

# Audio and video Terminal Engine Console Guide



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# Console Guide

## Console Introduction

Last updated: 2025-03-17 15:15:08

To provide users with a better experience of the related features of RT-Cube (Tencent Cloud RT-Cube), the RT-Cube console offers **Project Management**, **New Mic Connection Management** and **Playback Quality Monitoring**.

### Project Management

Project Management allows you to quickly and easily integrate audio/video call capabilities and multi-person audio/video interaction capabilities into your application by creating a project and claiming a trial version resource for free. For more information, see [Project Management](#).

By default, a new project is a trial version. After you create and claim relevant resources, you can experience the 7-day free trial service. If you need to formally develop and launch an audio/video application, just download, integrate and test the development package after creating a new project, referring to [Integration Guide](#), and upgrade your service by purchasing an audio/video call package.

### Mic Connection Management

Mic Connection Management feature allows you to quickly run through the MLVB-API-Example Demo with simple configuration, experience the new mic connection solution, comprehensively manage mic connection applications, view real-time usage statistics related to mic connection applications, and assist users in quickly generating TRTC push/pull stream addresses and CDN playback URLs for the new mic connection solution.

Tencent Cloud RT-Cube integrates multiple features of the new Mic Connection Management into one console, making it convenient for users to use quickly and meet the implementation of usage scenarios. It is specifically divided into four functional pages: [Quick and Easy to Use](#), [Mic Connection Application](#), [Usage Statistics](#), and [Address Generator](#).

### Monitoring Playback Quality

Playback Quality Monitoring provides data statistics, quality monitoring and visual analysis services for the entire VOD playback link. It supports real-time data reporting, data aggregation, multi-dimensional filtering and refined targeted analysis, which can help enterprises monitor the overall operation status in real time, understand user habits and behavior characteristics, and effectively guide operational decision-making and drive business growth. For more information, see [Playback Quality Monitoring](#).

# Project Management

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

The audio and video terminal SDK (Tencent Cloud Video Cube) console provides project management features. You can follow the steps below to quickly add audio and video call capabilities and multi-person audio and video interaction capabilities to your application.

If you need to formally develop and launch an audio and video application, after completion of creation, refer to [Integration Guide](#) for development kit download, integration and test, and purchase audio and video call package/multi-person audio and video room package upgrade service. For details, see [Formal Development](#).

## Prerequisites

Before using the audio and video call SDK and multi-person audio-video room SDK, please first [sign up for a Tencent Cloud account](#) and complete [identity verification](#).

## Creating a Project

Log in to [Tencent Cloud Vision Cube Console > Project Management](#). We provide a complete experience process and a quick start process for creating a project:

### Note:

After creating a new project and binding/creating an application, you can claim a trial version to experience the audio and video call capability for free. The valid period is 7 days and it supports 1 renewal (7 days). Each application can claim 1 qualification for experience. The total number of experiences for all applications under one account is 10 times.

### Full Experience

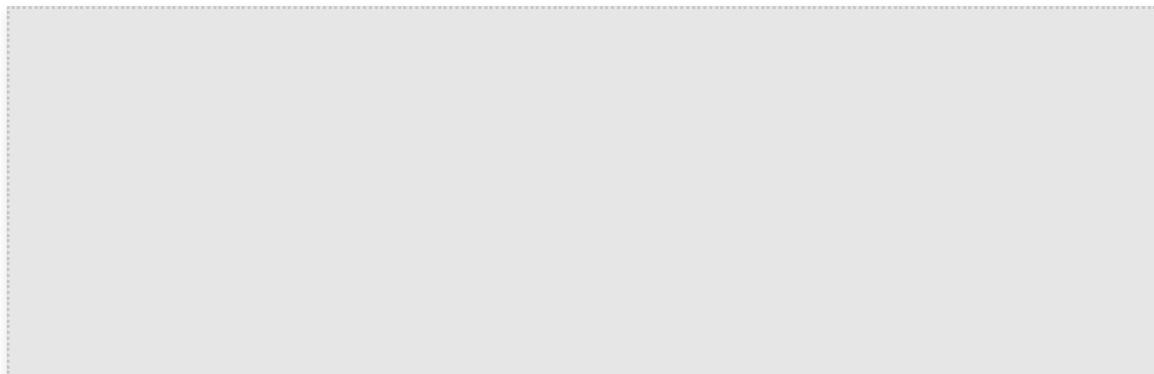
#### 1. Create a project, select the type and scenario, and activate relevant services.

##### 1.1 Click create project to start creation.

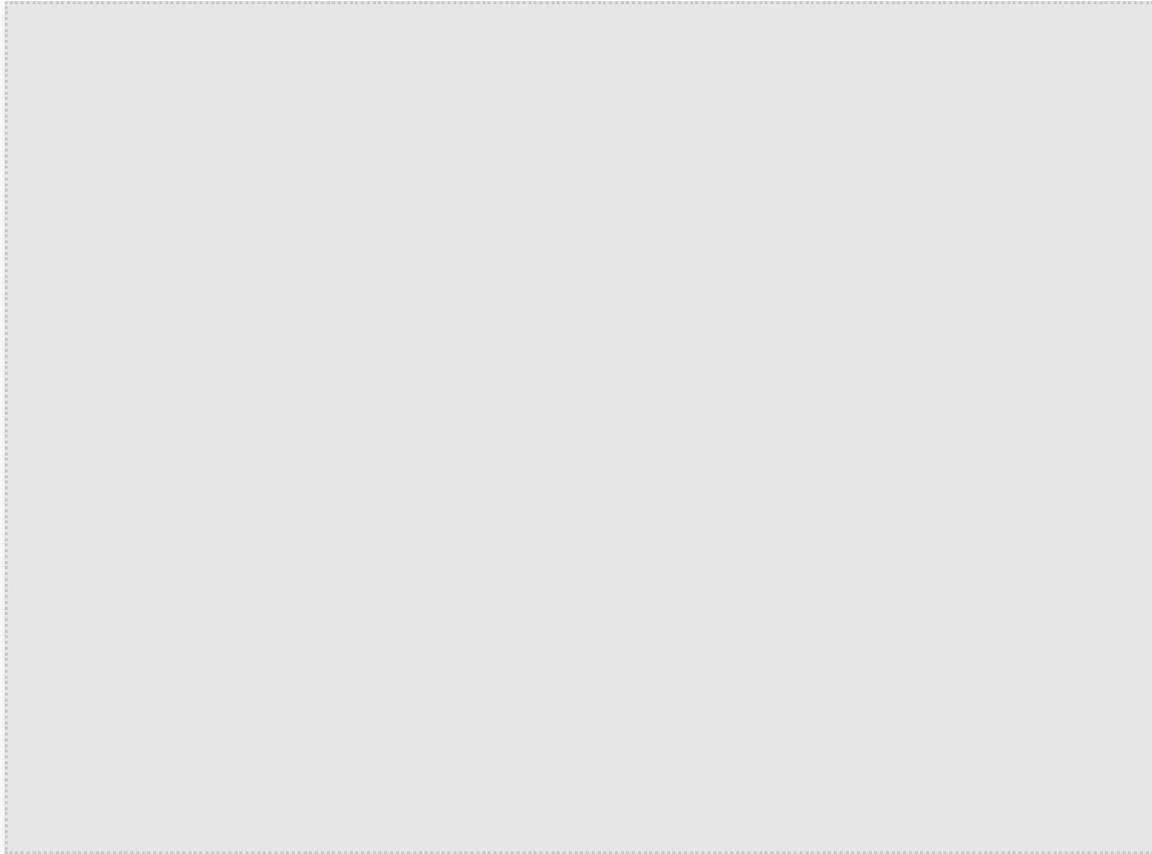


The screenshot shows the 'Project Management' (项目管理) interface. On the left is a navigation menu with 'Project Management' (项目管理) selected. The main content area has a 'About Project Management' (关于项目管理) section with several bullet points. Below this is a 'Create Project' (创建项目) button, which is highlighted with a red box, and a 'Get Trial Resources' (领取体验资源) button. At the bottom, there is a table with columns for Name, Scenario, Access Method, Service Version, Creation Time, and Actions. The table is currently empty, showing 'No data' (暂无数据) and '0 items' (共 0 条).

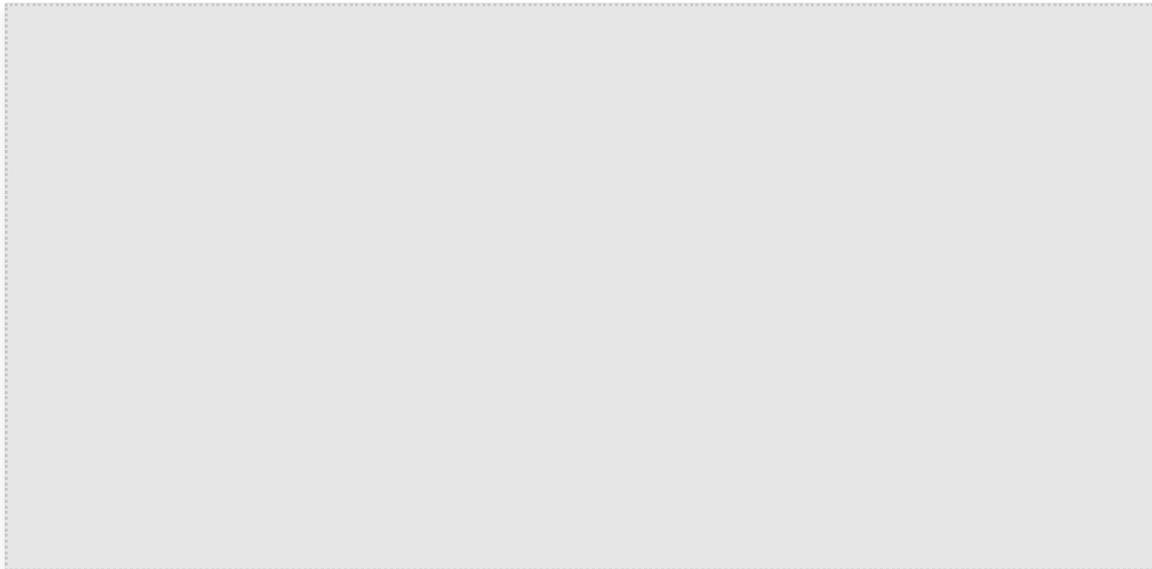
##### 1.2 Select project type. You can choose **create new project** and enter the project name, or **associate with an existing project**.



1.3 **Select the access scenario.** Select the quick access audio and video scenario, which is divided into **audio and video call** and **multi-person audio and video interaction**.



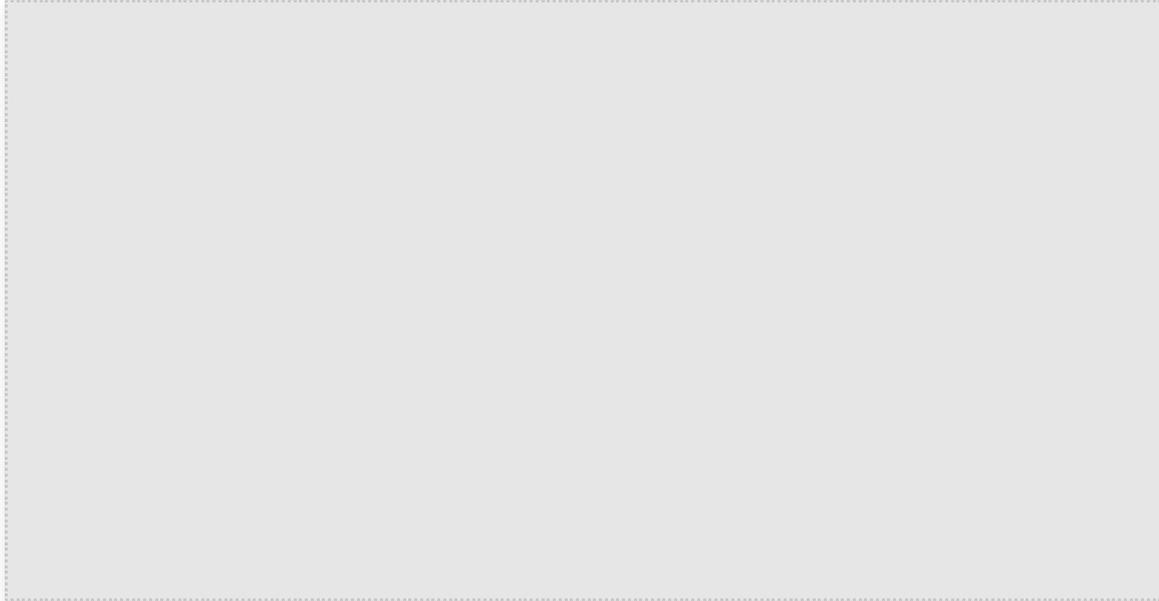
1.4 **Select the integration method.** You can choose **Open-source UI for quick integration** or **Integration (No UI)**. It is recommended to choose **Open-source UI for quick integration** to purchase audio and video call capability packages/multi-person audio and video room packages and quickly integrate them.



1.5 **Enable relevant services.** To use the TRTC Call SDK, you need to **enable Chat IM and Tencent Real-Time Communication (TRTC) services in advance**. This only involves enabling services and does not involve paid product purchases.



1.6 Click **create project** and **Next** to complete the project creation and enter the preparation for development stage.

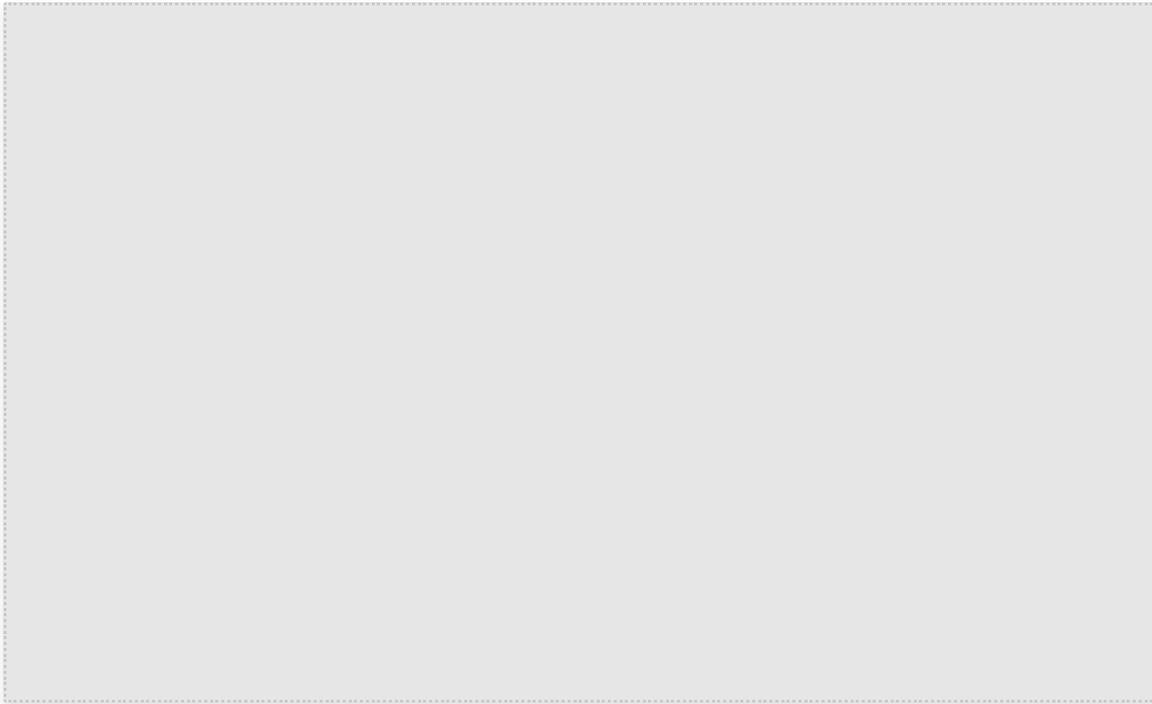


## 2. Prepare for development.

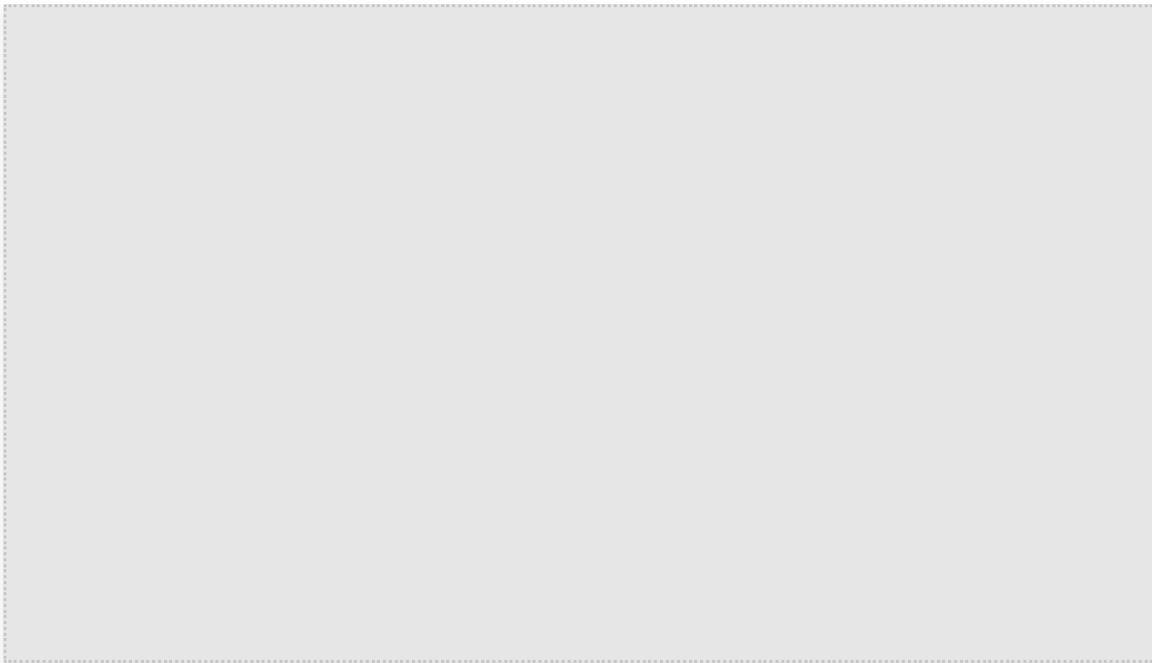
2.1 **Experience the DEMO.** You can preview the DEMO in advance to understand the SDK application effects, including Android, iOS, and Web ends.

2.2 **Associate/Create an IM application.** Creating a project requires the use of IM services. Please create a new application or select an IM application to associate.

Audio and Video Call



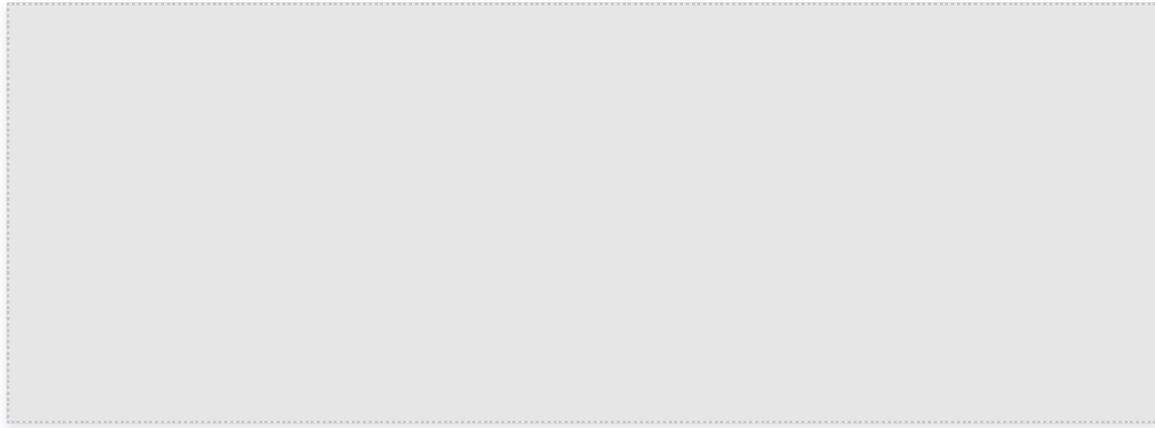
### Multi-Person Audio and Video Interaction



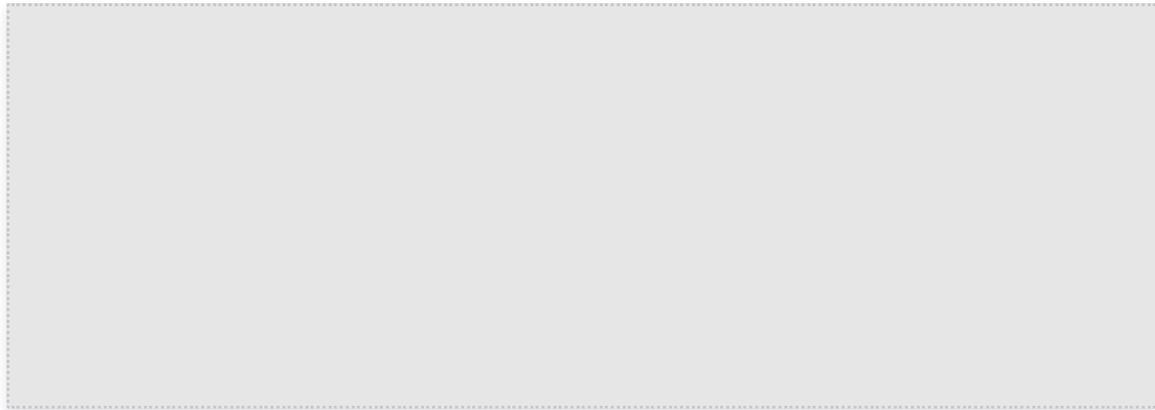
**2.3 Claim resources.** Each application can experience the features of the TRTC Call SDK / Multi-person audio-video room SDK for free once, with a valid period of 7 days and one renewal supported. The total number of experiences for all applications under the account is 10 times.

For detailed capability support of the trial version, see [TRTC Call Feature Overview](#) or [TRTC Conference Feature Overview](#). To launch the business, upgrade to purchase the official version package and enjoy full features.

### Audio and Video Call



### Multi-Person Audio and Video Interaction

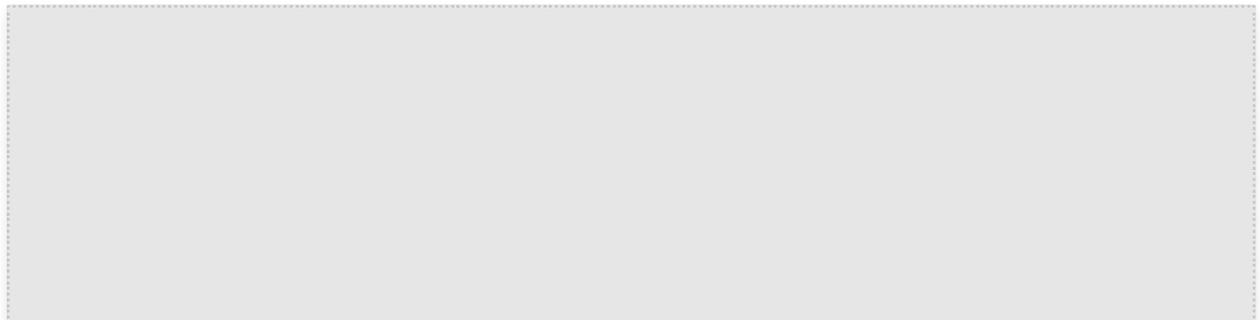


2.4 Click **Go to Integration**.

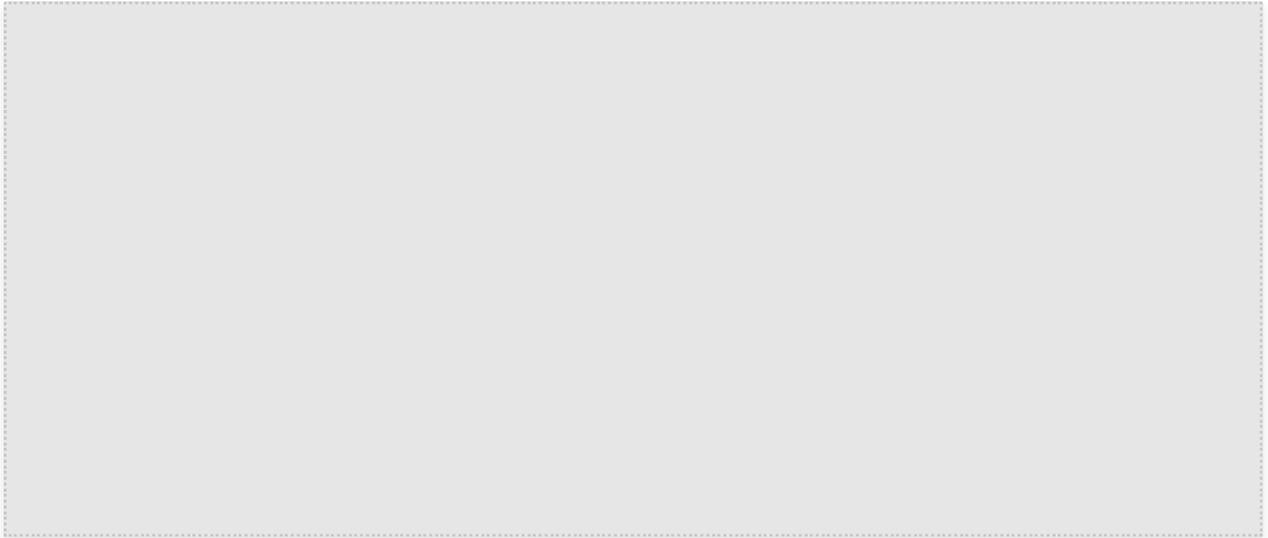
### Quick Start

#### 1. Claim trial resources and start integration.

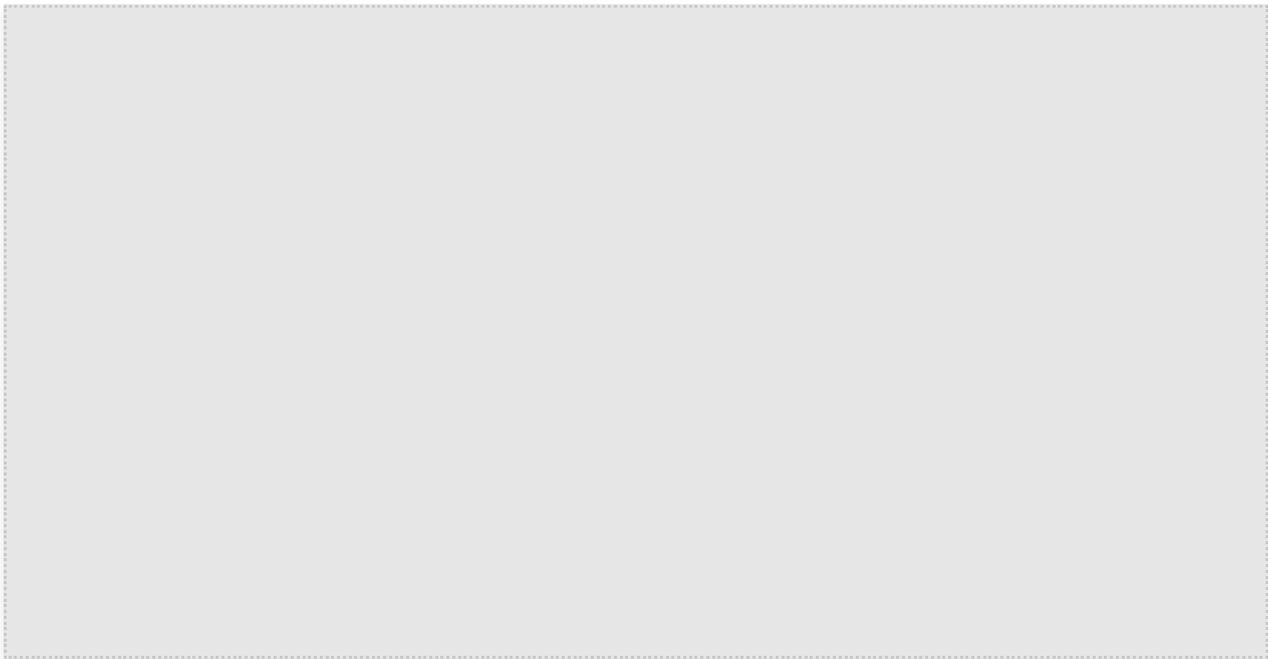
1.1 Click to claim trial resources and start quickly.



1.2 Select a scenario and click Claim Now. Wait patiently to complete the process. If you have not subscribed to cloud services of real-time audio and video (TRTC) and Chat (IM), you need to check the box to agree to the relevant agreements.

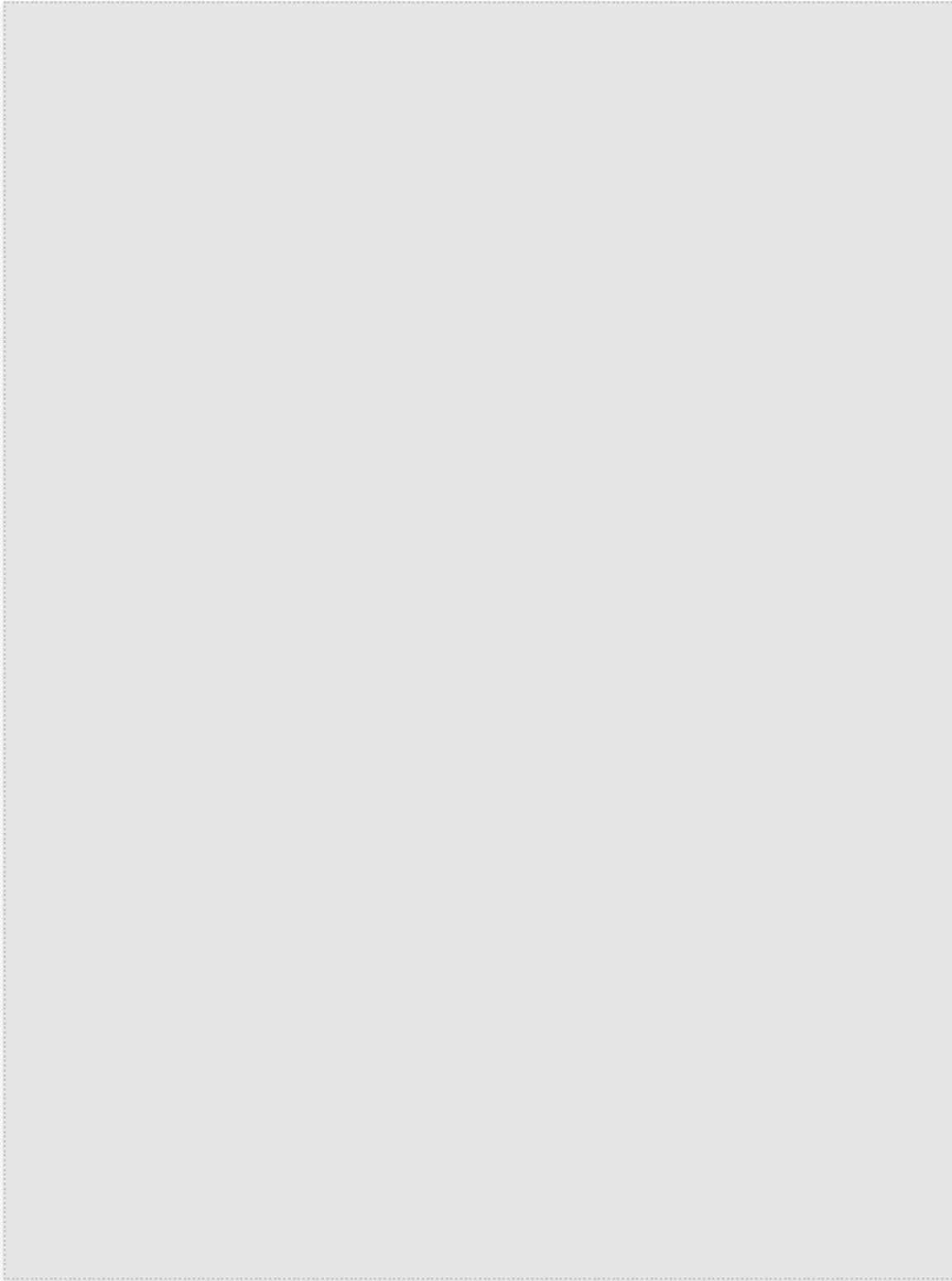


1.3 After successful claim, jump to the Experience Project – Integration Guide page and start integrating the audio and video call SDK.



## Integration Guide

1. **Select an integrated environment and download the TUIKit development kit.** The integrated environments include Android, iOS, and Web.
2. **Integration test.** After downloading the TUIKit development kit, refer to the steps of integration test and view relevant integration documents to complete the integration test.
3. **Formal development.** After completing the SDK integration test, if you need to formally develop and launch an audio and video application, you can purchase an audio and video call package, including the 1V1 call version and group call version, to upgrade the current project business and enjoy full features.

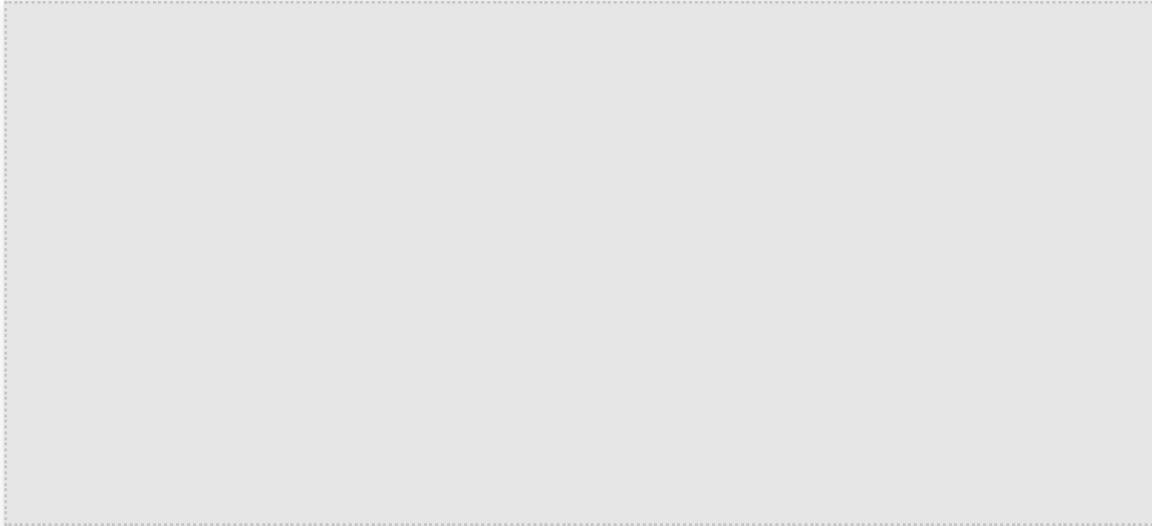


## Viewing Project Configuration

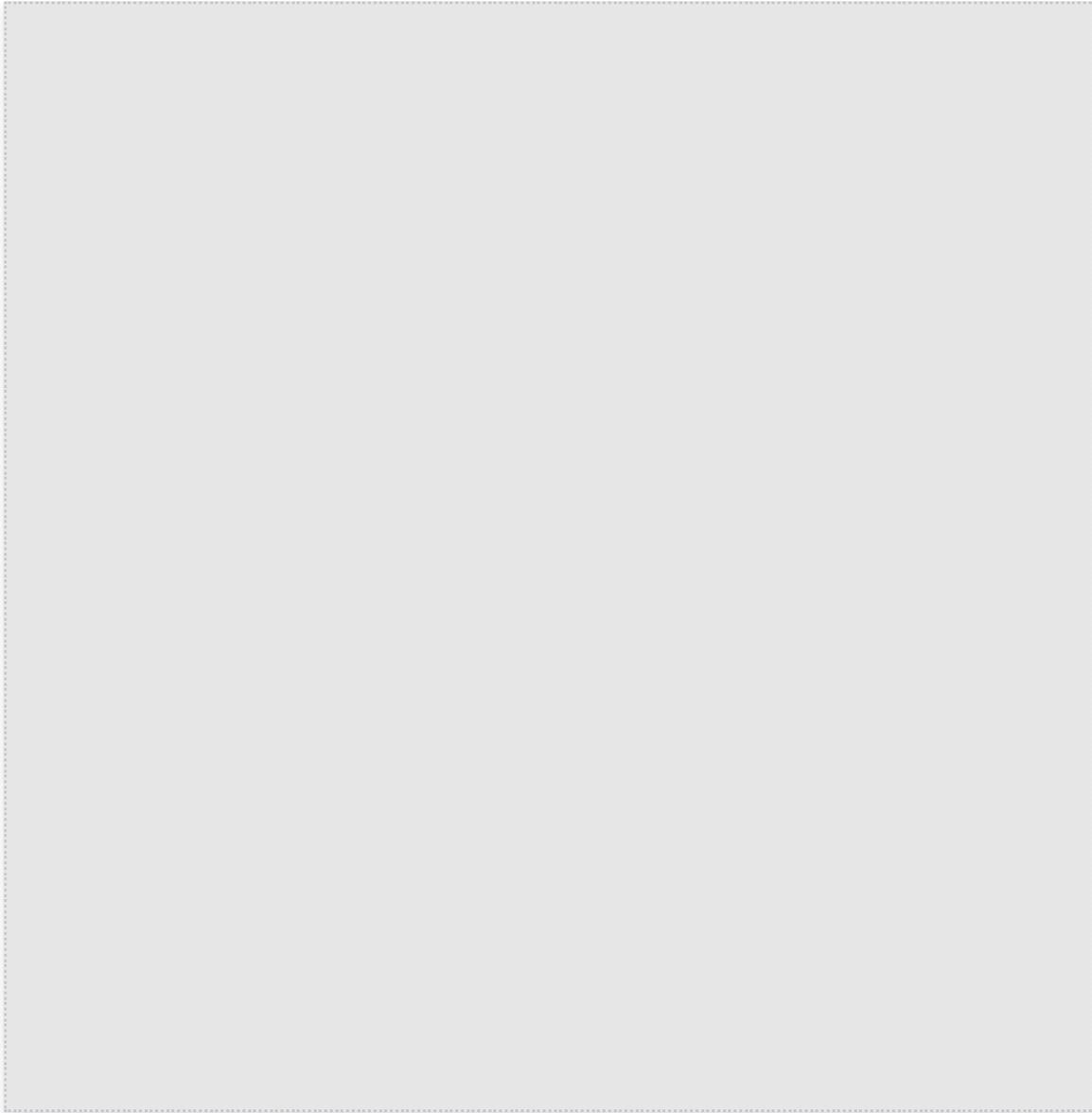
1. You can view all projects on the project management page. Click **Project Configuration** on the right to view project configurations.



- 2. Project Configuration:** Here you can view the project's name, access scene, used service version, and the creation time and expiration time of the application. You can also click auto-renewal to go to **Expense Center** > [Renewal Management](#) to renew the package.



- 3. Integration Guide:** Quickly select and download the SDK development kit and integrate simply and quickly following the step-by-step guide.



# Mic Connection Management

## Quick and Easy to Use

Last updated: 2025-03-17 15:15:53

The Audio and Video Terminal SDK (Tencent Cloud RT-Cube) integrates multiple features of the new Mic Connection Management solution into [Tencent Cloud RT-Cube Console > Mic Connection Management](#) for users' convenient use. Specifically, it includes four feature pages: Quick Start, Mic Connection Application, Usage Statistics, and Address Generator. For more information on mic connection features, see [New Mic Connection Solution](#).

The Audio and Video Terminal SDK (Tencent Cloud RT-Cube) provides demos for different terminals. On this page, you can quickly run the MLVB-API-Example Demo by following the steps to configure simply and experience the new mic connection solution.

### Must-Knows

- Activated [Tencent Cloud Streaming Services \(CSS\)](#).
- Activated [Tencent Real-Time Communication \(TRTC\)](#).

### Operation Steps

#### Step 1: Download Source Code

Log in to [Tencent Cloud RT-Cube Console > Quick Start](#), select and download the corresponding compressed package according to your actual business needs and click Next. The console provides the full-featured SDK for you to experience. You can go to [SDK Download](#) to experience more versions of the SDK.

#### Note:

Mobile Live Video Broadcasting SDK (basic version) cannot be used for mic connection scheme experience.

#### 快速上手

① 新版连麦方案基于 RTC 协议，更加简单灵活，帮助您快速实现连麦需求，您可以在本页面按照以下步骤快速跑通 demo、体验新版连麦方案，[了解新版连麦](#)

1 下载源码 > 2 配置 License > 3 新建连麦应用 > 4 配置域名 > 5 Demo 体验

请下载 SDK 及 MLVB-API-EXAMPLE 源码来快速跑通 Demo，并体验新版连麦方案

平台	操作
IOS	<a href="#">打开GitHub链接</a> <a href="#">下载Zip文件</a> <a href="#">查看文档指引</a>
Andriod	<a href="#">打开GitHub链接</a> <a href="#">下载Zip文件</a> <a href="#">查看文档指引</a>

上一步 下一步

#### Step 2: Configuring License

1. The new version of the co-anchoring feature requires your License resource. Select an application with the unlocked live streaming License. Both formal and test applications within the valid period are acceptable.
2. After selecting the application, view the corresponding License Url and License Key, and perform parameter substitution in the Demo source code according to the Note below. You can click to switch and view the operation instructions for iOS and Android environments.

3. After replacing the Demo source code, click **Next**.

✓ 下载源码 >
2 配置 License >
3 新建连表应用 >
4 配置域名 >
5 Demo 体验

选择 License 所属应用 Vcube\_test(测试)

License Url 📄

License Key 📄

📌 请选择 License 所属应用并查看 LicenseUrl & Key, 复制粘贴到下图示意位置

选择平台  Andriod  IOS

解压步骤①下载的源码 (此处以Professional为例), 打开LiteAVSDK\_Professional\_Android版本号/MLVB-API-Example/Debug/src/main/java/com/tencent/mlvb/debug./GenerateTestUserSig.java文件, 把GenerateTestUserSig.java文件中的LICENSEURL和LICENSEKEY参数进行替换

```

53  * Reference: https://cloud.tencent.com/document/product/647/17275#Server
54  */
55  public class GenerateTestUserSig {
56
57
58  /**
59   * 腾讯云License管理页面(https://console.cloud.tencent.com/live/license)
60   * 当前应用的License LicenseUrl
61   *
62   * License Management View (https://console.cloud.tencent.com/live/license)
63   * License URL of your application
64   */
65  public static final String LICENSEURL = "http://licens 1. 将 License Url 填写至此参数";
66
67
68  /**
69   * 腾讯云License管理页面(https://console.cloud.tencent.com/live/license)AA
70   * 当前应用的License Key
71   *
72   * License Management View (https://console.cloud.tencent.com/live/license)
73   * License key of your applicationAA
74   */
75  public static final String LICENSEURLKEY = "9b 2. 将 License Key 填写至此参数";

```

上一步
下一步

**Note:**

If there is no available application, click to go to [License Management > Mobile Terminal License](#) to create an application and bind the License or create a trial License. For details, see [License guideline](#).

The screenshot displays the '移动端 License 管理' (Mobile License Management) page in the Tencent Cloud SDK console. The left sidebar shows the navigation menu with '移动端 License' highlighted. The main content area includes a 'License 资源' (License Resources) section with a list of licenses. Two licenses are visible: 'SDKTest' (created 2023-01-16 11:11:27) and 'RT-CubeSDKTest' (created 2021-08-12 10:28:41). The 'RT-CubeSDKTest' license details are expanded, showing '基本信息' (Basic Information) with License URL and Key, and two feature cards: '短视频 (基础版)' (Short Video - Basic Edition) and '直播' (Live Streaming). The '直播' card is highlighted with a red box and shows a '过期' (Expired) status. A '测试新功能' (Test New Feature) button is located at the bottom of the details panel.

### Step 3: Create a Mic Connection Application

The new version of the co – anchoring solution uses **TRTC Practices** capabilities.

1. Enter the page for creating a new co – anchoring application. You can choose to create a new TRTC application here or associate an existing TRTC application.

#### Create Application

1. Click **Create Application**, fill in the application name, and click **Confirm**.
2. View the SDKAppID and key of the application and perform parameter substitution in the Demo source code according to the prompts below. You can click to switch and view the operation instructions for the IOS and Android environments.

[下载源码](#) > [配置 License](#) > **3 新建连麦应用** > [配置域名](#) > [Demo 体验](#)

新建连麦应用  新建应用  关联TRTC应用

应用名称 \* 
  
只能数字、中英文和下划线，不能超过15个字符

SDKAppID 
  
 秘钥

选择平台  Android  IOS

请在步骤4下载的源码（此处以Professional为例），打开LiteAVSDK\_Professional\_Android版本号MLVB-API-Example/Debug/src/main/java/com/tencent/mlvb/debug/GenerateTestUserSig.java文件，把GenerateTestUserSig.java文件中的SDKAPPID和SECRETKEY参数进行替换

```

107  * You can view your SDKAppID after creating an application in the [TRTC console](https://console.cloud.tencent.com/rav).
108  * 'SDKAppID' uniquely identifies a Tencent Cloud account.
109  */
110  public static final int SDKAPPID = 0; 1. 将 SDKAppID 填写至此参数
111
112  /**
113   * 签名过期时间，建议不要设置的过短
114   * @param exp
115   * 时间单位：秒
116   * 默认时间：7 x 24 x 60 x 60 = 604800 = 7 天
117   *
118   * Signature validity period, which should not be set too short
119   * @param exp
120   * Unit: second
121   * Default value: 604800 (7 days)
122   */
123  private static final int EXPIRETIME = 604800;
124
125  /**
126   * 计算签名用的加密密钥，获取步骤如下：
127   *
128   * step1. 进入腾讯云实时音视频[控制台](https://console.cloud.tencent.com/rav)，如果还没有应用就创建一个。
129   * step2. 单击您的应用，并进一步找到“快速上手”部分。
130   * step3. 点击“查看密钥”按钮，就可以看到计算 UserSig 使用的加密的密钥了，请将其拷贝并复制制到如下变量中
131   *
132   * 注意：该方案仅适用于调试Demo，正式上线前请将 UserSig 计算代码和密钥迁移到您的后台服务器上，以避免加密密钥泄露导致的流量盗用。
133   * 文档：https://cloud.tencent.com/document/product/647/17275#Server
134   *
135   * Follow the steps below to obtain the key required for UserSig calculation.
136   *
137   * Step 1. Log in to the [TRTC console](https://console.cloud.tencent.com/rav), and create an application if you don't have one.
138   * Step 2. Find your application, click "Application Info", and click the "Quick Start" tab.
139   * Step 3. Copy and paste the key to the code, as shown below.
140   *
141   * Note: this method is for testing only. Before commercial launch, please migrate the UserSig calculation code and key to your back
142   * Documentation: https://cloud.tencent.com/document/product/647/17275#Server
143   */
144  public static final String SECRETKEY = "0"; 2. 将密钥填写至此参数
  
```

## Associate TRTC Application

1. Click **Associate TRTC Application**, select a TRTC application from the dropdown list, and click **Confirm**.
2. View the SDKAppID and key of the application and perform parameter substitution in the Demo source code according to the prompts below. You can click to switch and view the operation instructions for the IOS and Android environments.

3 新建连表应用 > 4 配置域名 > 5 Demo 体验

新建连表应用  新建应用  关联TRTC应用

选择应用 \* test

确定

SDKAppID [redacted]

密钥 [redacted]

请复制 SDKAppID 和密钥，并粘贴到下图示意位置

选择平台  Android  IOS

解压步骤中下载的源码（此处以Professional为例），打开LiteAVSDK\_Professional\_Android版本号/MLVB-API-Example/Debug/src/main/java/com/tencent/tmlvb/bug/GenerateTestUserSig.java文件，把GenerateTestUserSig.java文件中的SDKAPPID和SECRETKEY参数进行替换

```

86  * YOU CAN VIEW YOUR "SDKAPPID" AFTER CREATING AN APPLICATION IN THE [TRTC console](https://console.cloud.tencent.com/rav).
87  * "SDKAPPID" uniquely identifies a Tencent Cloud account.
88  */
89  public static final int SDKAPPID = [redacted]; 1. 将 SDKAppId 填写至此参数
90
91
92  /**
93   * 签名过期时间，建议不要设置的过短
94   * <code>
95   * 时间单位：秒
96   * 默认时间：7 x 24 x 60 x 60 = 604800 = 7 天
97   *
98   * Signature validity period, which should not be set too short
99   * <code>
100  * Unit: second
101  * Default value: 604800 (7 days)
102  */
103  private static final int EXPIRETIME = 604800;
104
105
106  /**
107   * 计算签名用的加密密钥，获取步骤如下：
108   *
109   * step1. 进入腾讯云实时音视频[控制台](https://console.cloud.tencent.com/rav)，如果还没有应用就创建一个，
110   * step2. 单击您的应用，并进一步找到“快速上手”部分。
111   * step3. 点击“查看密钥”按钮，就可以看到计算 UserSig 使用的加密的密钥了。请将其拷贝并复制到如下变量中
112   *
113   * 注意：该方案仅适用于调试Demo，正式上线前请将 UserSig 计算代码和密钥迁移到您的后台服务器上，以避免加密密钥泄露导致的流量盗用。
114   * 文档：https://cloud.tencent.com/document/product/647/17279#Server
115   *
116   * Follow the steps below to obtain the key required for UserSig calculation.
117   *
118   * Step 1. Log in to the [TRTC console](https://console.cloud.tencent.com/rav), and create an application if you don't have one.
119   * Step 2. Find your application, click "Application Info", and click the "Quick Start" tab.
120   * Step 3. Copy and paste the key to the code, as shown below.
121   *
122   * Note: this method is for testing only. Before commercial launch, please migrate the UserSig calculation code and key to your back
123   * Documentation: https://cloud.tencent.com/document/product/647/17279#Server
124   */
125  public static final String SECRETKEY = "01
  
```

上一步 下一步

2. After completing the replacement of the Demo source code, click **Next**.

## Step 4: Configure a Domain Name

The new mic connection feature requires the use of your playback domain name resources.

- Enter the **Configuring a Domain Name** page, select a playback domain, view the domain CNAME, and perform parameter substitution in the Demo source code according to the prompts below.
  - If there is no available playback domain, go to [Domain Name Management](#) to add a domain or enable an existing playback domain.
  - If the CNAME of your selected playback domain shows **Not Configured**, click to view the [How to Configure Domain CNAME](#) document. After completing the configuration, return to this page to continue the operation.
- After completing the replacement of the Demo source code, click **Next**.

[下载源码](#) > [配置 License](#) > [新建连麦应用](#) > **4 配置域名** > [Demo 体验](#)

播放域名

域名 CNAME

请选择播放域名并按照下列说明完成域名相关配置

选择平台  Android  IOS

解压步骤下载的源码（此处以Professional为例），打开LiteAVSDK\_Professional\_Android版本号/MLVB-API-Example/Debug/src/main/java/com/tencent/mlvb/debug/GenerateTestUserSig.java文件，把GenerateTestUserSig.java文件中的PLAY\_DOMAIN参数进行替换  
 PLAY\_DOMAIN：请设置为您所选域名的CNAME

```

127
128  /**
129  * 配置的推流地址
130  *
131  * 腾讯云域名管理页面: https://console.cloud.tencent.com/live/domainmanage
132  */
133  public static final String PUSH_DOMAIN = ".myqcloud.com";
134
135  /**
136  * 配置的拉流地址
137  *
138  * 腾讯云域名管理页面: https://console.cloud.tencent.com/live/domainmanage
139  */
140  public static final String PLAY_DOMAIN = "myqcloud.com";
141
142  /**
143  * 如果开通鉴权配置的鉴权Key
  
```

将所选域名的CNAME填至此参数

## Step Five: Demo Experience

After completing the above steps, compile and run the source code project MLVB-API-Example, select the audience mic connection/anchor PK scenario, and follow the steps in the figure to experience the mic connection scenario.

[下载源码](#) > [配置 License](#) > [新建连麦应用](#) > [配置域名](#) > **5 Demo 体验**

观众连麦 主播PK

编译并运行源码工程 MLVB-API-Example，按照下述步骤即可在demo中体验观众连麦场景。

**体验说明**

主播和观众需要打开MLVB-API-Example，在基础功能 > 连麦互动进行测试；  
 体验完整功能需要主播端、连麦观众端、普通观众端3个设备体验；



腾讯云MLVB API Example

基础功能

- 摄像头预览
- 屏幕推流
- 直播拉流
- 连麦互动**
- PK互动

进阶功能

- 动态切换渲染组件
- 自定义视频采集
- 第三方美颜
- RTC连麦+超低延时播放

上一步 继续体验下一步

After the trial, you can go to the [Audio/Video Call Application](#) page to view the mic connection-related configurations.

# Mic Connection Application

Last updated: 2025-03-17 15:16:00

The Audio and Video Terminal SDK (Tencent Cloud Video Cube) integrates multiple features of the new Mic Connection Management solution into [Tencent Cloud Video Cube Console > Mic Connection Management](#) for users' convenient use. Specifically, it includes four functional pages: Quick Start, Mic Connection Application, Usage Statistics, and Address Generator. For more information about Mic Connection features, see [New Mic Connection Solution](#).

The Audio and Video Terminal SDK (Tencent Cloud Video Cube) provides configuration viewing and application management features for Mic Connection Applications. On this page, you can create mic connection applications, select SDK download, quickly set up CDN playback, stream mixing, recording-related features, and Tag management.

## Must-Knows

- Activated [Tencent Cloud Streaming Services](#).
- Activated [Tencent Real-Time Communication Service](#).

## Creating an Application

### Note:

- Create a mic connection application. This data will be synchronized to [TRTC Application Management](#).
- Using the mic connection service incurs TRTC mic connection fees. For details, see [Billing Overview](#).
- Before use, make sure that you have activated the TRTC service and purchased a package for the consumption of the mic connection service.

1. Log in to [Tencent Cloud Vision Cube Console > Mic Connection Management > Mic Connection Application](#).
2. Click **Create a Mic Connection Application** and fill in the application name to create a new TRTC application.



3. The application list shows the basic information of all TRTC applications. TRTC applications in the **enabled** status can be used to experience the new mic connection solution.

应用名称	SDKAppID	状态 <sup>①</sup>	创建时间	操作
test		已启用	2022-01-04 11:55:38	<a href="#">管理</a>

共 1 条 10 条 / 页 1 / 1 页

## Application Management

In the **Mic Connection Application**, click **Management** in the operation column of an application in the application list to enter the application management interface. You can view [Application Information](#) and configure [CDN Live Streaming](#), [Stream Mixing](#) and

## Recording .

应用名称	SDKAppID	状态 <sup>①</sup>	创建时间	操作
test		已启用	2022-01-04 11:55:38	<a href="#">管理</a>

共 1 条 10 条 / 页

## Application Information

By default, you will enter the application information page, where you can view all information of the application, including information overview, CDN feature configuration status, SDK download link, License unlocking instructions, and Tag information. Click **Edit** in the upper right corner of the information overview to modify the application name.

← test( )

应用信息
CDN 观看配置
混流配置
录制配置

<sup>①</sup> 新版连麦方案基于 RTC 协议，更加简单灵活，帮助您快速实现连麦需求，您可以在本页顶部按照以下步骤快速体验 demo，体验新版连麦方案，[了解新版连麦](#)

信息概览
编辑

应用名称 test

SDKAppID

秘钥

创建时间 2022-01-11 09:48:31

License 说明

连麦功能需要 License 进行解锁，请在 SDK 代码中对位置添加已解锁 直播推流 License 的 License Uri 和 Key，若无正式应用可前往 [License 管理页面](#) 新建测试 License，[了解更多 License 说明](#)

License Uri 和 License Key 在 SDK 中的配置说明请参照 [直播推流](#)

功能概览
查看功能配置

直播 CDN 观看 已关闭

混流 [点击查看](#)

录制 [点击查看](#)

SDK 下载

[IOS](#) [Android](#)

更多 SDK 版本及使用详情，请参见[指引/说明](#)

标签 <sup>①</sup>
操作

未设置任何标签，如需修改请点击右上角“编辑”按钮。

## CDN Live Streaming Configuration

The new mic-connecting solution uses the TRTC protocol for streaming. After bypass stream pushing is enabled, audiences watch through CDN stream pulling. On this page, you can check whether the bypass stream pushing switch is enabled for the current application. You can go to [TRTC Console > Application Management](#) to enable the bypass stream pushing switch.

应用信息

CDN 观看配置
混流配置
录制配置

<sup>①</sup> 基于 UDP 传输协议的 TRTC 服务，通过协议转换将音视频流对接到云直播系统，这个过程称之为“旁路推流”。旁路推流把直播音视频流推送至云端后，即可通过 CDN 方式拉流观看。所产生的相关费用，请参见[云直播>流量带宽计费](#) 说明。

CDN 配置

旁路推流开关

请前往 [trtc 控制台 - 应用管理](#) 开启旁路推流，关闭旁路推流将无法使用连麦服务

## Stream Mixing Configuration

On this page, through the explanation of the stream mixing principle and the accompanying example code, you can learn in detail how stream mixing is achieved in the new mic-connecting solution for two typical interactive live streaming scenarios: audience

mic connection and streamer PK.

应用信息    CDN 观看配置    **混流配置**    录制配置

**① 计费说明**  
 者在实时音视频创建完成混流，则是通过 MCU 混流转码集群进行混流转码。云端混流费用将根据混流转码后输出的分辨率大小和转码时长进行计费，更多计费详细说明详见实时音视频-云流混流转码计费说明。

**观众连麦**    **主播 PK**

在观众连麦场景下，观众-主播建立连麦状态后，还需要配置混流功能，把多路流混合成一路流，观众才可以看到连麦后的混合画面。  
 MLVB-API-Example demo 已帮您完成混流相关配置 (详见快速上手)，下面将介绍如何在 SDK 中自行完成混流配置。

此处由主播发起一次混流操作，也就是将主播自己和连麦观众，混合成一路流。观众可以在一路流上看到主播和连麦观众进行互动。A 调用 setMixTranscodingConfig 接口启动云端混流，调用时需要设置音频相关的参数，例如 音频采样率 audioSampleRate、音频码率 audioBitrate 和 声道数 audioChannels 等。如果您的业务场景中 also 包含视频，需同时设置视频相关的参数，例如 视频宽度 videoWidth、视频高度 videoHeight、视频码率 videoBitrate、视频帧率 videoFramerate 等。示例代码如下：

```

Java    Objective-C

V2TLLiveDef.V2TLLiveTranscodingConfig config = new V2TLLiveDef.V2TLLiveTranscodingConfig();
// 设置分辨率为 720 x 1280，码率为 1500kbps，帧率为 20FPS
config.videoWidth = 720;
config.videoHeight = 1280;
config.videoBitrate = 1500;
config.videoFramerate = 20;
config.videoGOP = 2;
config.audioSampleRate = 48000;
config.audioBitrate = 64;
config.audioChannels = 2;
config.mixStreams = new ArrayList<>();

// 主播摄像头的位置
V2TLLiveDef.V2TLLiveMixStream local = new V2TLLiveDef.V2TLLiveMixStream();
local.userId = "localUserID";
    
```

**① 混流时，默认混流后的 Stream Id 为发起者的 Stream Id，此处为主播的流ID。如果您需要指定其他流ID，需要进行参数传入。**



Recording Configuration

If you need to use the cloud recording service when using the new mic-connecting solution, you can view the recording-related descriptions on this page.

应用信息    CDN 观看配置    混流配置    **录制配置**

您可将直播连麦场景的过程录制存储下来，默认存储至云点播，因此请先确认您已**开通云点播服务**。  
 使用 TRTC 云播录制，支持将房间中的每一个用户的音视频流都录制成一个独立文件，也支持房间中的多路音视频先进行混流，再将混流后的音视频流录制成一个文件。您可以前往 [TRTC 控制台](#) 进行相关配置。详情参见 [实现云播录制与回放](#)。  
 实时音视频将基于录制时长及分辨率进行计费，计费说明详见 [实时音视频-云播录制计费说明](#)。

# Usage Statistics

Last updated: 2025-03-17 15:16:06

The Audio and Video Terminal SDK (Tencent Cloud RT-Cube) integrates multiple features of the new Mic Connection Management solution into [Tencent Cloud RT-Cube Console > Mic Connection Management](#) for users' convenient use. Specifically, it includes four feature pages: Quick Start, Mic Connection Application, Usage Statistics, and Address Generator. For more information about mic connection features, see [New Mic Connection Solution](#).

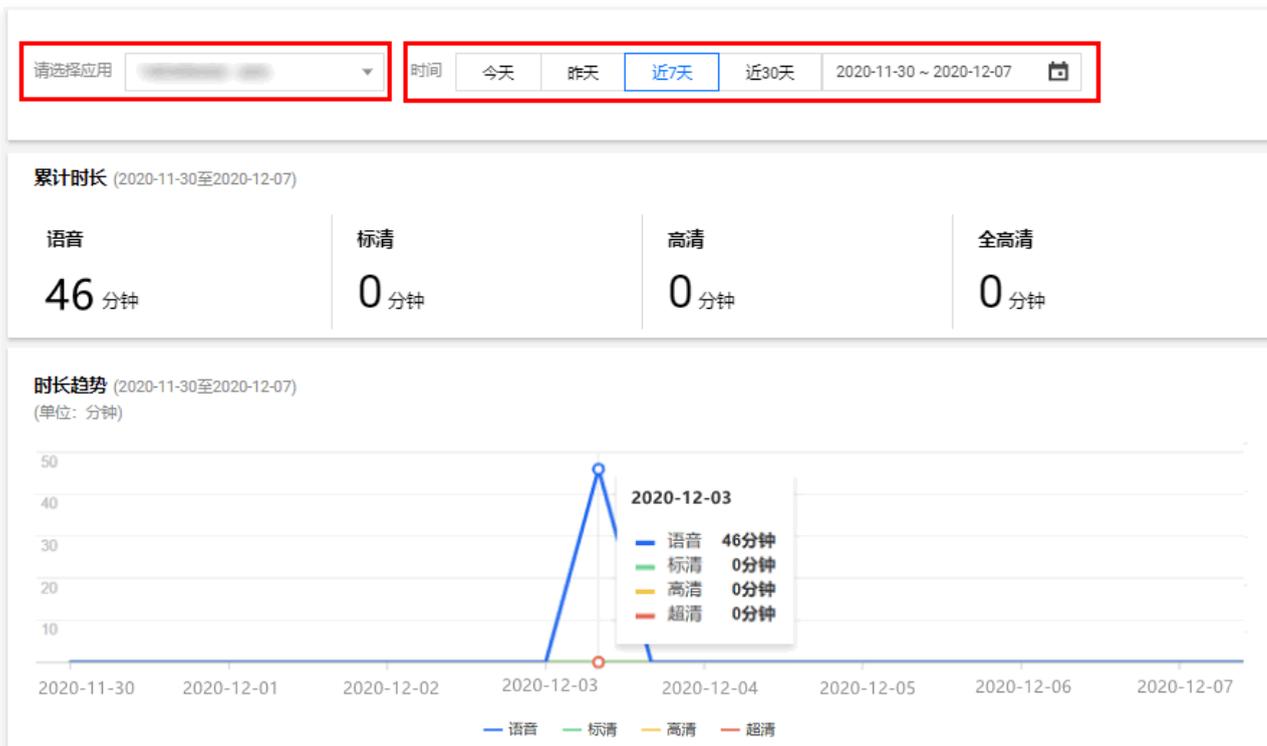
The Audio/Video Terminal SDK (Tencent Cloud Video Cube) provides a usage statistics page for mic connection applications, supporting viewing of detailed usage data consumed by created applications.

## Must-Knows

- Activated [Tencent Cloud Streaming Services \(CSS\)](#).
- The [TRTC service](#) has been activated.
- Usage statistics are refreshed non-real-time, once every 5 minutes, and data display may have a delay of 5 to 20 minutes.

## Operation Steps

1. Enter [Tencent Cloud RT-Cube Console](#), select [Mic Connection Management > Usage Statistics](#) in the left sidebar.
2. Select the application you want to view and select the time period you want to view.



## Detailed Transaction Records

Transaction records are displayed in seconds and then rounded to the nearest minute. Less than 1 minute is counted as 1 minute. Therefore, if you directly add up the minutes displayed in each line of transaction records below, there will be a slight difference from the actual settled minutes. The final billing volume is subject to the bills output by [expense center](#).

**详细流水** (2020-11-03至2020-12-03)

流水显示数据以秒计算，再按分钟取整，不足1分钟计为1分钟。因此若将以下每行流水显示的分钟数直接相加，将与实际结算分钟数略有差异。最终计费用量以 [账单中心](#) 输出的账单为准。

时间	语音 (分钟)	标清 (分钟)	高清 (分钟)	超清 (分钟)
2020-11-03	0	0	0	0
2020-11-04	0	0	0	0
2020-11-05	0	0	0	0
2020-11-06	0	0	0	0
2020-11-07	0	0	0	0

# Address Generator

Last updated: 2025-03-17 15:16:14

The Audio and Video Terminal SDK (Tencent Cloud RT-Cube) integrates multiple features of the new Mic Connection Management solution into [Tencent Cloud RT-Cube Console > Mic Connection Management](#) for users' convenient use. Specifically, it includes four functional pages: Quick Start, Mic Connection Application, Usage Statistics, and Address Generator. For more information on mic connection features, see [New Mic Connection Solution](#).

The Audio and Video Terminal SDK (Tencent Cloud RT-Cube) provides a tool that can quickly generate TRTC push/playback addresses and CDN playback addresses for the new mic connection solution.

## Must-Knows

- Activated [Tencent Cloud Streaming Services \(CSS\)](#).
- The [TRTC service](#) has been activated.

## Configuration Parameter Description

Configuration Parameter	Description
Mic connection application	The mic connection solution requires one TRTC application resource.
Stream ID	Custom stream name, unique identifier for each live streaming stream, only supports entering English letters, numbers and symbols. Audience mic connection: Includes two types of Stream IDs: streamer and mic-connecting audience. Streamer PK: Includes two types of Stream IDs: Streamer A and Streamer B.
User ID	Custom username, used as user identity for mutual push/pull streams, only supports entering English letters, numbers and symbols. Audience mic connection: Includes two types of User IDs: streamer and mic-connecting audience. Streamer PK: Includes two types of User IDs: Streamer A and Streamer B.
App Name	Application name for mic connection, default is live. Only supports entering English letters, numbers and symbols.
Playback domain name	Selectable configured and enabled playback domain name
Effective Time	Audience mic connection: Set the validity time for the playback address, and the set time is the expiration time point. Streamer PK: The expiration time of the playback address is the set timestamp plus the validity time of the playback authentication settings.

## Generating Address

1. Log in to [Tencent Cloud RT-Cube Console > Mic Connection Management > Address Generator](#) and select **Audience mic connection / Anchor competition** according to your scenario requirements.
2. Dropdown selection of 1 TRTC application for mic connection.
3. Fill in the custom Stream ID and User ID, divided into two categories: streamer and mic-connecting audience.
  - **Audience Mic Connection:** Includes two types of Stream IDs and User IDs for streamers and mic-connected audience.
  - **Streamer PK:** Includes Stream ID and User ID for Streamer A and Streamer B.
4. Select a configured and enabled playback domain.
5. Enter AppName. The default value is: `live`.
6. Select the address validity time, for example: `2021-01-10 14:20:26`.
  - **Audience Mic Connection:** Sets the validity time for the playback address, which is the expiration time point.
  - **Streamer PK:** The expiration time of the playback address is the set timestamp plus the validity time of the playback authentication settings.

## 7. Click **Generate Address**.

Audience Mic Connection	Streamer PK
<p><b>观众连麦</b> 主播PK</p> <p>选择连麦应用 * <input type="text" value="请选择"/></p> <p>主播 Stream Id * <input type="text" value="请设置自定义流ID"/> 仅支持英文字母、数字和符号</p> <p>主播 User Id * <input type="text" value="请设置自定义UserId"/> 仅支持英文字母、数字和符号</p> <p>连麦观众 Stream Id * <input type="text" value="请设置自定义流ID"/> 仅支持英文字母、数字和符号</p> <p>连麦观众 User Id * <input type="text" value="请设置自定义UserId"/> 仅支持英文字母、数字和符号</p> <p>选择域名① * <input type="text" value="请选择"/></p> <p>App Name <input type="text" value="live"/> 默认为 live，支持自定义设置，可输入英文字母、数字和符号</p> <p>有效时间 * <input type="text" value="2022-01-13 14:21"/> </p> <p><a href="#">生成地址</a> <a href="#">拼接地址说明</a></p>	<p>观众连麦 <b>主播PK</b></p> <p>选择连麦应用 * <input type="text" value="请选择"/></p> <p>主播 A Stream Id * <input type="text" value="请设置自定义流ID"/> 仅支持英文字母、数字和符号</p> <p>主播 A User Id * <input type="text" value="请设置自定义UserId"/> 仅支持英文字母、数字和符号</p> <p>主播 B Stream Id * <input type="text" value="请设置自定义流ID"/> 仅支持英文字母、数字和符号</p> <p>主播 B User Id * <input type="text" value="请设置自定义UserId"/> 仅支持英文字母、数字和符号</p> <p>选择域名① * <input type="text" value="请选择"/></p> <p>App Name <input type="text" value="live"/> 默认为 live，支持自定义设置，可输入英文字母、数字和符号</p> <p>有效时间 * <input type="text" value="2022-01-13 14:21"/> </p> <p><a href="#">生成地址</a> <a href="#">拼接地址说明</a></p>

## Generate Result Description

[Playback address](#) [Scenario analysis diagram](#)

### Playback Address

TRTC streaming/pull stream addresses and CDN playback addresses that can be used for audience mic connection/streamer PK. You can view and quickly copy the addresses for your SDK integration.

**Audience mic connection:**

**生成结果**

1. 左侧为根据所填配置生成的trtc 推/拉流地址和播放地址, 可直接复制粘贴至 SDK 中使用;  
 2. 右侧为观众连麦场景解析图, 展示观众连麦实现过程和原理。点击图中步骤可查看实现该操作的示例代码, 点击步骤中的下划线文本可查看该步骤所需地址;  
 3. CDN播放地址是基于您播放域名的实际已有配置自动拼接生成, 若您需要进行一步管理或修改CDN播放地址的鉴权信息等功项, 请移步至云直播控制台-域名管理 并找到该播放域名, 完成相关配置。操作详情请查看 自主拼装直播 URL

**主播推/拉流地址**

推流地址 trtc://cloud.tencent.com/push/1?sdkappid= .

拉流地址 trtc://cloud.tencent.com/play/3?sdkappid= .

**连麦观众推/拉流地址**

推流地址 trtc://cloud.tencent.com/push/3?sdkappid= .

拉流地址 trtc://cloud.tencent.com/play/1?sdkappid= .

**CDN 播放地址**

播放地址 (快直播) webrtc:// /live/1

播放地址 (FLV) http:// /live/1.flv

播放地址 (HLS) http:// /live/1.m3u8

播放地址 (RTMP) rtmp:// /live/1

**连麦观众单画面播放地址**

播放地址 (快直播) webrtc:// /top/live/3

播放地址 (FLV) http:// /live/3.flv

播放地址 (HLS) http:// /live/3.m3u8

播放地址 (RTMP) rtmp:// /live/3

[UserSig计算说明](#)

**Streamer PK:**

**生成结果**

1. 左侧为根据所填配置生成的trtc 推/拉流地址和播放地址, 可直接复制粘贴至 SDK 中使用;  
 2. 右侧为观众连麦场景解析图, 展示观众连麦实现过程和原理。点击图中步骤可查看实现该操作的示例代码, 点击步骤中的下划线文本可查看该步骤所需地址;  
 3. CDN播放地址是基于您播放域名的实际已有配置自动拼接生成, 若您需要进行一步管理或修改CDN播放地址的鉴权信息等功项, 请移步至云直播控制台-域名管理 并找到该播放域名, 完成相关配置。操作详情请查看 自主拼装直播 URL

**主播A推/拉流地址**

推流地址 trtc://cloud.tencent.com/push/1?sdkappid= .

拉流地址 trtc://cloud.tencent.com/play/3?sdkappid= .

**主播B推/拉流地址**

推流地址 trtc://cloud.tencent.com/push/3?sdkappid= .

拉流地址 trtc://cloud.tencent.com/play/1?sdkappid= .

**CDN 播放地址 (主播A视角)**

播放地址 (快直播) webrtc:// /live/1

播放地址 (FLV) http:// /live/1.flv

播放地址 (HLS) http:// /live/1.m3u8

播放地址 (RTMP) rtmp:// /live/1

**CDN播放地址 (主播B视角)**

播放地址 (快直播) webrtc:// /live/3

播放地址 (FLV) http:// /live/3.flv

播放地址 (HLS) http:// /live/3.m3u8

播放地址 (RTMP) rtmp:// /live/3

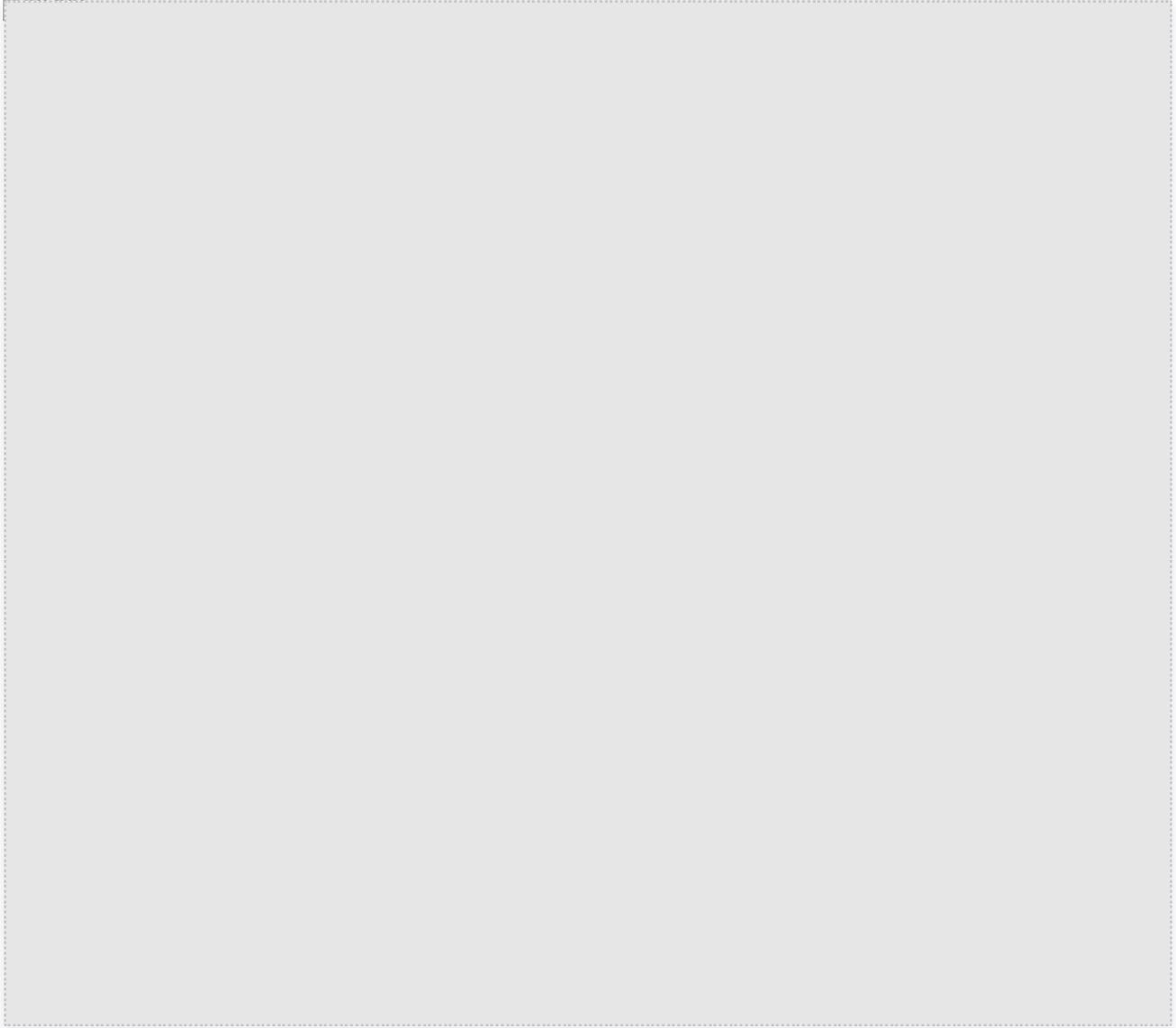
[UserSig计算说明](#)

**Scenario Analysis Diagram**

1. In the scenario analysis diagram of audience mic connection, you can click on the steps in the diagram to view the example code and descriptions for implementing that step:



2. Click on the **underlined text** in the step to view the required address for that step.



# On-Demand Playback Data

Last updated: 2025-03-17 15:16:23

On-demand playback quality monitoring provides data statistics, quality monitoring and visualization and analysis services for the whole on-demand playback link. It supports real-time data reporting, data aggregation, multi-dimensional filtering and refined targeted analysis, which can help enterprises monitor the overall operation status in real time, understand user habits and behavior characteristics, effectively guide operational decision-making and drive business growth.

## Must-Knows

- On-demand playback quality monitoring is only applicable to scenarios using [Tencent Cloud RT-Cube SDK](#). Other SDKs cannot perform monitoring.
- Playback quality monitoring for on-demand video is only applicable to video resources from Tencent Cloud Video on Demand (VOD), that is, video resources played with Tencent Cloud VOD file identifier FileID. Other video sources cannot recognize the corresponding Tencent Cloud user identity.

### Note:

In the audio and video terminal SDK (Tencent Cloud Vision Cube), only TCPlayer 4.4.0 and later versions of Tencent Cloud Vision Cube Player SDK can obtain playback data on the Web; only Tencent Cloud Vision Cube Player SDK 9.5.29006 and later versions can obtain playback data on the mobile terminal. Other SDKs such as User Generated Short Video SDK and full - feature SDK will also support it gradually in version 9.6 in the future. Please stay tuned.

## Version Description

The on-demand playback quality monitoring service is divided into basic version and advanced edition. See the following table for differences between different versions:

Version	Data Storage Time	Fee
Basic Version	3 days	Free
Advanced Edition	1 year	The trial period is free of charge. For details, see <a href="#">Video-on-demand Playback Quality Monitoring Billing Instructions</a> .

## Operation Steps

### Step 1: Enable Video-On-Demand Playback Quality Monitoring Service

- Log in to the [Tencent Cloud Vision Cube Console](#), and select **VOD Playback Data** under **SDK Quality Monitoring** in the left menu bar.
- Read and confirm the instructions on the service activation interface, check "I have read and agree to the SDK privacy agreement and VOD playback quality monitoring billing", and click **Activate Now**.



点播播放质量监控为您提供点播播放全链路的数据统计、质量监控及可视化分析服务。基于腾讯云视立方播放器SDK，支持实时数据上报、数据聚合、多维筛选和精细化定向分析，帮助企业掌控数据大盘、了解用户习惯和行为特征，有效指导运营决策、驱动业务增长。

点播播放质量监控服务仅适用于使用腾讯云视立方SDK进行播放的场景，其他SDK无法进行监控；同时仅适用于使用腾讯云点播文件标识FileID进行播放的视频资源，其他视频来源无法识别对应腾讯云用户身份。更多内容请参考《点播播放质量监控》。

我已知晓并同意《SDK隐私协议》和《点播播放质量监控计费说明》。

[立即开通](#)

3. The successfully activated playback quality monitoring service for video-on-demand defaults to the **basic version** and can only query data within 3 days.

**Note:**  
If you need to upgrade to the advanced edition, see [Upgrade from basic version to advanced edition](#).



The screenshot shows the '点播播放数据' (VOD Playback Data) dashboard. The '基础版' (Basic Edition) is selected in the top right corner. A message indicates that the basic version only allows querying data within 3 days, while the advanced version allows querying data within 1 year. The dashboard also shows filters for 'iOS' and '应用' (Application), and a date range of '近3天' (Last 3 days) from '2022-01-11 00:00' to '2022-01-13 13:00'. The current statistics show 0 total playback times and 0 total unique users.

## Step 2: Upgrade From Basic Version to Advanced Edition

**Note:**

The advanced version of on-demand playback quality monitoring is currently in the trial period and no fees are charged for now. The estimated end date of the trial period is June 30, 2022. If there are any changes to the billing mode in the future, we will publish new billing instructions on the official website in advance and notify you in advance by Message Center, SMS, mail, etc. Please pay attention.

1. Enter **VOD Playback Data**, click **Upgrade** at the top to open the service upgrade pop-up.

The screenshot shows the '点播播放数据' (VOD Playback Data) page with tabs for '播放总览', '性能指标', '用户指标', and '文件指标'. A notification banner at the top states: '您当前使用的点播播放质量监控为基础版，仅可查询3天内的数据，**升级**为高级版可查询1年内的数据。' The word '升级' (Upgrade) is highlighted with a red box.

2. After reading and confirming the service upgrade instructions, check "I have read and agree to the VOD playback quality monitoring billing instructions" and click **Confirm**.

The screenshot shows a '服务升级' (Service Upgrade) dialog box. It contains the following text: '您的点播播放质量监控服务当前正在从基础版升级为高级版，升级后可查询数据的时间范围将从3天增加至1年，更多内容参见《点播播放质量监控》。' and '高级版点播播放质量监控目前处于体验期，暂不收取费用，体验期预计截止时间为2022年6月30日。若未来计费方式有所变更，我们将在提前在官网发布新的计费说明，并通过站内信、短信、邮件等方式提前通知您，敬请关注。' A checkbox labeled '我已知晓并同意《点播播放质量监控计费说明》。' is checked and highlighted with a red box. Below the dialog are '确定' (Confirm) and '取消' (Cancel) buttons.

3. After upgrading to the advanced edition, the version on the right will be displayed as "Advanced Edition".

The screenshot shows the '点播播放数据' (VOD Playback Data) page after upgrading. The '高级版' (Advanced Edition) label is highlighted with a red box in the top right corner. The page displays various filters and data metrics. A note at the bottom states: 'Web端仅使用腾讯云视听方播放器SDK TCPlayer 4.4.0及其以后的版本可获取播放数据；移动端仅使用腾讯云视听方播放器Player 9.5.29006及其以后的版本可获取播放数据，短视频UGSV、全功能等其他SDK后续也将在9.6版本陆续支持，敬请期待。更多内容请参考《点播播放质量监控》。'

#### Note:

Details of data metrics in different tabs are provided in [Data Metrics](#). For instructions on using the data viewing feature, see [Feature Description](#).

## Data Metrics

### Playback Overview

Playback overview can show the current playback count and user scale.

Metrics	Description
Number of Prompts	Total number of playback times

	The first playback request for a video is counted as one playback. Continuing playback after a mid-way suspension is still counted as one playback.
Number of independent users	Total number of users Independent users are identified by device ID on the mobile terminal and by UUID on the Web terminal.

## Performance Metrics

Performance metrics can provide insights into the current service quality of the SDK.

Metric	Description
Average first-frame duration	Average first-frame duration = Total of all first-frame durations / Number of plays First-frame duration refers to the time it takes for a user to initiate a playback request until the first frame is fully played.
Average stutter rate	Average stutter rate = Total of all playback stutter rates / Number of plays Playback stutter rate: Refers to the proportion of the total duration of stutter during a single playback process to the playback duration. Stutter refers to the situation where the video pauses loading (loading) during the playback process, excluding video loading caused by dragging the progress bar.
Playback Failure Rate	Proportion of playback failure times in total playback count Number of playback failures is the number of playback times with an error code returned.

## User Metrics

User metrics can help understand user behavior characteristics and viewing habits.

Metric	Description
Average viewing duration per person	Average video viewing duration per person, that is, total playback duration / total number of unique users.
Average number of plays per person	Average number of playback requests initiated per person, that is, total playback count / total unique users.
TOP 100 videos by number of plays	Files with top 100 number of plays, including ranking, ID, number of plays, average viewing duration per person and average number of plays per person.

## File Metrics

File metrics can be used to view the playback status of a single file, using the Cloud Video on Demand file identifier FileID to view.

Metrics	Description
Basic information of a file	Video ID, video name, video duration, average playback duration, total playback count.
Number of Prompts	Total playback count of the current file
Average playback duration	Average playback duration of the current file, that is, total playback duration of the file / playback times of the file.
Playback times ranking	Ranking of the current file in terms of playback times among all played files

## Feature Description

The on-demand playback quality monitoring service includes three data viewing capabilities: basic features, data comparison and advanced filtering.

### Basic Features

Function	Description
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Platform	Includes three platform options: iOS, Android and Web. It is a required option.
Application	Use the package name as the unique ID of the application. Options are related to the platform:. <ul style="list-style-type: none"> <li>When the platform is iOS or Android, the application is required.</li> <li>When the platform is selected as Web, there is no application by default and it is not selectable at this time.</li> </ul>
Query time	Select the time period for viewing. You can use the shortcut time or customize the data query time period. It is a required option.

**Note:**

The minimum granularity of query time for playback overview, performance metrics, and user metrics is 5 minutes, and that for file metrics is 1 day. The length of a single query time shall not exceed 90 days.

## Data Comparison

The data comparison feature can provide data from different time periods simultaneously, facilitating comparative analysis. Currently, data comparison offers two options: Month-over-month and custom time range, both of which can be selected at the same time.

Option	Description
Month-on-month.	Previous adjacent time period
Custom time	Customizable time for comparative viewing.

**Note:**

The time length of the data comparison option is consistent with the query time. Therefore, after selecting the start time of the custom time, the termination time will be automatically calculated based on the time length of the query time.

**Example:** If the selected query time is from 2021-07-08 12:00 to 2021-07-14 14:00, the time length is 6 days and 2 hours. At this time, the sequential time period is from 2021-07-02 9:55 to 2021-07-08 11:55. If the custom start time selected is 2021-06-01 01:00, the default end time is 2021-06-07 03:00.

## Advanced Filtering

Advanced filtering provides multiple data dimensions to facilitate the analysis of the impact of specific factors on data. Details are as follows:

Options	Description
Domain name	The domain name used for playing video
Region	The region where the video playback request initiator is located
Carrier	The ISP used for playing video
Operating System	Operating System Used for Playing Video
Network Environment	The network environment used for playing video, available only when the platform is iOS or Android.
Browser	Browser used for playing video, available only when the platform is Web.
SDK version	Tencent Cloud RT-Cube SDK version used for playing video