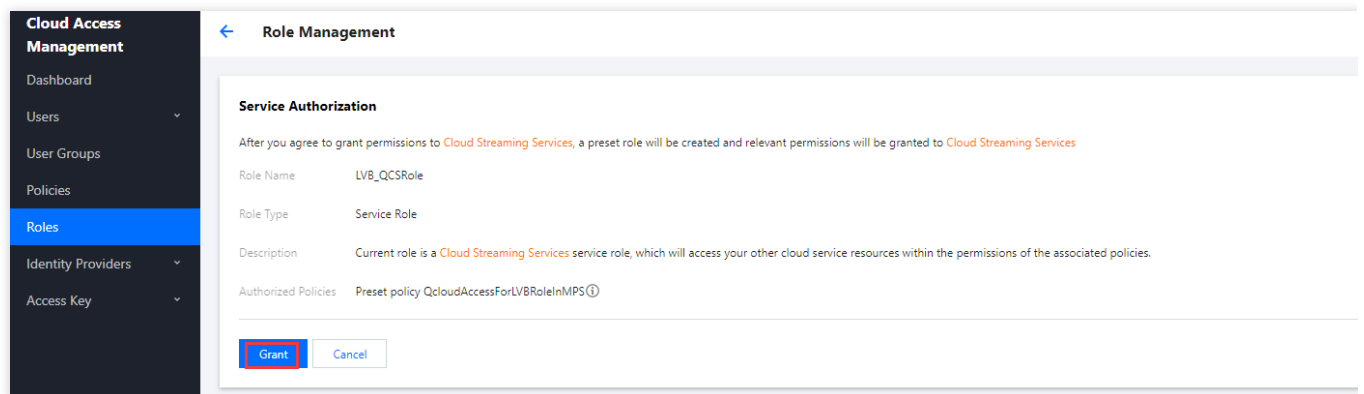
Note:

Due to the use of the live subtitling function, creating a service role and authorizing the current account role to use MPS product services are required for the **first** creation of a subtitle template.

2. Click **Grant access** to enter the CAM role management page.

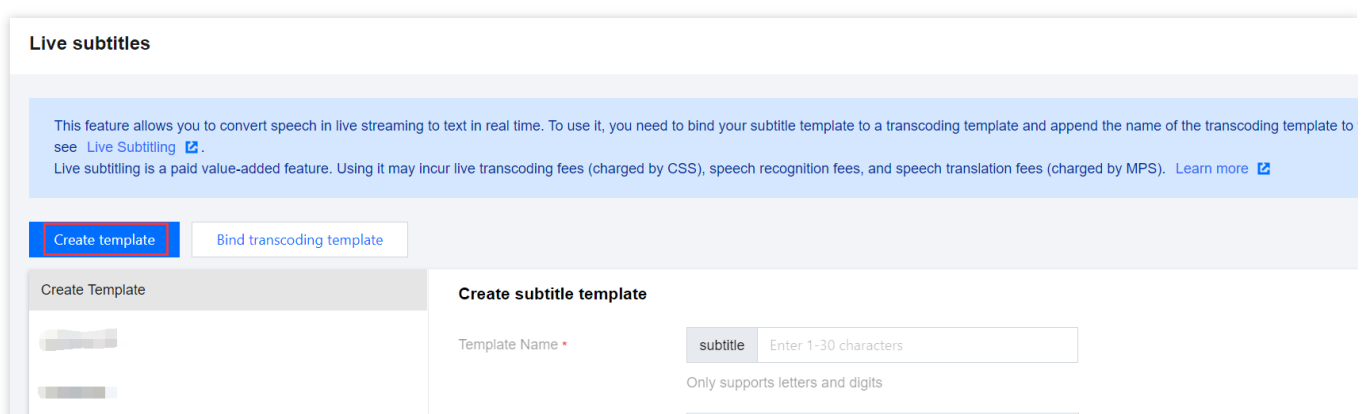


3. On the role management page, click **Grant**. After completing identity authentication to finish the MPS authorization, you can utilize the MPS service normally.



4. After successful authorization, select the service agreement and click **Start**. The system will automatically activate the MPS product and open the live subtitling management page.

5. Click **Create template** to enter the subtitle template creation page and configure the template as follows:



Template Description

Only supports letters, digits, underscores, and dashes

Source language

☐ Chinese ☒ English ☐ Japanese ☐ Korean

Target language ⓘ

Chinese

Subtitles

☐ Target ☒ Source + target

Preset styles

Small text without bar

Large text without bar

Small text with bar

Dynamic/Steady State Effect ⓘ

☐ Real-time Dynamic Subtitles ☒ Delayed Steady State Subtitles

10

sec

Line spacing

0%

20%

50%

100%

Margins

0%

10%

20%

30%

40%

50%

Font

Source Text

Dynacw Diai

Translate

Heiti

Lines ⓘ

☒ 1 ☐ 2

Characters per line

-

45

+

Color

A

Text color

Background color

Test subtitle

Preview

Translation settings do not support preview

Preview window size

Width:

1920

PX

Height:

1080

PX

Save

Cancel

Note:

The font selection for subtitles will vary depending on the **Source language**, **Target language**, and **Subtitles** you select. Please select the appropriate type according to your actual needs.

Configuration Item	Description
Template Name	The prefix for the template name is fixed to "subtitle". The template name cannot exceed 30 characters and only supports English letters and digits.
Template Description	Subtitle template description. It contains up to 100 characters, only supporting letters, digits, underscores, and dashes.
Source language	The default language is Chinese, and English, Japanese, and Korean are also supported.
Target language	<p>It is set to None by default. Switching to any of the three other options not selected in the source language is supported. For instance, if English is selected as the source language, the available options for the target language include No Selection, Chinese, and Japanese, Korean.</p> <p>Cross-language translation will incur voice translation fees of MPS. ASR fees will be generated without translation. For more details, please see Content II.</p> <p>If you need to translate it into other languages, please submit a ticket to contact us.</p>
Subtitles	<p>Source is supported by default. Target and Source + target are also supported. Through the three options of Source language, Target language, and Subtitles, Supports subtitles in the following sixteen language types:</p> <ul style="list-style-type: none"> Original Chinese subtitles Chinese translated into English Chinese translated into Japanese Chinese translated into Korean Original English subtitles English translated into Chinese English translated into Japanese English translated into Korean Original Japanese subtitles Japanese translated into Chinese Japanese translated into English Japanese translated into Korean Original Korean subtitles Korean translated into Chinese Korean translated into English Korean translated into Japanese
Preset styles	The default option is Small text without bar . You may select Small text without bar , Large text without bar , Small text with bar , or Large text with bar to configure the settings. Once selected, the system will automatically set the corresponding subtitle style, which can be manually modified.
Dynamic/Steady State Effect	The default setting is Delayed Steady State Subtitles, which can be switched to Real-time Dynamic Subtitles.

	<p>When choosing the Delayed Steady State Subtitles mode, it's necessary to set the latency, with a default value of 10 seconds. Available latency options include 20 seconds, 30 seconds, and 60 seconds.</p> <p>Note:</p> <p>When selecting Real-time Dynamic Subtitles, the subtitles in the live broadcast will dynamically correct the content word by word according to the spoken content. When selecting Delayed Steady State Subtitles, the system will delay the live broadcast according to the set time, but the experience of watching complete sentence subtitles mode is better.</p>
Line spacing	<p>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.</p> <p>Value range: 0 - 100%.</p>
Margins	<p>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.</p> <p>Value range: 0 - 50%.</p>
Font	<p>The font selection for subtitles will vary depending on the Source language, Target language, and Subtitles you select.</p> <p>Options include Heiti, SimSun, Dynacw Diamond Black, and Helvetica.</p> <p>When the Original Text + Translated Subtitles mode is selected, the default font for both source and target is Heiti. If the subtitles displayed are in English, the "Helvetica" font can be chosen.</p>
Lines	<p>Options are 1 or 2, with 1 selected by default.</p> <p>When lines exceed the displayed range, only the latest content will be displayed.</p>
Characters per line	<p>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.</p>
Color	<p>The default font color is black. The color can be customized.</p>
	<p>The default background color is black. The customization of level of transparency is supported.</p>
Test subtitle	<p>Entering the subtitle test content is to add new subtitles to videos for previewing the subtitle effects.</p>
Preview	<p>You can preview the subtitle effects configured in the current template. The subtitle effects are only for reference. The content is not translated.</p>
Preview window size	<p>Set the subtitle preview window size:</p> <p>Default values for width and height: 1920px for width and 1080px for height.</p>

Value range for width and height: 360px - 4096px.

6. Click **Save** to save the current template.

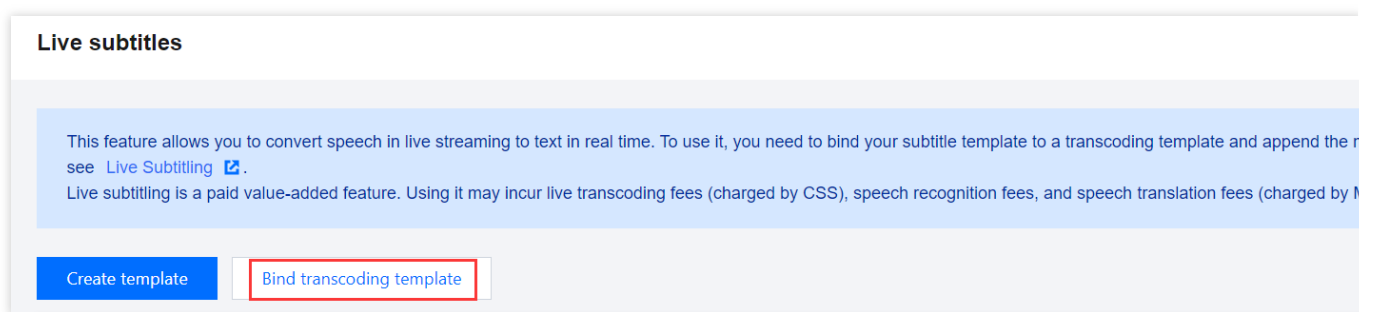
Binding Transcoding Template

1. Log in to the [CSS console](#). Choose **Feature Configuration > Live Subtitles**.

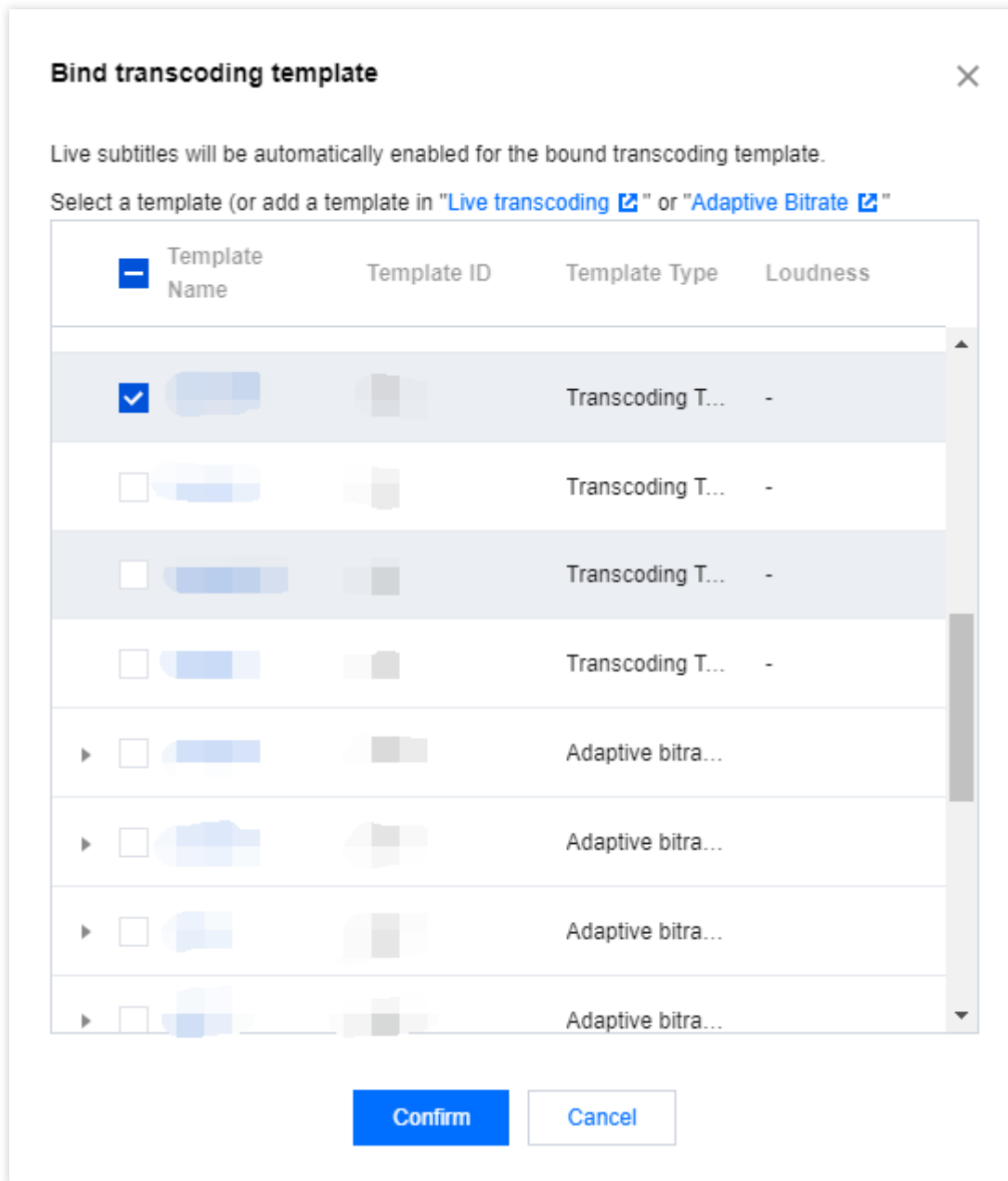
2. The system allows subtitle templates to bind transcoding templates or adaptive bitrate templates. Both transcoding templates and adaptive bitrate templates have similar subsequent use procedures. A transcoding template serves as an example for description below:

2.1 Direct association with transcoding templates:

2.1.1 Associate a transcoding template after it is successfully created: After the successful creation of a [transcoding template](#), click **Bind transcoding template** in the upper left corner.



2.1.2 Select **Transcoding template** or **Adaptive bitrate template** according to your actual business requirements, then click **Confirm**.



2.2 In order to bind a [playback domain](#) to the corresponding transcoding template, the subtitle effects will be output at the same time when the transcoding stream is obtained subsequently (add _ transcoding template name after the corresponding live stream StreamName to generate a transcoding stream address).

Note:

Once the transcoding template is bound, the subtitle function configured in the transcoding template will be synchronously activated.

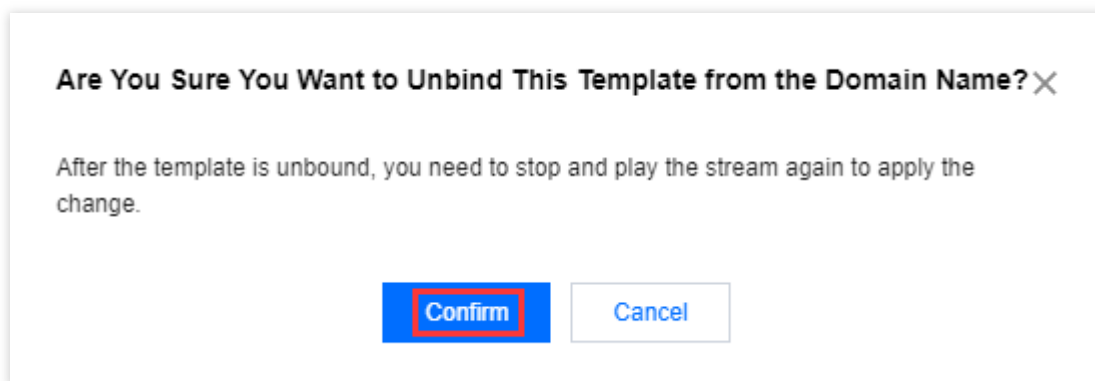
Unbinding

1. Log in to the [CSS console](#). Choose **Feature Configuration > Live Subtitles**.

2. Select the transcoding template associated with a domain name and click **Unbind**.



3. Confirm whether to unbind the current associated domain. Click **Confirm** to unbind it.



Modifying a Template

1. Log in to the [CSS console](#). Choose **Feature Configuration > Live Subtitles**.
2. Select the successfully created subtitle template and click **Edit** on the right to go to the template information modification page. Click **Save** to finish the modification.



Deleting a Template

Note:

If the template has already been associated, you must first [unbind](#) it before you proceed with the deletion process. Note that a template cannot be restored after deleted. Be careful when performing operations.

1. Log in to the [CSS console](#). Choose **Feature Configuration > Live Subtitles**.
2. Select the successfully created subtitle template and click **Delete** above.



3. Confirm whether to delete the current subtitle template, then click **Confirm** to successfully delete it.

Delete subtitle template

Are you sure you want to delete subtitletest001

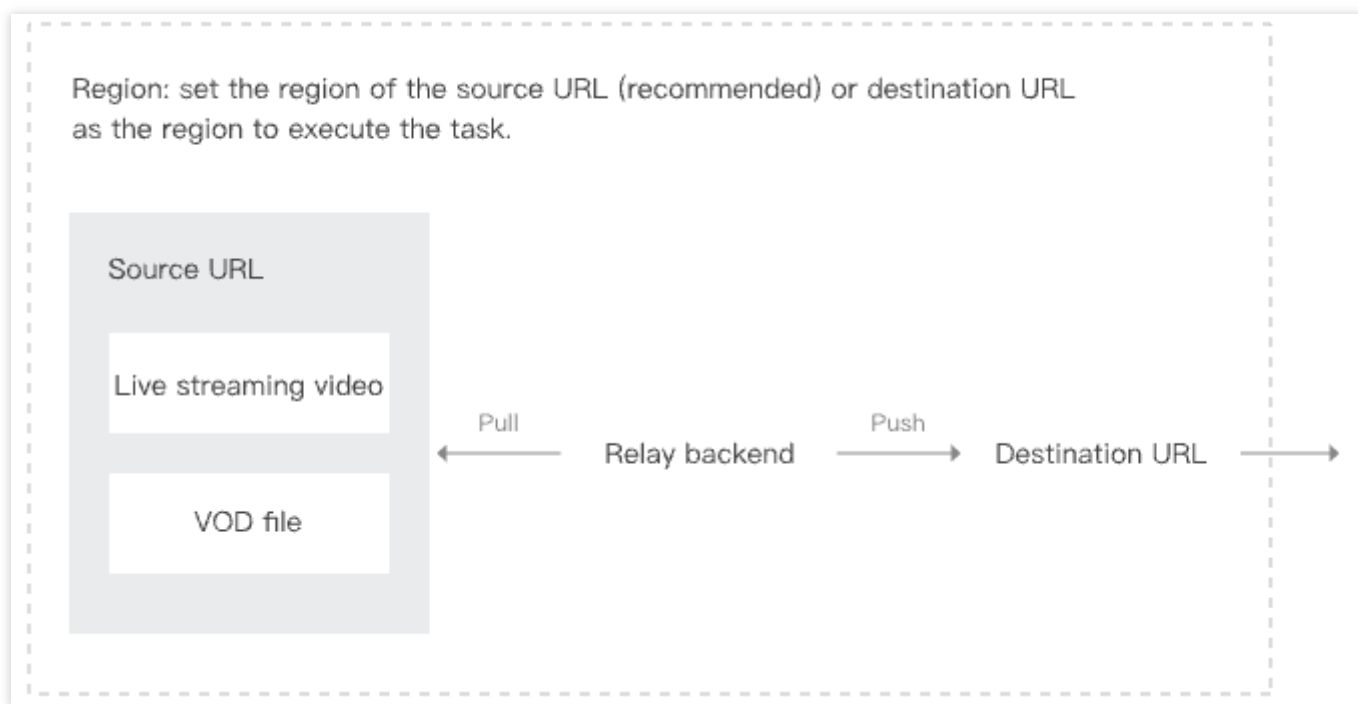
Confirm

Cancel

Relay

Last updated : 2024-05-30 17:30:53

If your live streaming source does not have the capability to push streams or if you want to stream on-demand videos, you can use the relay feature to quickly pull content from an existing live streaming source or video and then deliver it to the destination. You don't need to push streams yourself.



Prerequisites

You have activated [CSS](#) and logged in to the [CSS console](#).

You have added a [push domain name](#) in the console.

Limits

You can create up to **200** relay tasks. If your relay business has a substantial volume and you require a larger task quota, contact us by [submitting a service ticket](#), or seek assistance from our business manager.

The relay feature is charged based on the **duration of relay tasks**. For details, see [Relay](#).

CSS is only responsible for pulling and relaying content. **Please make sure that your content is authorized and complies with relevant laws and regulations. In case of copyright infringement or violation of laws or**

regulations, CSS will suspend its services for you and reserves the right to seek legal remedies.

The local relay mode became a paid feature starting from **00:00 on November 23, 2022**. To learn more, see [Extended Features](#).

For relay, when pulling or pushing global streams, you need to set the task region to outside Chinese mainland. You can use the relay recording function by binding a cloud streaming recording template, which will generate [recording costs](#). The recording templates bound to the relay function only support templates that record the original stream content. To modify the recording template during a relay task, you need to halt the current task for 30 seconds before restarting it, only then can the new recording template take effect.

After the relay is bound to the transcoding template, the stream will first be pushed to CSS for transcoding, and then forwarded to the objective address of the task. The stream ID style of the push stream used for transcoding is "pp_relay task id", example: pp_12345678. Additional upstream push charges may be incurred. For the upstream push billing rules, please refer to [Upstream Push Billing Instructions](#).

Creating a Task

1. Go to [Relay](#), and click **Create Task**.

Relay

The relay function is a paid value-added service, the fees of which encompass the relay task duration fees, the third-party relay fees, and the value-added function fees. For relay, pulling the stream from the source address equates to playback, and the source address will generate corresponding playback billing rules, please refer to the [Billing Documentation](#).
Relay only pulls and pushes contents. Please ensure that the contents have been authorized and comply with the laws and regulations for distribution. If the contents infringe relevant rights or violate regulations, CSS will suspend related features and reserve the right to legal action.

Current/Total Tasks Allowed
4 / 196

Active
1

Expired
1 Channel(s)
Auto-delete not enabled [Set](#)

[Create Task](#) [Batch Operation](#) [View Usage](#) [User Guide](#) [Task ID](#)

Task Description/ID	Primary Source Type	Push Destination URL	Status	Start Time	End Time	Operation
<input type="checkbox"/>	Live streaming	rtmp://	Valid	2024-05-23 16:05:02	2024-05-24 16:05:02	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Disable	2024-05-23 15:11:12	2024-05-24 15:11:12	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Not started	2024-08-08 11:10:12	2024-08-14 11:10:12	Streaming data
<input type="checkbox"/>	Image	rtmp://	Expired	2023-11-07 17:21:12	2023-11-08 17:21:12	Streaming data

Total entries: 4. Selected: 0.

10 /


2. Enter the basic information:

1 Basic Task Info

Task Description

Enter a task description

Execution Time *

2024-05-23 17:09:46 ~ 2024-05-24 17:09:46 

Event Callback Notification

Enter a callback URL for receiving relay task events

Configuration Item	Description
Task Description	Describe the task.
Execution Time	By default, it is from <code>Current Time</code> to <code>Current Time + 24 Hours</code> . The optional range of execution time is any time within one year of the current time, but the duration cannot exceed 7 days. Assuming the current time is 15:18:50 on May 23, 2024, then: The optional time is from 15:18:50 on May 23, 2024 to 15:18:50 on May 24, 2024. The end time cannot exceed 15:18:50 on May 24, 2024.
Event Callback Notification	Enter a callback URL for receiving relay event notifications.

3. Provide the source information.

2 Content Source Info

Region *

Random (Chinese mainland)



Content Type *



Random (Chinese mainland)

North China(Beijing)

East China(Shanghai)

South China(Guangzhou)

Page

Region: Random (Chinese mainland), North China region (Beijing), East China (Shanghai), South China (Guangzhou), Southeast Asia (Singapore), Southeast Asia (Bangkok), Northeast Asia (Seoul), South Asia (Mumbai),

Hong Kong.

If you select **Random (Chinese mainland)**, the system will assign a region that is nearby.

4. For **Content Type**, you can select **Live streaming**, **Custom video path**, or **Image**.

4.1 Live streaming:

Enter a live streaming URL (**only one** is allowed).

You can select **Enable backup**.

In the event that the primary input source fails to retrieve content, an automatic switch to the backup input source will be initiated for content acquisition. If the backup input source's content type is live streaming, a manual switch back to the primary input source is required once it is restored. However, if the backup input source's content type is a custom video, the system will automatically revert to the primary input source upon completion of the current custom video playback cycle. The backup input source only supports the continuous loop playback of a single video.

Application scenarios: The backup source function is ideal for long-term live streaming tasks, preventing black screen viewing due to stream interruption, and providing backup sources and padding. For manual real-time switching of live streaming scenarios, it is recommended to use the cloud director station function.

2 Content Source Info

Region * ⓘ

Content Type * ☒ Live streaming ☐ Custom video path ☐ Image

☒ Enable backup ⓘ

Content Type * ☒ Live streaming ☐ Custom video path

Source URL *

4.2 Custom video path:

You can enter **multiple** (max 30) source URLs.

Select **Repeat** to repeat the playback indefinitely or **Specified** to specify the number of times (1-100) to play the content.

If you enable local mode, sources in MP4 format will be cached to the local node before they are relayed. This ensures smoother and more reliable playback.

2 Content Source Info

Region *

Random (Chinese mainland) ⓘ

Content Type *

☐ Live streaming ☒ Custom video path ☐ Image

Add Video

The system will play videos from the first to the last URL.

Custom video path	Operation
<div><div></div><div>http://...mp4</div></div>	<div>Delete</div>

Local mode ⓘ

☒ ☐

Relaying local files will incur [additional fees](#) 🔗

Playback Count *

☒ Repeat ☐ Specified ⓘ

4.3 Image:

Upload an image or enter an image URL. You can click **Preview** to preview the image.

Images in JPEG, JPG, PNG, or BMP format are supported. If you enter an image URL, there is no limit on image size.

If you upload an image, it cannot exceed 2 MB.

The file names of images to be uploaded only support letters, digits, and the following characters: `- ! _ . *`

2 Content Source Info

Region *

Random (Chinese mainland) ⓘ

Content Type *

☐ Live streaming ☐ Custom video path ☒ Image

Image URL


https://...

Preview

Upload

Supports JPEG, JPG, and PNG. There is no limit on image size if you use a URL. If you upload an image, it cannot be larger than 2 MB, and the filename can only contain letters, number

Preview



Note:

The system will stop a relay task either when the playback count reaches the specified value or when the task reaches its end time.

In case of task modification:

If you change only the playback count, after the new value is applied, the count will start from 2.

If you change both the source URL and playback count, after the new configuration takes effect (whether immediately or after the current playback ends), the count will start from 1.

If you change the destination URL, the playback count will be reset.

Relaying a locally cached MP4 file will incur additional fees, which are based on the duration of the file relayed.

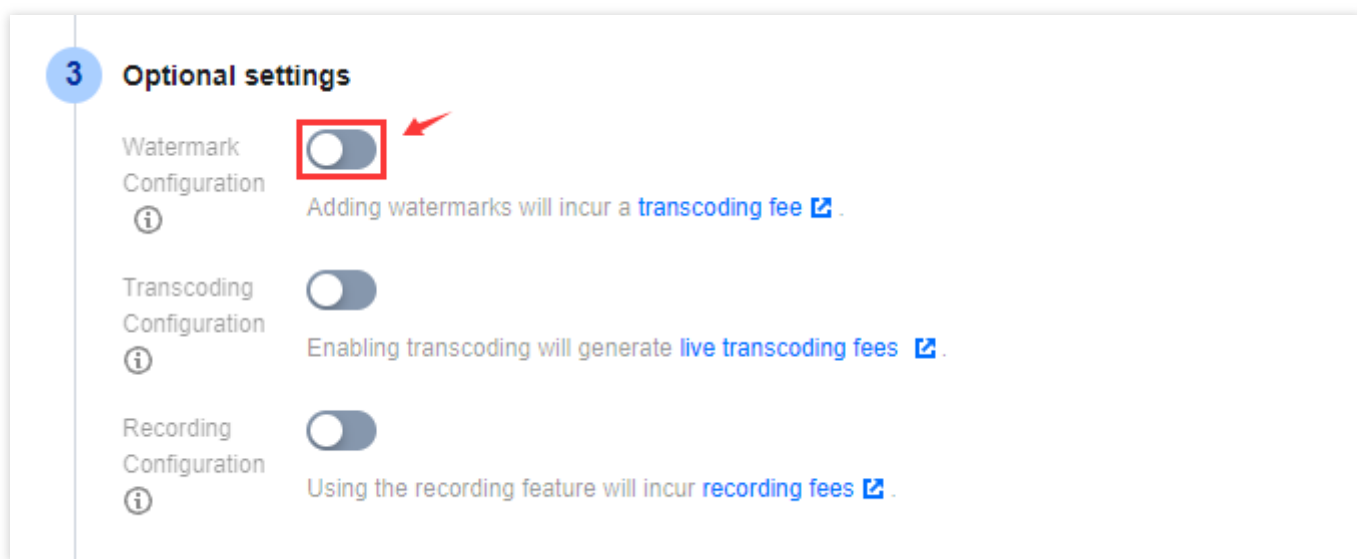
5. You can select **Watermark Configuration**, **Transcoding Configuration**, and **Recording Configuration**. The configuration methods are as follows:

5.1 Watermark Configuration:

Click



to enable the watermark configuration. The PNG, JPG, and GIF watermark image formats are supported.



Set **Watermark Type**. You can select **Custom watermark URL** and **Upload image**.

For optimal visual effect, the watermark should be a transparent PNG image, with a file size less than 2 MB.

The file names of images to be uploaded only support letters, digits, and the following characters: `- ! _ . *`

Custom watermark URL

Upload image

Select **Custom watermark URL**, Enter the URL of the watermark image in the image address input field. By clicking on **Preview**, you can view the watermark in the preview section.

select **Upload image**, click **Select Image** Upload Watermark Image. The watermark image size supports full-window dimension stretching.

Watermark Configuration

Watermark type



Custom watermark URL



Image Upload

Upload



Select image

Note: For a better visual experience, we recommend you use a transparent PNG image not larger numbers, and special characters - ! _ . *

Preview



Preview window size

Width:

1920

PX

Height:

1080

PX

[Update](#)

Location

X-AXIS

—

0

+

%

Y-AXIS

—

0

+

%

Save

Cancel

Configure the preview window size for watermark images:

Default dimensions: width 1920px, height 1080px.

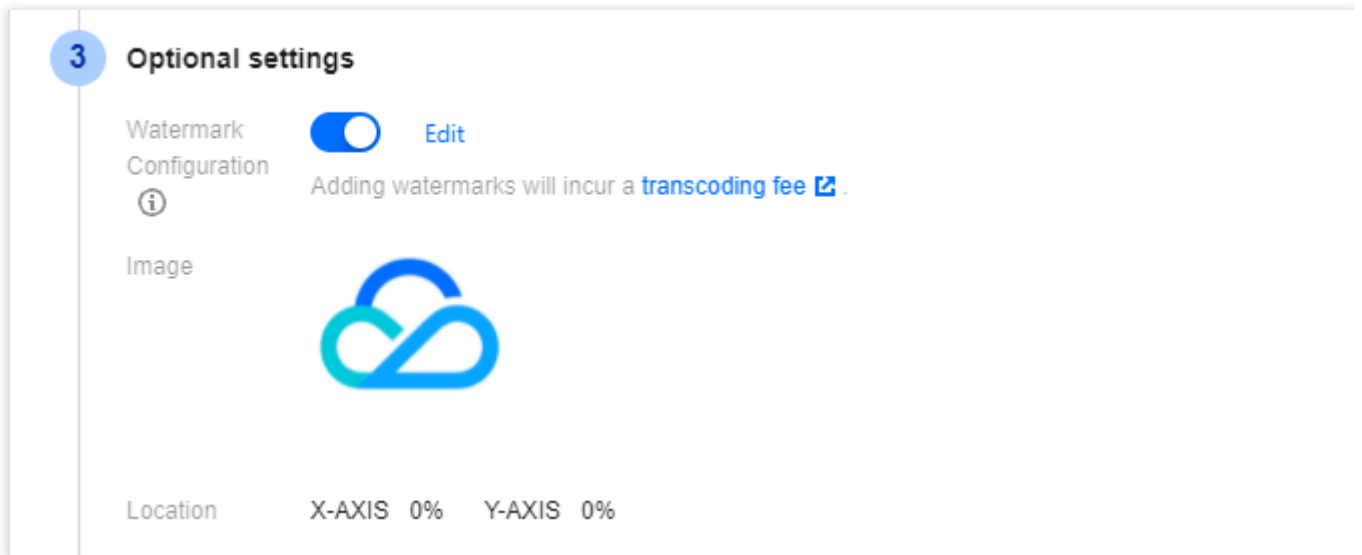
Dimensional range: 360px to 4096px.

You can click the **Update** button on the right to perform automatic verification and synchronize the update of the watermark preview window.

Set the display position of the watermark image through the following methods.

Drag the image position on the watermark image configuration bar.

Configure the display position in the X-axis and Y-axis directions.



Note:

Enter the source information of the content. When the content type is image, the watermark configuration cannot be enabled.

Enabling the watermark function will generate [transcoding costs](#).

When modifying the watermark, it takes effect immediately for live streaming source tasks, and for on-demand video source tasks, it takes effect starting from the next file. Modifying the watermark can cause playback to stutter. Usage scenario: It is recommended to use when relaying to a third-party origin server that does not have a watermark feature. For example, if you relay to CSS, you can use the live watermarking feature of CSS.

5.2 Transcoding Configuration:

Click



, select to enable the transcoding configuration, select a transcoding template, and click **Confirm**.

3 Optional settings

Watermark
Configuration



Adding watermarks will incur a [transcoding fee](#) .

Transcoding
Configuration



Enabling transcoding will generate [live transcoding fees](#) .

Recording
Configuration



Using the recording feature will incur [recording fees](#) .

Transcoding Configuration

After the relay is bound to the transcoding template, the stream will first be pushed to CSS for transcoding, and then forwarded to the objective address of the task. The stream ID style of the push stream used for transcoding is "pp_relay task id", example: pp_12345678. Additional upstream push charges may be incurred. For the upstream push billing rules, please refer to [Upstream Push Billing Instructions](#).

Select a template (or add a template in "[Feature Configuration](#)")

Template Name	Template ID	Template Type	Codec	Video Bitrate	Loudne...
<input type="radio"/>		Transco...	Original...	5000 kbps	-
<input type="radio"/>		Transco...	Original...	2000 kbps	-
<input type="radio"/>		Transco...	Original...	2000 kbps	-
<input checked="" type="radio"/>		Transco...	Original...	2000 kbps	-10
<input type="radio"/>		Transco...	Original...	-	-40
<input type="radio"/>		Transco...	Original...	-	-40
<input type="radio"/>		Transco...	Original...	2000 kbps	-
<input type="radio"/>		Transco...	Original...	-	-

Confirm

Cancel

Note:

Enabling transcoding will incur [live transcoding fees](#).

Configuring a transcoding template will transcode the pull stream source before relaying. Turning on, off, or changing the transcoding template will take immediate effect. Modifications to the currently bound transcoding template in the pull task will only take effect after the task is restarted.

5.3 Recording Configuration

Click



to enable the recording configuration, select a recording configuration template, and click **Confirm**.

3 Optional settings

Watermark Configuration ⓘ

☐

Adding watermarks will incur a [transcoding fee](#).

Transcoding Configuration ⓘ

☐

Enabling transcoding will generate [live transcoding fees](#).

Recording Configuration ⓘ

☒

Using the recording feature will incur [recording fees](#).

Recording Configuration

×

Select a template (or add a template in "[Feature Configuration](#)")

Template Name	Template ID	Storage	Recording Content	Recording Format	Storage Period
<input type="radio"/>		【VOD】	Original...	HLS	Perman...
<input checked="" type="radio"/>		【VOD】	Original...	HLS	Perman...
<input type="radio"/>		【COS】	Original...	HLS	Perman...
<input type="radio"/>		【VOD】	Original...	HLS	Perman...
<input type="radio"/>		【VOD】	Original...	HLS	Perman...
<input type="radio"/>		【VOD】	Original...	HLS	Perman...
<input type="radio"/>		【VOD】	Original...	AAC,FL...	Perman...
<input type="radio"/>		【COS】	Original...	HLS	9 day(s)

Confirm

Cancel

Select a recording mode. You can select **Record and relay** or **Record only**.

3

Optional settings

Watermark Configuration

Adding watermarks will incur a [transcoding fee](#).

Transcoding Configuration

Enabling transcoding will generate [live transcoding fees](#).

Recording Configuration

Edit

Using the recording feature will incur [recording fees](#).

Template

Template Name	Template ID	Storage	Recording Content	Recording Format	Storage Period
		[VOD]	Original stre...	HLS	Permanent,...

Mode

Record and relay

Record only

Note:

Enabling recording will generate [recording fees](#).

The recording templates bound to the relay function only support templates that record the original stream content. Templates for watermark streams and transcoding streams are not supported.

To modify the recording template during a relay task, you need to halt the current task for 30 seconds before restarting it, only then can the new recording template take effect.

If the recording template has been associated, it must first be unbound before being deleted. For unbinding procedures, refer to the [unbinding recording configuration](#).

6. Enter a destination URL.

6.1 Click **Address Generator** to enter the URL generation page.

Click **Add** to add destination address 2.

4

URL for Receiving Content

Destination Address *

Enter a destination URL for receiving content

Use [Address Generator](#)

6.2 Select an existing push domain, enter the `Appname`, `StreamName`, and expiration time, and click **Confirm** to generate a push URL, which will be auto-filled as **Destination Address**.

Address Generator ×

Push Domain *

Select a domain name ▼



AppName

Use "live" by default. Only letters, digits, and symbol:

StreamName *

Enter the StreamName. Only letters, digits, and speci

Expiration Time *

2024-05-24 17:09:46  

Confirm

Cancel

Note:

The URL expiration time must be later than the task end time. If you change the destination URL after the task starts, it will stop and restart.

Managing Tasks

Viewing Task Details

In the [task list](#), find your task, and click its description/ID to view task details in the pop-up window.

Relay

The relay function is a paid value-added service, the fees of which encompass the relay task duration fees, the third-party relay fees, and the value-added function fees. For relay, pulling the stream from the source address equates to playback, and the source address will generate corresponding playback/download fees. For the Billing Documentation

Relay only pulls and pushes contents. Please ensure that the contents have been authorized and comply with the laws and regulations for distribution. If the contents infringe relevant rights or violate regulations, CSS will suspend related features and reserve the right to legal action.

Current/Total Tasks Allowed

5 / 195

Active

2

Expired

1 Channel(s)

Auto-delete not enabled

Set

Create Task

Batch Operation

View Usage

User Guide

Task Description/ID	Primary Source Type	Push Destination URL	Status	Start Time	End Time	Operation
<input type="checkbox"/> test01	Live streaming	rtmp://	Valid	2024-05-23 17:09:46	2024-05-24 17:09:46	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Valid	2024-05-23 16:05:02	2024-05-24 16:05:02	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Disable	2024-05-23 15:11:12	2024-05-24 15:11:12	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Not started	2024-08-08 11:10:12	2024-08-14 11:10:12	Streaming data
<input type="checkbox"/>	Image	rtmp://	Expired	2023-11-07 17:21:12	2023-11-08 17:21:12	Streaming data

Total entries: 5. Selected: 0.

Note:

You can click the buttons at the bottom of the pop-up window to **edit the task**, **switch sources**, **restart the task**, or **disable the task**.

Viewing Task Status

In the [task list](#), find your task, and click its description/ID to view its execution status in the pop-up window.

Relay

The relay function is a paid value-added service, the fees of which encompass the relay task duration fees, the third-party relay fees, and the value-added function fees. For relay, pulling the stream from the source address equates to playback, and the source address will generate corresponding playback/download fees. For the Billing Documentation

Relay only pulls and pushes contents. Please ensure that the contents have been authorized and comply with the laws and regulations for distribution. If the contents infringe relevant rights or violate regulations, CSS will suspend related features and reserve the right to legal action.

Current/Total Tasks Allowed

5 / 195

Active

2

Expired

1 Channel(s)

Auto-delete not enabled

Set

Create Task

Batch Operation

View Usage

User Guide

Task Description/ID	Primary Source Type	Push Destination URL	Status	Start Time	End Time	Operation
<input type="checkbox"/> test01	Live streaming	rtmp://	Valid	2024-05-23 17:09:46	2024-05-24 17:09:46	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Valid	2024-05-23 16:05:02	2024-05-24 16:05:02	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Disable	2024-05-23 15:11:12	2024-05-24 15:11:12	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Not started	2024-08-08 11:10:12	2024-08-14 11:10:12	Streaming data
<input type="checkbox"/>	Image	rtmp://	Expired	2023-11-07 17:21:12	2023-11-08 17:21:12	Streaming data

Total entries: 5. Selected: 0.

Task Status	Field Value	Description
Not started	Inactive	The task has not started yet.
Valid	Active	The task has started and is executed as expected.

	Inactive	The task has started but is not executed as expected.
Disabled	Inactive	The task is disabled.
Expired	Inactive	The task has expired.

Querying Streaming Data

In the task list, select the successfully created relay task, and click **Streaming data** in the **Operation** column on the right to query the streaming data of the relay task. The event display information includes the event type, content type, time, source IP, target IP, and detailed information.

Relay

The relay function is a paid value-added service, the fees of which encompass the relay task duration fees, the third-party relay fees, and the value-added function fees. For relay, pulling the stream from the source address equates to playback, and the source address will generate corresponding playback/du rules, please refer to the [Billing Documentation](#).

Relay only pulls and pushes contents. Please ensure that the contents have been authorized and comply with the laws and regulations for distribution. If the contents infringe relevant rights or violate regulations, CSS will suspend related features and reserve the right to legal action.

Current/Total Tasks Allowed

5 / 195

Active

2

Expired

1 Channel(s)

Auto-delete not enabled [Set](#)

Create Task

Batch Operation

View Usage

User Guide

Task ID

Task Description/ID	Primary Source Type	Push Destination URL	Status	Start Time	End Time	Operation
<input type="checkbox"/> test01	Live streaming	rtmp://[REDACTED]	Valid	2024-05-23 17:09:46	2024-05-24 17:09:46	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://[REDACTED]	Valid	2024-05-23 16:05:02	2024-05-24 16:05:02	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://[REDACTED]	Disable	2024-05-23 15:11:12	2024-05-24 15:11:12	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://[REDACTED]	Not started	2024-08-08 11:10:12	2024-08-14 11:10:12	Streaming data
<input type="checkbox"/>	Image	rtmp://[REDACTED]	Expired	2023-11-07 17:21:12	2023-11-08 17:21:12	Streaming data

Total entries: 5. Selected: 0.

10

The streaming data query page of a relay task allows you to query the data of a single stream in the past seven days, including the video frame rate, video bit rate, audio frame rate, and audio bit rate. The interval between the start and end time of the query should not exceed 3 hours.

Relay / Relay task statistics / Task ID: [REDACTED]

Today

Yesterday

2 days ago

2024-05-23 15:00:00 ~ 2024-05-23 17:41:20

Query

You can query data in last 7 days. The query period is up to 3 hours. If a push from the same IP is restarted after an interruption, its trendlines will resume in a different color.

Video Frame Rate (Unit: fps)

10

R



Video Bitrate (Unit: Kbps)



Audio Frame Rate (Unit: fps)



Audio Bitrate (Unit: Kbps)



Events

Event Type	Content Type	Time	Source IP	Destination IP	Details
Error	Live streaming	2024-05-23 17:41:20	[REDACTED]	-	open master source failed
Error	Live streaming	2024-05-23 17:41:17	[REDACTED]	-	open master source failed
Error	Live streaming	2024-05-23 17:41:11	[REDACTED]	-	open master source failed
Error	Live streaming	2024-05-23 17:41:09	[REDACTED]	-	open backup source failed
Error	Live streaming	2024-05-23 17:41:08	[REDACTED]	-	open master source failed
Error	Live streaming	2024-05-23 17:41:06	-	-	open master source failed
Error	Live streaming	2024-05-23 17:41:06	[REDACTED]	-	open backup source failed

Error	Live streaming	2024-05-23 17:41:05		-	open master source failed
Error	Live streaming	2024-05-23 17:41:03		-	open backup source failed
Error	Live streaming	2024-05-23 17:41:02		-	open master source failed

Total Items: 338

10 / page 1 / 34 pages

Modifying a Task

1. In the [task list](#), find the task you want to modify, and click **Edit**.

Relay

The relay function is a paid value-added service, the fees of which encompass the relay task duration fees, the third-party relay fees, and the value-added function fees. For relay, pulling the stream from the source address equates to playback, and the source address will generate corresponding playback billing rules, please refer to the [Billing Documentation](#).

Relay only pulls and pushes contents. Please ensure that the contents have been authorized and comply with the laws and regulations for distribution. If the contents infringe relevant rights or violate regulations, CSS will suspend related features and reserve the right to legal action.

Current/Total Tasks Allowed
5 / 195

Active
2

Expired
1 Channel(s)
Auto-delete not enabled [Set](#)

[Create Task](#) [Batch Operation](#) [View Usage](#) [User Guide](#) [Task ID](#)

Task Description/ID	Primary Source Type	Push Destination URL	Status	Start Time	End Time	Operation
<input type="checkbox"/> test01	Live streaming	rtmp://	Valid	2024-05-23 17:09:46	2024-05-24 17:09:46	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Valid	2024-05-23 16:05:02	2024-05-24 16:05:02	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Disable	2024-05-23 15:11:12	2024-05-24 15:11:12	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Not started	2024-08-08 11:10:12	2024-08-14 11:10:12	Streaming data
<input type="checkbox"/>	Image	rtmp://	Expired	2023-11-07 17:21:12	2023-11-08 17:21:12	Streaming data

Total entries: 5. Selected: 0.

10

2. Modify the task information, and then click **Save**.

You cannot change the region or content type.

When modifying the task end time, make sure that the destination URL is valid until the task ends. Modifying the destination URL will cause the task to stop and restart.

If you change watermark settings for a live streaming source, the modifications will take effect immediately. For an on-demand video source, modifications to watermark settings will take effect starting from the next video. Modifying watermark settings may cause playback to stutter. We recommend you use the watermark feature for relay only if you relay to third-party sites that do not have watermarking capabilities. If you relay to CSS, you can use the live watermarking feature of CSS.

The recording templates bound to the relay function only support templates that record the original stream content. To modify the recording template during a relay task, you need to halt the current task for 30 seconds before restarting it, only then can the new recording template take effect.

← Modify Relay Task

1 Basic Task Info

Task Description

test01

Execution Time *

2024-05-23 17:09:46 ~ 2024-05-24 17:09:46

Event Callback Notification

Enter a callback URL for receiving relay task events

2 Content Source Info

Region *

Random (Chinese mainland)

Content Type *

Live streaming

Custom video path

Image

https://

Enable backup

Content Type *

Live streaming

Custom video path

Source URL *

https://

3 Optional settings

Watermark

Configuration

Image

Location

X-AXIS 0% Y-AXIS 0%

Transcoding

Configuration

Template Name	Template ID	Template Type	Codec	Video Bitrate	Loudness
		Transcoding...	Original codec	2000 kbps	-

Enabling transcoding will generate [live transcoding fees](#).

Recording

Configuration

Template

Template Name	Template ID	Storage	Recording Content	Recording Format	Storage Period
		【VOD】	Original stre...	HLS	Permanent

Mode

Record and relay

Record only

4 URL for Receiving Content

Destination

rtmp://

Add

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Page 403 of 553

Address *

Use [Address Generator](#)

Save

Cancel

3. In the pop-up window, check the information:
Suppose you modified the **start time, end time, and playback count** of a task. You would see the following information in the pop-up window:

Confirm Change

Item	Before	After
Task Descri...	test01	test
Start Time	2024-05-23 17:09:46	2024-05-23 17:10:46
End Time	2024-05-24 17:09:46	2024-05-24 17:10:46
Callback URL		https://
Backup Sou...	Live streaming	Custom video path
Backup Sou...	https://	https://

Confirm

Cancel

If the source URLs for **Custom video path** are changed, you need to select whether to apply the change **After the current video ends** (default) or **Now**. After the changes take effect, relay will restart from the first source URL.

Confirm Change

Item	Before	After
Content Type	VOD	VOD
Source Conte...	1. [REDACTED] [REDACTED]	1. [REDACTED] 2. [REDACTED]

Before change, the content source is video on demand. Please select when to apply the change:

After the current video er

After the current video er

Now

Confirm

Cancel

If **Destination Address** is changed, the system will remind you that after you click **Confirm**, the current relay task will **stop and restart**.

Confirm Change

Item	Before	After
Destination ...	[REDACTED] [REDACTED]	[REDACTED] [REDACTED]

Changing the destination URL will stop and restart the current relay task automatically.

Confirm

Cancel

4. After checking, click **Confirm**.

Copying a Task

1. In the [task list](#), find the relay task you want to copy, and click **Copy**. You will be directed to the task creation page.

Relay

The relay function is a paid value-added service, the fees of which encompass the relay task duration fees, the third-party relay fees, and the value-added function fees. For relay, pulling the stream from the source address equates to playback, and the source address will generate corresponding playback billing rules, please refer to the [Billing Documentation](#).
Relay only pulls and pushes contents. Please ensure that the contents have been authorized and comply with the laws and regulations for distribution. If the contents infringe relevant rights or violate regulations, CSS will suspend related features and reserve the right to legal action.

Current/Total Tasks Allowed
5 / 195

Active
2

Expired
1 Channel(s)
Auto-delete not enabled [Set](#)

Create TaskBatch OperationView UsageUser GuideTask ID

Task Description/ID	Primary Source Type	Push Destination URL	Status	Start Time	End Time	Operation
<input type="checkbox"/> test01	Live streaming	rtmp://	Valid	2024-05-23 17:09:46	2024-05-24 17:09:46	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Valid	2024-05-23 16:05:02	2024-05-24 16:05:02	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Disable	2024-05-23 15:11:12	2024-05-24 15:11:12	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Not started	2024-08-08 11:10:12	2024-08-14 11:10:12	Streaming data
<input type="checkbox"/>	Image	rtmp://	Expired	2023-11-07 17:21:12	2023-11-08 17:21:12	Streaming data

Total entries: 5. Selected: 0.

2. The information of the copied task will be auto-filled. You can **modify** it as needed.

3. Click **Save** to create a new relay task.

Restarting a Task

Restarting a task will **not change its status**. An ongoing task will be **restarted from the beginning**. Perform the following to restart a task:

1. In the [task list](#), find the relay task you want to restart, and click **Restart**.

Relay

The relay function is a paid value-added service, the fees of which encompass the relay task duration fees, the third-party relay fees, and the value-added function fees. For relay, pulling the stream from the source address equates to playback, and the source address will generate corresponding playback/billing rules, please refer to the [Billing Documentation](#).
Relay only pulls and pushes contents. Please ensure that the contents have been authorized and comply with the laws and regulations for distribution. If the contents infringe relevant rights or violate regulations, CSS will suspend related features and reserve the right to legal action.

Current/Total Tasks Allowed
5 / 195

Active
2

Expired
1 Channel(s)
Auto-delete not enabled [Set](#)

[Create Task](#) [Batch Operation](#) [View Usage](#) [User Guide](#) [Task ID](#)

Task Description/ID	Primary Source Type	Push Destination URL	Status	Start Time	End Time	Operation
<input type="checkbox"/> test01	Live streaming	rtmp://[REDACTED]	Valid	2024-05-23 17:09:46	2024-05-24 17:09:46	Streaming data
<input type="checkbox"/> [REDACTED]	Live streaming	rtmp://[REDACTED]	Valid	2024-05-23 16:05:02	2024-05-24 16:05:02	Streaming data
<input type="checkbox"/> [REDACTED]	Live streaming	rtmp://[REDACTED]	Disable	2024-05-23 15:11:12	2024-05-24 15:11:12	Streaming data
<input type="checkbox"/> [REDACTED]	Live streaming	rtmp://[REDACTED]	Not started	2024-08-08 11:10:12	2024-08-14 11:10:12	Streaming data
<input type="checkbox"/> [REDACTED]	Image	rtmp://[REDACTED]	Expired	2023-11-07 17:21:12	2023-11-08 17:21:12	Streaming data

Total entries: 5. Selected: 0. 10

2. In the pop-up window, click **Restart**.

Restart Task

Restarting a task will not change its status. An ongoing task will be restarted from the beginning. Are you sure you want to restart "test01 (ID: [REDACTED])"?

Restart

Cancel

Disabling a Task

If you disable a task, **the task will stop**. You can click **Enable** to start it again. Perform the following to disable a task:

1. In the [task list](#), find the relay task you want to disable, and click **Disable**.

Relay

The relay function is a paid value-added service, the fees of which encompass the relay task duration fees, the third-party relay fees, and the value-added function fees. For relay, pulling the stream from the source address equates to playback, and the source address will generate corresponding playback/billing rules, please refer to the [Billing Documentation](#).
Relay only pulls and pushes contents. Please ensure that the contents have been authorized and comply with the laws and regulations for distribution. If the contents infringe relevant rights or violate regulations, CSS will suspend related features and reserve the right to legal action.

Current/Total Tasks Allowed
5 / 195

Active
2

Expired
1 Channel(s)
Auto-delete not enabled [Set](#)

Create Task

Batch Operation

View Usage

User Guide

Task ID

Task Description/ID	Primary Source Type	Push Destination URL	Status	Start Time	End Time	Operation
<input type="checkbox"/> test01	Live streaming	rtmp://	Valid	2024-05-23 17:09:46	2024-05-24 17:09:46	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Valid	2024-05-23 16:05:02	2024-05-24 16:05:02	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Disable	2024-05-23 15:11:12	2024-05-24 15:11:12	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Not started	2024-08-08 11:10:12	2024-08-14 11:10:12	Streaming data
<input type="checkbox"/>	Image	rtmp://	Expired	2023-11-07 17:21:12	2023-11-08 17:21:12	Streaming data

Total entries: 5. Selected: 0.

10 /

2. In the pop-up window, click **Disable**.

×

Disable Task

Disabling a task will pause it, and you need to enable it to restart it from the beginning. Are you sure you want to disable "test01 (ID:)"?

Disable

Cancel

Enabling a Task

If you enable a task, **the task will start from the beginning**. Perform the following to enable a task:

1. In the [task list](#), find the relay task you want to enable, and click **Enable**.

Relay

The relay function is a paid value-added service, the fees of which encompass the relay task duration fees, the third-party relay fees, and the value-added function fees. For relay, pulling the stream from the source address equates to playback, and the source address will generate corresponding playback/billing rules, please refer to the [Billing Documentation](#).
Relay only pulls and pushes contents. Please ensure that the contents have been authorized and comply with the laws and regulations for distribution. If the contents infringe relevant rights or violate regulations, CSS will suspend related features and reserve the right to legal action.

Current/Total Tasks Allowed
5 / 195

Active
2

Expired
1 Channel(s)
Auto-delete not enabled [Set](#)

Create Task

Batch Operation

View Usage

User Guide

Task ID

Task Description/ID	Primary Source Type	Push Destination URL	Status	Start Time	End Time	Operation
<input type="checkbox"/> [Task 1]	Live streaming	rtmp://[Redacted]	Valid	2024-05-23 17:09:46	2024-05-24 17:09:46	Streaming data
<input type="checkbox"/> [Task 2]	Live streaming	rtmp://[Redacted]	Valid	2024-05-23 16:05:02	2024-05-24 16:05:02	Streaming data
<input type="checkbox"/> [Task 3]	Live streaming	rtmp://[Redacted]	Disable	2024-05-23 15:11:12	2024-05-24 15:11:12	Streaming data
<input type="checkbox"/> [Task 4]	Live streaming	rtmp://[Redacted]	Not started	2024-08-08 11:10:12	2024-08-14 11:10:12	Streaming data
<input type="checkbox"/> [Task 5]	Image	rtmp://[Redacted]	Expired	2023-11-07 17:21:12	2023-11-08 17:21:12	Streaming data

Total entries: 5. Selected: 0.

2. In the pop-up window, click **OK**.

×

Enable Task
Enabling a task will restart it from the beginning. Are you sure you want to enable "1 (ID: [Redacted])"?

OK

Cancel

Deleting a Task

Deleted tasks **cannot be recovered**. Perform the following to delete a task:

1. In the [task list](#), find the relay task you want to delete, and click **Delete**.

Relay

The relay function is a paid value-added service, the fees of which encompass the relay task duration fees, the third-party relay fees, and the value-added function fees. For relay, pulling the stream from the source address equates to playback, and the source address will generate corresponding playback/billing rules, please refer to the [Billing Documentation](#).
Relay only pulls and pushes contents. Please ensure that the contents have been authorized and comply with the laws and regulations for distribution. If the contents infringe relevant rights or violate regulations, CSS will suspend related features and reserve the right to legal action.

Current/Total Tasks Allowed
5 / 195

Active
2

Expired
1 Channel(s)
Auto-delete not enabled [Set](#)

Create Task

Batch Operation

View Usage

User Guide

Task ID

Task Description/ID	Primary Source Type	Push Destination URL	Status	Start Time	End Time	Operation
<input type="checkbox"/> test01	Live streaming	rtmp://	Valid	2024-05-23 17:09:46	2024-05-24 17:09:46	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Valid	2024-05-23 16:05:02	2024-05-24 16:05:02	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Disable	2024-05-23 15:11:12	2024-05-24 15:11:12	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://	Not started	2024-08-08 11:10:12	2024-08-14 11:10:12	Streaming data
<input type="checkbox"/>	Image	rtmp://	Expired	2023-11-07 17:21:12	2023-11-08 17:21:12	Streaming data

Total entries: 5. Selected: 0.

2. In the pop-up window, click **Delete**.

×

Delete Task

Deleted tasks cannot be recovered. Are you sure you want to delete "test01 (ID:)"?

Delete

Cancel

Batch Operations

You can delete, disable, and enable **up to 10 relay tasks** at a time.

1. In the [task list](#), select the relay tasks you want to delete, disable, or enable.
2. Click **Batch Operation**, and select **Enable**, **Disable** or **Delete**.

Relay

The relay function is a paid value-added service, the fees of which encompass the relay task duration fees, the third-party relay fees, and the value-added function fees. For relay, pulling the stream from the source address equates to playback, and the source address will generate corresponding playback/billing rules, please refer to the [Billing Documentation](#). Relay only pulls and pushes contents. Please ensure that the contents have been authorized and comply with the laws and regulations for distribution. If the contents infringe relevant rights or violate regulations, CSS will suspend related features and reserve the right to legal action.

Current/Total Tasks Allowed
5 / 195

Active
2

Expired
1 Channel(s)
Auto-delete not enabled [Set](#)

Create Task

Batch Operation
Enable
Disable
Delete

View Usage

User Guide

Task ID

Task Description	Source Type	Push Destination URL	Status	Start Time	End Time	Operation
<input checked="" type="checkbox"/>	ming	rtmp://...	Valid	2024-05-23 17:09:46	2024-05-24 17:09:46	Streaming data
<input checked="" type="checkbox"/>	Live streaming	rtmp://...	Valid	2024-05-23 16:05:02	2024-05-24 16:05:02	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://...	Disable	2024-05-23 15:11:12	2024-05-24 15:11:12	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://...	Not started	2024-08-08 11:10:12	2024-08-14 11:10:12	Streaming data
<input type="checkbox"/>	Image	rtmp://...	Expired	2023-11-07 17:21:12	2023-11-08 17:21:12	Streaming data

Total entries: 5. Selected: 2.

3. In the pop-up window, click **Enable**, **Disable** or **Delete**.

×

Delete Task
Deleted tasks cannot be recovered. Are you sure you want to delete the selected 2 tasks?

Delete

Cancel

Auto-Deleting Expired Tasks

A task expires after its end time. If you have too many relay tasks, you may fail to create new ones. To avoid this, you can enable auto-delete for the system to delete expired tasks automatically at the specified time. Deleted tasks cannot be recovered.

1. Go to [Relay](#), and click **Set** in the **Expired** area.

Relay

The relay function is a paid value-added service, the fees of which encompass the relay task duration fees, the third-party relay fees, and the value-added function fees. For relay, pulling the stream from the source address equates to playback, and the source address will generate corresponding playback/billing rules, please refer to the [Billing Documentation](#).
Relay only pulls and pushes contents. Please ensure that the contents have been authorized and comply with the laws and regulations for distribution. If the contents infringe relevant rights or violate regulations, CSS will suspend related features and reserve the right to legal action.

Current/Total Tasks Allowed
5 / 195

Active
2

Expired
1 Channel(s)
Auto-delete not enabled **Set**

Create Task

Batch Operation

View Usage

User Guide

Task ID

Task Description/ID	Primary Source Type	Push Destination URL	Status	Start Time	End Time	Operation
<input type="checkbox"/>	Live streaming	rtmp://...	Valid	2024-05-23 17:09:46	2024-05-24 17:09:46	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://...	Valid	2024-05-23 16:05:02	2024-05-24 16:05:02	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://...	Disable	2024-05-23 15:11:12	2024-05-24 15:11:12	Streaming data
<input type="checkbox"/>	Live streaming	rtmp://...	Not started	2024-08-08 11:10:12	2024-08-14 11:10:12	Streaming data
<input type="checkbox"/>	Image	rtmp://...	Expired	2023-11-07 17:21:12	2023-11-08 17:21:12	Streaming data

Total entries: 5. Selected: 0.

10 /

2. Click



to enable auto-delete.

Auto-Delete Expired Tasks ×

A task expires after its end time. If you have too many relay tasks, you may fail to create new ones. To avoid this, you can enable auto-delete for the system to delete expired tasks automatically at the specified time. Deleted tasks cannot be recovered.

Auto-Delete ☐

Confirm

Cancel

3. Specify a period (1-24 hours) to retain expired tasks before they are deleted.

Auto-Delete Expired Tasks

A task expires after its end time. If you have too many relay tasks, you may fail to create new ones. To avoid this, you can enable auto-delete for the system to delete expired tasks automatically at the specified time. Deleted tasks cannot be recovered.

Auto-Delete



Retention Period



0



hour

An expired task is deleted once the retention period elapses.

Confirm

Cancel

Laboratory

ROI Intelligent Recognition

Last updated : 2024-07-09 17:32:02

ROI (region of interest) recognition can identify the positions of important visual elements in a video in real time, such as faces, game characters, or steaming hosts, and send this information along with the video to the playback device. Using the ROI information, the player can do things like blur the background in a scene and prevent on-screen comments from covering important elements of the video. This document explains how to create, modify, and delete ROI recognition templates in the console.

Notes

A template takes effect about 5-10 minutes after it is created.

To use the ROI recognition feature, you need to add the parameter `roirecognition` = ROI configuration name to your streaming URL. This lets the player access and process ROI data from the live stream, which can enable features like background blur and preventing on-screen comments from covering important parts of the video. For detailed instructions, see [ROI Intelligent Recognition Feature Practice](#). Example streaming URL:

```
rtmp://domain/AppName/StreamName?roirecognition=ROI Configuration Name
```

The ROI recognition feature is a **paid value-added service**. Using this feature incurs live transcoding fees and Media Processing Service (MPS) intelligent content recognition fees. For specific billing rules, refer to the billing documentation.

Prerequisites

You have activated Tencent Cloud Streaming Services.

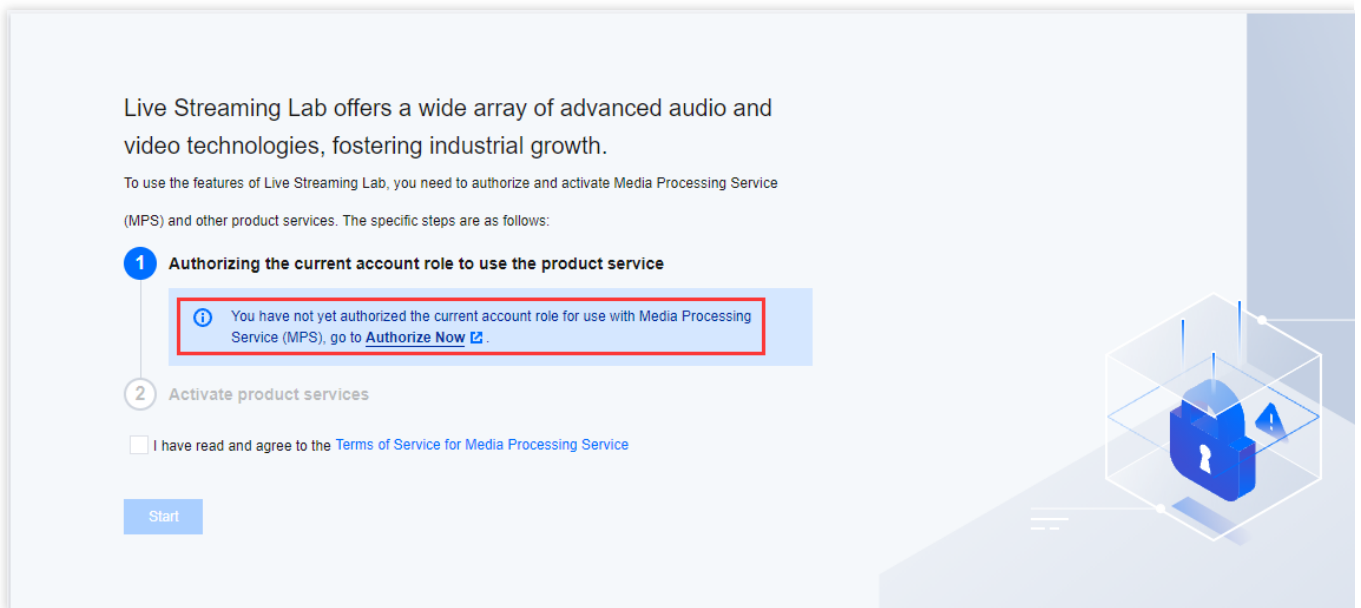
Creating an ROI Configuration Template

1. Log in to the [CSS Console](#) and select **Laboratory** > [ROI Intelligent Recognition](#).

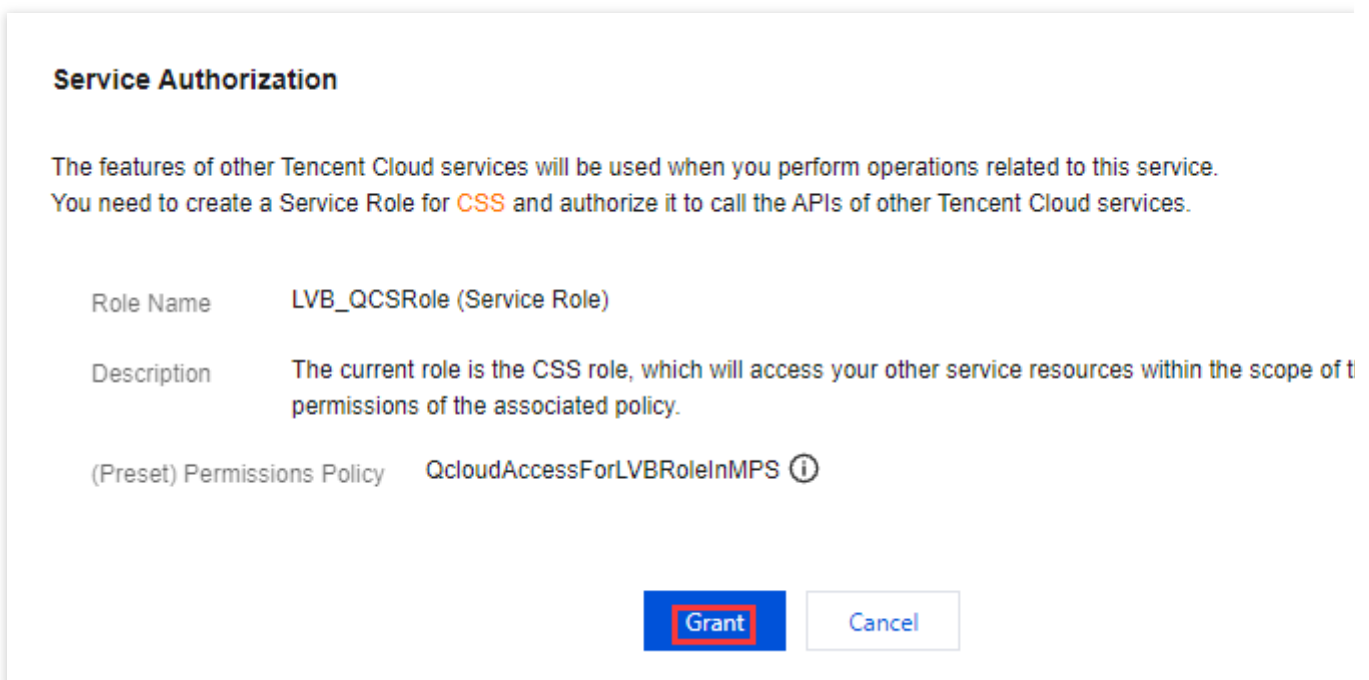
Note:

To use the ROI intelligent recognition feature in the Live Streaming Lab, **the first time** you create a template, you will also need to create a service role and authorize the current account to use MPS. Click **Authorize Now** to enter the CAM for authorization.

2. Click **Authorize Now** to enter the CAM role management page.



3. On the role management page, click **Grant** to complete the identity verification and finalize the Media Processing Service authorization, enabling normal use of the Media Processing Service.



4. After successful authorization, check the service agreement and click **Start**, and the system will automatically activate the MPS product and open the Intelligent Streaming Media Processing management page.

5. Enter the Intelligent Streaming Media Processing management page, and click **Create ROI template**.

←

Intelligent Streaming Media Processing






Region of Interest (ROI)

①

Real-time recognition of game characters, anchors and other coordinate information, bringing ROI information with the video to the player. The player can use the ROI information to implement intelligent bullet screen anti-shading 'roi-recognition' during live stream. For details, see [Introduction](#).

The region of interest (ROI) feature is a paid value-added service. The use of this feature will incur fees for Cloud Streaming Services transcoding and Media Processing Service's content intelligent identification. For billing rules, see [Billing Rules](#).

Create ROI template

Name	ID	Description	Training Model	Creation
	15		NBA2K Game	2024-05-
	14		Live Shows	2024-05-
roitest003	11	test3	Live Shows	2024-04-
roitest002	10	test2	NBA2K Game	2024-04-
roitest001	9	test	Honor of Kings	2024-04-
	8		General	2024-04-

Total items: 6

6. Enter the ROI configuration page and proceed with the following configuration:

Region of Interest (ROI) Configuration

Name *

roi

Enter 1-10 characters

Supports only combinations of letters and numbers.

Description

Max 100 characters; supports Chinese characters, letters, digits, spaces, and _ -

Training Model


☒ General

☐ Honor of Kings

☐ NBA2K Game

☐ Live Shows

The system recognizes coordinates of faces and game characters in videos. The accuracy of video classification is greatly influenced by different training models. Choosing the right scene's training model can improve the accuracy of ROI Intelligent Identification. If you have other recognition requirements, please [Submit a Ticket](#).



Recognition of common areas of human eye focus in different

Confirm

Cancel

Configuration Item	Description
Name	The default prefix "roi" is added to the template name. The template name can be 1-10 characters long (only combinations of letters and digits are supported).
Description	Supports only Chinese, English, digits, spaces, underscores (_), hyphens (-) and can be up to 100 characters long.
Training Model	Default is General . Supported training models include: Honor of Kings, NBA2K Game, and

Live Shows.

General: Capable of recognizing common areas of human eye focus in different environments.

Honor of Kings: Capable of recognizing hero roles and zones in different environments within the Honor of Kings game.

NBA2K Game: Capable of recognizing players, basketballs, scoreboards, and other zones in different environments within the NBA2K game.

Live Shows: Capable of recognizing the host's face.

Note:

The system can identify elements such as faces and game characters within the video.

Selecting an appropriate training model for the scenario can greatly improve the accuracy of ROI intelligent recognition. If the models provided do not meet the needs of your specific scenario, you can [submit a ticket](#) to request a model.

7. After filling in the configuration items, click **Confirm** to complete.

Modifying a Template

1. Log in to the [CSS Console](#) and select **Laboratory** > [ROI Intelligent Recognition](#).
2. Select your successfully created ROI configuration template, and click **Edit** on the right to modify the template information.

← Intelligent Streaming Media Processing

Region of Interest (ROI)

①

Real-time recognition of game characters, anchors and other coordinate information, bringing ROI information with the video to the player. The player can use the ROI information to implement intelligent bullet screen anti-shading 'roi-recognition' during live stream. For details, see [Introduction](#).

The region of interest (ROI) feature is a paid value-added service. The use of this feature will incur fees for Cloud Streaming Services transcoding and Media Processing Service's content intelligent identification. For billing rules, see [Billing Rules](#).

Create ROI template

Name	ID	Description	Training Model	Creation
roitest008	27		Honor of Kings	2024-07-
	15		NBA2K Game	2024-05-
	14		Live Shows	2024-05-
roitest003	11	test3	Live Shows	2024-04-
roitest002	10	test2	NBA2K Game	2024-04-
roitest001	9	test	Honor of Kings	2024-04-
roitest	8	CSS	General	2024-04-

Total items: 7

3. Click **Confirm** to complete.

Deleting a Template

1. Log in to the [CSS Console](#) and select **Laboratory** > [ROI Intelligent Recognition](#).
2. Select your successfully created ROI configuration template, and click **Delete** to the right.

← Intelligent Streaming Media Processing

Region of Interest (ROI)

①

Real-time recognition of game characters, anchors and other coordinate information, bringing ROI information with the video to the player. The player can use the ROI information to implement intelligent bullet screen anti-shading 'roi-recognition' during live stream. For details, see [Introduction](#) .
The region of interest (ROI) feature is a paid value-added service. The use of this feature will incur fees for Cloud Streaming Services transcoding and Media Processing Service's content intelligent identification. For billing rules, see [Billing Rules](#) .

Create ROI template

Name	ID	Description	Training Model	Creation
roitest008	27		Honor of Kings	2024-07-
	15		NBA2K Game	2024-05-
	14		Live Shows	2024-05-
roitest003	11	test3	Live Shows	2024-04-
roitest002	10	test2	NBA2K Game	2024-04-
roitest001	9	test	Honor of Kings	2024-04-
roitest	8	CSS	General	2024-04-

Total items: 7

3. Click **OK** to confirm that you want to delete the template.

Deleting ROI configuration

×

Are you sure you want to delete this configuration?

OK

Cancel

Billing Usage Statistics

Last updated : 2024-06-25 15:36:07

Billing usage statistics

The Tencent Cloud console provides a billing usage statistics query feature for Live Video Broadcasting (LVB) and Live Event Broadcasting (LEB). If you want to know about the current upstream traffic/bandwidth, playback traffic/bandwidth, push channels, live transcoding, live recording, time shifting, live screencapture, enhancement, content moderation, relay task duration, third-party relay, real-time log, and other service usage, you can view the relevant data in **Statistics** > [Billing Usage Statistics](#) in the CSS console. You can view data related to CSS service usage in the last month.

Upstream Traffic/Bandwidth

Playback Traffic/Bandwidth

Push Channels

Live transcoding

Live recording

Time shifting

Live screencapture

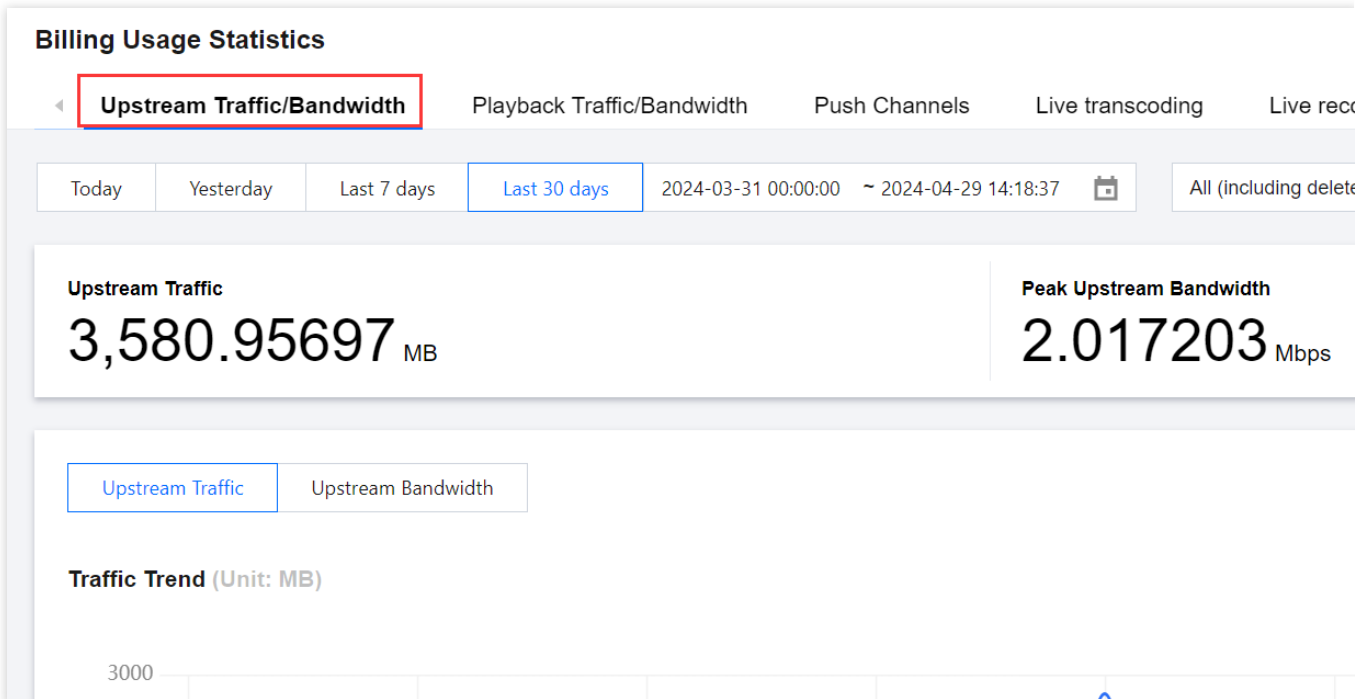
Enhancement

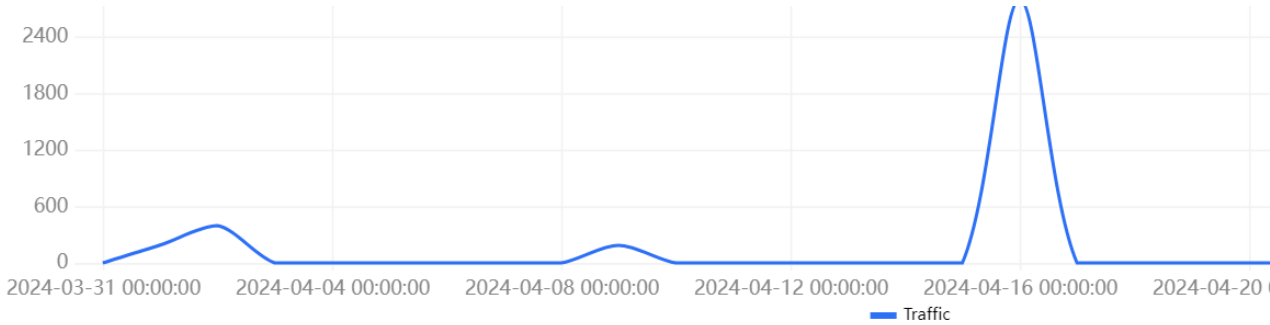
Content moderation

Relay task duration

Third-party relay

Real-time Log





Details

Time Point
2024-03-31 00:00:00
2024-04-01 00:00:00
2024-04-02 00:00:00
2024-04-03 00:00:00
2024-04-04 00:00:00
2024-04-05 00:00:00
2024-04-06 00:00:00
2024-04-07 00:00:00
2024-04-08 00:00:00
2024-04-09 00:00:00

Total items: 30

Billing Usage Statistics

Upstream Traffic/Bandwidth Playback Traffic/Bandwidth Push Channels Live transcoding Live recording

Today Yesterday Last 7 days Last 30 days 2024-03-31 00:00:00 ~ 2024-04-29 14:19:36 LVB All (i

Query

Playback Traffic
4 998 797846...

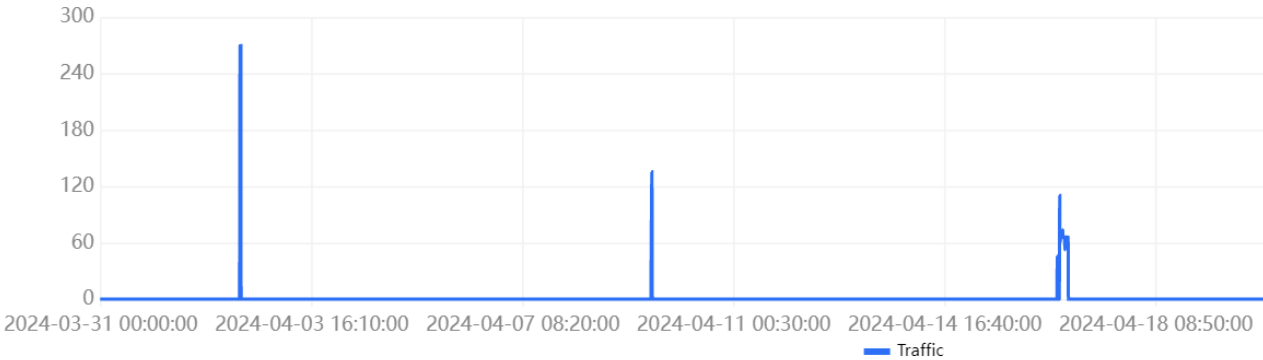
Peak Playback Bandwidth
7 18314...

7,000.137040 MB

7.10017 Mbps

- Playback Traffic
- Playback Bandwidth

Traffic Trend (Unit: MB)




Details

Time Point
2024-03-31 00:00:00
2024-04-01 00:00:00
2024-04-02 00:00:00
2024-04-03 00:00:00
2024-04-04 00:00:00
2024-04-05 00:00:00
2024-04-06 00:00:00
2024-04-07 00:00:00
2024-04-08 00:00:00
2024-04-09 00:00:00

Total Items: 30

Billing Usage Statistics

Upstream Traffic/Bandwidth Playback Traffic/Bandwidth **Push Channels** Live transcoding Live recording

Today Yesterday Last 7 days **Last 30 days** 2024-03-31 00:00:00 ~ 2024-04-29 14:20:50  All (including deleted)

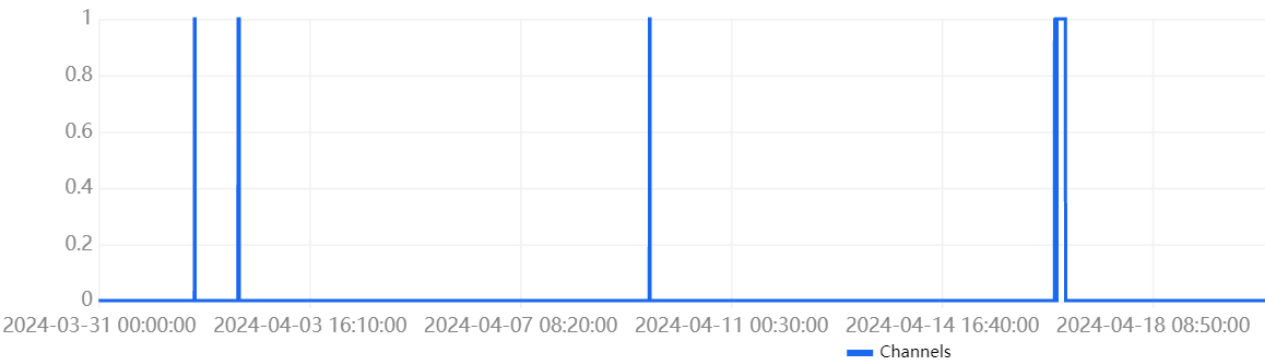
Current Channels

0 Channel(s)

Peak Channels

1 Channel(s)

Push Channels (Unit: Channel)



Peak Channels in Last 30 Days


Time
2024-03-30
2024-03-31
2024-04-01
2024-04-02
2024-04-03
2024-04-04
2024-04-05
2024-04-06
2024-04-07
2024-04-08

Total items: 30

Total items: 30

Billing Usage Statistics

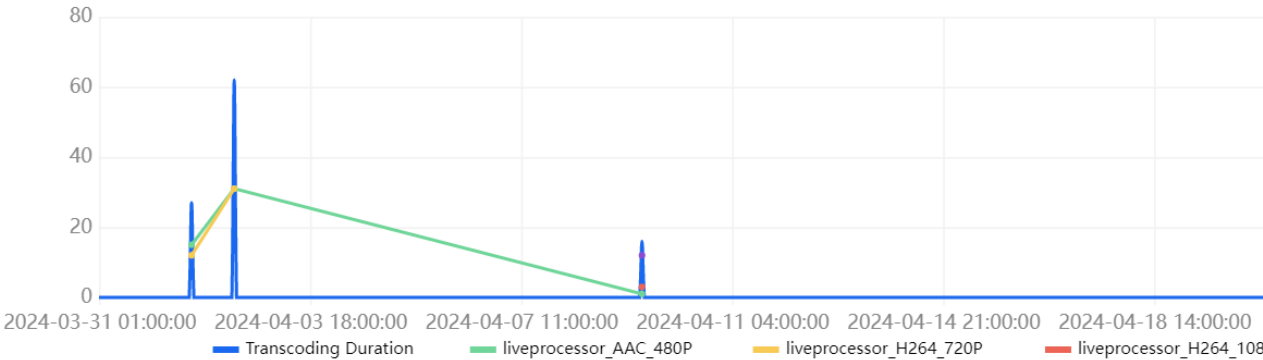
Upstream Traffic/Bandwidth Playback Traffic/Bandwidth Push Channels **Live transcoding** Live recor

Today Yesterday Last 7 days **Last 30 days** 2024-03-31 00:00:00 ~ 2024-04-29 14:21:45  All (including delete









Total Transcoding Duration

105 min

Transcoding Minutes (2024-03-31 00:00:00 - 2024-04-29 14:21:45)



Monthly Usage

StreamName	Transcoding Start Time	Transcoding End Time	Transcoding Duration (min)	Codec	Regior
	2024-04-09 14:37:00	2024-04-09 14:37:00	1	liveprocessor_AAC	Chinese ma
	2024-04-09 14:30:00	2024-04-09 14:41:00	12	liveprocessor_H264	Chinese ma
	2024-04-09 14:19:00	2024-04-09 14:22:00	3	liveprocessor_H264	Chinese ma
	2024-04-02 10:23:00	2024-04-02 10:54:00	31	liveprocessor_AAC	Chinese ma
	2024-04-02 10:23:00	2024-04-02 10:54:00	31	liveprocessor_H264	Chinese ma
	2024-04-01 16:12:00	2024-04-01 16:14:00	3	liveprocessor_AAC	Chinese ma
	2024-04-01 16:10:00	2024-04-01 16:21:00	12	liveprocessor_H264	Chinese ma
	2024-04-01 16:10:00	2024-04-01 16:21:00	12	liveprocessor_AAC	Chinese ma

Total items: 8

Billing Usage Statistics

Upstream Traffic/Bandwidth Playback Traffic/Bandwidth Push Channels Live transcoding **Live recording**

Today Yesterday Last 7 days **Last 30 days** 2024-03-31 00:00:00 ~ 2024-04-29 14:22:28 All (including deleted)

Recording Channel Peak

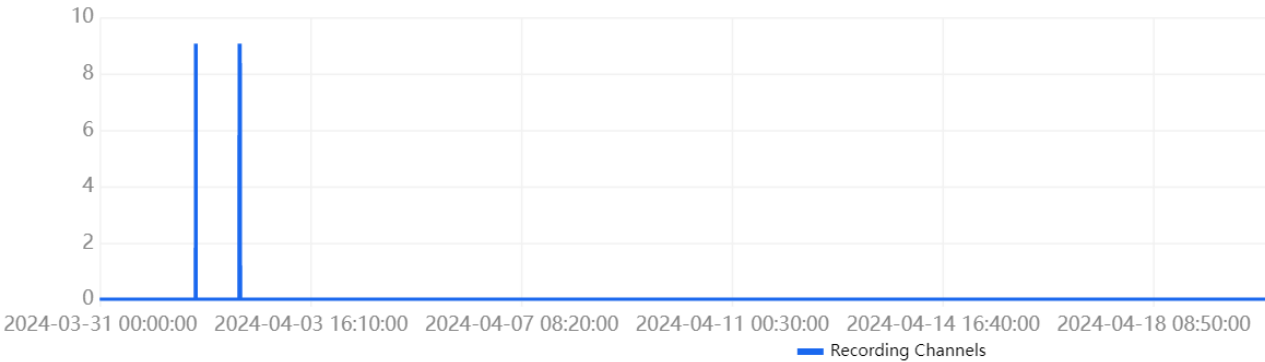
9 Channel(s)

Total duration to COS

0 min

Recording Channels Recording to COS

Number of Recording Channels



Billing Usage Statistics

Upstream Traffic/Bandwidth Playback Traffic/Bandwidth Push Channels Live transcoding Live record

TodayYesterdayLast 7 daysLast 30 days2024-03-31 00:00:00 ~ 2024-04-29 14:23:03All regions

AllQuery

Time shifting traffic

0 MB

Time shifting traffic (MB)

No data

Details

Time	Domain Name	Region	Time-sh
No data			

Total items: 0

Billing Usage Statistics

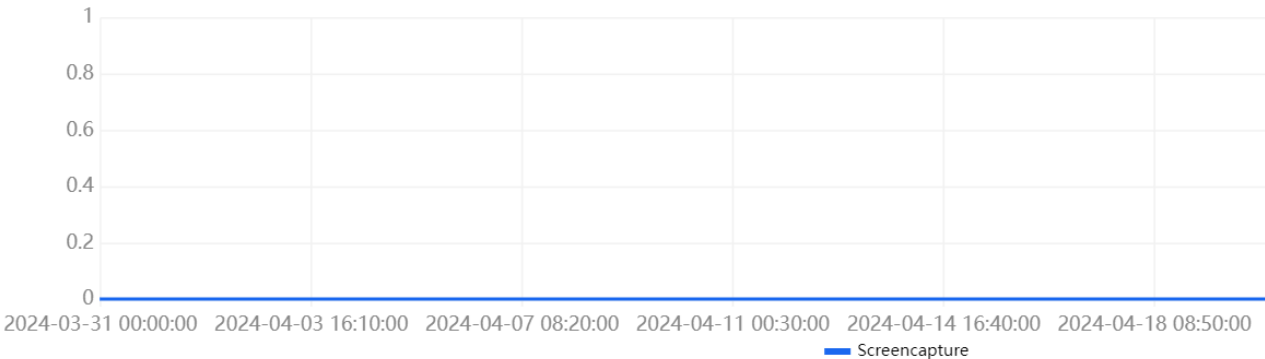
Upstream Traffic/Bandwidth Playback Traffic/Bandwidth Push Channels Live transcoding Live record

Today Yesterday Last 7 days Last 30 days 2024-03-31 00:00:00 ~ 2024-04-29 14:23:48 All (including delete)

Accumulated Screenshots

0 Pcs

Number of Screenshots (2024-03-31 00:00:00 - 2024-04-29 14:23:48)



Monthly Usage

Month	Screentshots (pcs)
2024-04	0
2024-03	0
2024-02	0
2024-01	0
2023-12	0
2023-11	6946

Total items: 6

Billing Usage Statistics

◀ Live recording Time shifting Live screencapture **Enhancement** Content moderation Relay task d

Today

Yesterday

Last 7 days

Last 30 days

2024-03-31 00:00:00 ~ 2024-04-29 14:26:20

All domains

All resolutions ▼

All frame rates ▼

Query

Total duration

0 min

Duration (min)

No data

Details

Domain Name	Option	Resolution	Frame rate
No data yet			

Total items: 0

Billing Usage Statistics

◀ Live recording Time shifting Live screencapture Enhancement **Content moderation** Relay task c

Today Yesterday Last 7 days **Last 30 days** 2024-03-31 00:00:00 ~ 2024-04-29 14:27:04  All (including delete

Moderated images

0 Pcs

Moderated audio

0 min

Image moderation

Audio moderation

No data

Details

Time	Domain Name	Mode
No data yet		

Total items: 0

Billing Usage Statistics

◀ Live recording Time shifting Live screencapture Enhancement Content moderation **Relay task d**

Today Yesterday Last 7 days **Last 30 days** 2024-03-31 00:00:00 ~ 2024-04-29 14:27:44  Global ▼ 

Total Duration

0 min

Duration Unit: Min

Usage Details

Task ID	Task Type	Start Time	End Time	Regi
No data yet				

Total items: 0

Billing Usage Statistics

◀ Live recording Time shifting Live screencapture Enhancement Content moderation Relay task du

Today Yesterday Last 7 days Last 30 days 2024-03-31 00:00:00 ~ 2024-04-29 14:28:33 All (including delete

Bandwidth Peak

0 Mbps

Relay bandwidth Mbps

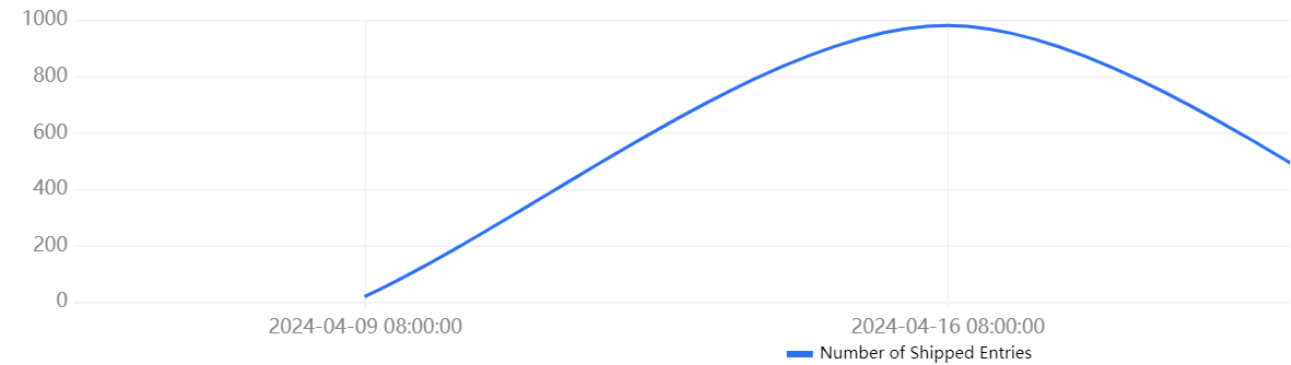
No data

Billing Usage Statistics

◀ Live recording Time shifting Live screencapture Enhancement Content moderation Relay task du

Today Yesterday Last 7 days Last 30 days 2024-03-31 00:00:00 ~ 2024-04-29 14:29:57 All (including delete

Number of Shipped Entries (Unit: Entries)



Billing details

--	--	--

Billable Service	Statistical Item	Description
Upstream traffic/bandwidth	Upstream traffic	Upstream traffic consumed for push during the selected time range
	Peak upstream bandwidth	Peak bandwidth used for push during the selected time range
	Upstream traffic/bandwidth line chart	Upstream traffic/bandwidth usage on a 5-minute basis
	Details	Hourly upstream traffic/bandwidth consumption over the last 30 days
Playback traffic/bandwidth	Playback traffic	Downstream traffic consumed for playback during the selected time range
	Peak playback bandwidth	Peak bandwidth used for playback during the selected time range
	Playback traffic/bandwidth line chart	Downstream traffic/bandwidth usage on a 5-minute basis. You can choose to view the usage of LVB or LEB.
	Details	Hourly playback traffic/bandwidth consumption over the last 30 days
Push channels	Current channels	Current number of push channels
	Peak channels	Maximum number of push channels
	Push channel line chart	Number of push channels on a 5-minute basis
	Peak channels in last 30 days	Highest number of channels per day in the last 30 days
Live transcoding	Total transcoding duration	Total transcoding duration during the selected time range
	Transcoding duration line chart	Transcoding durations on a 5-minute basis
	Monthly usage	Transcoding detail information of stream dimension in the last 30 days
Live recording	Recording channel peak	Highest number of concurrent recording channels during the selected time range
	Total duration to COS	The total duration of recording shipping to COS during the query period
	Recording channel peak/Total	Highest number of concurrent recording channels on a 5-

	duration to COS line chart	minute basis/Cumulative data on the duration of recording shipping to COS
Time shifting	Time shifting traffic	Time shifting write volume during the query period
	Time shifting traffic line chart	Cumulative data of time shifting write volume on a 5-minute basis
	Details	Time shifting write volume by domain name and time shifting day
Live screencapture	Accumulated screenshots	Total number of screenshots taken during the selected time range
	Screenshot number line chart	Number of screenshots on a 5-minute basis
	Monthly usage	Total number of screenshots each month in the last six months
Enhancement	Total duration	Total enhancement duration during the query period
	Duration line chart	Enhancement duration data on a 5-minute basis
	Details	Live streaming enhancement consumption data in the last 30 days
Content moderation	Moderated images	Total number of images generated by image moderation during the query period
	Moderated audio	Total duration generated by audio moderation during the query period
	Image moderation/Audio moderation line chart	Cumulative data of image moderation/audio moderation on a 5-minute basis
	Details	Content moderation records in the last 30 days
Relay task duration	Total duration	Total duration of relay tasks during the selected time range
	Duration line chart	Cumulative task duration data on a 5-minute basis
	Usage details	Detailed information such as task start time and end time by task dimension
Third-party relay	Bandwidth peak	Peak bandwidth of the relay service during the query period
	Relay bandwidth line chart	Peak bandwidth of the relay service on a 5-minute basis

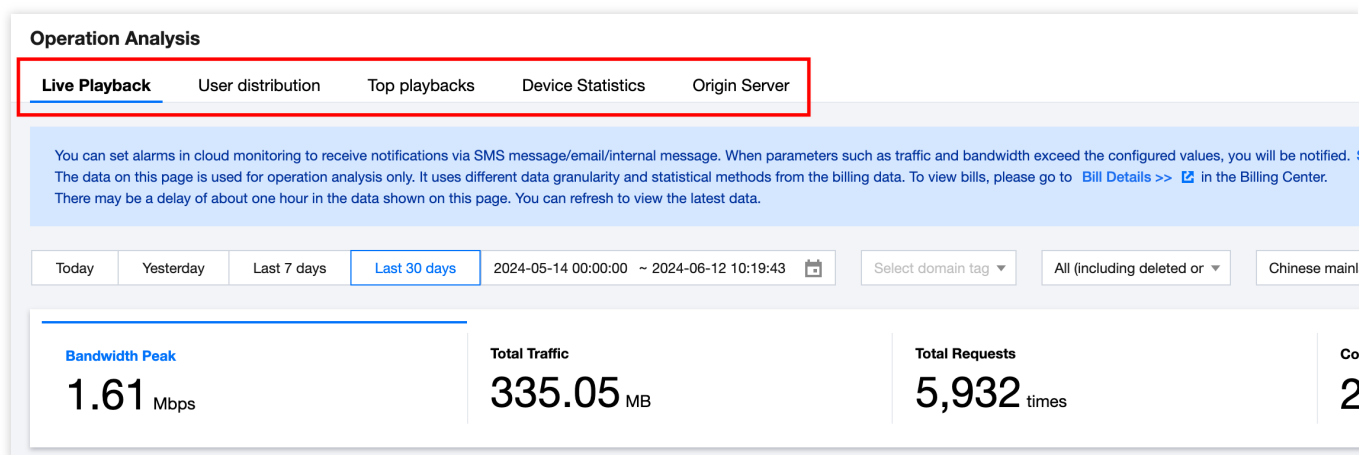
Real-time log	Number of shipped entries	Total number of shipped entries for push logs/playback logs during the query period
---------------	---------------------------	---

Monitoring

Operation Analysis

Last updated : 2024-06-19 15:09:47

The CSS console provides the **Operation Analysis** page where you can view data related to **Live Playback**, **User distribution**, **Top playbacks**, **Device Statistics**, and **Origin Server**.



Note:

For the **Live Playback** and **User distribution** tabs, data is based on the user's location IP.

The **Origin Server** tab does not support querying data before February 18, 2022.

Data for outside the Chinese mainland is aggregated instead of ISP-specific.

Live Playback

Under the **Live Playback** tab, you can view data on bandwidth peak, total traffic, total requests, and concurrent connection peak. It supports querying data at the domain name granularity and allows you to select regions and ISPs. You can query data for the last three months, and the maximum time span for each query is one month.

Operation Analysis

- Live Playback
- User distribution
- Top playbacks
- Device Statistics
- Origin Server

You can set alarms in cloud monitoring to receive notifications via SMS message/email/internal message. When parameters such as traffic and bandwidth exceed the configured values, you will be notified. [Set Alarms](#)

The data on this page is used for operation analysis only. It uses different data granularity and statistical methods from the billing data. To view bills, please go to [Bill Details >>](#) in the Billing Center.

There may be a delay of about one hour in the data shown on this page. You can refresh to view the latest data.

TodayYesterdayLast 7 daysLast 30 days

2024-05-14 00:00:00 ~ 2024-06-12 10:19:43

Select domain tag

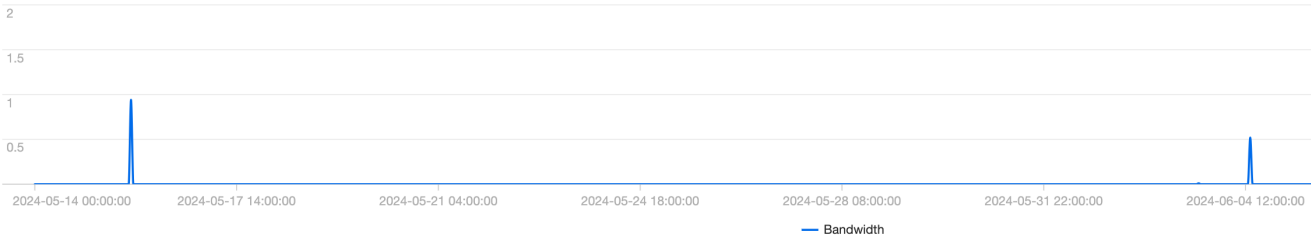
All (including deleted on)

Chinese mainland

All ISPs

Bandwidth Peak	Total Traffic	Total Requests	Concurrent Connection
1.61 Mbps	335.05 MB	5,932 times	2

Bandwidth Trend (Unit: Mbps)



Time Point	Bandwidth (Mbps)
2024-05-14 00:00:00	0
2024-05-15 00:00:00	0.94
2024-05-16 00:00:00	0
2024-05-17 00:00:00	0
2024-05-18 00:00:00	0
2024-05-19 00:00:00	0
2024-05-20 00:00:00	0
2024-05-21 00:00:00	0
2024-05-22 00:00:00	0
2024-05-23 00:00:00	0

Total items: 30

Statistical Item	Description
Bandwidth Peak	Peak bandwidth data generated by downstream playback of live streaming.
Total Traffic	Total traffic data generated by downstream playback of live streaming.
Total Requests	Total number of requests between the player and CSS platform during live streaming.
Concurrent Connection	Peak concurrent connection data between players and the CSS platform during

Peak

live streaming.

User Distribution

Under the **User distribution** tab, you can view the geographic location, traffic, and request data of live streaming users. It supports querying data at the domain name granularity and allows you to select regions and ISPs. You can query data for the last three months, and the maximum time span for each query is one month. The data is classified by **Greater region** and **Region** and sorted by the ratio of traffic in this region to the total traffic of all regions in the list.

Operation Analysis

Live Playback

User distribution

Top playbacks

Device Statistics

Origin Server

The data on this page is used for operation analysis only. It uses different data granularity and statistical methods from the billing data. To view bills, please go to [Bill Details >>](#) in the Billing Center.

TodayYesterdayLast 7 daysLast 30 days

2024-05-14 00:00:00 ~ 2024-06-12 10:24:44

Select domain tag

All (including deleted on

Chinese mainland

All ISPs

Query

View traffic trends

View bandwidth trends

<input type="checkbox"/> Ranking	Greater region	Region	Traffic (MB)	Traffic/Current list	Traffic/Total	Requests	Regional requests/Cu
<input type="checkbox"/> 1	South China	Guangdong	334.93	99.96%	99.96%	5681	95.77%
<input type="checkbox"/> 2	East China	Shanghai	0.11	0.03%	0.03%	229	3.86%
<input type="checkbox"/> 3	East China	Jiangsu	0.01	0%	0%	22	0.37%

Total items: 3

When querying data in the Chinese mainland, the **Greater region** includes North China, Northwest China, Northeast China, East China, Central China, Southwest China, South China, and Other. The **Region** are specific province under each **Greater region**.

When querying data outside of the Chinese mainland, the **Greater region** includes Asia Pacific Region 1, Asia Pacific Region 2, Asia Pacific Region 3, North America, Europe, South America, Middle East, Africa, and Other. The **Region** is specific country or region under each **Greater region**.

Operation Analysis

Live Playback **User distribution** Top playbacks Device Statistics Origin Server

The data on this page is used for operation analysis only. It uses different data granularity and statistical methods from the billing data. To view bills, please go to [Bill Details >>](#) [in the Billing Center](#).

Today Yesterday Last 7 days **Last 30 days** 2024-05-14 00:00:00 ~ 2024-06-12 10:24:44 Select domain tag All (including deleted on) **Outside Chinese mainland** All ISPs **Query**

[View traffic trends](#) [View bandwidth trends](#)

<input type="checkbox"/> Ranking	Greater region	Region	Traffic (MB)	Traffic/Current list
<input type="checkbox"/> 1	South China	Guangdong	334.93	99.96%
<input type="checkbox"/> 2	East China	Shanghai	0.11	0.03%
<input type="checkbox"/> 3	East China	Jiangsu	0.01	0%

Total items: 3

☐ Chinese mainland

North China ☐ Beijing ☐ Inner Mongolia ☐ Shanxi ☐ Hebei ☐ Tianjin

Northwest China ☐ Ningxia ☐ Shaanxi ☐ Gansu ☐ Qinghai ☐ Xinjiang

Northeast China ☐ Heilongjiang ☐ Jilin ☐ Liaoning

East China ☐ Fujian ☐ Jiangsu ☐ Anhui ☐ Shandong ☐ Shanghai ☐ Zhejiang

Central China ☐ Henan ☐ Hubei ☐ Jiangxi ☐ Hunan

Southwest China ☐ Guizhou ☐ Yunnan ☐ Chongqing ☐ Sichuan ☐ Tibet

South China ☐ Guangdong ☐ Guangxi ☐ Hainan

Other ☐ Other

☒ Outside Chinese mainland

Asia Pacific Region 1 ☒ Hong Kong (China) ☒ Singapore ☒ Macao (China) ☒ Vietnam

☒ Thailand ☒ Nepal ☒ Cambodia ☒ Pakistan

Asia Pacific Region 2 ☒ Taiwan (China) ☒ Japan ☒ South Korea ☒ Indonesia ☒ Malaysia

Asia Pacific Region 3 ☒ Philippines ☒ India ☒ Australia

North America ☒ US ☒ Canada ☒ Mexico

Europe ☒ UK ☒ Germany ☒ France ☒ Russia

☒ Italy ☒ Spain ☒ Ireland ☒ Netherlands

South America ☒ Brazil ☒ Colombia ☒ Argentina

Middle East ☒ Saudi Arabia ☒ United Arab Emirates ☒ Türkiye ☒ Qatar

☒ Bahrain ☒ Iraq ☒ Oman ☒ Kuwait

☒ Jordan ☒ Lebanon ☐ Israel ☒ Yemen ☒ Palestine

Africa ☒ South Africa ☒ Egypt ☒ Algeria ☒ Morocco

Other ☒ Other

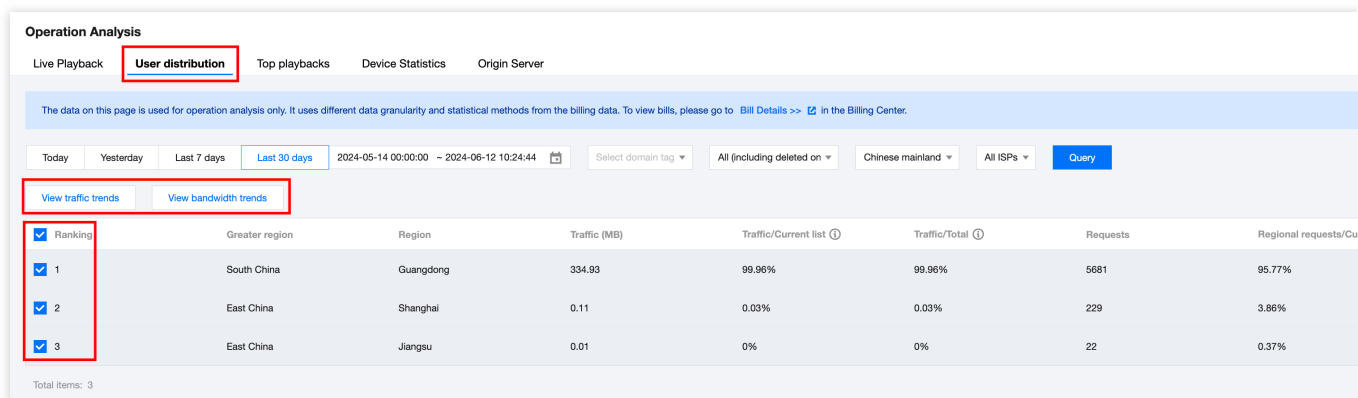
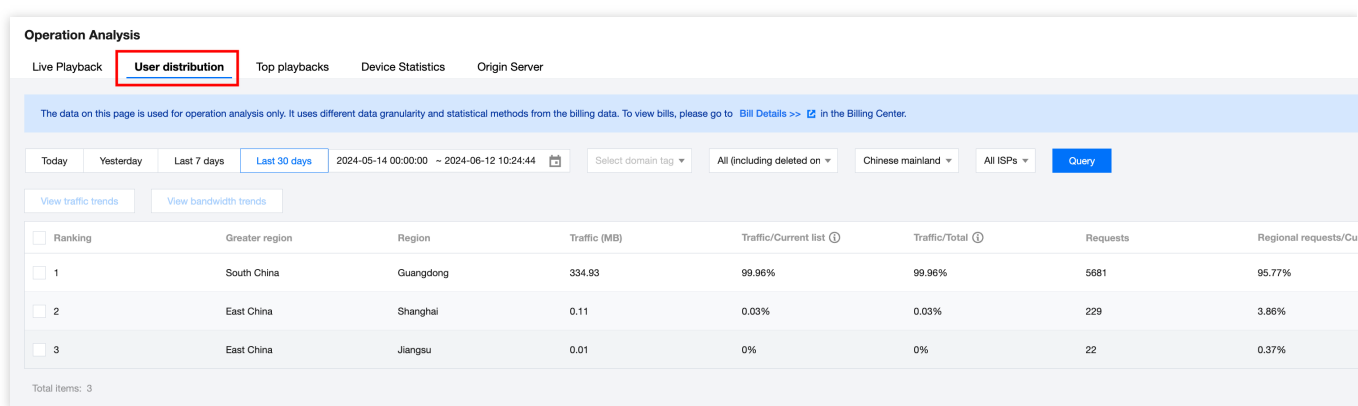
* The statistics are accumulated for the selected regions.

Confirm **Cancel**

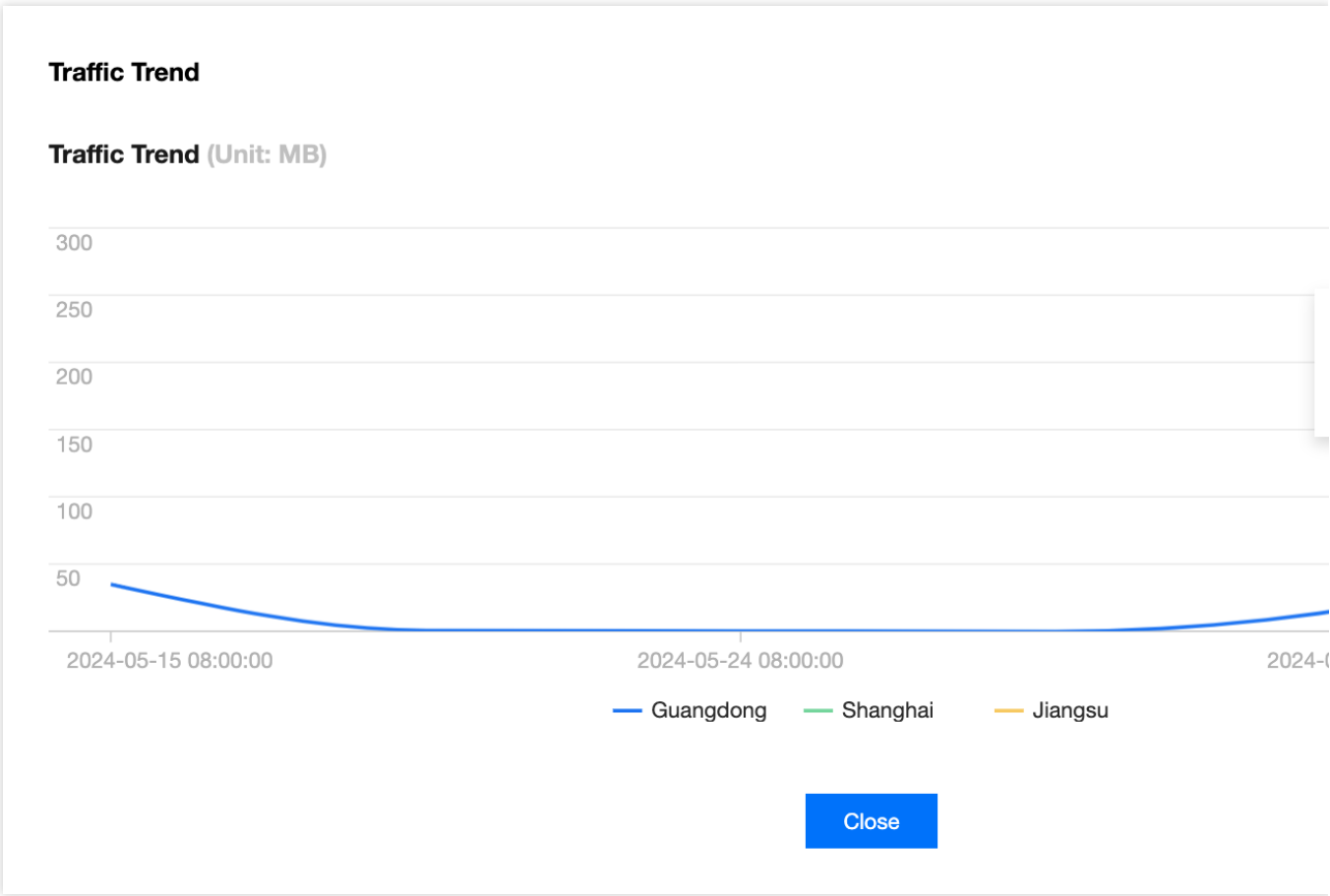
Statistical Item	Description
Traffic (MB)	Total traffic of each region.
Traffic/Current list	Ratio of traffic in this region to the total traffic of all regions in the list.
Traffic/Total	Ratio of traffic in this region to all other regions within or outside Chinese mainland. For example, when the user query data within Chinese mainland, this statistical item indicates the ratio of traffic in this region to the total traffic of the Chinese mainland.
Requests	Total number of requests for each region.
Regional requests/Current list	Ratio of requests in this region to the total requests of all regions in the list.
Regional requests/Total	Ratio of requests in this region to all other regions within or outside the Chinese mainland. For example, when the user query data within Chinese mainland, this

statistical item indicates the ratio of requests in this region to the total requests of the Chinese mainland.

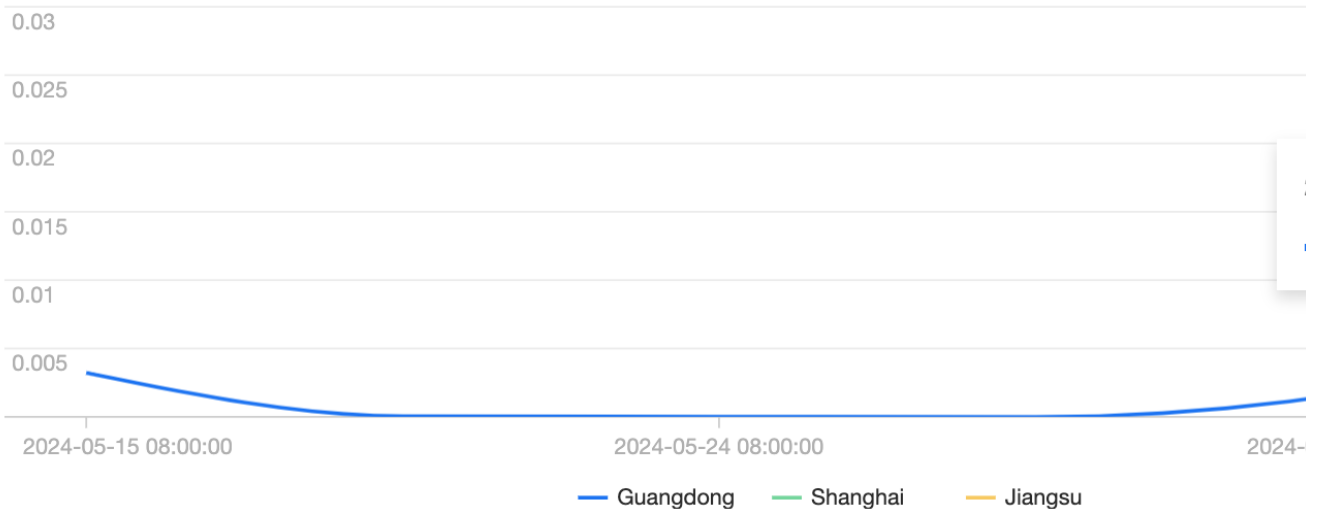
To view the traffic and bandwidth trends for one or more regions, you can select the desired regions and click on **Traffic Trend** and **Bandwidth Trend**.



Taking the example of selecting multiple regions simultaneously, the displayed traffic trend chart is as follows:



Taking the example of selecting multiple regions simultaneously, the displayed bandwidth trend chart is as follows:

Bandwidth Trend**Bandwidth Trend (Unit: Mbps)**

Close

Top Playbacks

The Playback Ranking feature offers display and query capabilities for **TOP 100 streams**, **TOP 100 client IPs**, **TOP 100 URL**, and **TOP 100 Referer**, assisting you in understanding the popularity of live streams and the distribution of viewers. Additionally, this feature supports the query of various data indicators such as ranking, traffic, traffic ratio, frequency, and frequency ratio. It also supports data queries at the domain level (playback) and allows for the selection of regions and the query of data from the most recent three months.

Key Features

Top 100 streams: This feature allows you to query and view the top 100 live streams with the highest viewership, including the ranking, traffic, and traffic proportion.

Top 100 client IPs: This feature allows you to query and view the top 100 client IP addresses that watch the most live broadcasts, helping you understand the audience distribution.

TOP 100 URL: You can inquire and display the top 100 URLs (request paths) ranked by frequency, including information such as ranking, domain, URL, frequency, and frequency ratio. This facilitates your understanding of the audience's access to different URLs.

TOP 100 Referer: You can inquire and display the top 100 Referers (request sources) ranked by frequency, including information such as ranking, domain, Referer, and frequency ratio. This facilitates your understanding of the

audience's access situation from different Referers.

Note:

The top-ranking data of streams, IP, URL, and Referer on the current page is only used for operation analysis, and the specific result of the data analysis is subject to the actual log data.

Operation Analysis

Live Playback User distribution **Top playbacks** Device Statistics Origin Server

The statistics on this page are for operational analysis. For accurate data, please check the logs.
There may be a delay of about 30 minutes in the data shown on this page. You can refresh to view the latest data.

Today **Yesterday** 2024-06-11 ~ 2024-06-11 All (including deleted or Global **Query**

Top 100 streams

Ranking	Domain Name	StreamName	Traffic (MB)
1			245.63
2			32.49
Total items: 2			

Top 100 client IPs

Ranking	Domain Name	IP	Traffic (MB)
1			245.63
2			32.49
Total items: 2			

Top 100 URL

Ranking	Domain Name	URL	Number of Stream Pulling Times ⓘ	Number of Stream Pulling Times %
1			4	36.36%
2			2	18.18%
3			1	9.09%
4			1	9.09%
5			1	9.09%
6			1	9.09%
7			1	9.09%
Total items: 7				

Top 100 Referer

Ranking	Domain Name	Referer	Number of Stream Pulling Times ⓘ
1		-	11
Total items: 1			

Statistical Item	Description
------------------	-------------

Top 100 streams: Traffic/Current list TOP 100 Streams - Proportional Traffic Distribution	Ratio of the traffic of this stream to the total traffic of all streams in the list.
Top 100 client IPs: Traffic/Current list	Ratio of the traffic of this IP address to the total traffic of all IP addresses in the list.
Top 100 URL - Frequency Ratio	Ratio of the traffic of this stream to the total traffic of all streams in the list.
Top 100 Referer - Frequency Ratio	Ratio of the traffic of this stream to the total traffic of all streams in the list.

Device Statistics

The Device Statistics feature provides queries and displays for device type, browser type, and operating system type. It supports data queries (playback) at the domain name granularity level and allows the selection of regions. It supports queries for data from the past 3 months.

Operation Analysis

Live Playback User distribution Top playbacks **Device Statistics** Origin Server

Today

Yesterday

2024-06-11 00:00:00 ~ 2024-06-11 23:59:59

All (including deleted or

Chinese mainland

Query

Device type

Ranking	Device type	Number of Stream Pulling Times	Nun
1	Other	56	85%
2	Desktop	10	15%

Browser Type

Ranking	Browser Type	Number of Stream Pulling Times	Nun
1	Other	56	85%
2	Chrome	10	15%

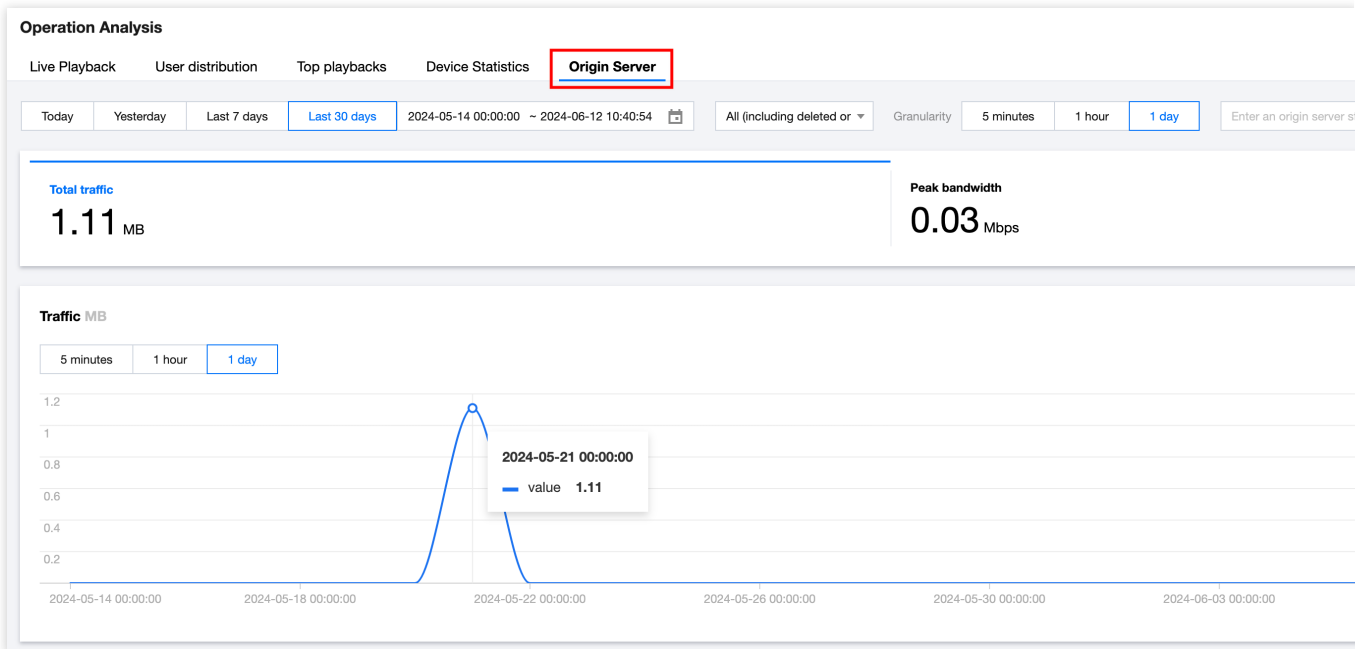
Operating System Type

Ranking	Operating System Type	Number of Stream Pulling Times	Nun
1	Other	56	85%
2	Mac OS	10	15%

Statistics Item	Description
Device Type	Device types include: Tablet, Mobile, Desktop, TV, and Other.
Browser Type	Browser types include: Empty, Chrome, Safari, Opera, QQBrowser, LBBrowser, MaxthonBrowser, SouGouBrowser, BIDUBrowser, TaoBrowser, UBrowser, IE, Microsoft Edge, Bot, and Other.
Operating System Type	Operating system types include: Empty, Android, IOS, Mac OS, Windows, Linux, Chromium OS, NetBSD, Bot, and Other.

Origin Server

The **Origin Server** tab provides the traffic and peak bandwidth from origin server. It supports querying data at the domain name granularity and allows you to select regions and ISPs. You can query data for the last three months, and the maximum time span for each query is one month.



Statistical Item	Description
Total traffic	Traffic data from the origin server.
Peak bandwidth	Peak bandwidth data from the origin server.

Stream Data Query

Last updated : 2022-05-20 10:42:04

Log in to the CSS console, select [Stream Data Query](#) on the left sidebar, and enter a stream name to view its [playback data](#), [push data](#), [live streaming records](#), and [callback events](#).

Stream Data Query

Playback Data

Push Data

Live Streaming Records

Callback Event

UTC+8 ▾

Today

Yesterday

2 days ago

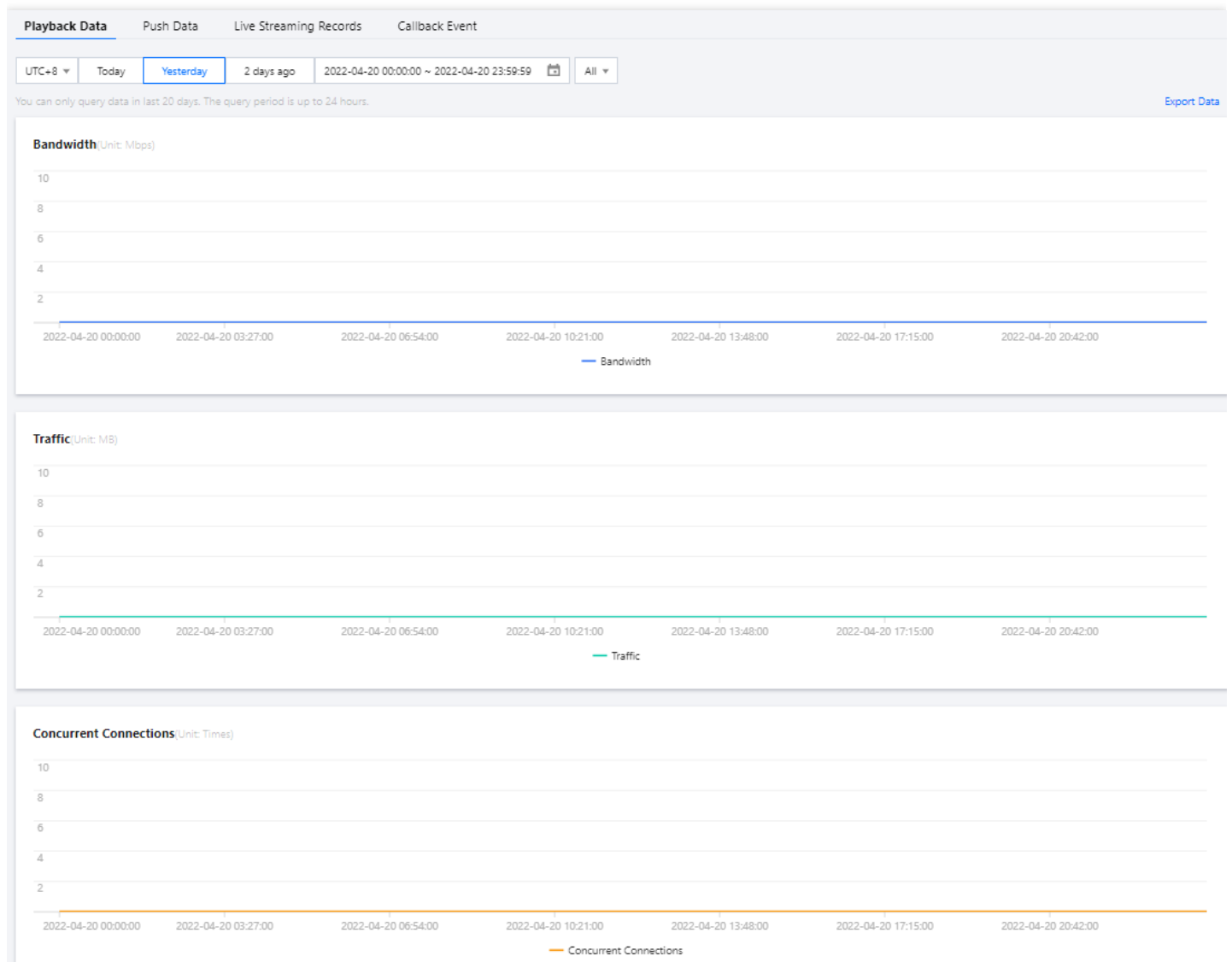
2022-04-18 00:00:00 ~ 2022-04-18 16:32:44

All ▾

You can only query data in last 20 days. The query period is up to 24 hours.

Playback data

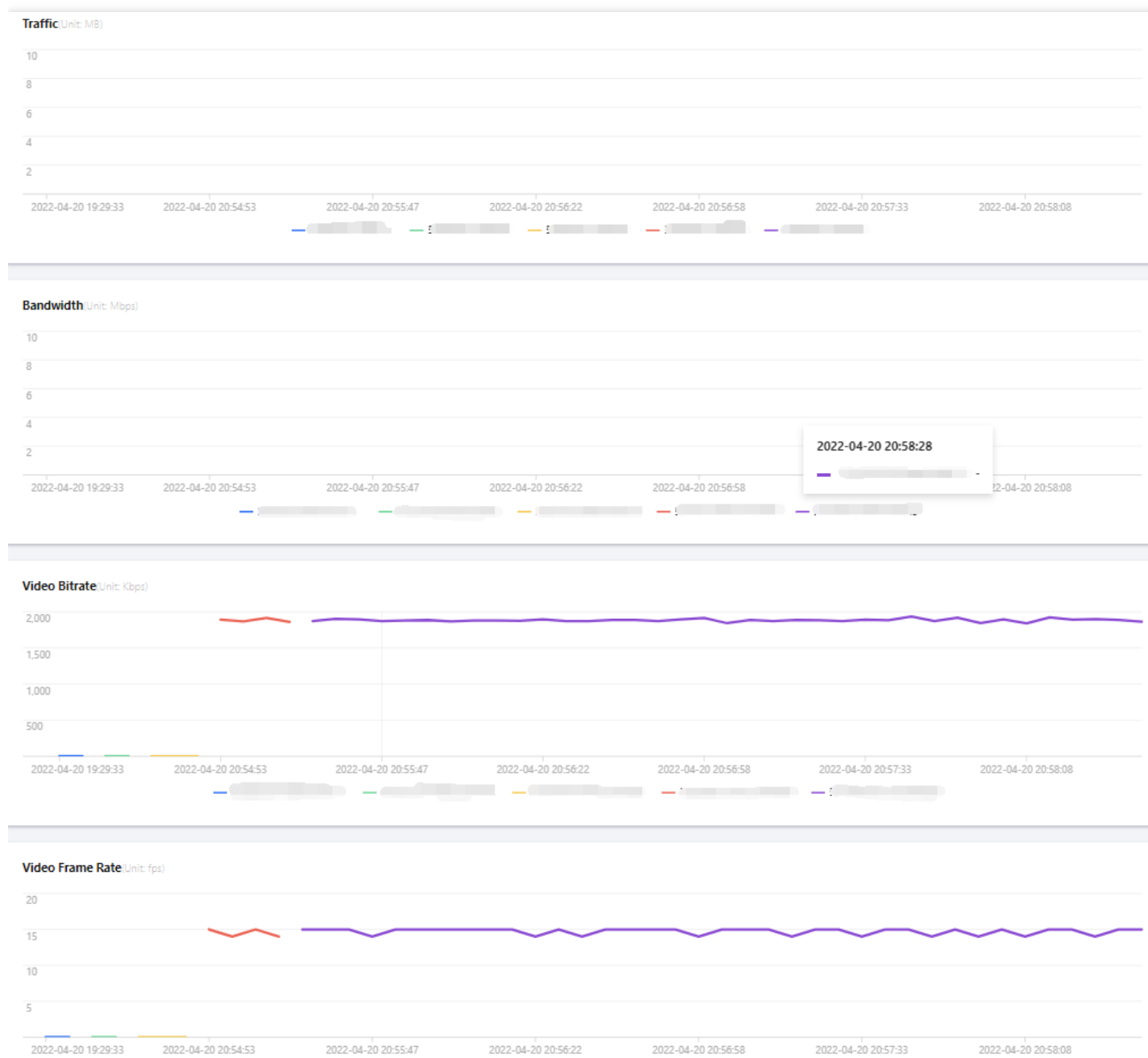
Under the **Playback Data** tab, you can view data on bandwidth, traffic, and concurrent connections from the last 20 days. The maximum query period is 24 hours.



Push Data

Under the **Push Data** tab, you can view the upstream frame rate and bitrate data of a stream from the last three days. The maximum query period is three hours.

After entering a stream name, select **Push Data** to view the push data.



Live streaming records

Under the **Live Streaming Records** tab, you can view live streaming information including the name of a stream, its push domain name, live streaming application name, start time, end time, push duration, and push client ID from the

last 60 days. You can also click **Details** to view push data. The maximum query period is 30 days.

Query

Playback DataPush DataLive Streaming RecordsCallback Event

UTC+8TodayYesterday2 days ago2022-04-20 00:00:00 ~ 2022-04-20 23:59:13

You can only query data in last 60 days. The query period is up to 30 days.

StreamName	Domain Name	AppName	Start Time	End Time	Push Duration	Push Client IP	Cause of Interruption	Operation
		live	2022-04-20 20:55:22	2022-04-20 20:59:12	3min50sec		Push client interrupte...	Details
		live	2022-04-20 20:54:43	2022-04-20 20:55:13	30sec		Push client interrupte...	Details

Callback event

Under the **Callback Event** tab, you can view the stream name, push domain, callback trigger time, response time, and the result of a push, interruption, or recording callback in the last five days. You can also click **View** to view the content of a callback. The maximum query period is 24 hours.

Query

Playback DataPush DataLive Streaming RecordsCallback Event

TodayYesterday2 days ago2022-04-20 00:00:00 ~ 2022-04-20 23:59:59

You can only query data in last 5 days. The query period is up to 24 hours.

Push CallbackPush CallbackInterruption CallbackRecording Callback

StreamName	Push Domain	Callback Trigger Time		Result	Response Time	Operation
		2022-04-20 20:55:22	Push Callback	Failed	2022-04-20 20:55:23	View

Total items: 110 / page1 / 1 page

Errors

Last updated : 2024-05-17 14:47:15

Tencent Cloud Streaming Services (CSS) supports the errors feature, allowing you to quickly check errors that occur during the live streaming process. Moreover, you can understand the status of these streams by viewing the primary and backup stream events.

Prerequisites

You have logged in to the [CSS Console](#).

Note

You can configure the push errors event callback in the [Live Callback](#) settings. When an event occurs within the live streaming service, the message will be notified through a unified callback of the event message.

Push Errors Query

1. Select **Monitoring** > [Errors](#) on the left sidebar.
2. On the errors page, querying by stream ID is supported. You can query the push errors in the last 7 days, and the data within the query period is less than 3 hours.

Errors

Push errors Primary/Backup streams

You can configure push error callbacks in "Live Stream Callback" to receive a callback notification from our event notification service when an error occurs.

Today Yesterday 2 days ago

2024-04-19 16:05:11 ~ 2024-04-26 16:00:11

StreamName (stream ID)

Query

Query push errors for a time period of up to three hours in the last seven days

StreamName	Domain Name	AppName	Occurrence time	Event Type	Details
	.com		2024-04-26 15:15:00	The video timestamp increased notably	video timestamp(DTS)
	.com		2024-04-26 15:04:54	Two consecutive video frames arrived late	video frame arrive inte
	.com		2024-04-26 15:01:54	The video timestamp increased notably	video timestamp(DTS)
	.com		2024-04-26 14:55:34	The video timestamp increased notably	video timestamp(DTS)

Total items: 4

Primary/Backup Streams Query

1. Select **Monitoring** > **Errors** from the left sidebar to enter the Primary/Backup Streams page.
2. On the Primary/Backup Streams page, querying by stream ID is supported. You can query the primary/backup streams in the past 7 days, and the data within the query period is less than 3 hours.

Errors

Push errors **Primary/Backup streams**

TodayYesterdayLast 7 days

2024-04-19 16:04:20 ~ 2024-04-26 15:59:18

Query

StreamName	Domain Name	AppName	Occurrence time	Event Type
No data yet				

Total items: 0

Error Types

Below is a list of errors that may occur during live streaming.

Number	Error Type
1	The video timestamp moved backwards
2	The audio timestamp moved backwards
3	The video timestamp increased notably
4	The audio timestamp increased notably
5	Chunk size too big
6	Two consecutive video frames arrived late
7	Two consecutive audio frames arrived late
8	The video codec changed
9	The audio codec changed

10	No codec header before a video frame arrived
11	No codec header before an audio frame arrived

Stream Interruption Records

Last updated : 2024-06-19 17:01:34

You can view records of live push interruptions and their causes in the CSS console.

Prerequisites

You have logged in to the [CSS console](#).

There is a live stream whose push was interrupted under your account.

Directions

1. In the console, select **Monitoring** > [Stream Interruption Records](#) on the left sidebar.
2. Our platform supports querying stream interruption records for the past 30 days through the use of stream names, offering both exact and fuzzy search capabilities. Users can access detailed information including the stream name, path, domain name, start time, end time, push duration, push client IP, and cause of interruption.

Stream Interruption Records							
Today	Yesterday	Last 7 days	Last 30 days	2024-03-31 00:00:00 ~ 2024-04-29 15:44:58	Enter the name of push stream	<input checked="" type="radio"/> Exact <input type="radio"/> Fuzzy	Query
Stream Name	Path	Domain Name	Start Time	End Time	Push Duration	Push Client IP	
		.com	2024-04-23 10:43:22	2024-04-23 10:44:40	1min18sec	59. .66	
		.com	2024-04-16 16:55:56	2024-04-16 20:34:30	3hour38min34sec	59. .123	
	elvb	.com	2024-04-16 16:54:10	2024-04-16 16:54:29	19sec	59. .123	
	elvb	.com	2024-04-16 15:57:14	2024-04-16 16:02:56	5min42sec	59. .123	
	live	.com	2024-04-09 14:37:50	2024-04-09 14:41:31	3min41sec	59. .123	
	live	.com	2024-04-09 14:37:31	2024-04-09 14:37:36	5sec	59. .123	
	live	.com	2024-04-09 14:31:15	2024-04-09 14:37:04	5min49sec	59. .123	
	live	.com	2024-04-09 14:29:25	2024-04-09 14:31:12	1min47sec	59. .123	
	live	.com	2024-04-09 14:20:26	2024-04-09 14:22:33	2min7sec	59. .123	
	live	.com	2024-04-09 14:17:36	2024-04-09 14:19:24	1min48sec	59. .123	
Total items: 20							10 ▾

On the **Stream Interruption Records** page:

Path is the value of `AppName` in the push URL.

Stream Name is the value of `StreamName` in the push URL.

Causes of Stream Interruption

The table below lists the possible causes of stream interruption and their error codes:

errcode	sub_errcode	errmsg
0	0	Unknown reason.
1	0	The push client stopped the stream.
2	0	The push client stopped the stream.
3	0	The push client stopped the stream.
4	0	The push client stopped the stream.
5	0	CSS system internal error.
6	0	RTMP content error.
7	0	Exceeded the maximum size allowed for a single RTMP frame.
8	0	The system stopped the stream because no data was generated for a long time.
9	0	CSS system internal error.
10	0	The proxy layer received an interruption command.
11	0	CSS system internal error.
12	0	Network error for the push client.
13	0	Network error for the push client.
14	0	Network error for the push client.
15	0	Network error for the push client.
16	0	Network error for the push client.
17	0	Network error for the push client.
18	100	CSS system internal error.
18	101	CSS system internal error.
18	102	CSS system internal error.
18	103	CSS system internal error.

18	104	CSS system internal error.
18	200	Failed to get the user information for the push URL.
18	201	Your CSS services have been suspended.
18	202	Your CSS services have been suspended due to overdue payments. Please top up your account balance.
18	203	Your CSS services have been suspended.
18	300	Push using an IP address is not allowed.
18	301	Unable to identify the push domain name.
18	302	Invalid push domain name.
18	303	The push domain name is disabled.
18	304	The push application is disabled.
18	305	The stream is disabled.
18	306	Channel mode is used, but there isn't a push channel.
18	307	Channel mode is used, but the current push channel is disabled.
18	308	The push name contains unallowed characters.
18	309	The push application name contains unallowed characters.
18	400	The push client's IP address is on the blocklist.
18	401	The push client's IP address is not on the allowlist.
18	500	The expiration time parameter is missing from the push URL.
18	501	The push URL has expired.
18	502	The authentication parameter is missing from the push URL.
18	503	Authentication failed.
18	600	Reached the maximum number of streams that can be pushed.
18	601	Reached the maximum number of streams that can be pushed using this stream name.
18	602	The priority of this stream is lower than another stream.

19	0	Third-party authentication failed.
20	0	The system stopped the stream because no data was generated for a long time.
21	100	The stream was stopped at your request.
21	101	The stream was disabled at your request.
21	102	A new push URL replaced the current one.
21	103	A new push URL replaced the current one that has no data.
22	0	Unknown reason.
23	0	RTMP content error.
24	0	CSS system internal error.
25	0	Unknown reason.
26	0	Unknown reason.
27	0	Unknown reason.
28	0	Unknown reason.
29	0	Unknown reason.
30	0	Unknown reason.
31	0	Unknown reason.
32	0	Unknown reason.
33	0	RTMP AMF error.
34	0	Unknown reason.
35	0	The push client stopped the stream.
36	0	Unknown reason.
37	0	SRS stopped the stream because it was not played.
38	0	CSS system internal error.
39	0	Exceeded the maximum frame size allowed for push.

Log Service

Real-Time Log Analysis

Last updated : 2024-07-22 16:36:54

Real-time log analysis enables quick retrieval, analysis, and storage of log data through the real-time collection and delivery of CSS access logs to Tencent Cloud Log Service (CLS). This enables you to mine log data for data-driven operations and management, allowing for the rapid and accurate development of operational strategies.

Note:

Real-time log analysis now fully supports shipping logs to [Cloud Log Service](#). This document will guide you on how to use the real-time log feature.

Notes

Log data is collected in real-time, with log search and reporting data stabilizing after three minutes.

Currently, reporting analysis is only available for playback logs. If you have other log management needs, visit [Cloud Log Service](#).

After enabling the log delivery feature, ensure that your CLS service is in normal operation, as the suspension of CLS will prevent the delivery of logs.

The bandwidth or traffic data recorded in logs is the application layer (HTTP protocol) return data. Due to mechanisms like TCP header consumption and failed retransmissions, it is smaller than the bandwidth or traffic consumption calculated at the TCP layer.

Operation Instructions

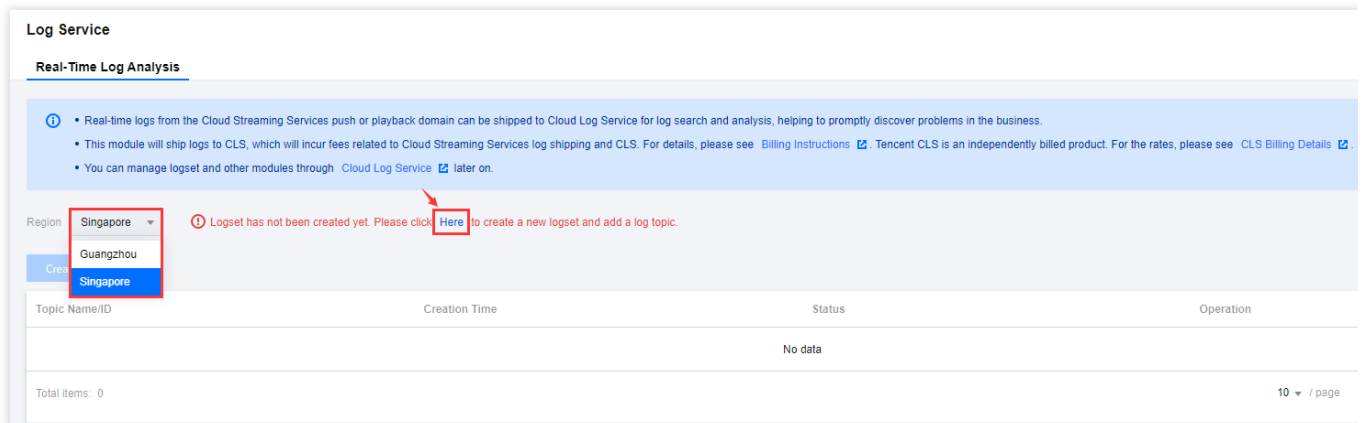
Creating a log topic

1. Go to the CSS console and select **Monitoring > Cloud Log Service > [Real-time log analysis](#)** to enter the real-time log analysis page.
2. If this is your first time using this feature, you need to use your CSS service role to grant authorization. After authorization, you need to agree to the service agreement and click **Start**. The system will automatically activate the CLS product and open the real-time log analysis management page.
3. Choose a region and click the link on the page to create a new logset.

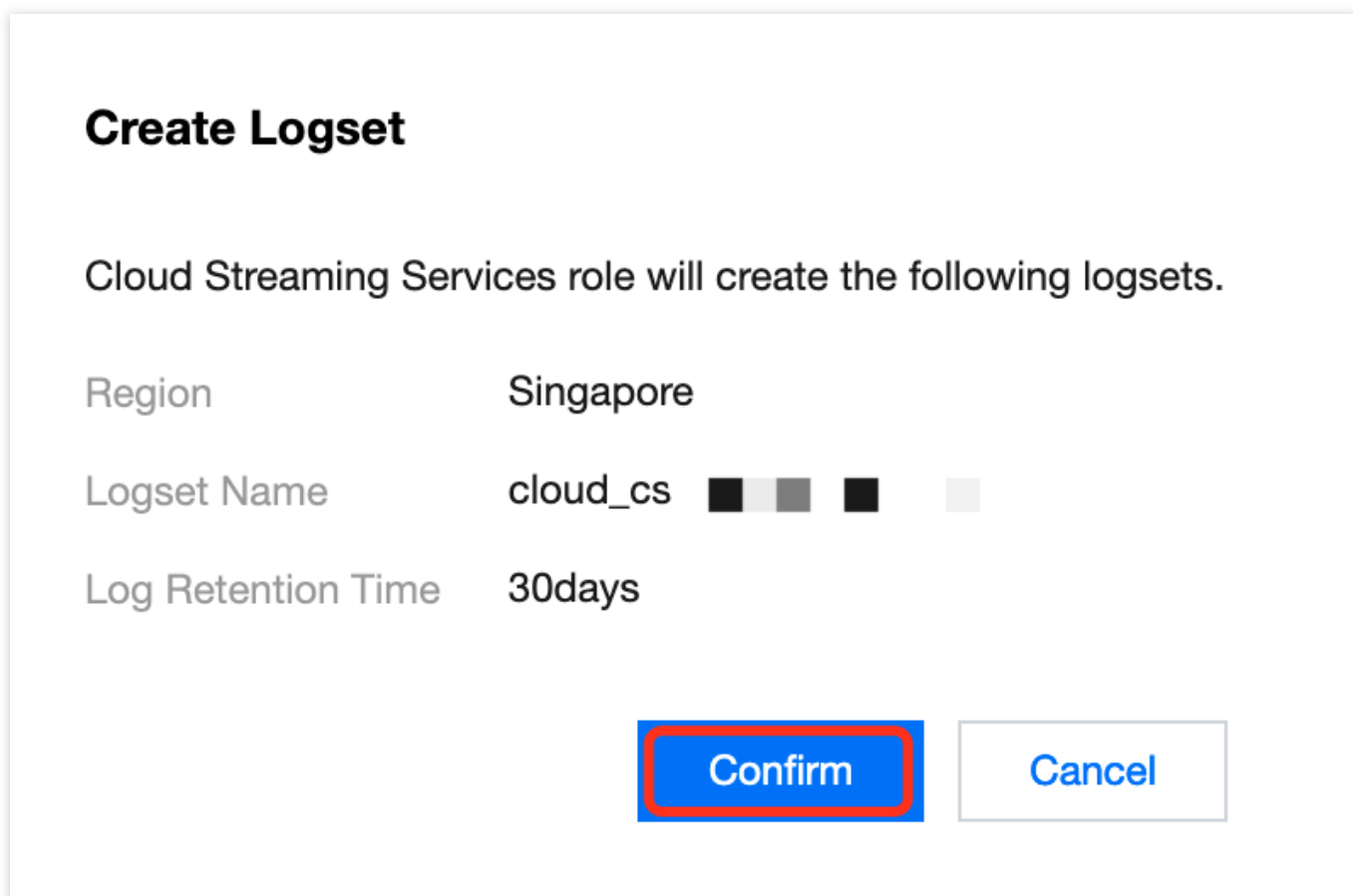
Note:

The region includes Guangzhou and Singapore. Log topics created under the logset in the Guangzhou region can only deliver logs within the Chinese mainland. In contrast, log topics created under the logset in the Singapore region can

only deliver logs globally, including to Hong Kong (China), Macao (China), and Taiwan (China).



4. Click **Confirm** to create a new logset.



5. After successfully creating a logset, click **Create Log Topic** to enter the log topic creation page. The newly created log topic will by default be in the process of delivering logs to CLS.

Log Service

Real-Time Log Analysis

- Real-time logs from the Cloud Streaming Services push or playback domain can be shipped to Cloud Log Service for log search and analysis, helping to promptly discover problems in the business.
- This module will ship logs to CLS, which will incur fees related to Cloud Streaming Services log shipping and CLS. For details, please see [Billing Instructions](#), Tencent CLS is an independently billed product. For the rates, please see [CLS Billing Details](#).
- You can manage logset and other modules through [Cloud Log Service](#) later on.

Region Singapore Logset Name cloud_css_ Log Retention Time: 30days Creation Time 2024-03-14 11:00:32

Create Log Topic

Topic Name/ID	Creation Time	Status
test	2024-07-10 15:38:24	Shipping

Total items: 1

Create Log Topic

Log Topic

Only supports Chinese, English, numbers, _ and -, not exceeding 255 characters.

Log Type Playback Log Push Log

Domain List

<input type="checkbox"/>	Domain Name	Acceleration regi...
<input type="checkbox"/>	.top	<input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Overseas

Selected (0)

Domain Name	Acceleration
No data yet	

↔

No domain found? Domains can be added in [Domain Management](#).

Confirm Cancel

Modifying a log topic

1. Enter the log topic list in real-time log analysis and click **Manage** in the operation column of the log topic you need to modify.

Log Service

Real-Time Log Analysis

①

- Real-time logs from the Cloud Streaming Services push or playback domain can be shipped to Cloud Log Service for log search and analysis, helping to promptly discover problems in the business.
- This module will ship logs to CLS, which will incur fees related to Cloud Streaming Services log shipping and CLS. For details, please see [Billing Instructions](#). Tencent CLS is an independently billed product. For the rates, please see [CLS Billing Details](#).
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Region Singapore Logset Name cloud_css_ Log Retention Time: 30days Creation Time 2024-03-14 11:00:32

Create Log Topic

Topic Name/ID	Creation Time	Status
test	2024-07-10 15:38:24	Shipping

Total items: 1

2. Enter the log topic editing page to modify the log topic information.

Analyzing a log report

Only log topics of the log type provide report analysis. There are four types of data on the page: **Basic Data Analysis**, **Resource Distribution Analysis**, **Exception Diagnosis Analysis**, and **User Analysis**.

1. Enter the log topic list in **Real-time Log Analysis** and click **Report** on the right side of the log topic you want to view.

Log Service

Real-Time Log Analysis

①

- Real-time logs from the Cloud Streaming Services push or playback domain can be shipped to Cloud Log Service for log search and analysis, helping to promptly discover problems in the business.
- This module will ship logs to CLS, which will incur fees related to Cloud Streaming Services log shipping and CLS. For details, please see [Billing Instructions](#). Tencent CLS is an independently billed product. For the rates, please see [CLS Billing Details](#).
- You can manage logset and other modules through [Cloud Log Service](#) later on.

Region Singapore Logset Name cloud_css_ Log Retention Time: 30days Creation Time 2024-03-14 11:00:32

Create Log Topic

Topic Name/ID	Creation Time	Status
test	2024-07-10 15:38:24	Shipping

Total items: 1

2. Enter the log report page to view report data; you can separately view **Basic Data**, **Resource Distribution**, **Exception Diagnosis**, and **User Analysis**.

Basic Data

Resource Distribution

Exception Diagnosis

User Analysis

Report

Basic Data

Resource Distribution

Exception Diagnosis

User Analysis

Time Period

Last 1 Minute

Health

100.00%

Time Period

Last 1 Minute

Download Speed

0 MB/s

Time Period

Last 15 Minutes

Bandwidth(Unit: Mbps)

1

0.8

0.6

0.4

0.2

0

2024-07-17 14:48:00

2024-07-17 14:54:00

2024-07-17 15:00:00

Bandwidth

Time Period

Last 15 Minutes

Traffic(Unit: MB)

1

0.8

0.6

0.4

0.2

0

2024-07-17 14:48:00

Time Period

Last 15 Minutes

Status Code Occurrences

No data yet

Time Period

Last 15 Minutes

Province Statistics

Region	Number
--------	--------

Total items: 01

Time Period

Last 15 Minutes

Number of Accesses

ISP Statistics

ISP	Number of Acce...	Download Traffi...	Download Spee...
No data yet			

Total items: 010 / page1 / 1 page

Time PeriodLast 15 Minutes

Download Traffic

Report

Basic DataResource DistributionException DiagnosisUser Analysis

Time PeriodLast 15 Minutes

Top 10 Accessed Domains

Domain Name	Number of Accesses...	Download Traffic (...)	Download Speed (M...
No data yet			

Total items: 010 / page1 / 1 page

Time PeriodLast 15 Minutes

Top 10 Accessed URIs

URI	Number o
No data yet	

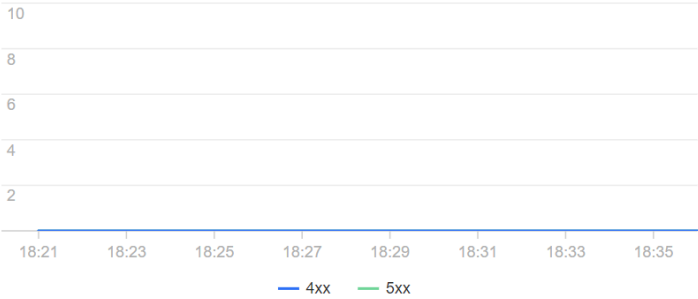
Total items: 0

Report

Basic Data Resource Distribution **Exception Diagnosis** User Analysis

Time Period Last 15 Minutes Region China

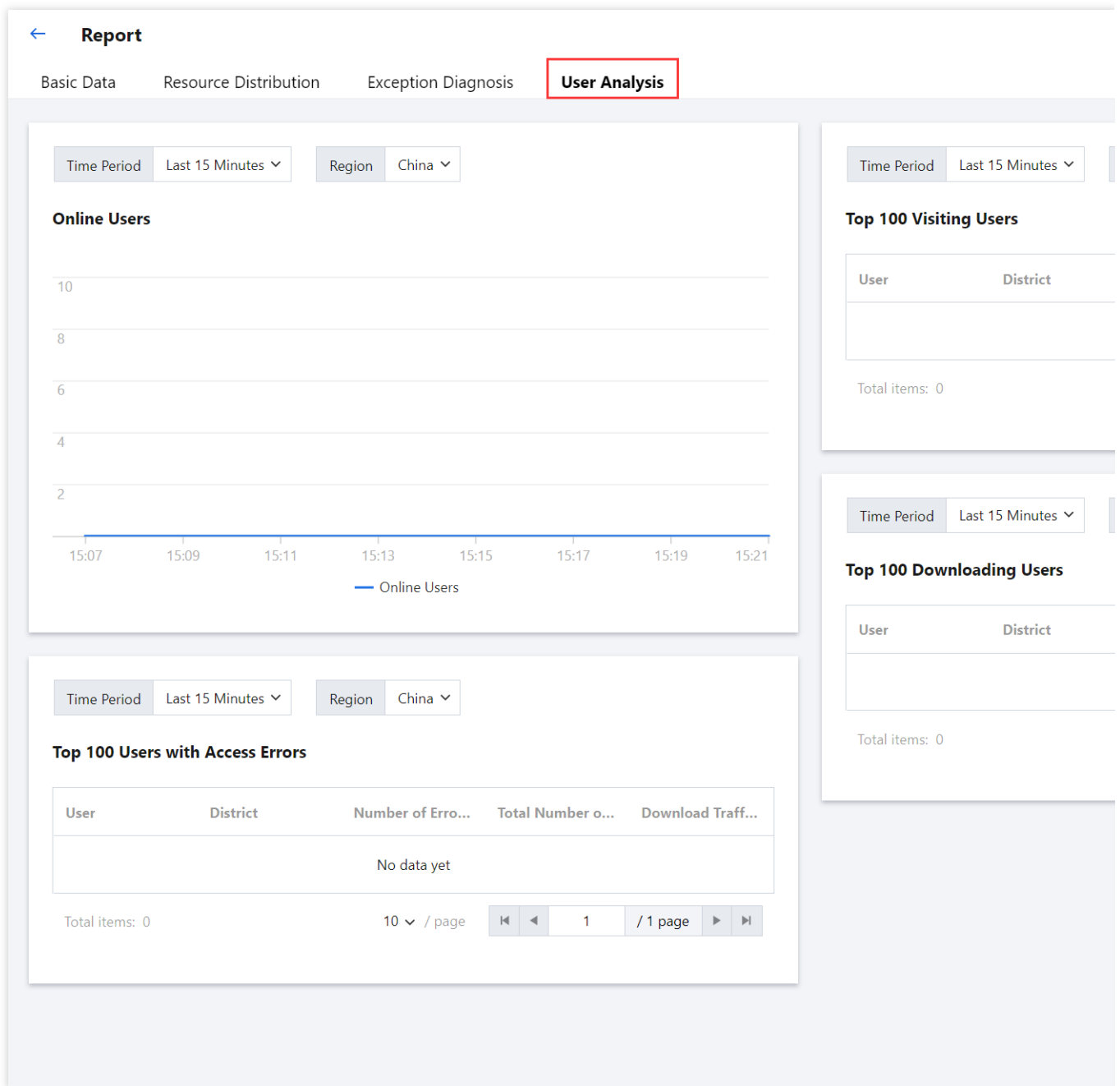
Error Code Proportion Trend



Time Period Last 15 Minutes Region China

Error Details

District	ISP	Error Code
No data yet		
Total Items: 0 10 / page 1		



Log Search

Log search supports multiple types of retrieval and analysis methods, as well as various forms of chart analysis. For detailed information, see [Log Search and Analysis](#).

Log search is performed based on log topics. Select the log topic you need to search for and click Search to enter the log search page.

Log Service

Real-Time Log Analysis

①

- Real-time logs from the Cloud Streaming Services push or playback domain can be shipped to Cloud Log Service for log search and analysis, helping to promptly discover problems in the business.
- This module will ship logs to CLS, which will incur fees related to Cloud Streaming Services log shipping and CLS. For details, please see [Billing Instructions](#). Tencent CLS is an independently billed product. For the rates, please see [CLS Billing Details](#).
- You can manage logset and other modules through [Cloud Log Service](#) later on.

Region: Singapore Logset Name: cloud_css_ Log Retention Time: 30days Creation Time: 2024-03-14 11:00:32

Create Log Topic

Topic Name/ID	Creation Time	Status
test	2024-07-10 15:38:24	Shipping

Total items: 1

Stop shipping a log topic to CLS

1. Enter the log topic list in Real-time Log Analysis and click **Stop** on the right of the log topic you wish to stop shipping.

Log Service

Real-Time Log Analysis

①

- Real-time logs from the Cloud Streaming Services push or playback domain can be shipped to Cloud Log Service for log search and analysis, helping to promptly discover problems in the business.
- This module will ship logs to CLS, which will incur fees related to Cloud Streaming Services log shipping and CLS. For details, please see [Billing Instructions](#). Tencent CLS is an independently billed product. For the rates, please see [CLS Billing Details](#).
- You can manage logset and other modules through [Cloud Log Service](#) later on.

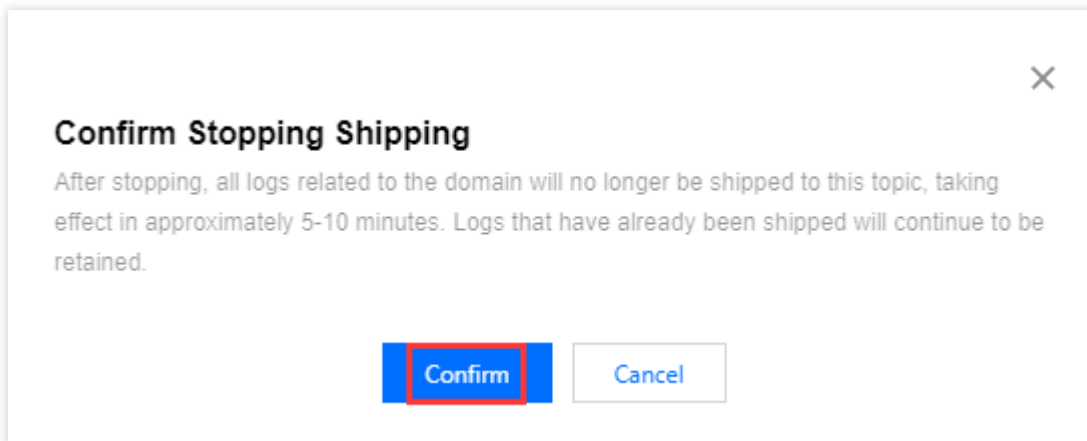
Region: Singapore Logset Name: cloud_ Log Retention Time: 30days Creation Time: 2024-03-14 11:00:32

Create Log Topic

Topic Name/ID	Creation Time	Status
test	2024-07-10 15:38:24	Shipping

Total items: 1

2. In the pop-up window, click Confirm to stop shipping. The status of the corresponding log topic will change to "stop shipping", and logs will no longer be shipped to CLS.



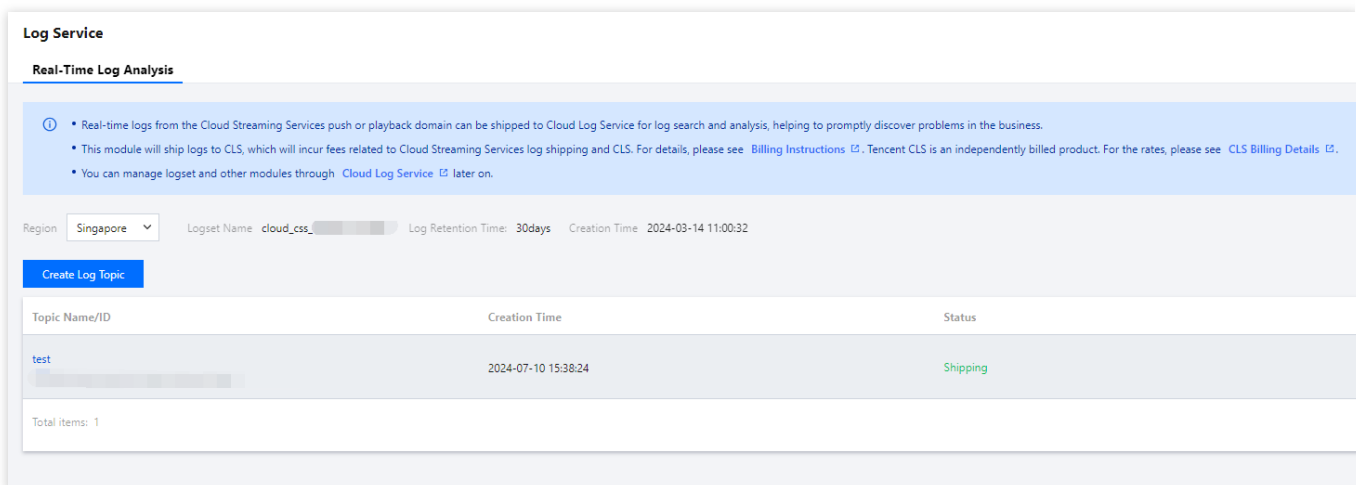
Deleting a log topic

Note :

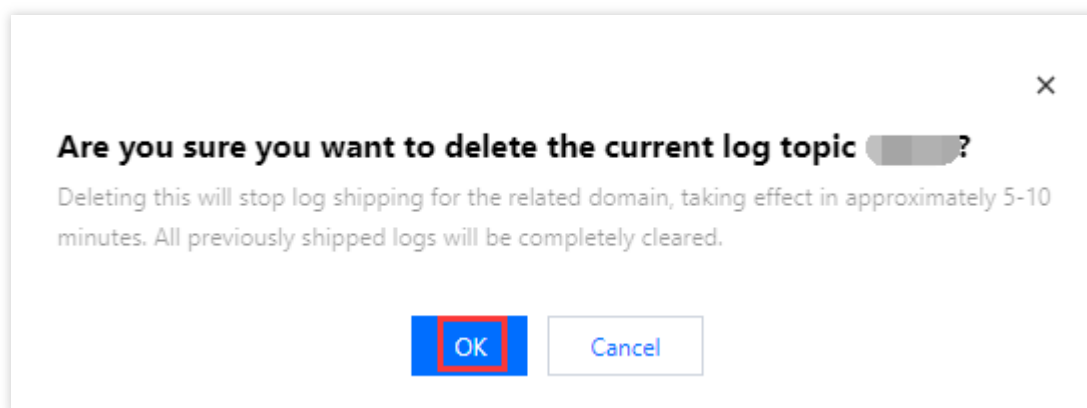
Once a log topic is deleted, it cannot be recovered. Please proceed with caution.

If you delete a log topic, you will stop pushing log data of the related domain, the corresponding log topic in CLS will also be deleted, and all shipped logs will be cleared. Meanwhile, you will no longer be able to use the report associated with that topic.

1. Enter the log topic list in **Real-time Log Analysis** and click **Delete** on the right side of the log topic you wish to remove.



2. In the pop-up window, confirm whether to delete the log topic and click **OK** to proceed.



Log Fields

Push logs

Order	Log Field	Description
1	time	Request time
2	client_ip	Client IP
3	host	Accessed domain name
4	url	URL
5	size	Stream push byte size
6	country_id	Country ID
7	prov	Province
8	isp	ISP
9	streamname	Stream ID
10	node_ip	Node IP
11	server_region	Server region
12	server_country	Server country

Playback logs

Order	Log Field	Description

1	type	Playback type: lvb represents Live Video Broadcasting and leb represents Live Event Broadcasting
2	time	Request time
3	client_ip	Client IP
4	host	Accessed domain name
5	url	URL
6	size	Byte size of this access request
7	country_id	Country ID
8	prov	Province
9	isp	ISP
10	http_code	HTTP status code
11	referer	Referer information
12	process_time	Processing duration (in milliseconds)
13	ua	User-Agent information
14	range	Range parameter
15	method	HTTP Method
16	streamname	Stream ID
17	hit	Cache hit/miss
18	node_ip	Node IP (This field may be empty for the IP addresses of certain CDN cluster nodes cannot be obtained.)
19	server_region	Server region
20	server_country	Server country
21	connect_fd	Connection port number
22	lost_rate	The packet loss rate, only valid for type=leb
23	rtt	Round-trip time, only valid for type=leb

Note:

The special status codes in the log are as follows:

- 0: Connection established.
- 4: Request timed out, authentication timed out, or response timed out.
- 5: Origin server disconnected or stream terminated.
- 6: Client disconnected.

Definitions

Logset

A logset classifies log topics and metric topics and can contain multiple log topics and metric topics. A logset itself does not store any log data, it only facilitates user management of topics. CSS logsets have the following basic attribute information:

Region: The [region](#) to which a logset belongs.

Note :

Guangzhou and Singapore regions are currently supported.

Logset Name: The name of a logset.

Retention period: The default retention period for data in the log set is 30 days.

Creation time: Logset creation time.

Log Topic

A log topic is a basic unit for log data collection, storage, retrieval, and analysis on the CLS platform. The vast amounts of logs collected are managed by log topic, including the configuration of the collection rules and storage time, log search and analysis, and log download, consumption, and delivery.

Log topic features include:

Collect logs to log topics.

Store and manage logs based on log topics.

Search and analyze logs by log topics.

Ship logs to other platforms based on log topics.

Download and consume logs from log topics.

Note :

The information above is excerpted from the CLS product documentation. For more details, see [Log Topic and Logset](#) and refer to the CLS documentation for accurate information.

Toolkit

Web Push

Last updated : 2024-07-22 16:36:54

CSS allows you to push streams over the web. You can generate a push URL quickly and push streams from the camera or screen or push a local file to test CSS features.

Prerequisites

You have logged in to the [CSS console](#).

You have added a [push domain name](#).

Your device has a camera installed and your browser allows Flash to access the camera.

Single stream

1. Log in to the CSS console and select [Web Push](#). Click on **Single stream**.
2. **Select the capturing source**, which can be camera, screen, or local file.

Camera

Screen Sharing

Local File

Capture and publish audio/video from the camera/mic (which can be a peripheral device). Click **Turn On** for **Camera/Mic**. You need to grant your browser access to the camera/mic if it is the first time you perform this action.

Single stream

Multiple streams

Camera

Screen Sharing

Local File

Capture video/audio by camera/mic (external devices allowed)

Devices

Camera

Turn on camera

Mic

Turn on mic

Collection Configuration

Configuration	Recommended - 720P
Video Resolution	1280 x 720
Video Frame Rate	15 fps
Audio Sample Rate	48000 Hz

Capture and publish streams from the screen. Click **Select Screen** to select a screen/window/browser tab to publish.

Single streamMultiple streams

Camera

Screen Sharing

Local File

Capture windows/pages by browsers for sharing

Screen Sharing

Audio source ⓘ☐ System/Browser tab☒ Mic

Image

Select Screen

Audio

Turn on mic

Collection Configuration

Configuration	Recommended - 720P
Video Resolution	1280 x 720
Video Frame Rate	15 fps
Audio Sample Rate	48000 Hz

Publish a local file using the web push tool to CSS. Click **Select** to select a file to publish. Currently, you can publish only files in MP4 format.

Single stream

Multiple streams

Camera

Screen Sharing

Local File

Select a local file, and then use web push to push it to CSS.

Note: you need to keep the page for push active. If the page is minimized or completely covered by other applications, stuck.

Local File

Select

Only MP4 is supported.

Collection Configuration

Configuration	Recommended - 720P
Video Resolution	1280 x 720
Video Frame Rate	15 fps

Note :

You cannot change the capturing source after enabling camera preview or selecting screen content to share. To switch the source, disable camera preview or cancel screen sharing first.

3. **Configure capturing data.** The defaults are recommended settings, which vary with resolution. You can click **Edit** and select **Custom** to customize capturing data. **For camera and screen sharing, the settings include resolution, video frame rate, and audio sample rate, while for local files, only the former two are applicable.**

Single stream Multiple streams

Camera

Screen Sharing

Local File

Capture video/audio by camera/mic (external devices allowed)

Devices

Camera [Turn on camera](#)

Mic [Turn on mic](#)

Collection Configuration [Edit](#)


Configuration	Recommended - 720P
Video Resolution	1280 x 720
Video Frame Rate	15 fps
Audio Sample Rate	48000 Hz

4. **Configure push data.** The defaults are recommended settings (the recommended video bitrate varies with resolution, and the audio bitrate is fixed). You can click **Edit** and select **Custom** to customize video and audio bitrates.

Note :

WebRTC push uses the Opus audio codec, and you are advised to play the streams pushed using LEB WebRTC URLs. If you use a standard live streaming protocol (RTMP, FLV, or HLS), the system will automatically convert the streams to AAC, which will incur transcoding fees. For details, see the [billing document](#).

Push Configuration [Edit](#)

Configuration	Recommended - 720P
Video Encoding	H.264
Video Bitrate	1500 kbps
Audio Codec	Opus 
Audio Bitrate	40 kbps

5. **Preview streams.** After completing the above steps, you can enable preview to preview the stream on the right.

Single stream

Multiple streams

Camera

Screen Sharing

Local File

Select a local file, and then use web push to push it to CSS.

Note: you need to keep the page for push active. If the page is minimized or completely covered by other applications, th

Local File

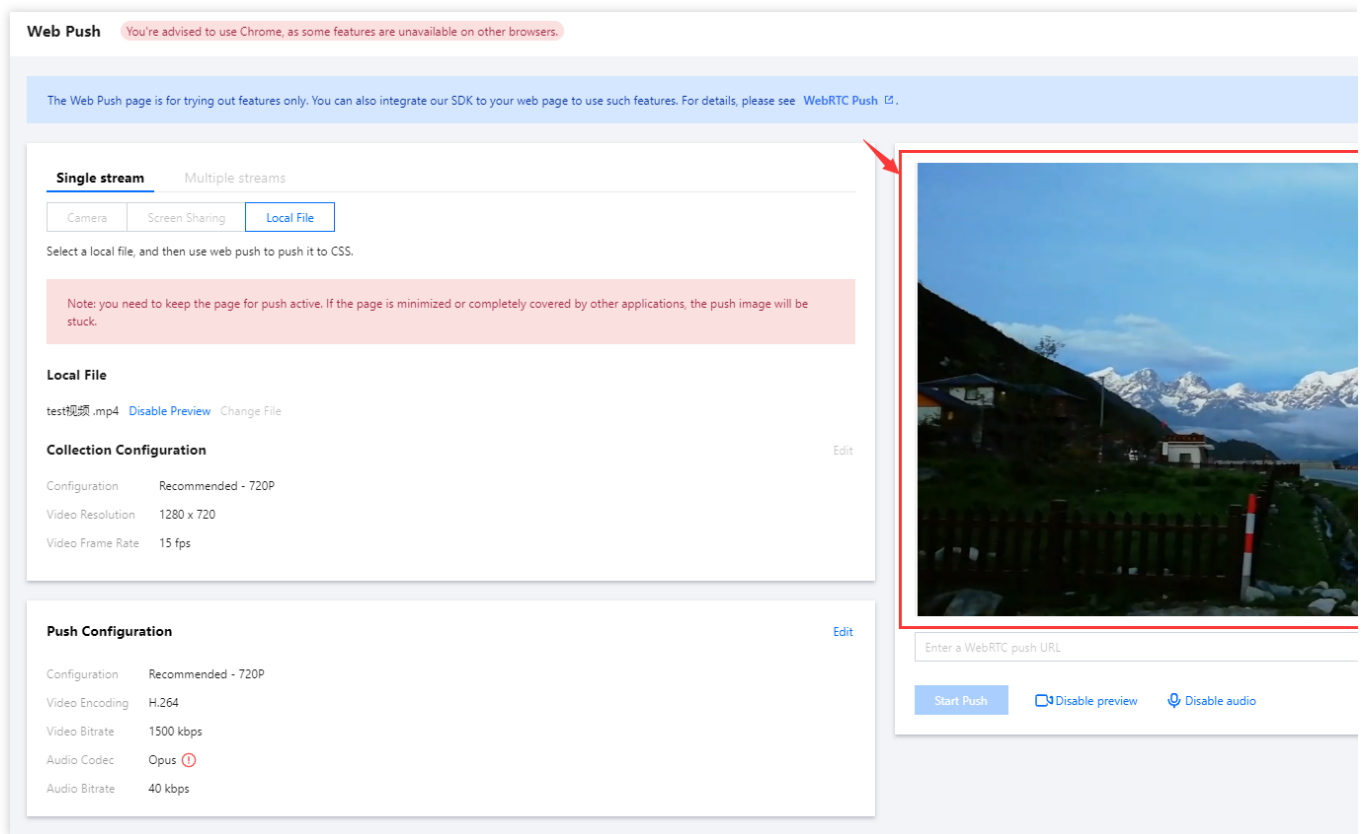
test视频.mp4

[Enable Preview](#)[Change File](#)**Collection Configuration**

Configuration Recommended - 720P

Video Resolution 1280 x 720

Video Frame Rate 15 fps



6. Enter a WebRTC push URL or click **Generate** and complete the following configuration:



Enter a WebRTC push URL

Start Push

 Disable preview

 Disable audio

6.1 Select your push domain.

6.2 Enter a unique `AppName` for an application to distinguish it from other applications under the same domain name. `AppName` is `live` by default.

6.3 Enter a custom `StreamName`, such as `test`.

6.4 Select an expiration time, such as `2024-07-18 11:41:04`.

6.5 Click **Confirm**, and a push URL is auto-generated.

Address Generator ×

Push Domain

150458.livepush.myqcloud.com ▼

AppName

live

StreamName

test

Expiration Time

2024-07-18 11:41:04 📅

Confirm

Cancel

7. Click **Start Push** to start streaming.



webrtc://[redacted].com/live/test?txSecret=0e2d8302c7c9b39e7d55a405bf0d5df9&txTime=66988ED0

 **Start Push**


 Disable preview

 Disable audio

7.1 To enable/disable video or audio, click

 Disable preview

or

 Disable audio

. After you disable video/audio, data capturing will continue and push will still succeed, but the stream cannot be previewed and will have no video or audio.



webrtc://[redacted].com/live/test?txSecret=0e2d8302c7c9b39e7d55a405bf0d5df9&txTime=66988ED0

Start Push

Disable preview

Disable audio

Note :


You cannot enable or disable preview after push succeeds, and you may incur bandwidth/traffic costs or the costs of other value-added services for pushing streams.

8. After push succeeds, click **View** below the preview to view streaming statistics. You cannot obtain statistics or playback URLs for push URLs not under your account. Please use a push domain under your account to generate push URLs or relay streams to your account.



webrtc://...com/live/test?txSecret=0e2d8302c7c9b39e7d55a405bf0d5df9&txTime=66988ED0

Stop

 Disable preview

 Disable audio

Push Data

Get Playback Address

9. If you have added a playback domain in **Domain Management**, you can **select the domain** to generate a playback URL. If you need to generate a playback address with transcoding or adaptive transcoding configuration, you must first bind the playback domain to a transcoding template or adaptive transcoding template to generate a transcoded stream or adaptive transcoded stream.



webrtc://...com/live/test?txSecret=0e2d8302c7c9b39e7d55a405bf0d5df9&txTime=66988ED0

Stop

 Disable preview

 Disable audio

Push Data

Get Playback Address

Address Generator ×

Playback Domain

.top

▼

AppName

live

StreamName

☒ Original stream

☐ Transcoded stream

☐ Adaptive bitrate streams

test

Expiration Time

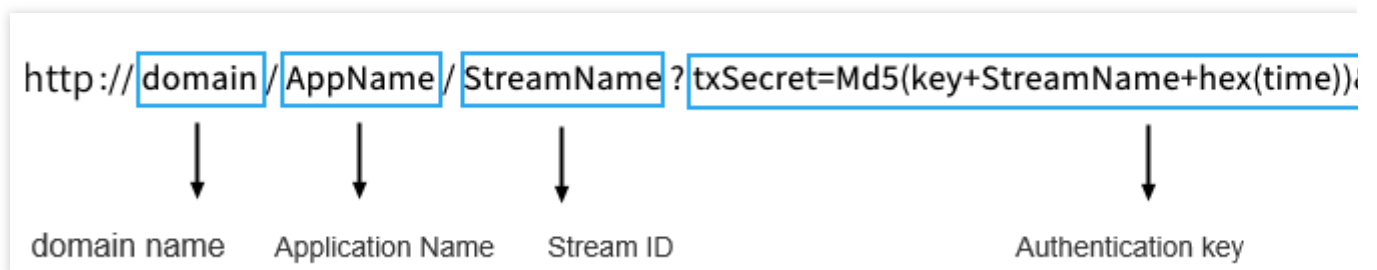
2024-07-18 11:45:06

📅

Confirm

Cancel

A playback URL is made up of four parts, as shown below:



Supported protocols include RTMP, FLV, HLS, and UDP. You can also click the QR code icon and scan the QR code using the [TCToolkit app](#) to obtain the playback URL.

Push Data

Get Playback Address

URL Type Original stream

Validity Period ⓘ 2024-07-18 11:45:26 (UTC+08:00)

RTMP URL



FLV URL



HLS URL



UDP URL (Recommended)



LEB (low latency live streaming) is a UDP-based live streaming solution featuring millisecond playback latency. It's priced differently. See [Billing of LEB](#).

Note :

If HTTPS is enabled for the playback domain selected, the FLV and HLS URLs generated will start with https.

Multiple streams

Enter configuration

1. Log in to the CSS console and select **Web Push**. Click on **Multiple streams**.
2. In the input configuration, click **Add**. Choose the capture method. You can select from three capture methods: camera capture, screen sharing capture, and local file capture. You can also add text configuration for multi-stream mixed live streaming. **Up to 10 input sources can be added.**

Camera

Screen Sharing

Local File

Text

Camera capture is the process of capturing video and audio through a camera/microphone (external devices are supported). Click **Enable Camera/ Enable Microphone**, and the first time you enable it, you'll need to grant the browser permission to use the camera and microphone.

The screenshot displays the 'Web Push' configuration interface. On the left, the 'Multiple streams' tab is selected, and an 'Add' button is visible. Below this, the 'Push Configuration' section lists settings: Configuration (Recommended - 720P), Video Resolution (1280 x 720), Video Encoding (H.264), Video Bitrate (1500 kbps), Audio Codec (Opus), Audio Bitrate (40 kbps), and Background color (#000000). On the right, the 'Add' panel shows the 'Camera' tab selected. It includes a placeholder for a camera preview, an 'Input name' field set to 'Camera1', and buttons to 'Turn on camera' and 'Turn on mic'. Below these are 'Collection Configuration' settings: Configuration (Recommended), Video Resolution (1280 x 720), Video Frame Rate (15), and Audio Sample Rate (48000). The 'Advanced Configuration' section includes sliders for Contrast, Brightness, and Saturation, and a 'More' link. At the bottom right are 'Save' and 'Cancel' buttons.

Screen sharing capture is the process of capturing a specific window or interface through the browser for sharing. Click **Select Screen Sharing** and choose the content to share, which can be the entire screen, a specific window, or a browser tab. You need to select the screen to share before you can save it.

Screen sharing capture supports selecting audio sources. Currently, only Chrome 74+ and Edge 79+ support capturing sound. On Windows systems, you can capture the entire system's sound, while on Linux and Mac, you can only capture the sound from a browser tab.

Add ×

Camera **Screen Sharing** Local File Text

Capture windows/pages by browsers for sharing

Input name *

Audio source ⓘ ☒ System/Browser tab ☐ Mic

Image

Select Screen

Collection Configuration ⓘ

Configuration ☒ Recommended

720P ▼

☐ Custom

Video Resolution

1280 x 720 ▼

Video Frame Rate

15

fps

Audio Sample Rate

48000

Hz

Advanced Configuration

Width

− 1280 +

 Height

− 720 +

X-axis

− 640 +

 Y-axis

− 360 +

Flip

Original ▼

Contrast

0

Brightness

0

Saturation

0

[More](#) ▲

Save

Cancel

Local file capture is the process of capturing images from a specified local file and then pushing it to the cloud live streaming service using a Web-based push tool. Click **Select Local File** to choose the content to be pushed. Currently, MP4, MP3, JPG, PNG, and BMP file formats are supported. Click **Enable Preview** to save the settings.

Add

Camera

Screen Sharing

Local File

Text

Capture windows/pages by browsers for sharing

Input name * Local File1

Local file

Select

Supported formats: MP4, MP3, JPG, PNG, BMP

Collection Configuration

Configuration ☒ Recommended 720P ☐ Custom

Video Resolution 1280 x 720

Video Frame Rate 15 fps

Audio Sample Rate 48000 Hz

Advanced Configuration

Width 1280 Height 720

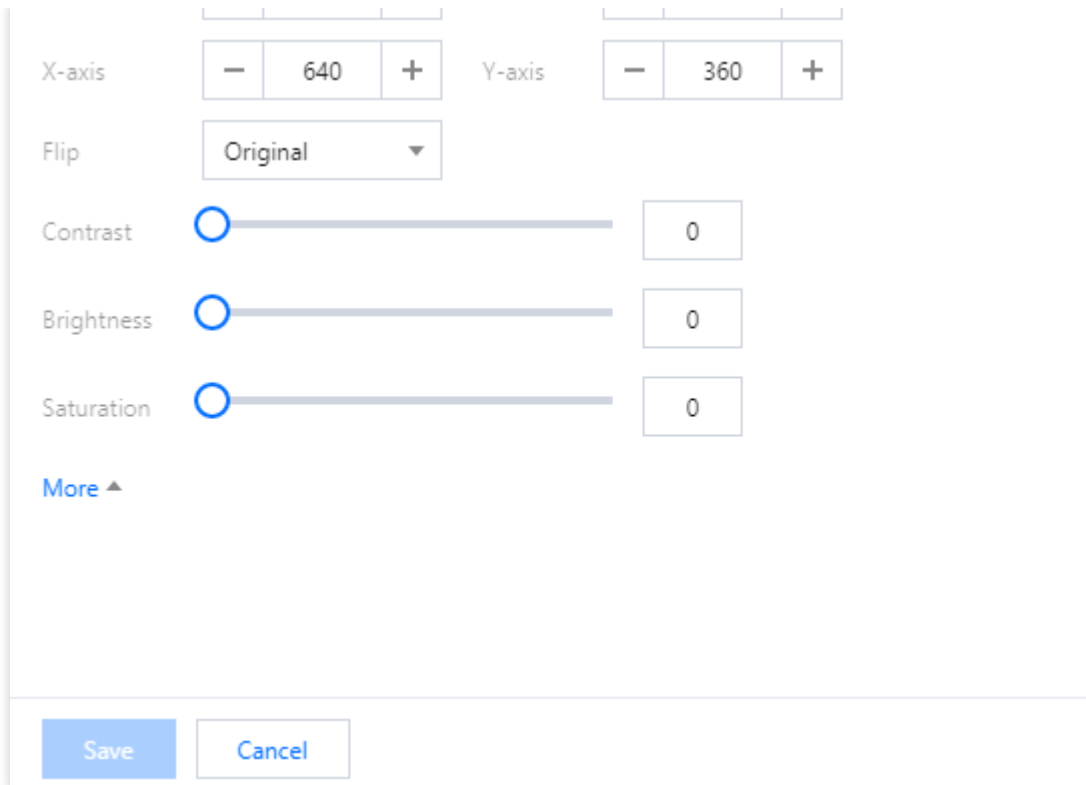


Image configuration dialog box showing settings for X-axis, Y-axis, Flip, Contrast, Brightness, and Saturation.

X-axis: Y-axis:

Flip:

Contrast:

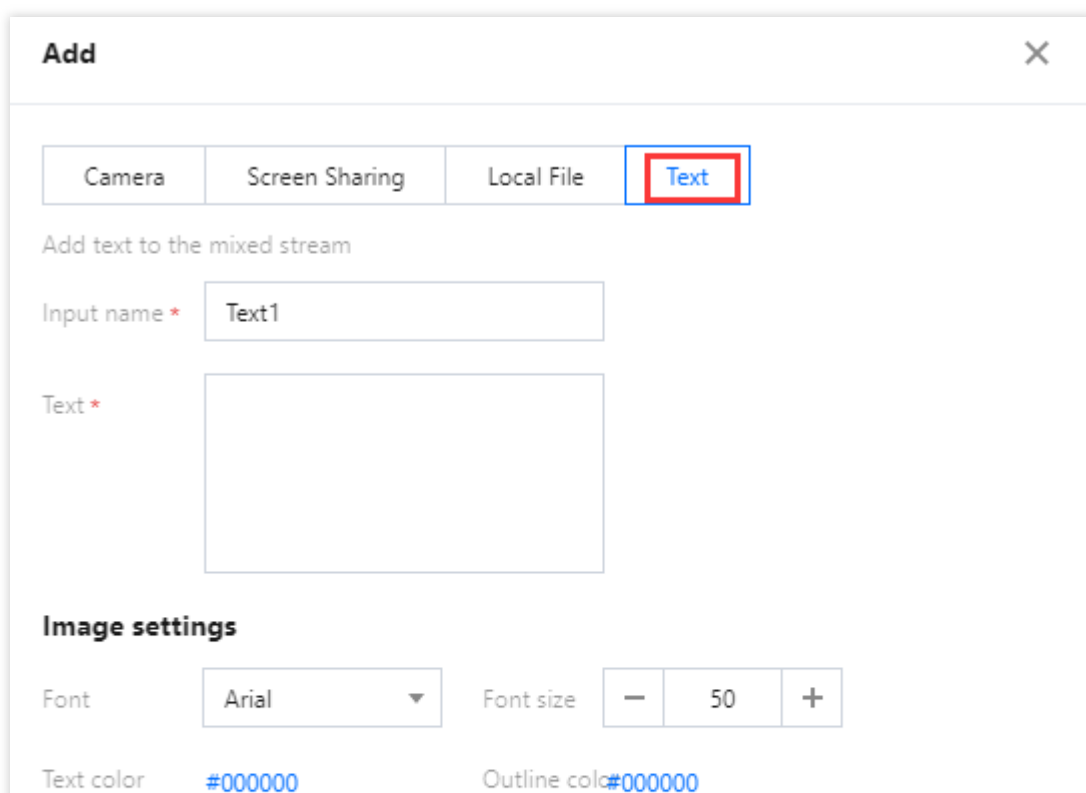
Brightness:

Saturation:

[More](#) ▲

Text configuration allows you to add text to the mixed streaming image and then push it to the cloud live streaming service using a Web-based push tool. Enter text in the text content field.

In the image configuration, you can set the font, color, shadow, transparency, thickness, and text coordinates. The default text coordinates are in the center of the page.



Add text configuration dialog box showing options for Camera, Screen Sharing, Local File, and Text.

Add text to the mixed stream

Input name *

Text *

Image settings

Font: Font size:

Text color: Outline color:

Bold Italic

Shadow color Background color

Shadow opacity

Outline width

Background opacity

X-axis Y-axis

3. You can set capture configurations for camera capture, screen sharing capture, and local file capture. The default is the recommended configuration (different resolutions have different recommended configurations). Switching or modifying the configuration is not supported during the capture process. You need to make changes when the preview is closed.

4. You can set advanced configurations for camera capture, screen sharing capture, and local file capture. You can adjust the image, coordinates, mirroring, contrast, brightness, and saturation.

5. Click **Save**, and the input source will be added to the configuration.

Change setting





1. In the input configuration, you can perform operations on the configured input sources.

2. Select the input source you want to modify and click **Configure**. The right-side pop-up window will display the configuration information of this input source, and you can modify the configuration information again. Switching or modifying the configuration is not supported during the capture process. You need to make changes when the preview is closed.
3. You can adjust the display order of input sources by dragging the buttons on the left side of the input sources up or down.
4. Click **Delete** to remove the input source.
5. Click **Disable Preview** to close the preview of the input source, but you can still select the image for editing in the image editing area.
6. For input sources with audio, you can adjust the volume. Click "Adjust Volume", drag the volume slider, and click **Confirm** to confirm.

Single stream

Multiple streams


Inputs

Input	Operation
 Local File1	Manage Delete Disable preview Audio
 Camera1	Manage Delete Disable preview
 Screen Sharing1	Manage Delete Disable preview
 Text1	Manage Delete

Push configuration

Push configuration: Set the push configuration, with the default being the recommended configuration (different resolutions have different recommended video bitrates, and audio bitrate cannot be modified). You can click **Edit** in the upper right corner to enter custom editing configuration, where you can customize and modify the video and audio bitrates.

Push Configuration

Configuration	Recommended - 720P
Video Resolution	1280 x 720
Video Encoding	H.264
Video Bitrate	1500 kbps
Audio Codec	Opus 
Audio Bitrate	40 kbps
Background color	#000000

Note :

The audio encoding method for web push is Opus encoding, and it is recommended to use the Live Event Broadcasting (LEB) WebRTC address for playback. If you use the playback address of the standard live streaming (RTMP/FLV/HLS), the system will automatically convert it to AAC encoding for normal playback, which will generate audio transcoding fees. For details, please refer to the [Billing Documentation](#).

Screen editing

1. After confirming the input configuration and push configuration, you can see the preview image in the preview box on the right, and you can edit the image as needed.
2. Click **Edit**, select the image in the preview box that needs to be adjusted, and you can drag and resize the image as needed.
3. After adjusting, click **Exit Edit**. If you are in the middle of pushing the stream, saving the changes will continue pushing the stream with the new image layout.

Web Push You're advised to use Chrome, as some features are unavailable on other browsers.

The Web Push page is for trying out features only. You can also integrate our SDK to your web page to use such features. For details, please see [WebRTC Push](#).

Single stream


Multiple streams

Inputs Add

Input	Operation
Local File1	Manage Delete Disable preview Audio volume
Camera1	Manage Delete Disable preview
Screen Sharing1	Manage Delete Disable preview
Text1	Manage Delete

Push Configuration Edit

Configuration	Recommended - 720P
Video Resolution	1280 x 720
Video Encoding	H.264
Video Bitrate	1500 kbps
Audio Codec	Opus
Audio Bitrate	40 kbps
Background color	#000000



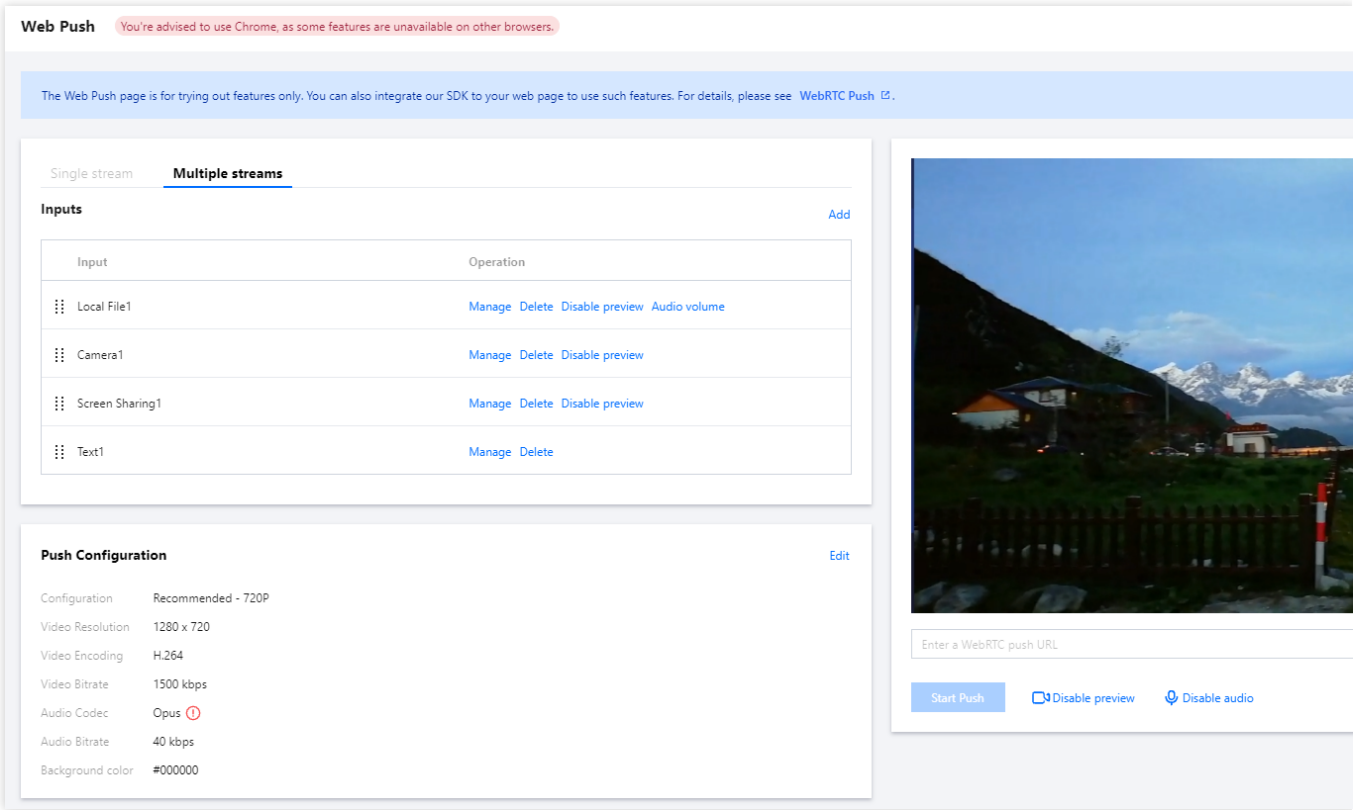
Start Push Disable preview Disable audio

Note :

When you enter the image editing mode, you can adjust the image layout in the preview box. Exiting the image editing mode allows you to view the preview image of the push stream in the preview box. Editing the page does not affect the real-time push stream, and the configuration will be saved only when you exit the editing mode.

Push address

1. Enter the WebRTC push address in the preview box below or click **Generate**, and configure the following information in the pop-up window:



- 1.1 Select your push domain.
- 1.2 Enter a unique AppName for an application to distinguish it from other applications under the same domain name. AppName is live by default.
- 1.3 Enter a custom StreamName, such as test.
- 1.4 Select an expiration time, such as 2024-07-18 12:41:06 .
- 1.5 Click **Confirm**, and a push URL is auto-generated.

Address Generator ×

Push Domain

.com ▼

AppName

live

StreamName

test

Expiration Time

2024-07-18 12:41:06 📅

Confirm

Cancel

Start streaming

1. To enable/disable video or audio.



webrtc://*.com/live/test?txSecret=bf037bc63e5969477d7f99fc725a8cc5&txTime=66989CE2



Start Push



Disable preview



Disable audio

1.1 click



Disable preview

or



Disable audio

. After you disable video/audio, data capturing will continue and push will still succeed, but the stream cannot be previewed and will have no video or audio.



webrtc://[redacted].com/live/test?txSecret=bf037bc63e5969477d7f99fc725a8cc5&txTime=66989CE2

Start Push

 Disable preview


 Disable audio

1.2 After push succeeds, click **View** below the preview to view streaming statistics. You cannot obtain statistics or playback URLs for push URLs not under your account. Please use a push domain under your account to generate push URLs or relay streams to your account.



webrtc://1. .com/live/test?txSecret=bf037bc63e5969477d7f99fc725a8cc5&txTime=66989CE2

Stop

 Disable preview

 Disable audio

Push Data

Get Playback Address


1.3 If you have added a playback domain in **Domain Management**, you can **select the domain** to generate a playback URL. If you need to generate a playback address with transcoding or adaptive transcoding configuration, you must first bind the playback domain to a transcoding template or adaptive transcoding template to generate a transcoded stream or adaptive transcoded stream.



webrtc://...com/live/test?txSecret=bf037bc63e5969477d7f99fc725a8cc5&txTime=66989CE2

Stop

 Disable preview

 Disable audio

Push Data

Get Playback Address

Address Generator ×

Playback Domain

.top

AppName

live

StreamName

☒ Original stream

☐ Transcoded stream

☐ Adaptive bitrate streams

test

Expiration Time

2024-07-18 12:44:31

Confirm

Cancel









A playback URL is made up of four parts, as shown below:



Supported protocols include RTMP, FLV, HLS, and UDP. You can also click the QR code icon and scan the QR code using the [TCToolkit app](#) to obtain the playback URL.

Push Data

Get Playback Address

URL Type	Original stream		
Validity Period ⓘ	2024-07-18 12:44:51 (UTC+08:00)		
RTMP URL	rtmp://[redacted].top/live/test		
FLV URL	http://[redacted].top/live/test.flv		
HLS URL	http://[redacted].top/live/test.m3u8		
UDP URL (Recommended)	webrtc://[redacted].top/live/test		
LEB (low latency live streaming) is a UDP-based live streaming solution featuring millisecond playback latency. It's priced differently, see Billing of LEB  .			

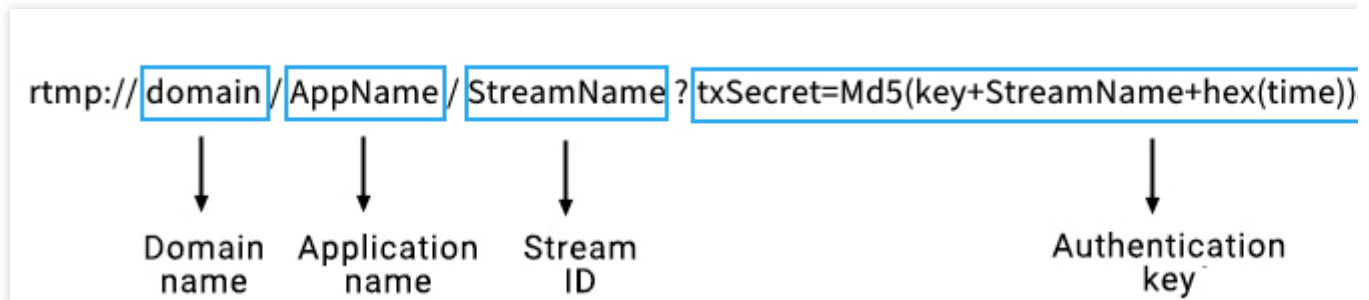
Note :

If HTTPS is enabled for the playback domain selected, the FLV and HLS URLs generated will start with https.

Address Generator

Last updated : 2024-01-23 16:29:08

The CSS console provides an address generator which you can use to quickly generate push/playback URLs. The main parts of a live streaming URL include a domain name (`domain`), an application name (`AppName`), a stream name (`StreamName`) and an authentication key (`Key`).



After URLs are generated, you can **select and copy** the one you need or copy it by **clicking the copy icon**. You can also get the URL by **scanning the QR code**.

Support and Limits

If you need to generate multiple live streaming URLs, we recommend that you splice them as instructed in [Splicing Live Streaming URLs](#).

CSS provides a test domain name `xxxx.livepush.myqcloud.com`. You can use it to test push, but we do not recommend using it for business purposes.

When playing a transcoded stream, the StreamName in the playback address should be suffixed with `"_TranscodingTemplateName"` to work. It is recommended not to include `"_"` in the StreamName. If the string after `"_"` is the same as the transcoding template name, the part after `"_"` will be recognized as the transcoding template name, which may cause the stream pulling to fail.

You can get a URL generated by scanning the QR code with [TCToolkit](#).

The recent records of the address generator are stored in the local cache of a browser. Clearing the cache will also remove these records..

Prerequisites

You have logged in to the [CSS console](#), and have added a [push/playback domain name](#).

Parameter Description

Parameter	Description
URL Type	You can choose from the following three address types for configuration: Push Address Playback Address Push and playback URLs
Select Domain Name	You can choose: Push Domain Name Playback Domain Name Select both Push Domain Name and Playback Domain Name
AppName	The application name, which is used to identify a streaming file path. Default value: `live`. Only letters, digits, and symbols are allowed.
StreamName	A custom stream name is a unique identifier for each live stream. It only supports English letters, numbers, and symbols. The length of the StreamName is limited to 255 characters.
Type	Default encryption type: MD5, alternative option: SHA256
Expiration Time	The actual expiration time of a playback URL is the specified time plus the validity period of the authentication key. The expiration time of a push URL is the specified time.
Transcoding Template	This option is only used when selecting the address type as Playback Address and choosing the domain name as Playback Domain Name. If you choose a Transcoding Template , the generated playback address will be for the transcoded live stream. If you need to play the original live stream, there is no need to select a transcoding template to generate the address. If you choose an Adaptive Bitrate Template , the generated playback address will be for the adaptive bitrate live stream. If you need to play the original live stream, there is no need to select a transcoding template to generate the address.

Generating Push URLs

Directions

1. Log in to the CSS console and select [Address Generator](#) on the left sidebar.
2. Select the address type as **Push Address**.
3. Select the push domain name that you have added to Domain Management.

4. Enter an **AppName**. It is `live` by default.
5. Enter a **StreamName**, such as `liveteststream`.
6. Select your **Encryption Type**.
7. Select the expiration time of the URL, such as `2023-08-20 18:04:47`.
8. Click **Generate Address**.

URL Type *

☒ Push Address ☐ Playback Address ☐ Push and playback URLs NEW i

Select domain name *

.com

AppName *

live

i

Use "live" by default. Only letters, digits, and symbols are supported.

StreamName *

liveteststream

i

Only supports letters, digits, and symbols

Type

☒ MD5 ☐ SHA256

Expiration Time

2023-08-20 18:04:47

The actual expiration time of the playback URL is the timestamp selected plus the validity period of t


Generate Address

Splice manually

History

Push URL format

CSS supports RTMP, WebRTC, SRT and RTMP over SRT for push. As a result, the push URLs generated will start with `rtmp://`, `webrtc://`, `srt://` or `rtmp://`.

Live streaming URLs The URLs are automatically saved to the browser cache and will be deleted when you clear th

URL Type Push Address

Validity Period 2023-08-20 18:04:47 (UTC+08:00) [reference documentation](#) 

RTMP URL	rtmp://[redacted].com/live/liveteststream	Copy	C
OBS server	rtmp://[redacted].com/live/	Copy	
OBS stream key	liveteststream	Copy	
WebRTC URL	webrtc://[redacted].com/live/liveteststream	Copy	V
Millisecond			
SRT URL	srt://[redacted].com:9000? streamid=#!;h=[redacted].com,r=live/liveteststream	Copy	
RTMP over SRT URL	rtmp://[redacted].com:3570/live/liveteststream	Copy	

Generating Playback URLs

Directions

1. Log in to the CSS console and select [Address Generator](#) on the left sidebar.
2. Select the address type as **Playback Address** and choose the playback domain name that you have added to Domain Management.
3. Enter an **AppName**. It is `live` by default.
4. Enter a **StreamName**, such as `liveteststream`.
5. Select your **Encryption Type**.
6. Select the URL expiration time, such as `2023-08-20 19:13:09`.
7. Select an existing transcoding template (optional).
8. Click **Generate Address**.

URL Type *

☐ Push Address ☒ Playback Address ☐ Push and playback URLs NEW ?

Select domain name *

AppName *

live

?

Use "live" by default. Only letters, digits, and symbols are supported.

StreamName *

liveteststream

?

Only supports letters, digits, and symbols

Type

☒ MD5 ☐ SHA256

Expiration Time

2023-08-20 19:13:09

Push address expiration time is the setting time

Transcoding Template

Please select

If you select a transcoding template, the generated playback address will be the live streaming address after transcoding. If you want to play the original live stream

Generate Address

Splice manually

History

Playback URL format

If a transcoding template is used, the generated playback address will be for the transcoded live stream. The playback supports RTMP, FLV, HLS, and WebRTC protocols. You can generate playback addresses with prefixes such as `rtmp://`, `http://`, and `webrtc://` using the address generator. Compared to the original live stream, you need to append `"_TranscodingTemplateName"` after the `StreamName`.

Caution

UDP playback URLs are for [LEB](#). To learn about the billing of LEB, see [Pricing Overview](#).

Live streaming URLs

✓ The URLs are automatically saved to the browser cache and will be deleted when you cl

URL Type

Playback Address

Validity Period

2023-08-20 19:13:09 (UTC+08:00)

[reference documentation](#)

RTMP URL	<code>rtmp://.com/live/liveteststream</code>	Copy	QR
FLV URL	<code>http://.com/live/liveteststream.flv</code>	Copy	QR
HLS URL	<code>http://.com/live/liveteststream.m3u8</code>	Copy	QR
WebRTC URL	<code>webrtc://.com/live/liveteststream</code>	Copy	QR

Millisecond

Generate Push and Playback Address Group

Directions

1. Log in to the CSS console and select [Address Generator](#) on the left sidebar.
2. Select the address type as **Push and playback URLs**.
3. Select the **Push Domain Name** and **Playback Domain Name** that you have added to Domain Management.
4. Enter an **AppName**. It is `live` by default.
5. Enter a **StreamName**, such as `liveteststream`.
6. Select your **Encryption Type**.
7. Select the URL expiration time, such as `2023-08-20 20:11:49`.
8. Select an existing transcoding template (optional).
9. Click **Generate Address**.

The screenshot shows the 'Address Generator' interface. At the top, there are three radio buttons for 'URL Type': 'Push Address', 'Playback Address', and 'Push and playback URLs' (which is selected and marked with a 'NEW' tag). Below this are two dropdown menus for 'Push Domain' and 'Playback Domain'. The 'AppName' field contains 'live' with a help icon and a note: 'Use "live" by default. Only letters, digits, and symbols are supported.' The 'StreamName' field contains 'liveteststream' with a help icon and a note: 'Only supports letters, digits, and symbols'. The 'Type' section has two radio buttons: 'MD5' (selected) and 'SHA256'. The 'Expiration Time' field shows '2023-08-20 20:11:49' with a calendar icon and a note: 'The expiration time of playback address is the setting timestamp plus the playback authentication expiration time, and the push address expiration time is the sett'. The 'Transcoding Template' dropdown shows 'Please select' with a note: 'If you select a transcoding template, the generated playback address will be the live streaming address after transcoding. If you want to play the original live stream'. At the bottom, there are three buttons: 'Generate' (blue), 'Splice manually', and 'History'.

Push and Playback Address Group Explanation

Push Address

Playback Address

CSS supports RTMP, WebRTC, SRT and RTMP over SRT for push. As a result, the push URLs generated will start with `rtmp://`, `webrtc://`, `srt://` or `rtmp://`.


Live streaming URLs
 The URLs are automatically saved to the browser cache and will be deleted when you clear
Push Address

Playback Address

 Validity Period 2023-08-20 20:11:49 (UTC+08:00) [reference documentation](#)

RTMP URL	rtmp://[redacted].com/live/liveteststream	Copy
OBS server	rtmp://[redacted].com/live/	Copy
OBS stream key	liveteststream	Copy
WebRTC URL	webrtc://[redacted].com/live/liveteststream	Copy
Millisecond		
SRT URL	srt://[redacted].com:9000? streamid=#l:h=[redacted].com,r=live/liveteststream	Copy
RTMP over SRT URL	rtmp://[redacted].com:3570/live/liveteststream	Copy

If a transcoding template is used, the generated playback address will be for the transcoded live stream. The playback supports RTMP, FLV, HLS, and WebRTC protocols. You can generate playback addresses with prefixes such as `rtmp://`, `http://`, and `webrtc://` using the address generator. Compared to the original live stream, you need to append "`_TranscodingTemplateName`" after the `StreamName`.

Live streaming URLs
 The URLs are automatically saved to the browser cache and will be deleted when you

Push Address

Playback Address
 Validity Period 2023-08-20 20:11:49 (UTC+08:00) [reference documentation](#)

RTMP URL	rtmp://[redacted].com/live/liveteststream	Copy	C
FLV URL	http://[redacted].com/live/liveteststream.flv	Copy	C
HLS URL	http://[redacted].com/live/liveteststream.m3u8	Copy	
WebRTC URL	webrtc://[redacted].cdn.com/live/liveteststream	Copy	C
Millisecond			

Adaptive bitrate URL format

If you use an Adaptive Bitrate Template, the generated playback address will be for adaptive bitrate playback.

This playback address supports HLS and WebRTC protocols. You can generate playback addresses with prefixes such as `http://` and `webrtc://` using the address generator.

For adaptive bitrate pull addresses using the HLS protocol, the processing method is the same as that for regular transcoded addresses.

For adaptive bitrate pull addresses using the WebRTC protocol, there is no need to append the transcoding template name after the StreamName. Instead, you need to append

`"&tabr_bitrates=AdaptiveBitrateSubTemplateNameList&tabr_start_bitrate=StartingPlaybackBitrateSubTemplateName&tabr_control=auto"` after the original live stream URL. The adaptive bitrate sub-template names in the list should be arranged in descending order of bitrate, separated by commas..

Transcoding Template

(Adaptive bitrate)

Cancel Transcoding

If you select a transcoding template, the generated playback address will be the live streaming address after transcoding. If you want to play the original live stream, you can select the original live stream template.

Adaptive bitrate streams

Generate Address
Splice manually
History

Live streaming URLs
✔ The URLs are automatically saved to the browser cache and will be deleted when you clear the cache.

URL Type	Playback Address		
Validity Period	2023-08-20 20:45:52 (UTC+08:00)	reference documentation	
HLS URL	http://[redacted].com/live/liveteststream_mm.m3u8	Copy	QR code
WebRTC URL	webrtc://[redacted].com/live/liveteststream? tabr_bitrates=[redacted]&tabr_start_bitrate=mmm&tabr_control=auto	Copy	QR code View Document

Custom Concatenation Explanation

1. Log in to the CSS console and select [Address Generator](#) on the left sidebar. Click **Splice manually** to enter the Custom Concatenation Management page.

Expiration Time

2023-08-20 20:45:52



The actual expiration time of the playback URL is the timestamp selected plus the validity period of the

Generate Address

Splice manually

History

2. In the pop-up **Address Resolution Sample** window, the examples are as follows:

Stream Push

Original stream playback

Transcoded stream playback

Adaptive bitrate playback

Playback

Address Resolution Sample

Stream Push

Original stream playback

Transcoded stream playback

Adaptive bitrate playback

Recommended

URL format:

Push domain

+

AppName ("live" by default)

+

StreamName (stream ID)

+

Authentication Info

Examples:

RTMP

```
rtmp://domain/AppName/StreamName?txSecret=Md5(key+StreamName+hex(time))&txTime=hex(time)
```

WebRTC

```
webrtc://domain/AppName/StreamName?txSecret=Md5(key+StreamName+hex(time))&txTime=hex(time)
```

Notes:

1. Replace the parameters in the URL with the actual values. For details, see [Splicing Live Streaming URLs](#) and [Playback Address Resolution](#).
2. LEB is based on UDP and features playback with millisecond latency. It's priced differently from LVB. For details, see [Billing](#).

Address Resolution Sample

Stream Push	Original stream playback	Transcoded stream playback	Adaptive bitrate playback Recommended
-------------	--------------------------	----------------------------	--

URL format:

Playback domain	+	AppName ("live" by default)	+	StreamName (stream ID)	+	Authentication Info
-----------------	---	-----------------------------	---	------------------------	---	---------------------

Examples:

RTMP

rtmp://domain/AppName/StreamName?txSecret=Md5(key+StreamName+hex(time))&txTime=hex(time)

FLV

http(s)://domain/AppName/StreamName.flv?txSecret=Md5(key+StreamName+hex(time))&txTime=hex(time)

M3U8

http(s)://domain/AppName/StreamName.m3u8?txSecret=Md5(key+StreamName+hex(time))&txTime=hex(time)

WebRTC

webrtc://domain/AppName/StreamName?txSecret=Md5(key+StreamName+hex(time))&txTime=hex(time)

Notes:

1. Replace the parameters in the URL with the actual values. For details, see [Splicing Live Streaming URLs](#) and [Playback A](#)
2. LEB is based on UDP and features playback with millisecond latency. [It's priced differently from LVB](#). For details, see [Bi](#)

Address Resolution Sample

Stream Push	Original stream playback	Transcoded stream playback	Adaptive bitrate playback
-------------	--------------------------	-----------------------------------	---------------------------

Recommended

URL format:

Playback domain + AppName ("live" by default) + StreamName (stream ID) + Transcoding template name

Examples:

RTMP

rtmp://domain/AppName/StreamName_transcode?txSecret=Md5(key+StreamName_transcode+hex(time))&txTime=hex(tir

FLV

http(s)://domain/AppName/StreamName_transcode.flv?txSecret=Md5(key+StreamName_transcode+hex(time))&txTime=he

M3U8

http(s)://domain/AppName/StreamName_transcode.m3u8?txSecret=Md5(key+StreamName_transcode+hex(time))&txTime

WebRTC

webrtc://domain/AppName/StreamName_transcode?txSecret=Md5(key+StreamName_transcode+hex(time))&txTime=hex(

Notes:

1. Replace the parameters in the URL with the actual values. For details, see [Splicing Live Streaming URLs](#) and [Playback A](#)
2. LEB is based on UDP and features playback with millisecond latency. [It's priced differently from LVB](#). For details, see [Bi](#)

Address Resolution Sample

Stream Push	Original stream playback	Transcoded stream playback	Recommended Adaptive bitrate playback
-------------	--------------------------	----------------------------	---

M3U8 URL format:

Playback domain + AppName ("live" by default) + StreamName (stream ID) + Adaptive bitrate template

Examples: Assume that your adaptive bitrate template is named "test".

URL

`http(s)://domain/AppName/StreamName_test.m3u8?txSecret=Md5(key+StreamName_autobitrate+hex(time))&txTime=hex`

WebRTC URL format:

Playback domain + AppName ("live" by default) + StreamName (stream ID) + Authentication Info +
 Name of the initially played stream Bitrate control mode

Examples:

Assume that your adaptive bitrate template has three streams. Their names are "test 1", "test 2", and "test 3", and their bitrates respectively.

URL

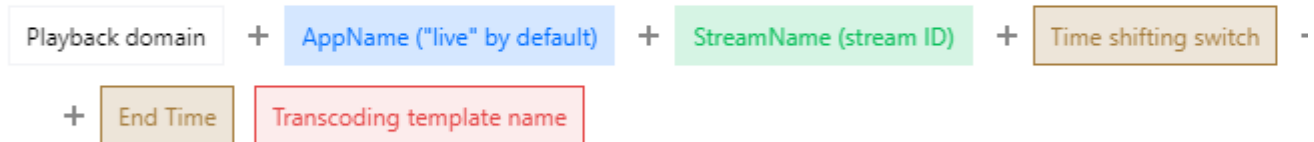
`webrtc://domain/AppName/StreamName?
 txSecret=Md5(key+StreamName+hex(time))&txTime=hex(time)&tabr_bitrates=test3,test2,test1&tabr_start_bitrate=test1&t`

Notes:

1. Replace the parameters in the URL with the actual values. For details, see [Splicing Live Streaming URLs](#) and [Playback A](#)
2. LEB is based on UDP and features playback with millisecond latency. [It's priced differently from LVB](#). For details, see [Bi](#)

Address Resolution Sample

Stream Push	Original stream playback	Transcoded stream playback	Recommended Adaptive bitrate playback
-------------	--------------------------	----------------------------	---

URL format when a time period is specified**Examples:**

Unix timestamp

`http(s)://domain/AppName/StreamName.m3u8?txTimeshift=on&tsFormat=unix_s&tsStart=1675302995&tsEnd=167530300`

Human-readable time

`http(s)://domain/AppName/StreamName.m3u8?txTimeshift=on&tsFormat=human_s_8&tsStart=20230202095635&tsEnd=20230202095705&tsCodecname=transcode`

URL format when an offset is specified**Examples:**

`http(s)://domain/AppName/StreamName.m3u8?txTimeshift=on&tsDelay=30&tsCodecname=transcode`

Notes:

1. You need to replace the parameter values in the examples with your actual values. For details, see [Time Shifting](#) and [S](#)

Recent Record Explanation


Based on your business needs, you can view or delete the records of recently generated addresses. These records include push addresses, playback addresses, address groups, and other information.

View Records

1. Log in to the CSS console and select [Address Generator](#) on the left sidebar. Click **History** to enter the Recent Record Management page.

Expiration Time

2023-08-20 21:14:20



The actual expiration time of the playback URL is the timestamp selected plus the validity period of th

Generate Address



Splice manually

History

2. Select the live address record information you want to view and click **View**.

← History

The recent records of the address generator are stored in the local cache of a browser. Clearing the cache will also remove these records.

Domain Name	URL Type	StreamName	Generate time
	Playback Address	liveteststream	2024-01-22 18:38:19
	Push Address	liveteststream	2024-01-22 18:38:13

Total items: 2

Delete Live Address Record

If you need to delete a live address record, first select the address type you want to delete, and then click **Delete** on the right side of the page. Next, you will be redirected to the delete confirmation window; click **Confirm** again to delete the corresponding live address record.

← History

The recent records of the address generator are stored in the local cache of a browser. Clearing the cache will also remove these records.

Domain Name	URL Type	StreamName	Generate time
	Playback Address	liveteststream	2024-01-22 18:38:19
	Push Address	liveteststream	2024-01-22 18:38:13

Total items: 2

Caution :

The URLs are automatically saved to the browser cache and will be deleted when you clear the cache

Live streaming URLs

✓

The URLs are automatically saved to the browser cache and will be deleted when you

Self-Diagnosis

Last updated : 2023-09-26 10:22:37

CSS offers a self-diagnosis tool for you to quickly detect and troubleshoot push and playback issues related to users, URLs, domain names, streams, and other factors. This feature is in beta testing now. The diagnostic results are for reference only.

Prerequisites

There is a push/playback URL [spliced by you](#) or generated by the [Address Generator](#).

The push URL has been used for [push](#).

Directions

Follow the steps below to diagnose a push/playback problem in a live stream:

1. Log in to the CSS console and select [Self-Diagnosis](#) on the left sidebar.
2. Enter the push or playback URL you want to diagnose.
3. Click **Execute Diagnosis**.

Self-Diagnosis

Self-diagnosis is upgraded to quickly diagnose common streaming and playback issues. Currently, it is under beta testing, and diagnosis results are for reference only.

Item	Operation
<div><div>▼</div><div><div>✔</div>Customer Information</div></div>	Collapse
<div>Appld <input type="text"/></div> <div>Status Normal</div>	
<div><div>▼</div><div><div>✔</div>Domain Name</div></div>	Collapse
<div>Domain Name <input type="text"/></div>	

Domain Name Type

Push Domain

CNAME

Correctly configured

Correct:

Current:

▼

❗

Stream Status

Collapse

Stream

Status

No input stream

▼

✅

URL

Collapse

URL

webrtc://

AppName

live

StreamName

Authentication Configuration

Disabled

Primary key:

Backup key:

▶

🕒

Application

Show More

Result

You will see the diagnostic result and suggestion for troubleshooting the problem.

Item	Sub-Item	Description
Customer Information	APPID	Customer's application ID
	Status	Customer's account status
Domain Name	Domain Name	Domain Name
	Domain Name Type	Push/Playback domain
	CNAME	CNAME resolution information

Stream Status	Stream	Stream ID
	Status	Stream status
URL	URL	Push/Playback URL
	AppName	URL path
	StreamName	Stream name, which is used to calculate `txSecret`
	Authentication Configuration	Whether authentication is enabled
		Primary key
		Backup key
	Push/Playback authentication	Whether authentication succeeded
		Cause
		Authentication StreamName
		txSecret: Authentication string generated after push/playback authentication is enabled.
		txTime: Expiration timestamp set for the push/playback URL
		URL actual expiration time
Access Bandwidth	Bandwidth Cap Configuration	Whether a cap is set for bandwidth
		Acceleration Region
	IP Visit	Status
		Current Bandwidth
Application	Client	Push from PC: We recommend you use OBS for push to test the push. Playback on PC: We recommend you use the VLC player to test the playback.
		Push from web: We recommend you use Web Push to test the push.
		Push from mobile apps: Install TCToolkit App and select "RTMP for push" to test the push. Playback on mobile apps: Install TCToolkit App and select "Standard Live Broadcast" to test the playback.

	IP Restriction	Check for exceptions caused by the IP allowlist/blocklist or regional restrictions
	Stream Data	Analyze real-time monitoring data of the live stream to determine whether the exception is caused by network congestion, jitters, or other reasons. View stream data

Note

If the diagnostic report cannot solve your problem, please [submit a ticket](#) or contact Tencent Cloud technical support.

OOTB live

Last updated : 2024-04-24 11:49:03

OOTB live is already-to-use tool that requires no intricate technical research or personnel investment. With only two simple steps, one can initiate personalized live streaming training or sales sessions. Utilizing this live streaming tool, you can effectively manage private traffic, operate your own brand, introduce and release company products, conduct promotion and training activities, and better track online training and sales results. This document principally outlines the operations for live room management on the enterprise management side, live stream push on the host side, and live viewing on the viewer side.

Prerequisites

You have logged in to the [CSS console](#).

You have added a [playback domain name](#).

Points of Attention



Currently, this feature is in beta testing. Fees are collected based on the actual use of the function. For more details, refer to [Pricing Overview](#). As of January 1, 2024, billing will be based on monthly subscription plans.

Live Room Management (Management Side)

Creating a Live Room

1. Log in to the CSS console, go to **CSS Toolkit** > [OOTB live](#).
2. Click **New room** to enter the live room creation window.

OOTB live

 This feature is currently in beta testing and is charged based on usage. For details, see [Billing Overview](#) . Monthly plans

[New room](#)

3. Specify **Room name**. The name can contain up to 20 characters and supports only Chinese characters, English letters, numbers, underscores (_), and hyphens (-).
4. Choose **Start Time** based on your actual business needs and click **OK** for confirmation.
5. Select **Playback Domain** that you have already added in the domain name management.
6. A default live streaming cover is provided. If you wish to upload your own cover, click on **Change**. We recommend a JPG or PNG image of 2 MB or smaller, with resolution of 1280*720px.
7. Click **Create**.

New room

Room name *

test001



Start Time *

2024-04-24 17:00:15



Playback Domain *

[blurred] .com



Thumbnails



File size89K

Upload Time2024-04-23 17:00:31

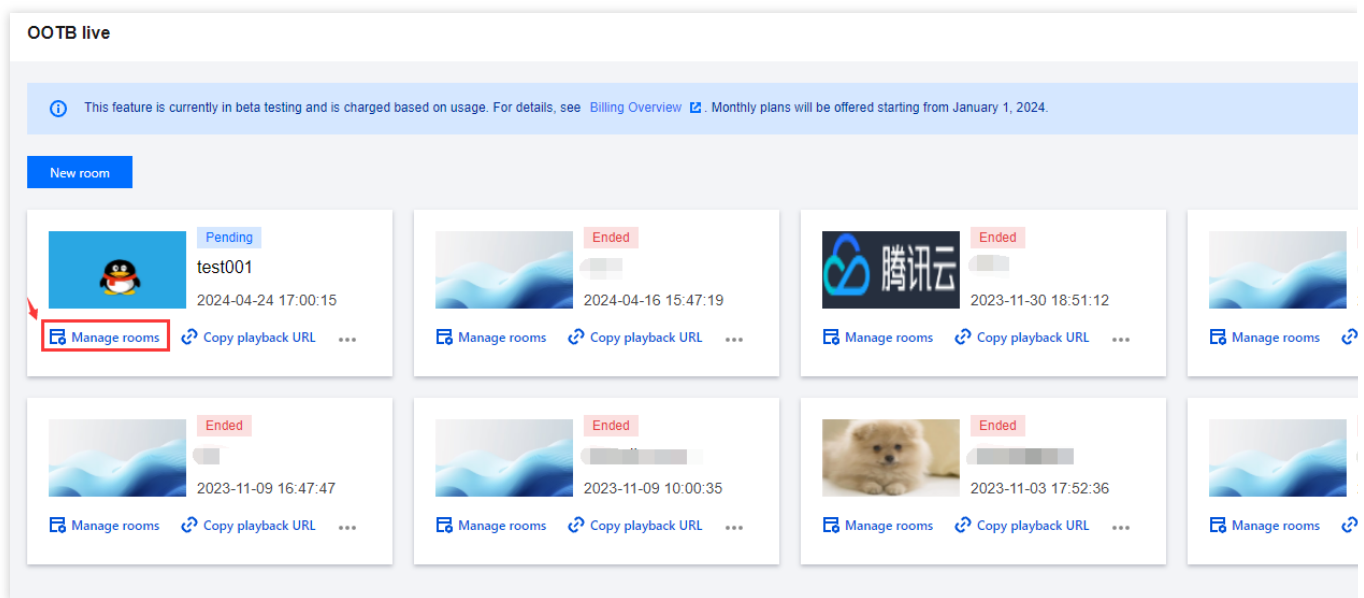
[Change](#)

Upload a thumbnail not larger than 2 MB in JPG or PNG format (recommended size 1280 x 720px). If you don't upload an image, the default thumbnail will be used.

[Create](#)[Cancel](#)

Live Control

1. Log in to the CSS console, go to **CSS Toolkit** > **OOTB live**.
2. Select the created live room and click on **Manage rooms**. From the management side, you can delete created live rooms based on actual business needs, or copy and share links for viewing the live streaming.



3. Enter the live streaming control page and choose the method of starting the live streaming according to your actual business needs. You can select **Web**, **Publish**, or **Playback**:

Web: The host uses the web-based live streaming tools provided by OOTB live. Options for live streaming include using a camera, local files, or screen sharing.

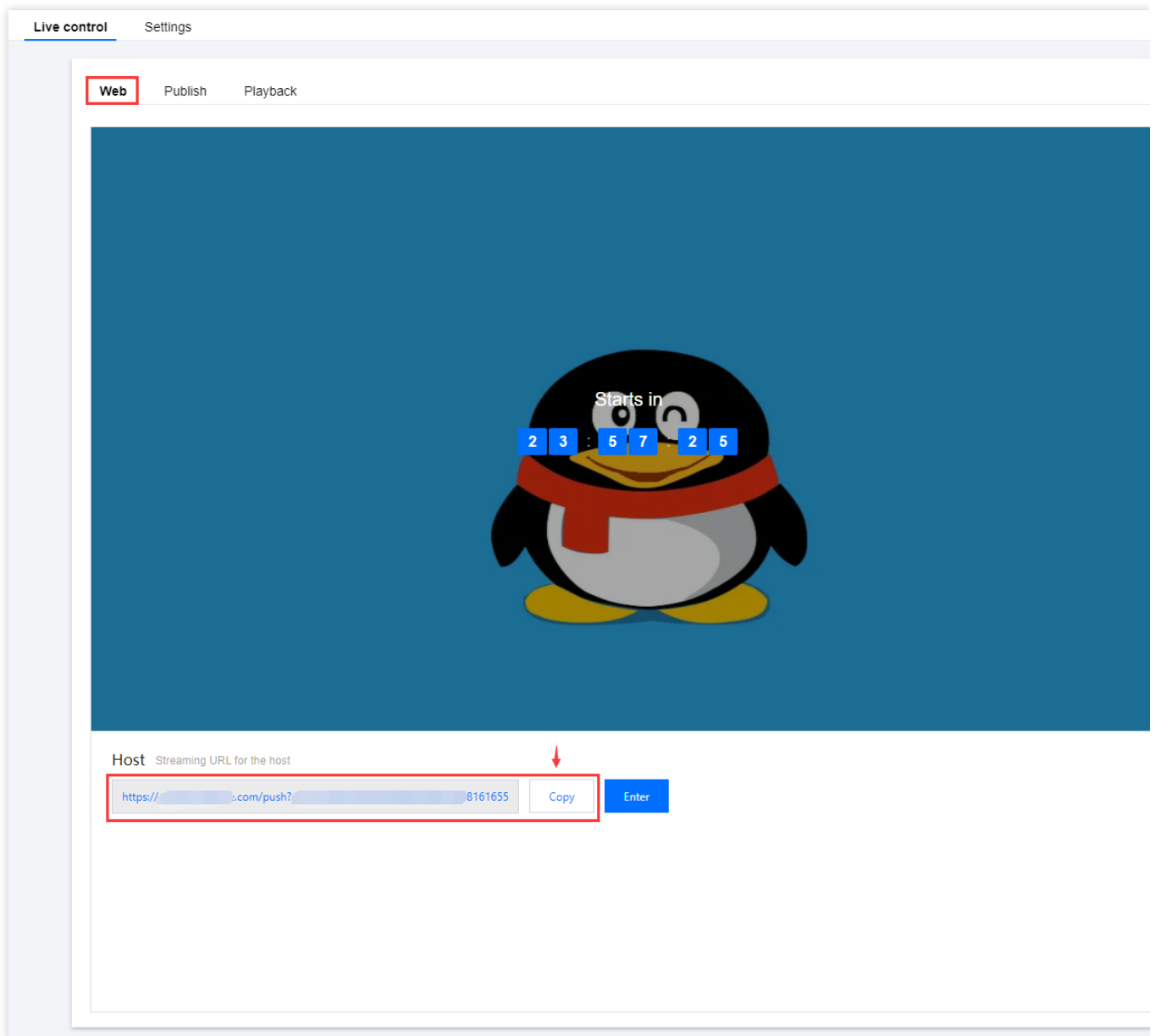
Publish: The host can stream using third-party tools such as OBS. In this case, the push streaming addresses provided by the system are entered into these third-party tools. For more information, refer to [Push via OBS](#).

Playback: This method is geared towards scenarios that require effectuating recorded video into live streaming (pseudo-live) or pulling streams from third-party platforms for playback on Tencent Cloud.

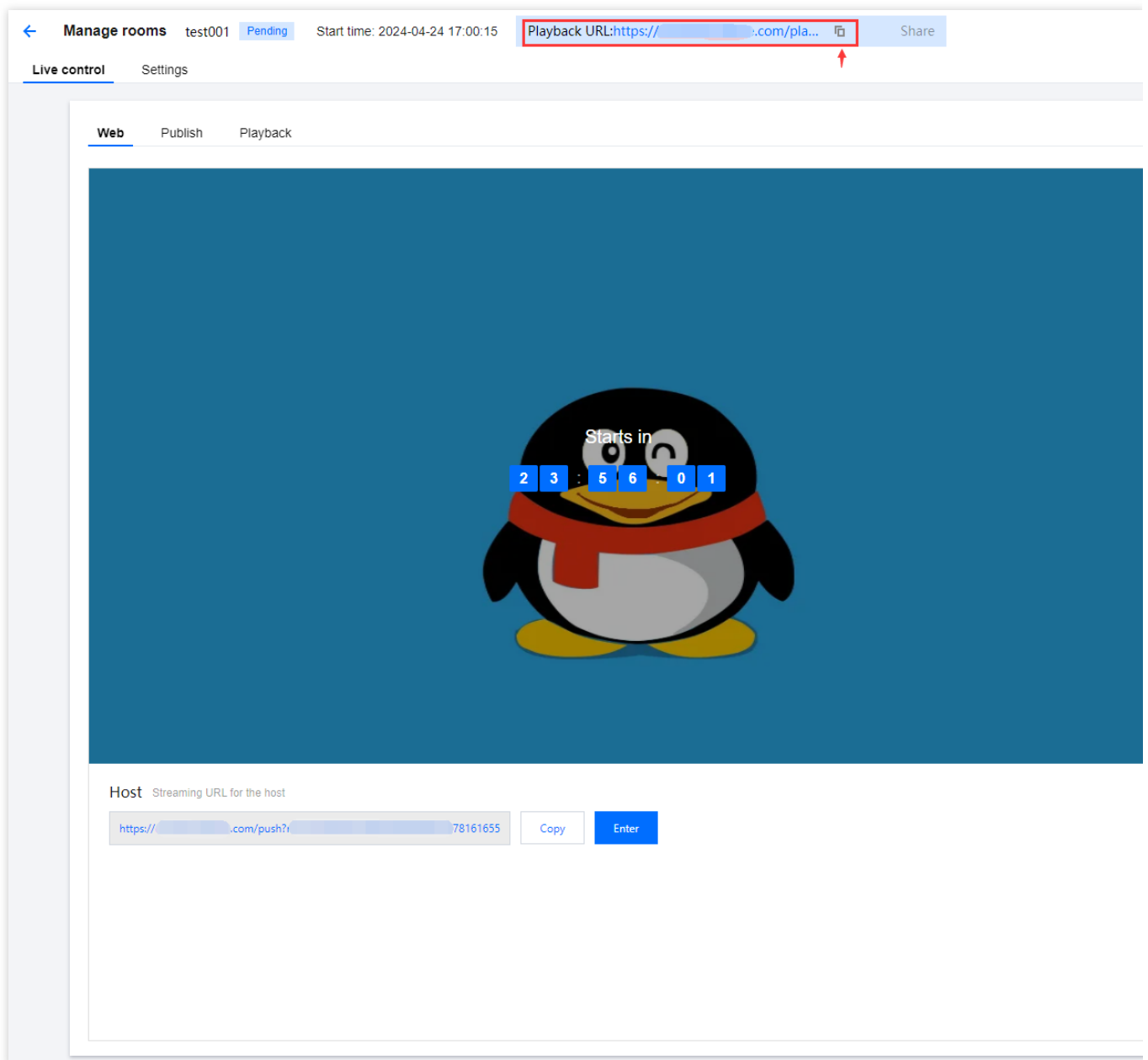
Scenario 1: Web

This scenario is mainly focused on real-time processing.

1. When you select **Web**, you can allocate the page address to the host. Click on **Copy** to replicate the address.



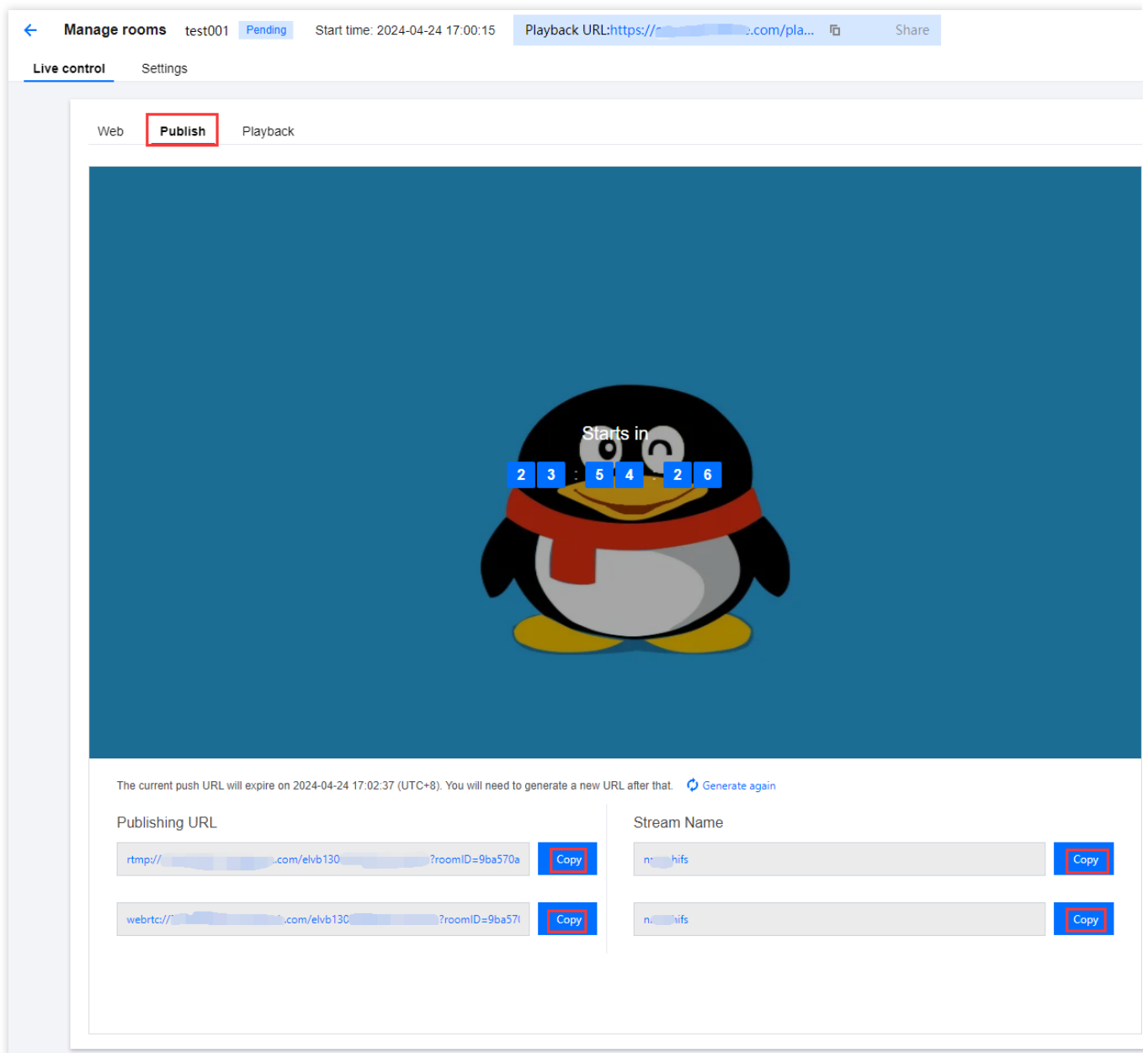
2. Copy the **Playback URL** at the top of the page or click on the copy icon to copy the URL, and then distribute the playback URL to your audience.



3. To activate the comment feature, please go to **Settings**.

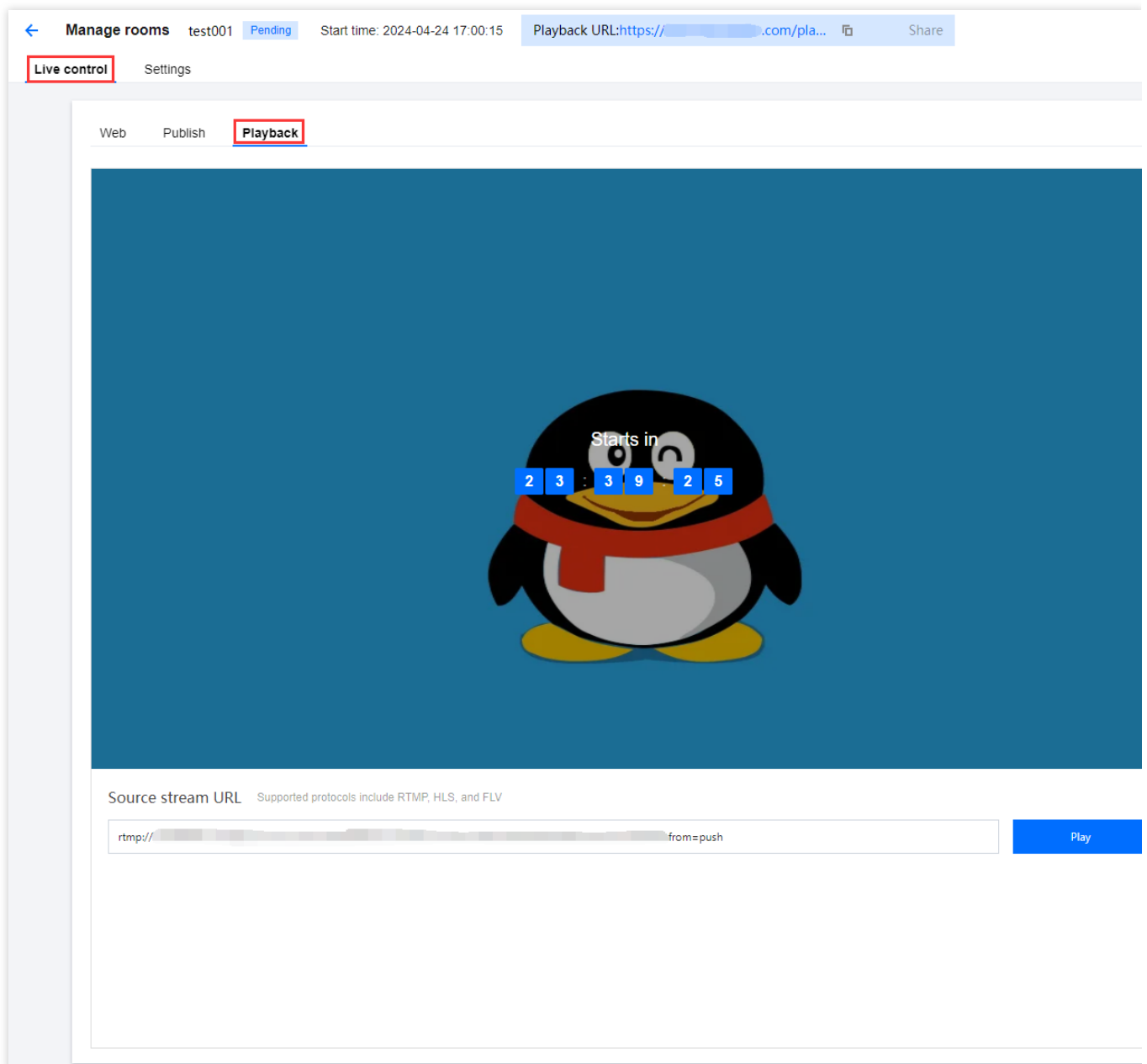
Scenario 2: Publish

1. By default, the system generates a publish URL and stream name, which can be copied to third-party publish streaming tools such as OBS for live streaming.
2. The copied publish URL and stream name can be pasted into OBS's server and stream code respectively for publishing.



Scenario 3: Playback

1. The source stream address supports live streaming playback protocols such as RTMP, HLS, and FLV, among others.
2. In the source stream address input box, you can enter the source stream address, which is equivalent to setting the content source to a live source in [Pull and Push Streaming](#). After entering the address, click **Play** on the right to pull the corresponding live stream and push it to Tencent Cloud.



Live Room Configuration

Basic settings

Log in to the CSS console, go to **CSS Toolkit** > **OOTB live** > **Manage rooms** > **Settings**.

After completing the [basic settings](#), you can adjust and modify the basic settings, including the live room name, start time, playback domain, and live streaming cover.

[←](#) **Manage rooms** test001 Pending Start time: 2024-04-24 17:00:15

Live control **Settings**


Basic settings

Room name * test001

Start Time * 2024-04-24 17:00:15

Playback Domain * .com

Thumbnails



Change

Upload a thumbnail not larger than 2 MB in JPG or PNG format (recommended size 1280 x 720px). If you don't upload an image, the default thumbnail will be used.

Feature configuration

1. Viewing Methods

1.1 The default viewing method is **Public**. However, you may opt for **Encrypted** viewing or employ an **Allowlist**.

If you opt for encrypted viewing, a password is required for viewing the live stream. This password should be between 8-14 characters in length and must not contain spaces, Chinese characters, or special symbols.

Feature configuration

Mode * ☐ Public ☒ Encrypted ☐ Allowlist

20240423

✓

Chat ☒ Disable

When the viewing method is set to **Allowlist**.

Click on **Add viewer**. In the ensuing pop-up window, you can continuously add new members as required or select and remove existing members.

Feature configuration

Mode * ☐ Public ☐ Encrypted ☒ Allowlist

[Add viewer](#) [Import via file](#) [Download template](#)

Verification info	Nickname	Op
No data yet		

Total items: 0

Chat ☐ Disable

Verification Info: Please enter the corresponding verification information, such as employee number, mobile number, and so on.

Nickname: Please set a name for the viewer. It could be the viewer's real name or a custom nickname.

Add viewer ×

Verification info

Nickname

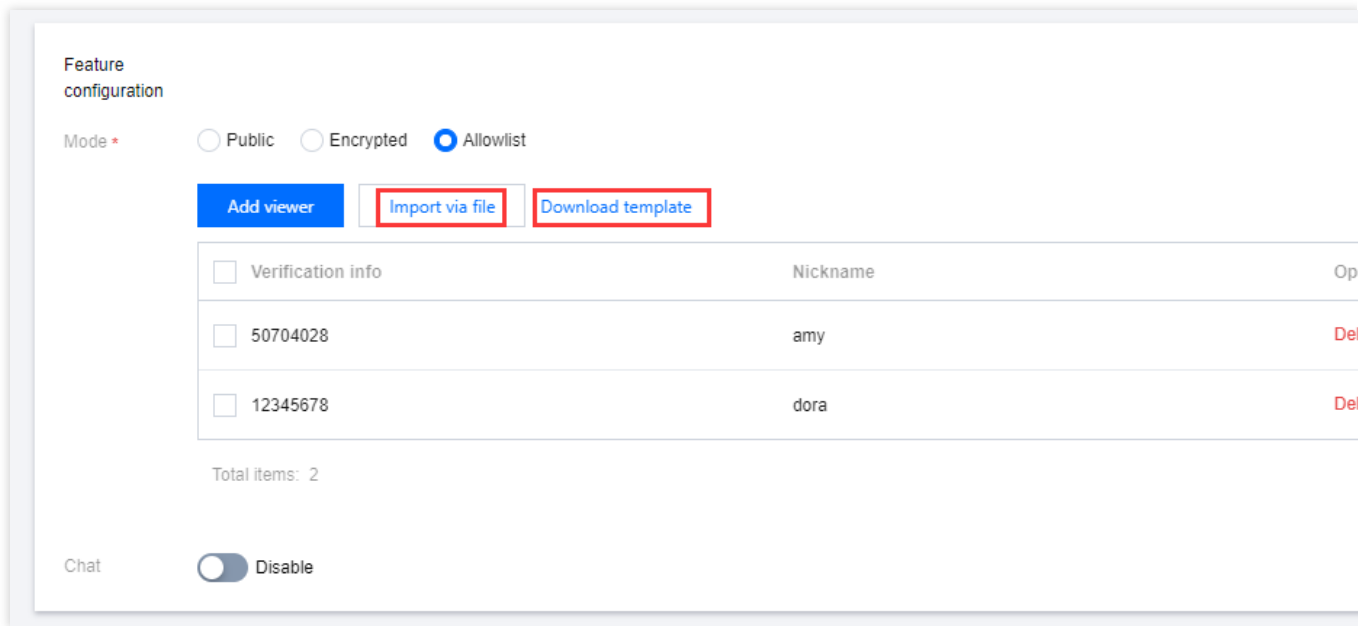
[Create](#) [Cancel](#)

Click **Create**.

Click **Import via file** to import CSV or Excel files to quickly add users allowed to view the live stream.

Click **Download template** to download the import template. Maintain the list information based on this before importing, otherwise it may lead to import anomalies.

Click **Download template** to download the imported template. Maintain the list information based on this before importing it. Otherwise, exceptions may occur during the import.



Feature configuration

Mode * ☐ Public ☐ Encrypted ☒ Allowlist

[Add viewer](#) [Import via file](#) [Download template](#)

<input type="checkbox"/>	Verification info	Nickname	Op
<input type="checkbox"/>	50704028	amy	Del
<input type="checkbox"/>	12345678	dora	Del

Total items: 2

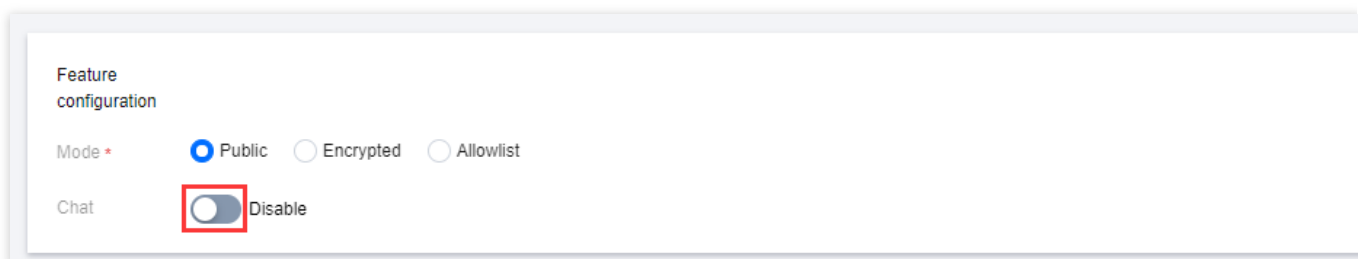
Chat ☒ Disable

2. Live Stream Interactive Comments

The live stream interactive comments feature is disabled by default. You can click



to enable this feature according to your actual business needs.



Feature configuration

Mode * ☒ Public ☐ Encrypted ☐ Allowlist

Chat ☒ Disable

Note:

Live streaming room interactive chat, on-screen comments, and other interactive features are provided by [Tencent Cloud IM](#). The default application is in the development version (the application name starts with "elvb_"), which is valid for one month. After expiration, you can go to the [IM console](#) to renew or upgrade the version at any time, according to subsequent business needs.

Organization/Enterprise info

The operational configuration information is **disabled** by default. You can click



to activate it according to your actual business needs.

Organization/Enterprise info




Name	<input type="checkbox"/>	Do not show
Logo	<input type="checkbox"/>	Do not show
Contact	<input type="checkbox"/>	Do not show

Name: Please enter the name of the organization or enterprise, no more than 60 characters.

Logo: Click **Upload** to set an organization or enterprise's logo. We recommend a JPG or PNG image with the resolution of 1280*720px, of 2 M or smaller.

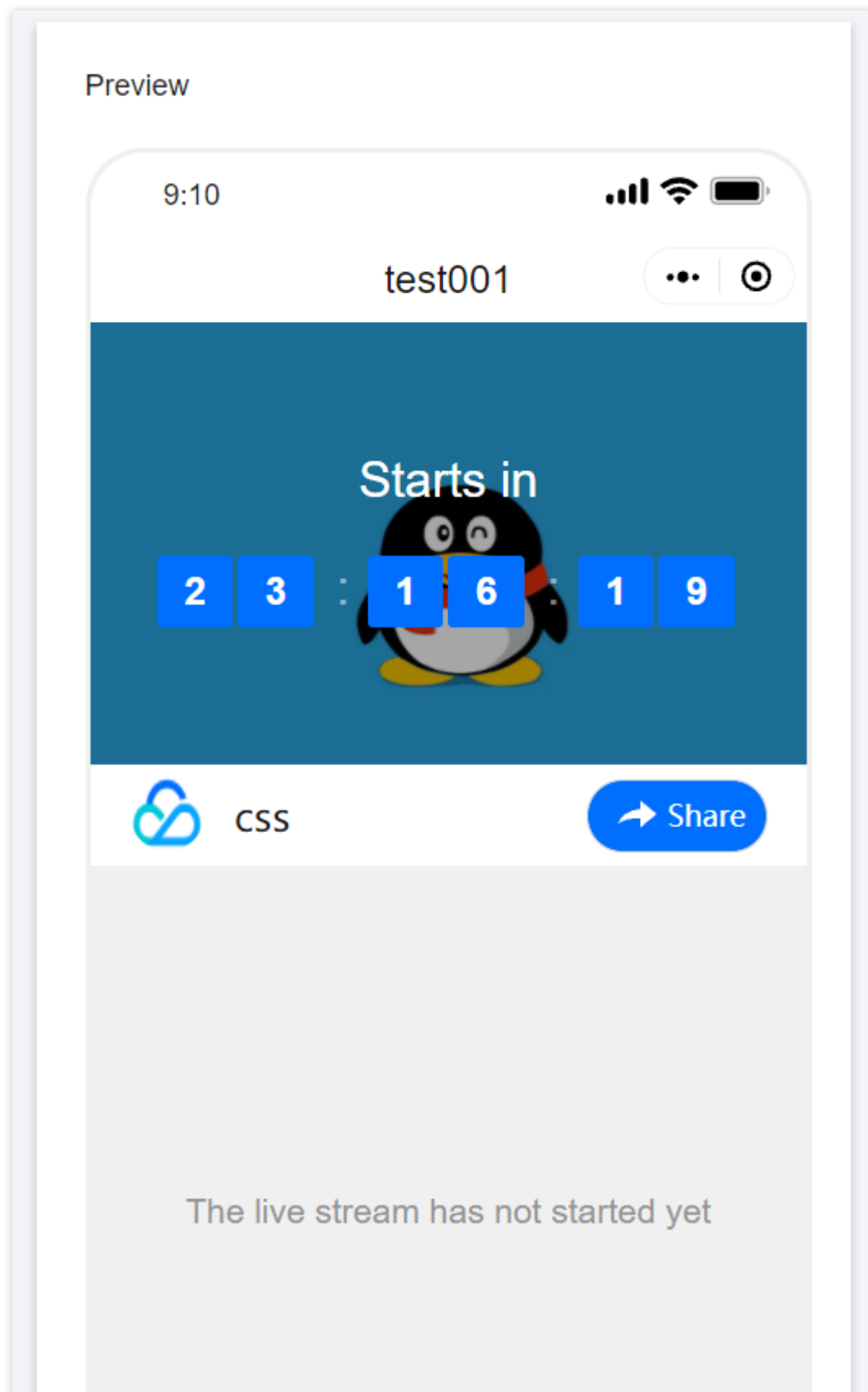
Contact: Click **Upload** to set a QR code for the audience. When an audience clicks **Contact us**, this QR code will pop up on the interface.

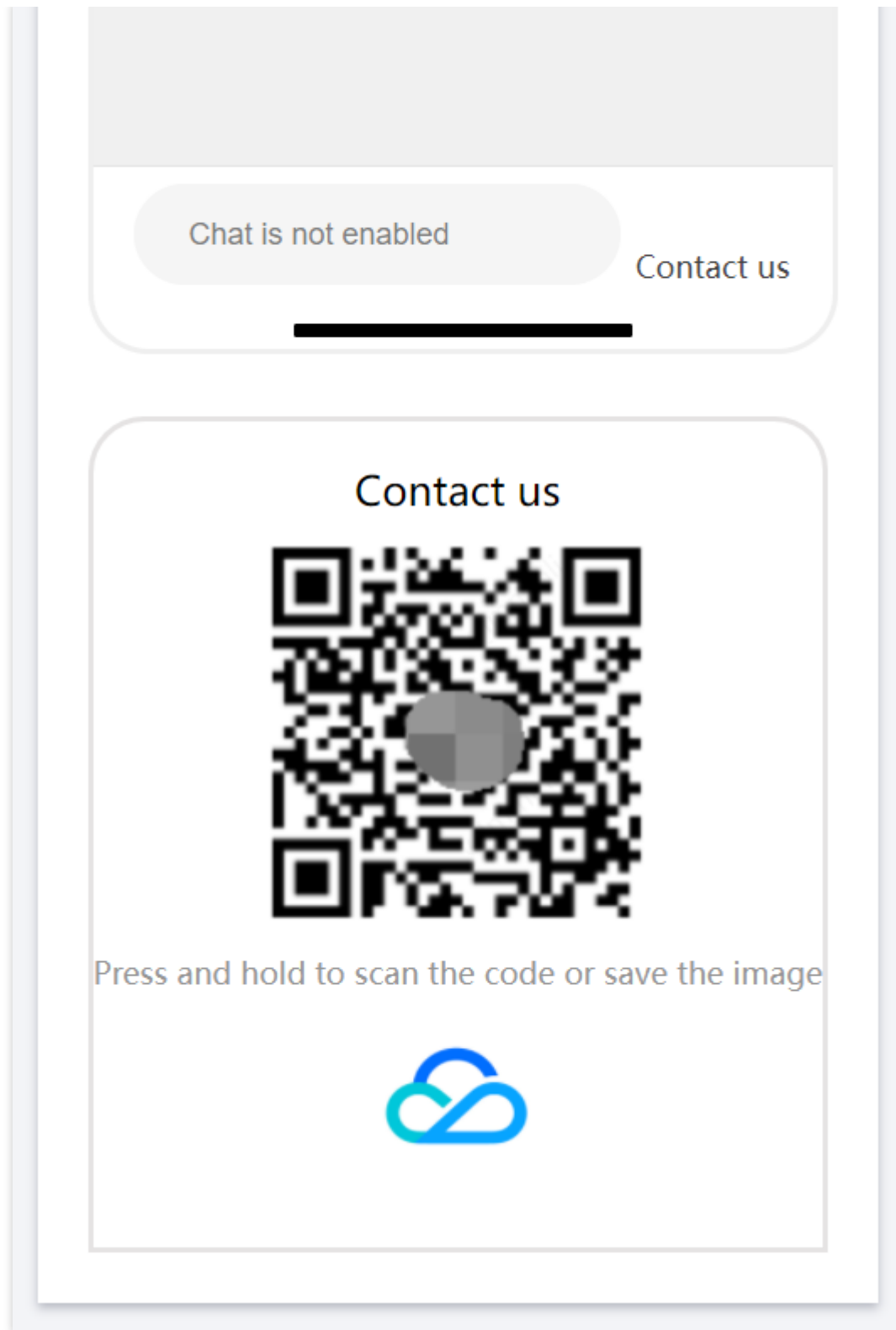
Organization/Enterprise info

Name	<input checked="" type="checkbox"/> Show	<input type="text" value="css"/> 
Logo	<input checked="" type="checkbox"/> Show	<div><div>File size33K Upload Time2024-04-23 17:41:52</div><div>Upload</div></div> <p>Upload an image not larger than 2 MB in JPG or PNG format (recommended size 1280 x 720 px)</p>
Contact	<input checked="" type="checkbox"/> Show	<div><div>File size70K Upload Time2024-04-23 17:42:15</div><div>Upload</div></div> <p>Upload a QR code image. It will be shown when the audience clicks "Contact us".</p>

Configuration Preview

1. When modifying relevant live room configurations, you can instantly view the effects **through Configuration Preview** on the right.





2. After confirming the preview, click **Save**, and commence the live streaming as needed.

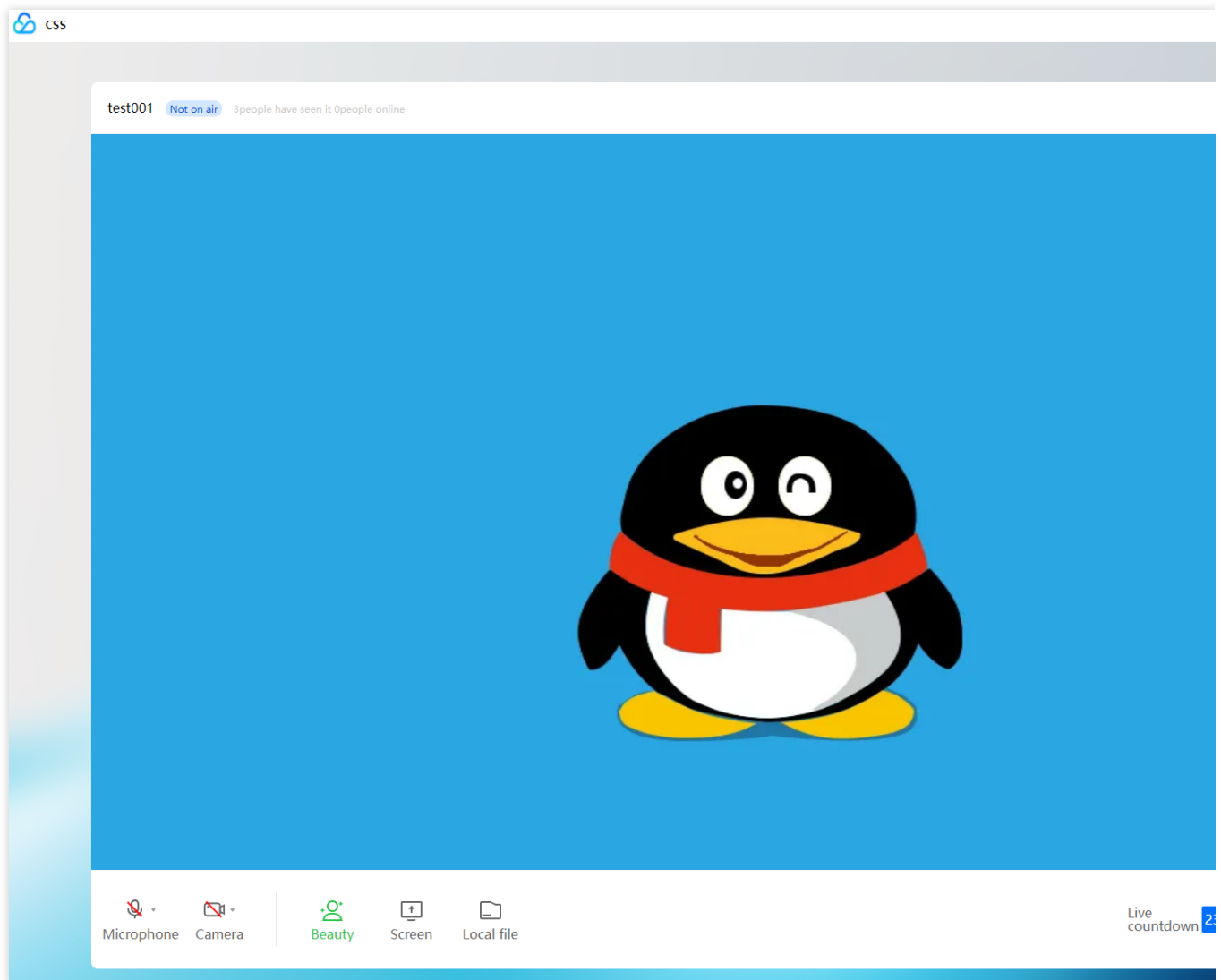
Note:

The configuration will take approximately one minute to take effect after it has been completed.

Host Side

When the Host Is Not Live

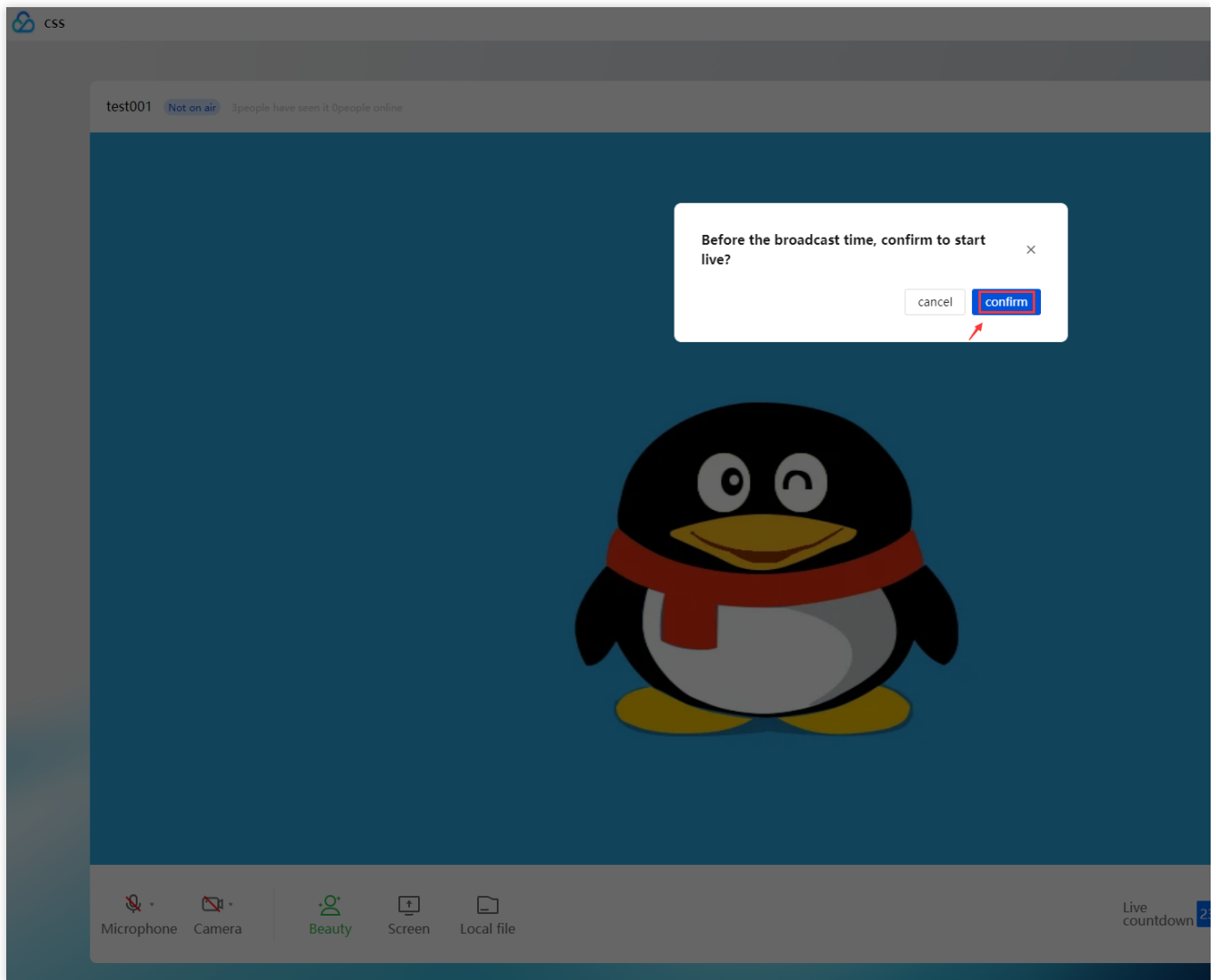
1. Even if the live streaming start time has not yet arrived, you can start your live stream in advance. Just click on **Go live** at the bottom-right corner.



Note:

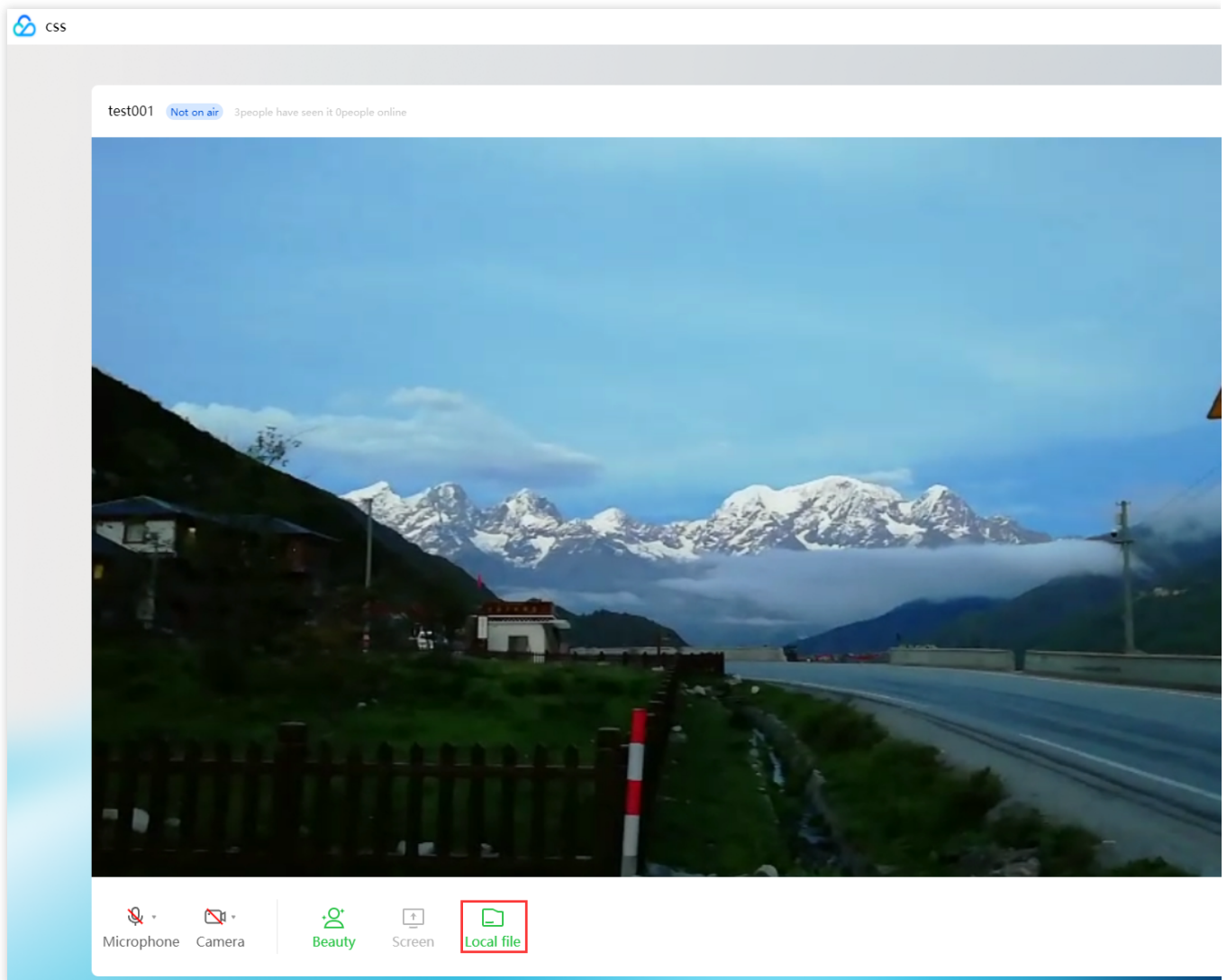
The live streaming countdown refers to the time difference between the start time of the live stream and the current time.

2. To confirm that you want to start the live stream in advance, click **confirm** in the prompt box and commence the live stream.



During the Host's Live Stream

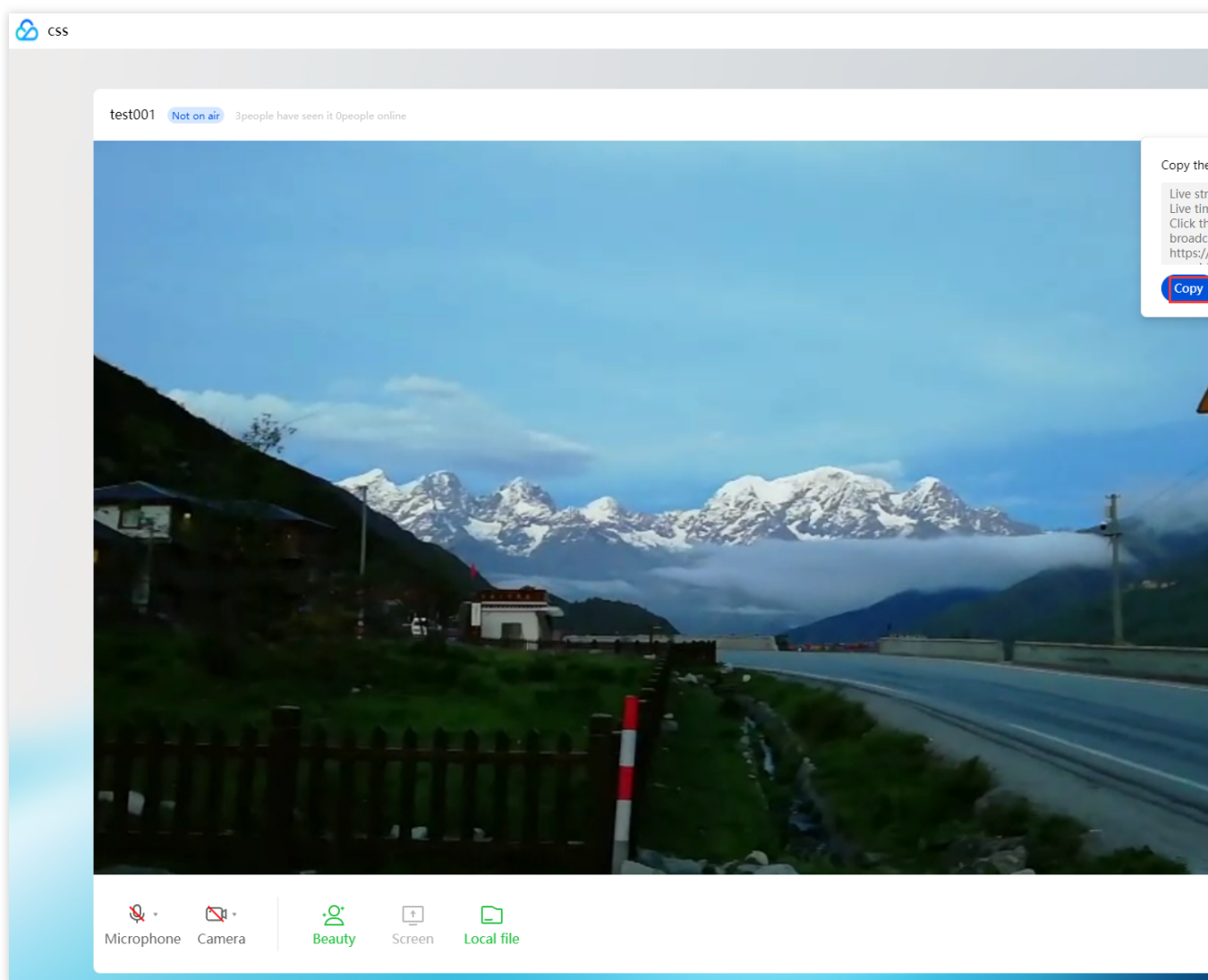
1. When the web platform is used to conduct a live stream, the WebRTC stream publishing protocol is employed (it is the only protocol supported on the web platform).
2. You can conduct live streaming through a camera, screen sharing, local files, and so on. Click the **Go live** button and the system will commence streaming. Here's an example of how to live stream through uploading a video from local files:
 - 2.1 On the webpage, select **Local file** and choose the video file you want to upload. After the video is uploaded, click **Go live** to commence the live streaming. It's advised to perform a test in advance to ensure that the live room's settings and video quality meet your requirements.



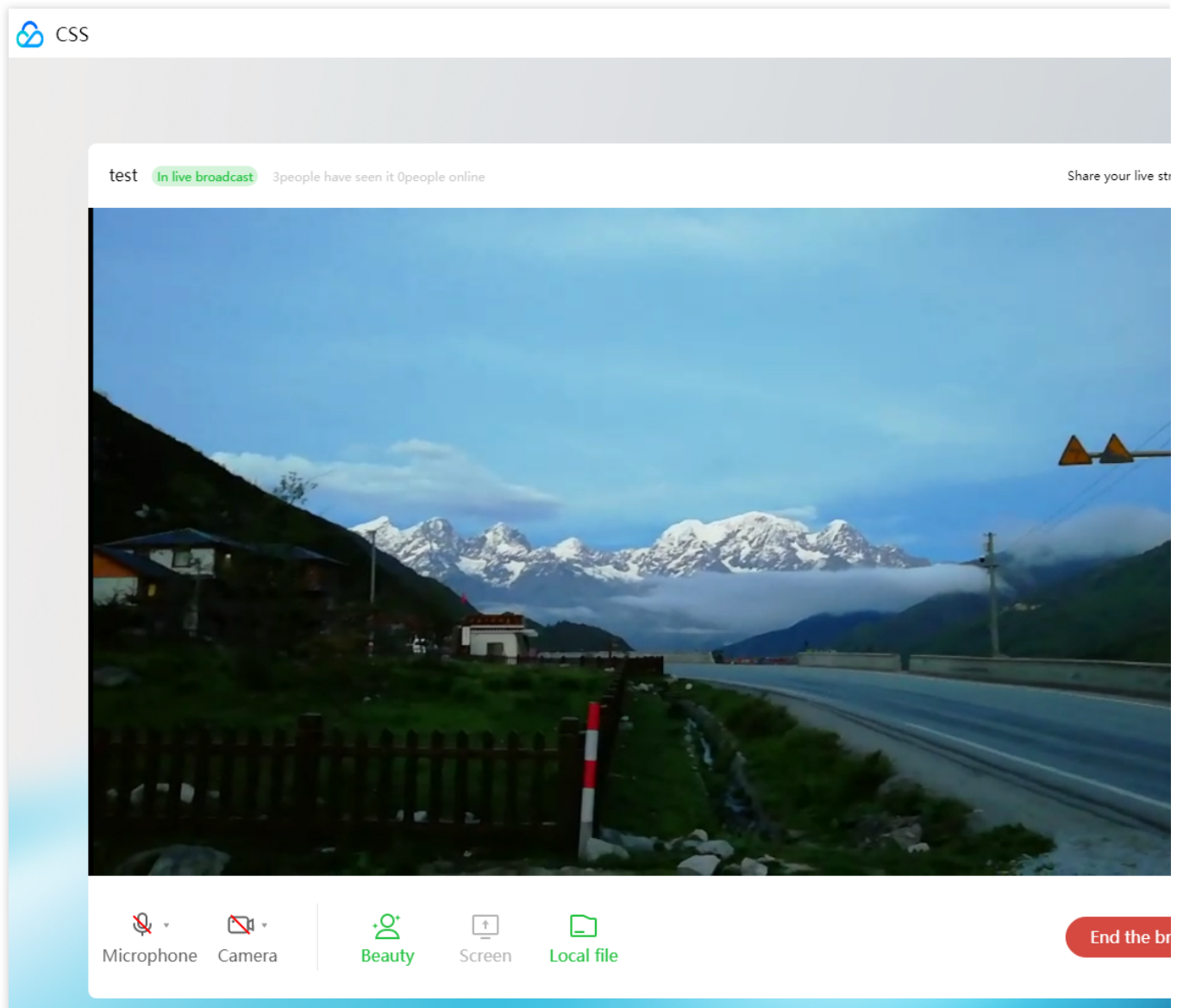
2.2 The host can click the



button in the top-right corner, click **Copy** (the live room's name, time, and URL) or **Download code**, and forward it to viewers. The shared link corresponds to the live stream room. The audience can watch the live stream by scanning the QR code shared by the host or visiting the link.



2.3 Once the official live stream concludes, the host can click **End the broadcast** to cease the live streaming.

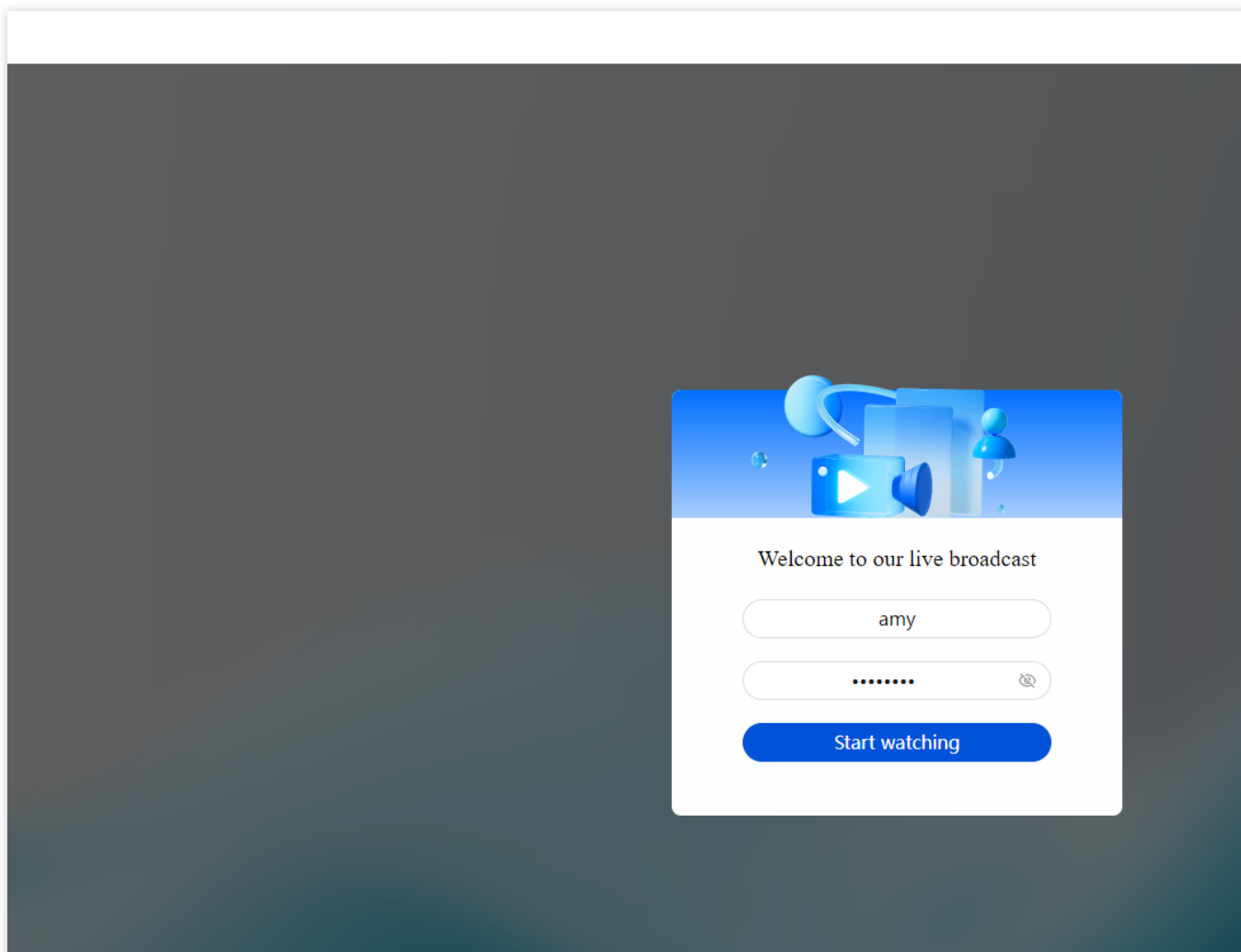
**Note:**

If the live room is deleted during the live streaming, the ongoing live streaming will not be interrupted.

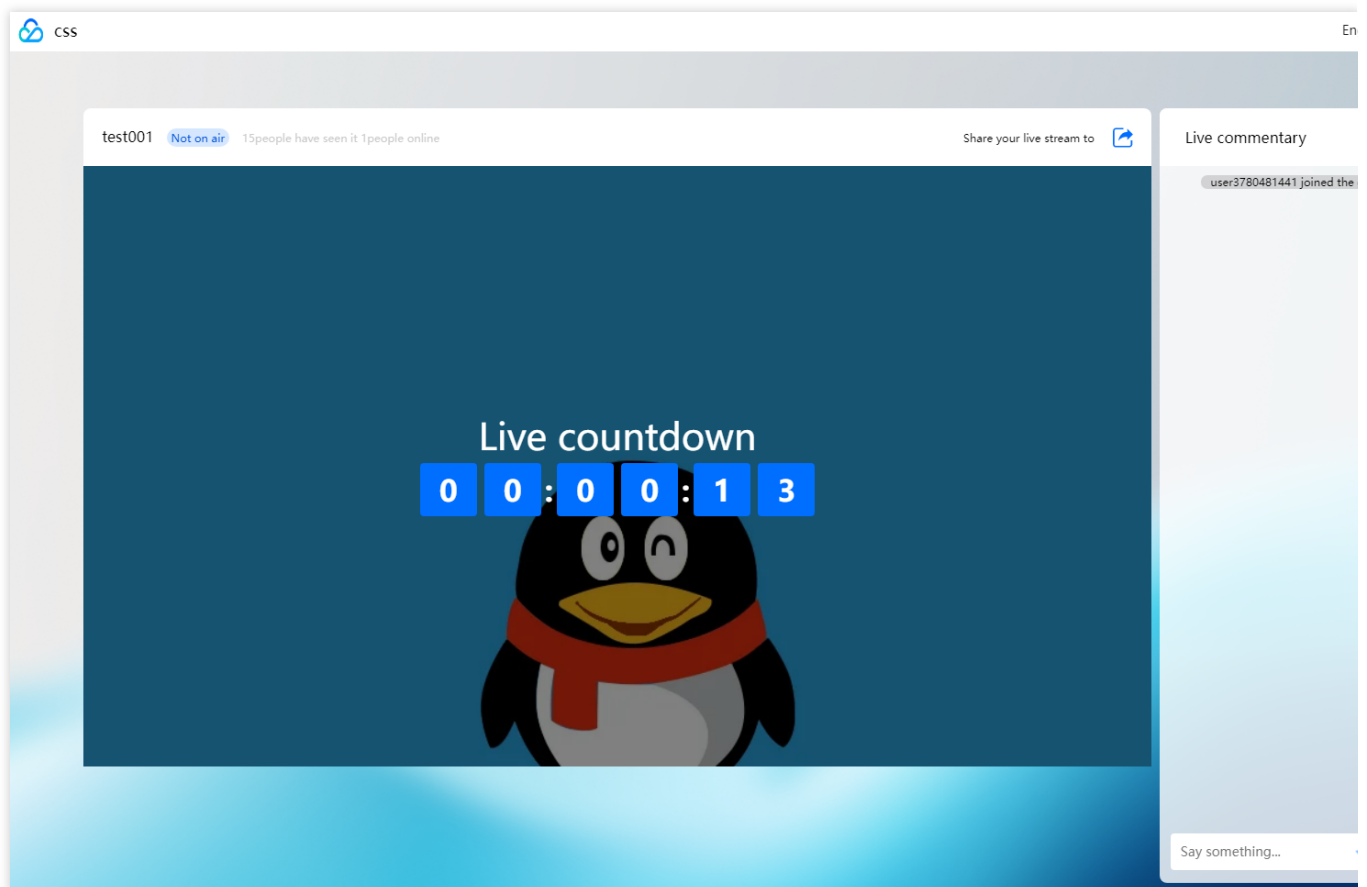
Audience Side

When the Host Is Not Live

1. After visiting the viewing link shared by the host or management side, the audience can, by default, directly open and watch the live streaming. Should the host implement **Encrypted** or **Allowlist** viewing methods, the audience is required to enter verification information (nickname and password) in the pop-up verification bar. Only after successful verification can they proceed to open the live room.

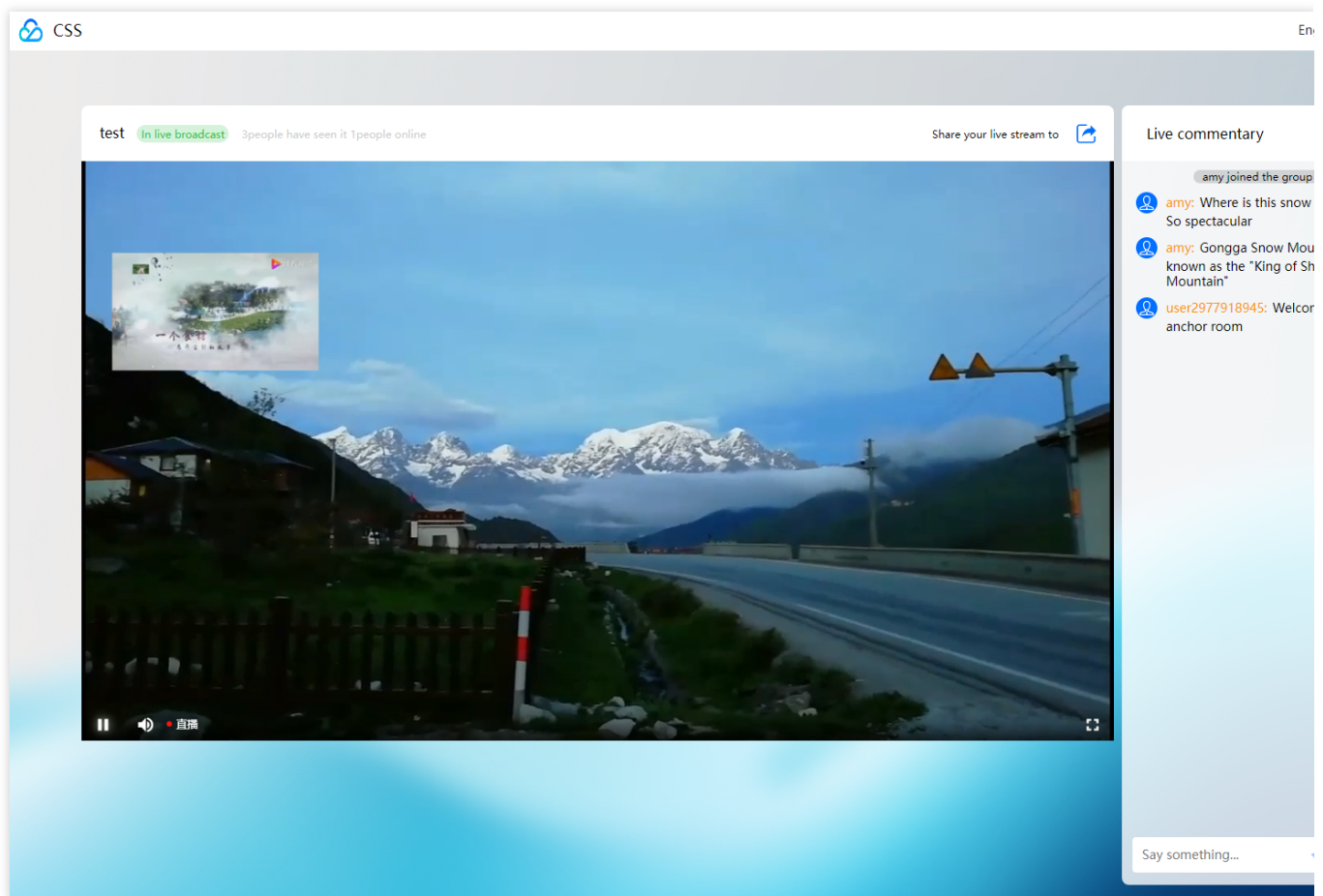


2. When the host is not live, audience entering the live room can see the countdown timer to the live streaming, for them to know the start time of the live streaming.



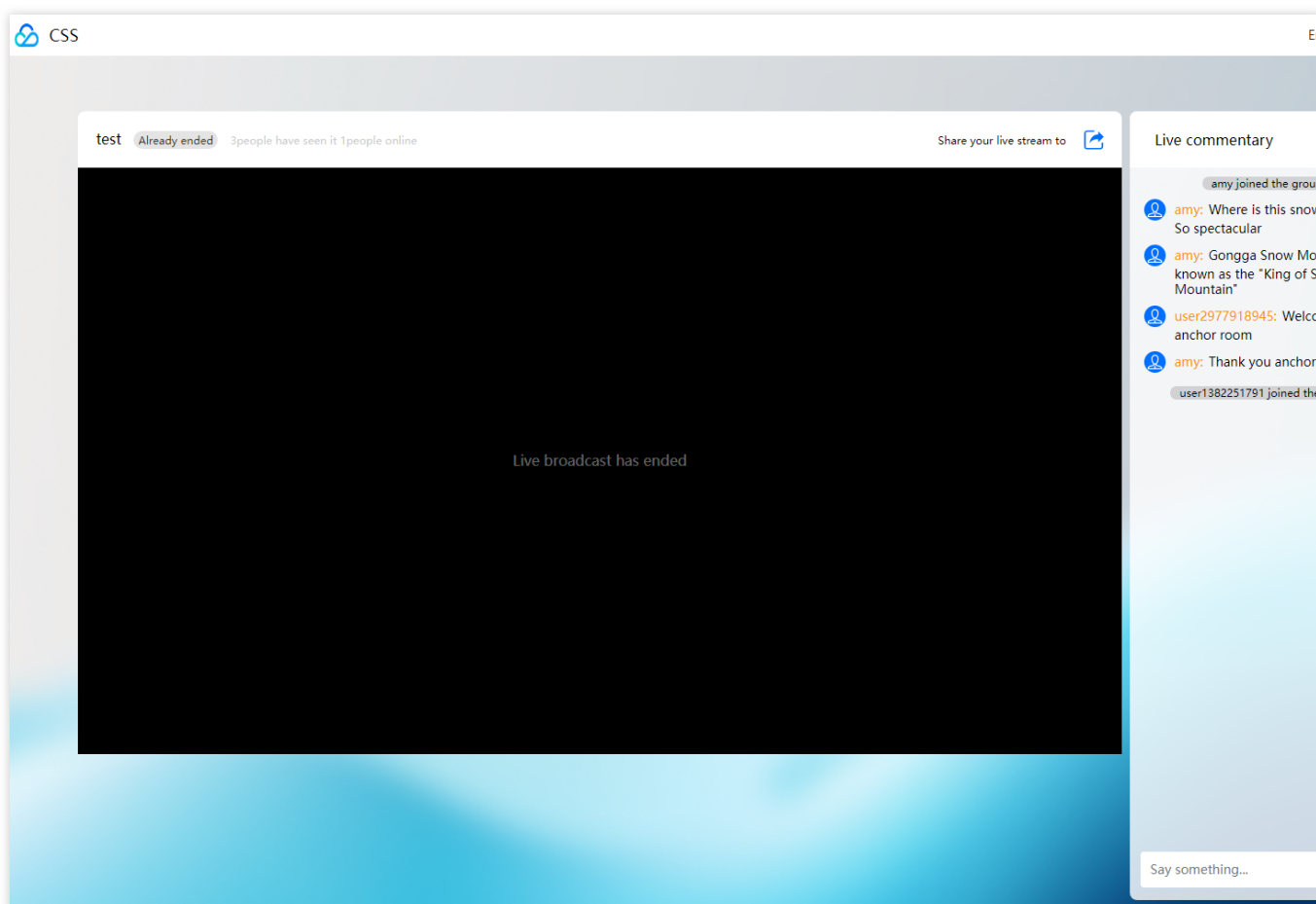
During the Host's Live Stream

After entering the live room, audience can watch the live stream, view and post comments.



End of Live Stream

The live room can still be opened, and the viewers can continue to view and post comments.



CAM-Based Access Control

Last updated : 2023-10-07 14:53:42

CSS supports permission control via CAM, allowing you to manage access to your CSS domains, settings, and other data. You can create, manage, or terminate users or user groups and grant API access permissions to them to achieve identity management and policy control.

You can use CAM to bind a user or user group to a policy which allows or denies them access to specified resources to complete specified tasks.

Concepts

Root account: A Tencent Cloud account

Sub-user: A user created and fully owned by a root account.

Collaborator: You can add another root account as a collaborator to your account. The added account becomes a sub-account of your account.

User group: Users that perform the same functions and can be bound with a permission policy for centralized access management.

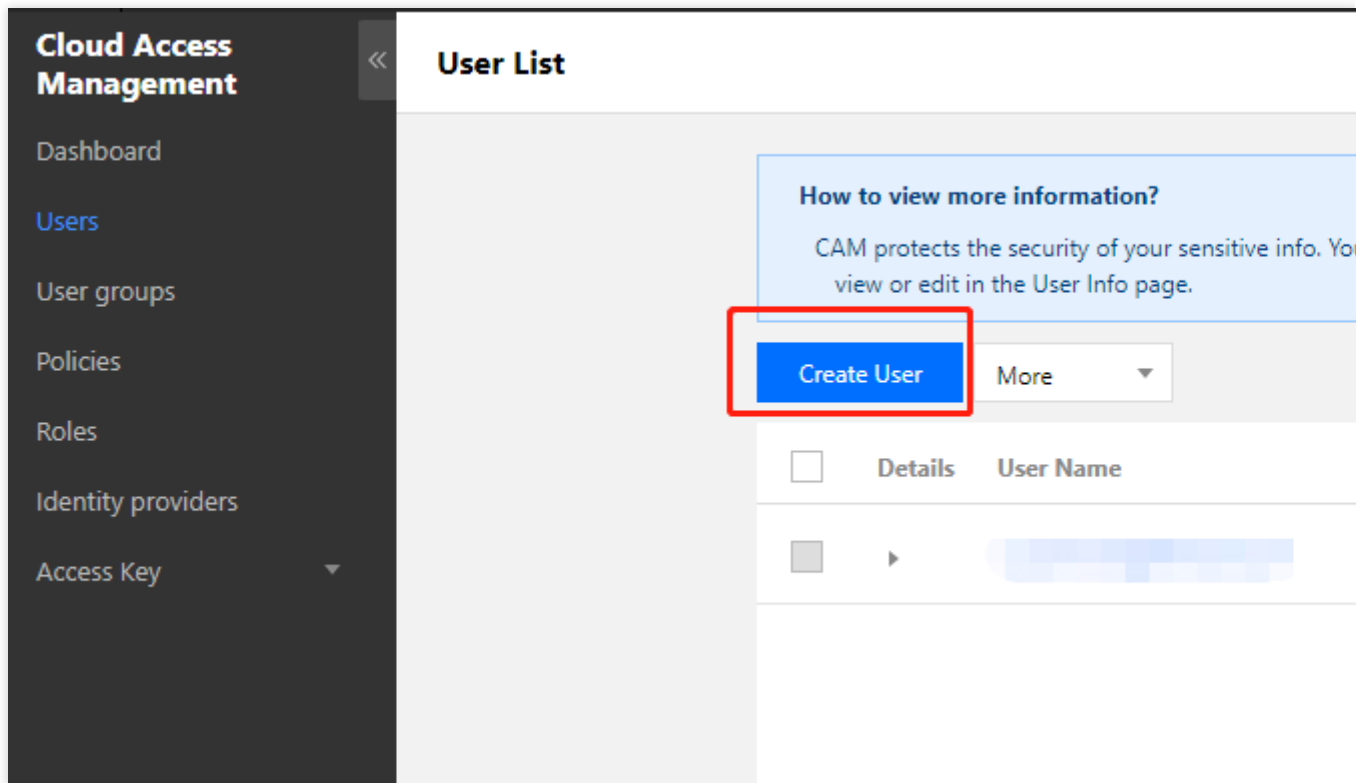
Note

For more information on the concepts and permissions, see [User Types](#).

Directions

Step 1. Create a sub-user or user group

One or more sub-users can be created under each root account and can be associated with specific roles and policies. A sub-user has a unique ID and identity credential that can be used to log in to the Tencent Cloud console. It also has API access. You can log in to the [CAM console](#) to create a sub-user.

**Note**

For detailed directions, see [Creating Sub-user](#) and [Creating User Group](#).

Step 2. Add a policy to the sub-user or user group

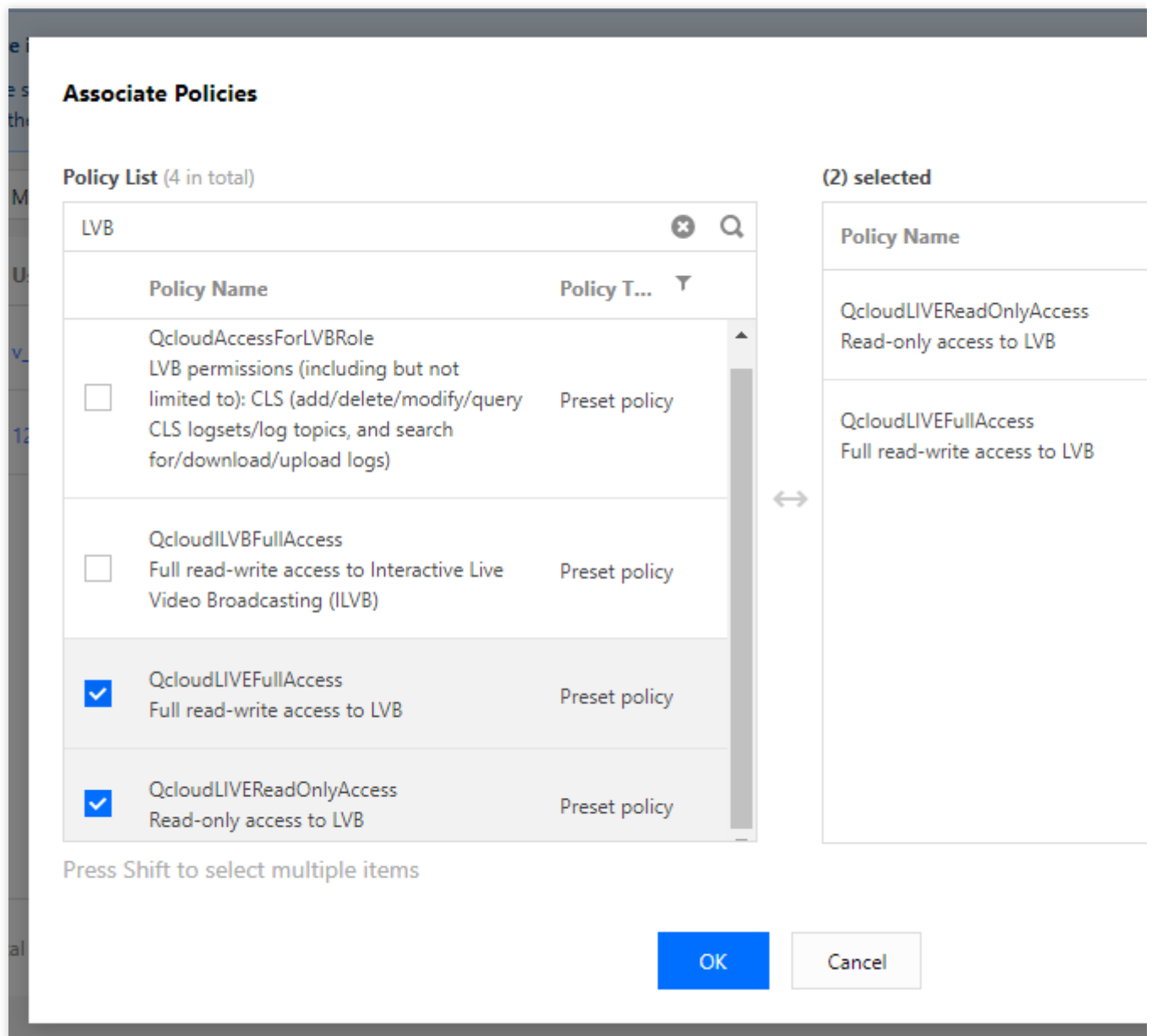
You can associate policies on the user/user group management page or policy management page. For detailed directions, see [Authorization Management](#).

Method 1. Add a policy to a sub-user or user group

Method 2. Associate a policy with a user/user group

Go to the user/user group page and select the user/user group to which you want to add a policy.

Select **Users > User List** or **User Groups** on the left sidebar of the CAM console. Find the user/user group to which you want to add a policy, click **Authorize** on the right, select a CSS policy, and click **OK**.



Select **Users > User List** or **User Groups** on the left sidebar and click the name of the user/user group to which you want to add a policy. Click **Associate Policy**, select a CSS policy, and click **OK**.


Add to Group

Select User Groups (1 Total)


(1) selected

Support search by user group name

☒ User Groups

☒ 

User Groups

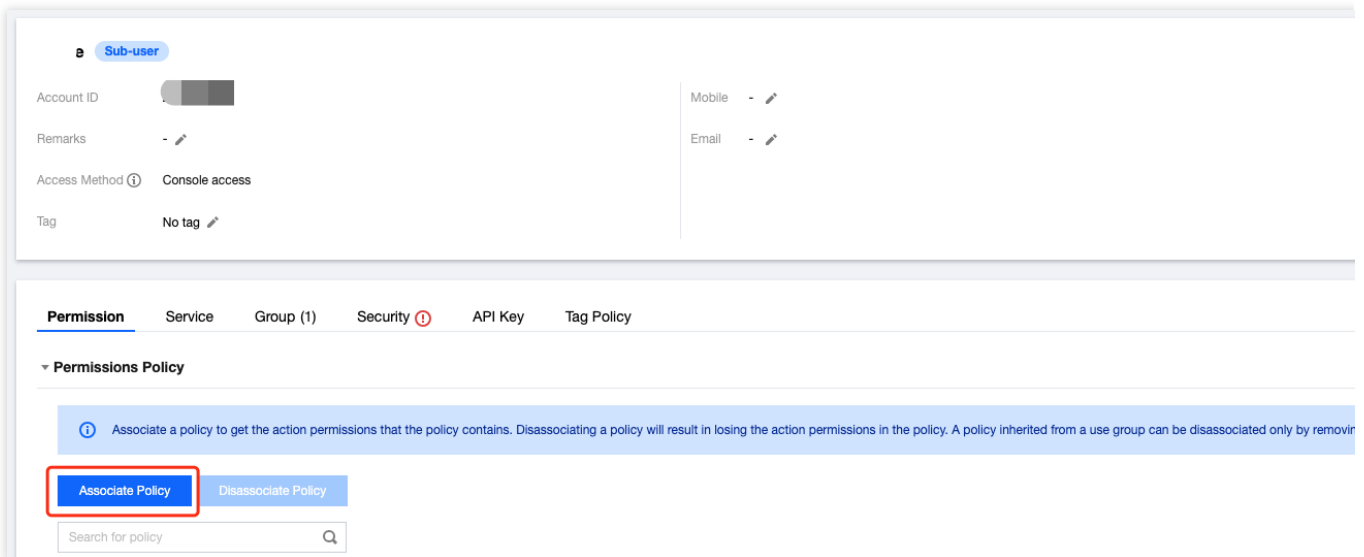




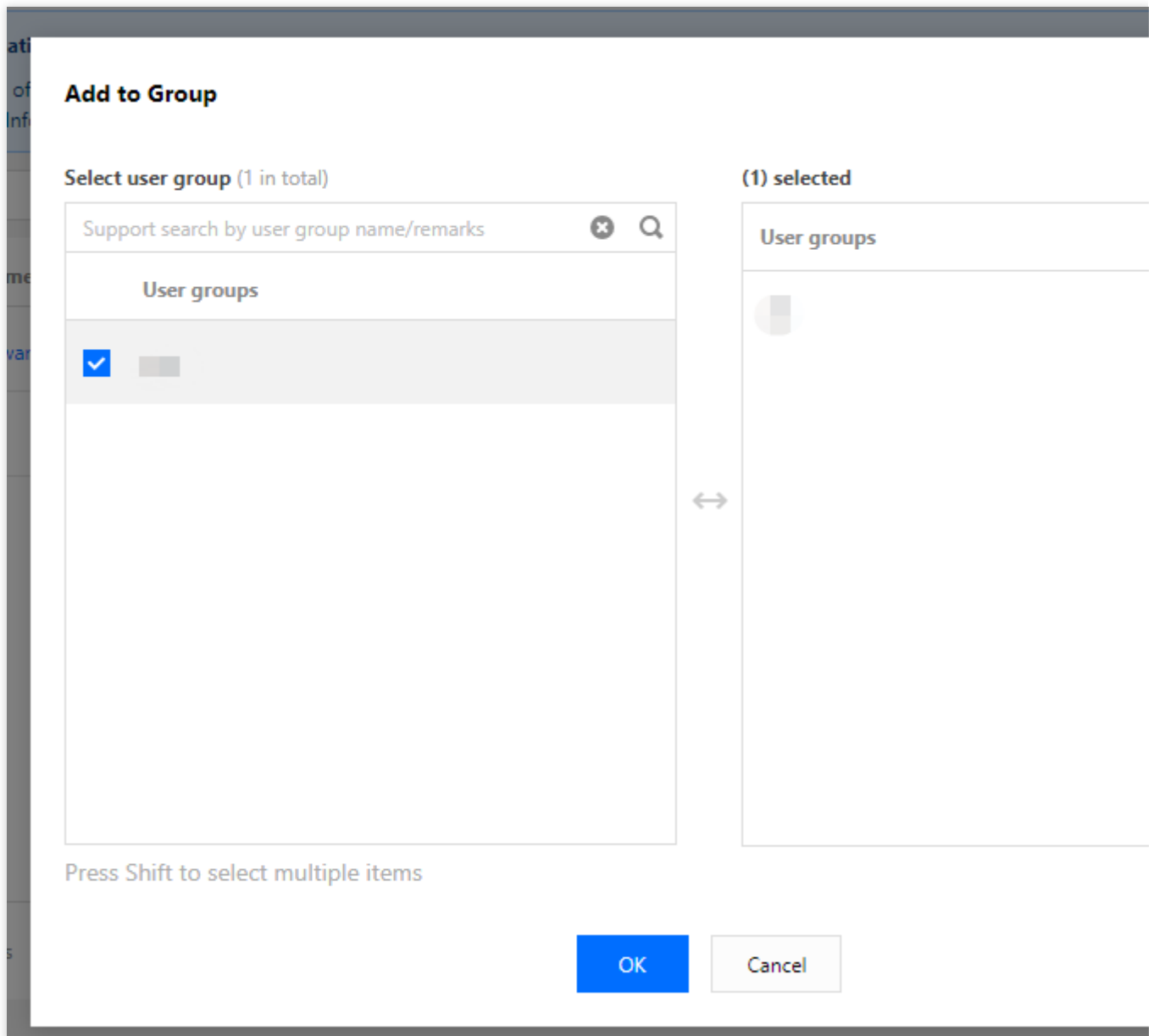
Press Shift to select multiple items

Confirm

Cancel



Select **Policies** on the left sidebar of the CAM console, find the policy you want to associate, and click **Associate User/User Group/Role** in the **Operation** column. Select the user/user group you want to associate the policy with, and click **OK**.



Addable policies

Preset policies: You can view all preset policies on the **Policies** page.

CSS preset policies include [QcloudLIVEFullAccess](#) (read and write policy) and [QcloudLIVEReadOnlyAccess](#) (read-only policy).

For a user to use tags, you need to associate [QcloudTAGFullAccess](#) (full read and write access by tag).

For a user to use real-time logs, associate [QcloudCamFullAccess](#) (full read/write access to CAM).

To use the screenshot & porn detection feature, associate [QcloudAccessFoLVBRoleInSaveLiveScreenshottoCOS](#) with your CSS service role to grant it access to COS.

Custom policy: Go to the **Policies** page, click **Create Custom Policy**, and select **Create by Policy Generator**.

For more information, see [Custom Policy](#).

Note

Currently, some APIs of CSS support resource-level authorization.

Example: If you want to allow a sub-user to use the **DescribeLiveDomains** API, follow the steps below to grant the permission.

1.1 Create a domain-level policy that allows access to the API: Go to the **Create by Policy Generator** page and complete the following settings:

Item	Required	Setting
Effect	Yes	Select Allow
Service	Yes	Select Cloud Streaming Services
Action	Yes	Select DescribeLiveDomains
Resource	Yes	Select all resources or specific resources. Tencent Cloud services for which the authorization granularity is operation or service don't support six-segment resource descriptions; for them, select "All resources". For Tencent Cloud services that support resource-level authorization, you can select specific resources. For the resource description method and authorization granularity of Tencent Cloud services, see CAM-Enabled Products .
Condition	No	Set the condition for the authorization to take effect. If you enter IP addresses, the API will be accessible only if a request is from the specified IP range. You can also add other conditions. For more information, see Conditions .

1 Edit Policy > 2 Associate User/User Group/Role

Visual Policy Generator

JSON

▼ Cloud Streaming Services(1 actions)

Effect *	<input checked="" type="radio"/> Allow <input type="radio"/> Deny
Service *	Cloud Streaming Services (live)
Action *	<div>Read Edit</div> <div>DescribeLiveDomains</div> <div>Query domain name information</div>
Resource *	All resources (*)
Condition	<div><input checked="" type="checkbox"/> Source IP ⓘ</div> <div>Please enter the IP (or IP range), e.g., 210.75.12.75/16. Press "Enter" to cor</div> <div>Add other conditions</div>

+ Add Permissions

Next

Characters: 206(up to 6,144)

Caution

If you want to authorize multiple services, click **Add Permissions**.

2. Click **Next** to generate the policy. Then, associate it using either of the two methods above.

✓ Edit Policy

>

2 Associate User/User Group/Role

Basic Info

Policy Name *

After the policy is created, its name cannot be modified.

Description

Please enter the policy description

Associate User/User Group/Role

Authorized Users

Select Users

Authorized User Groups

Select User Groups

Grant Permission to Role

Select role

Previous

Complete

Step 3. Use a sub-account

You can now use the sub-user's account (the account ID and password) to call the API authorized (such as `DescribeLiveDomains`) and get the corresponding CSS data (such as all the domains under the current account).