

# **Tencent Real-Time Communication Video call (with UI)**



**Tencent Cloud**

## Copyright Notice

©2013–2025 Tencent Cloud. All rights reserved.

The complete copyright of this document, including all text, data, images, and other content, is solely and exclusively owned by Tencent Cloud Computing (Beijing) Co., Ltd. ( "Tencent Cloud"); Without prior explicit written permission from Tencent Cloud, no entity shall reproduce, modify, use, plagiarize, or disseminate the entire or partial content of this document in any form. Such actions constitute an infringement of Tencent Cloud's copyright, and Tencent Cloud will take legal measures to pursue liability under the applicable laws.

## Trademark Notice

 Tencent Cloud

This trademark and its related service trademarks are owned by Tencent Cloud Computing (Beijing) Co., Ltd. and its affiliated companies("Tencent Cloud"). The trademarks of third parties mentioned in this document are the property of their respective owners under the applicable laws. Without the written permission of Tencent Cloud and the relevant trademark rights owners, no entity shall use, reproduce, modify, disseminate, or copy the trademarks as mentioned above in any way. Any such actions will constitute an infringement of Tencent Cloud's and the relevant owners' trademark rights, and Tencent Cloud will take legal measures to pursue liability under the applicable laws.

## Service Notice

This document provides an overview of the as-is details of Tencent Cloud's products and services in their entirety or part. The descriptions of certain products and services may be subject to adjustments from time to time.

The commercial contract concluded by you and Tencent Cloud will provide the specific types of Tencent Cloud products and services you purchase and the service standards. Unless otherwise agreed upon by both parties, Tencent Cloud does not make any explicit or implied commitments or warranties regarding the content of this document.

## Contact Us

We are committed to providing personalized pre-sales consultation and technical after-sale support. Don't hesitate to contact us at 4009100100 or 95716 for any inquiries or concerns.

# Contents

## Video call (with UI)

### Overview (TUICallKit)

### Activating TUICallKit Service

### Running a Demo (TUICallKit)

Android

iOS

Web

Flutter

WeChat Mini Program

Using Uni-App (Mini Program)

Uni-App (Client)

# Video call (with UI) Overview (TUICallKit)

Last updated: 2025-03-27 11:51:21

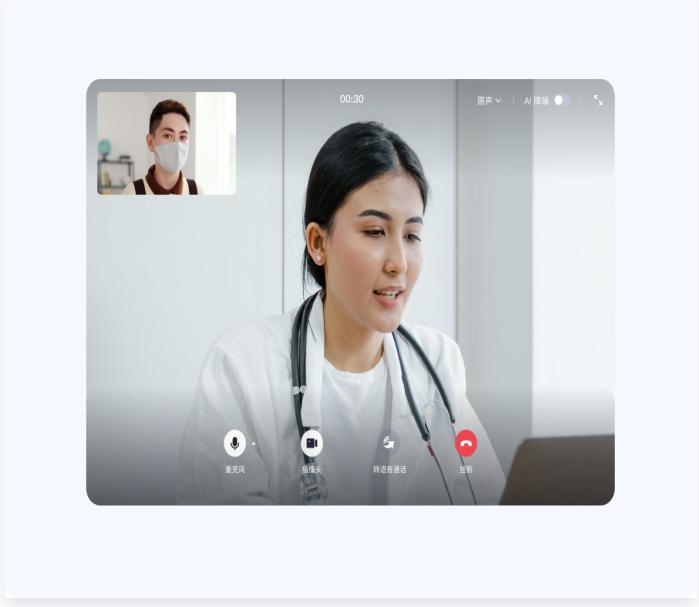
## Component Description

TUICallKit is a deeply customized product for call scenarios, offering the same UI components as WeChat video chat. With just three steps, it can go live in as fast as one day, saving up to 90% of development time. It supports global interconnectivity across mini programs, iOS, Android, Web, uni-app, Flutter, and other platforms. In video call scenarios, it offers common features such as dual participant audio/video calls, group audio/video calls, mid-call third-party involvement, AI call noise reduction, and call lag optimization. It supports various image qualities including standard definition, HD, and ultra HD, combined with low latency, high-quality audio and video services, helping you quickly build stable and reliable audio/video call applications.

Search for the required CAM policy as needed, and click to complete policy association.

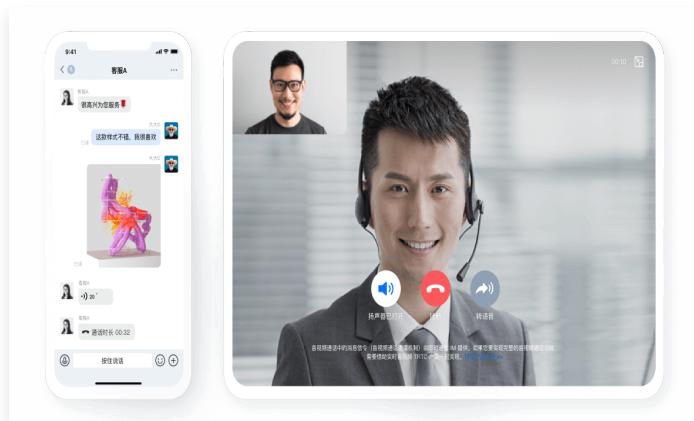


# Use Cases

Use Cases	Scenario Display	Description
Social Entertainment	<p>Search for the required CAM policy as needed, and click to complete policy association.</p> 	<p>Quickly build social entertainment applications with multi-platform interconnectivity and enjoy real-time communication interaction.</p> <ul style="list-style-type: none"> <li>• 1v1 Audio/Video Call</li> <li>• Group Call</li> <li>• Custom Ringtone</li> <li>• Custom Avatar, Nickname</li> <li>• Call Floating Window</li> </ul>
Remote Medical Services	<p>Search for the required CAM policy as needed, and click to complete policy association.</p> 	<p>It offers stable and reliable call features, quickly enabling scenarios such as 1v1 psychological counseling and video consultation.</p> <ul style="list-style-type: none"> <li>• Low Latency Real-time Interaction</li> <li>• On-Cloud Recording</li> <li>• AI Noise Reduction</li> <li>• Background</li> </ul>
Online Customer	<p>Search for the required CAM policy as needed, and click to complete policy</p>	<p>Quickly integrate the online customer service feature to</p>

mer  
Service  
e

association.



provide better communication service for your customers.

- 1V1 Audio/Video Call
- Offline Push
- Call Floating Window
- Background

Online  
Educa  
tion

Search for the required CAM policy as needed, and click to complete policy association.



Connect teachers and students through audio/video calls for easy classroom interaction.

- Group Call
- AI Noise Reduction
- Weak Network Lag Optimization

## Features Overview

### ① Feature Description:

TUICallKit combines the capabilities of Instant Messaging and TRTC to offer low-code components with UI. By writing just a few lines of code, you can add the audio/video call feature to your app. For more features and billing instructions, refer to [activate the Service](#).

## Basic feature

### Feature Description

1v1 Voice, Video Call	One-to-one voice/video chat
Group Call (invite others midway, join midway)	Multiple people can have voice/video calls at the same time and invite other members to join during the call
Custom Ringtones	Users can set app ringtones and offline push ringtones according to their needs/preferences
Set Avatar and Nickname	Users can set their avatar and nickname according to their needs/preferences
Call Floating Window	After minimizing the call interface, it can float above the application interface in a floating window style
Mini Program Call Acceleration	Supports call acceleration and mini program room call acceleration optimization on the mini program end to ensure call quality.

## Advanced Features

	Feature Description
Offline Push	Even when the application is not open, users can receive audio and video call ring calls through push notifications.
Virtual Background	During a video call, users can set a blurry background or image background to hide the real call environment, protect privacy, and make the call more interesting. Supports iOS, Android, Flutter, mini-program, and Web End.
Cloud Recording	Facilitates users to archive and audit important call content.
AI Noise Reduction	Effectively filters background noise using AI capabilities, restores call quality, and improves audio quality.
Multi-client login on the same platform for calls	Supports multiple devices on the same platform, such as multiple iOS devices. When a call is answered on one device, it automatically stops the incoming requests on other devices.
Weak Network Lag Optimization	Optimizes lagging rate and enhances instantaneous loading speed in poor network environments like outdoors.
Call Records (Dashboard+API)	Provides call data statistics and a visual dashboard of call records. The service includes statistical data such as the number of calls, the number of participants in a call, and the

maximum concurrent calls. It also provides single call record information such as call initiation time, number of call participants, and call duration.

## Supported Platforms

Platform	Android	iOS	Web&H5 (Vue2/Vue3)	Web &H5 (React)	uni-app (Mini Program)	Flutter	uni-app (Client)	WeChat Mini Program
Support Availability	✓	✓	✓	✓	✓	✓	✓	✓
Supported Programming Languages/Frameworks	<ul style="list-style-type: none"> <li>Kotlin</li> <li>Java</li> </ul>	<ul style="list-style-type: none"> <li>Swift</li> <li>Objective-C</li> </ul>	<ul style="list-style-type: none"> <li>Vue 3</li> <li>Vue 2</li> </ul>	<ul style="list-style-type: none"> <li>React</li> </ul>	<ul style="list-style-type: none"> <li>Vue 3</li> <li>Vue 2</li> </ul>	Dart	<ul style="list-style-type: none"> <li>Vue 3</li> <li>Vue 2</li> </ul>	—

## Trying It Online

Platform	Web	Android	iOS	WeChat Mini Program
Online Experience				
Demo Integration	<a href="#">Github: web</a>	<a href="#">Github: Android</a>	<a href="#">Github: iOS</a>	<a href="#">Github: WeChat Mini Program</a>

## TRTC Technology Exchange Group

Join [Tencent TRTC TRTC Technology Exchange Group](#), you will get:

- Reliable technical support
- Product details
- Close Industry Exchange

# Activating TUICallKit Service

Last updated: 2025-03-27 11:59:08

This article introduces how to [freely activate the trial version](#), [activate the official version](#), and [renew the official version](#) service. Based on [audio and video call capability version billing explanation](#), you can select the version you need and follow the guide below to freely activate and purchase and activate the official version of audio/video call capability.

## Note:

Thank you sincerely for your trust and long-term support of this product. To meet constantly changing market demands, continuously enhance user experience and optimize product performance, we have upgraded the product. You are cordially invited to upgrade to the new version to experience better effects and features. Note as follows:

- New [calls](#) API across all platforms, supporting initiating one-to-one calls or group calls, more flexible call member management, and support for a more powerful REST API. Welcome to use.
- New [join](#) API across all platforms, in conjunction with the calls API, supports joining existing calls.
- For users who need to upgrade to the calls API, please note the version grayscale. Use the calls API for calling. If the other party's version is not upgraded, it will cause a call failure.

## Enable the Trial Version

TUICallKit is an audio/video communication component built on two paid PaaS services from Tencent Cloud: [Chat](#) and [Tencent Real-Time Communication \(TRTC\)](#). To provide you with a better experience of audio/video call features, we offer a 7-day trial version of the audio/video call capability for free for each SDKAppID (the trial version does not include additional call duration). Each SDKAppID can be tried for free twice, with each trial lasting 7 days.

Meanwhile, the total experience times for all SDKAppIDs under one account is 10 times.

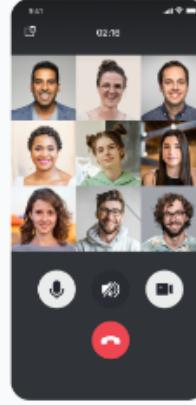
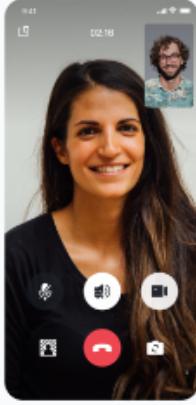
1. Log in to the [TRTC console](#), click to enter the left-side application management page, and click [Create Application](#). Enter the name of your application in the pop-up dialog box and click [Create Application](#).

### 创建应用

应用名称 \*

场景(选填)  视频通话 (TUICallKit)  

多人会议 (TUIRoomKit)  
 直播/语聊房 (TUILiveKit)  
 自由集成 (无UI)  
 暂不选择场景



\*选择场景后, 仍可以体验集成其他不同场景方案

应用版本 体验版 [版本详情 ▾](#)

免费领取7天体验版  

解锁全部TRTC功能, 但使用音视频通话、云端录制和混流等功能**产生用量会产生相应费用**, [计费说明](#)  。

标签 标签键 标签值 x

[+ 添加](#) [键值粘贴板](#)

[创建应用](#)

**Note:**

If you check **Claim a free trial coupon for a 7-day trial version** when creating, you can quickly create an application and claim the trial version. **After claiming the trial version, all audio/video call features will be unlocked.**

2. Click the created application to enter the application management page. Find **Low-code Scenario Solution with UI > Video Call (TUICallKit)** in the bottom-right corner of the page. Click **Claim Experience** to activate the 7-day free trial service of TUICallKit. After claiming, you can see the basic information of the trial version, including service status, version information, feature details, and expiration time. The **SDKAppID** and **SDKSecretKey** here will be used in subsequent steps.

### Note:

- If necessary, you can click [Scene Package Subscription](#) to go to purchase page for official application launch.
- The audio/video call capability of IM provides differentiated paid editions for different business needs for you to choose from. You can learn about the included features on the [IM Purchase Page](#) and purchase the edition suitable for you.

3. If the trial version you currently claim with your SDKAppID has expired, you can click [Version Detail](#). In the pop-up of version detail, click [Experience Renewal](#) to directly use the second trial opportunity. At this point, the valid period of the trial version will be extended by 7 days.

**Note**

Extend the valid period of the trial version through **Experience Renewal**, which will consume 1 free trial opportunity.

## Enable the Official Version

Audio/video call capability is one of the TRTC Component Capabilities. The official version of audio/video call capability can only be purchased when the IM application is in the Ultimate Edition. You can see [audio and video call capability version billing explanation](#) to confirm the version you need to use and go to [buy official version](#) of audio/video call capability.

1. Log in to the [TRTC purchase page](#).
2. Select configuration based on actual business needs. For scheme selection, select **Low-code Rapid Development with UI**, as well as the SDKAppID for which you need to purchase audio/video call capability. It cannot be modified after purchase.

The screenshot shows the configuration options for the audio and video call capability. It includes sections for '接入方案' (Access Scheme), '使用须知' (Usage Requirements), '选择应用' (Select Application), and current application versions.

- 接入方案 (Access Scheme):**
  - 无 UI 自定义开发 (No UI Custom Development):** Directly integrated into the TRTC SDK, flexible development requirements. Includes:
    - ✓ 订阅解锁更多平台和场景 (小程序通话等) (Subscription unlocks more platforms and scenarios (such as mini-program calls, etc.))
    - ✓ 单独购买时长包享受更多优惠 (When purchased separately, enjoy more discounts)
  - 含 UI 低代码快速开发 (Contains UI Low-Code Rapid Development):** Based on TRTC and IM scene components, 1 day to complete integration. Includes:
    - ✓ 音视频通话场景 —— TUICallKit (Audio and video call scene —— TUICallKit)
    - ✓ 多人音视频会议场景 —— TUIRoomKit (Multi-person audio and video conference scene —— TUIRoomKit)
- 使用须知 (Usage Requirements):** Includes:
  - 套餐赠送音视频时长有效期为 1 个月, 用尽/到期后, 默认按后付费结算 (The package赠送音视频 duration is valid for 1 month, after which it will default to postpaid)
  - 搭配 IM 套餐拓展多样业务场景 (Complement the IM package to expand various business scenarios)
- 选择应用 (Select Application):** A dropdown menu with a 'Create New Application' button. A red box highlights this section. Below it is a note: '请确认应用选择正确, 购买后无法修改' (Please confirm the application selection is correct, cannot be modified after purchase).
- 当前应用版本 (Current Application Version):** TRTC: 体验版 (Tencent Cloud Test Version) and IM: 体验版 永久有效 (IM: Test Version,永续有效).

3. Select the package type **audio and video call** and choose the package version you need to activate. For more details on the capabilities of the audio and video call package, see [audio and video call capability version billing explanation](#).

## 选择套餐

套餐类型
多人音视频 (TUIRoomKit)  
适用于企业会议、网络研讨会、在线教育、语音聊天室等多人音视频互动场景。[查看 UI 示例](#)
在线直播/语音聊天室 (TUILiveKit)  
适用于电商直播、语音聊天室、秀场直播、直播课等直播场景。[查看 UI 示例](#)

套餐版本		对比项	1v1 通话版 支持 1v1 语音/视频通话	群组通话版 - 38万分钟 支持小程序和群组通话	群组通话版 - 140万分钟 移动端虚拟背景 + 海量时长
套餐组合方式	TRTC 基础版	未开通	TRTC 尊享版	未开通	TRTC 旗舰版
	IM 专业版	未开通	IM 旗舰版	未开通	IM 旗舰版
套餐组合单价 (限时折扣)	¥ 1000.00	¥ 1000.00	¥ 1000.00	¥ 1000.00	
套餐赠送资源	音视频时长	11 万分钟/月	38 万分钟/月	140 万分钟/月	
组件专属能力	微信同款 UI	✓	✓	✓	
	通话呼叫/接听/拒绝/挂断	✓	✓	✓	
	通话悬浮窗	✓	✓	✓	
	通话呼叫通知	✓	✓	✓	
	自定义呼叫铃声	✓	✓	✓	
	视频通话切换语音通话	✓	✓	✓	
	1v1 通话	✓	✓	✓	
	群组通话 (HOT)	/	✓	✓	
	通话记录 (看板 + API)	/	✓	✓	
	中途呼叫/加入三方通话	/	✓	✓	
小程序通话加速 (HOT)	/	✓	✓		

配置费用
共计2款商品
立即购买

4. After purchase completion, you can return to the **TRTC console** and view current version information in the **UI low-code integration access** feature area. After activation completed,

you can see [integration guide](#) to integrate.

含 UI 低代码集成接入

◀ 视频通话 (TUICallKit) 多人会议 (TUIRoomKit) 在线直播/语音聊天室 (TUII ▶

视频通话 (TUICallKit) 提供了音视频通话场景下常见的1V1通话、群组通话等功能，提供微信视频聊天同款 UI 快速集成方案，仅需几行代码即可快速集成。[方案介绍](#)

**基本信息**

服务状态 可集成  
当前版本 1v1通话版 ⓘ [版本详情](#)  
到期时间 2024-11-11 ⓘ [续期](#)  
自动续期 未开启 ⓘ [开启自动续期](#)

## Features and Billing Instructions

TUICallKit is technically supported by TRTC and Chat. You need to purchase the specified package before using TUICallKit. For information on the free trial version, refer to [Activate TUICallKit Trial Version](#).

The following table shows the features and pricing of the recommended packages for TUICallKit. You can also freely combine TRTC monthly packages and IM versions to get the corresponding version of TUICallKit. TRTC Basic Edition in conjunction with IM Professional Edition/Flagship Edition/Enterprise Edition can use the 1v1 call edition of TUICallKit; TRTC Prestige Edition and Flagship Edition in conjunction with IM Professional Edition/Flagship Edition/Enterprise Edition can use the group call version of TUICallKit. For detailed billing information of TUICallKit, please refer to [Tencent RTC Call SDK Billing Instructions](#).

Recommended Packages	Trial Version	1V1 Call Edition	Group Call Version 380,000 Minutes	Group Call Version 1.4 Million Minutes
Price	0 CNY/7 days	2,124 CNY/month <a href="#">Purchase Now</a>	4,874 CNY/month <a href="#">Purchase Now</a>	9,249 CNY/month <a href="#">Purchase Now</a>

Including package versions		TRTC Trial Version + Any version of IM	TRTC Basic Version + IM Professional Edition	TRTC Premium Version + IM flagship version	TRTC flagship edition + IM flagship version
Gift resources (Exceeding postpaid id)	Call duration	—	110,000 minutes per month	380,000 minutes per month	1,400,000 minutes per month
	Daily Active Users (DAU)	According to the IM version	10,000 DAU	10,000 DAU	10,000 DAU
	Peak Group Count	According to the IM version	100,000 per month	100,000 per month	100,000 per month
TUI Call Kit Exclusive Feature	1v1 Video, Audio Call	✓	✓	✓	✓
	WeChat-like UI Design	✓	✓	✓	✓
	Call status display	✓	✓	✓	✓
	Offline Push (When the application is not open, users can still receive ring calls for audio and video calls through message push)	✓	✓	✓	✓
	Call floating window (After the call interface is collapsed, it can be displayed as a floating window above the	✓	✓	✓	✓

application interface.)				
Customize call ringtone	✓	✓	✓	✓
Call/Answer/Decline/Hang up	✓	✓	✓	✓
Switch from video call to voice call	✓	✓	✓	✓
Group call	✓	—	✓	✓
Mid-call/Join a three-way call	✓	—	✓	✓
<b>Call record (dashboard + API)</b>	✓	—	✓	✓
Mini Program Call Acceleration Support Mini Program End Call and Mini Program Room Entry Call Acceleration Optimization to ensure call quality.	✓	—	✓	✓
Virtual background (Perform video calls, you can blur the background or replace the background image, support iOS, Android, Flutter, uin-app and Web)	✓	—	—	✓
Multi-end login call	✓	—	✓	✓

Seamless connection on any platform will automatically suspend other endpoint requests.				
Cross-platform multi-end login and call (Support same platform, such as multiple iOS devices logged in. Answer calls on any device and Automatically Suspend Other Device Access Requests.)	✓ (Use only in conjunction with IM flagship version)	-	✓	✓
AI noise reduction (Leverage AI capabilities to effectively filter background noise and restore call quality)	✓	-	✓	✓
Weak network call lag optimization (Optimize the lag rate in outdoor and other weak network environments, with faster instant opening speed)	✓	-	✓	✓
<b>Chat Functionality</b>	According to the IM version <a href="#">See IM functionality</a>	See details <a href="#">IM Professional</a>	See details <a href="#">IM flagship</a>	See details <a href="#">IM flagship</a>

Version	Official Edition Features	Trial Version Features	Premium Version Features	Flagship Edition Features
Tencent Real-Time Communication (TRTC) features	See details <a href="#">Basic features of TRTC</a>	See details <a href="#">Basic features of TRTC</a>	See details <a href="#">Premium version features of TRTC</a>	See details <a href="#">Features of TRTC flagship edition</a>
Post-paid for additional resources	The post-payment price for call duration is detailed in <a href="#">audio/video duration billing instructions</a> . The post-payment prices for DAU and peak group count are detailed in <a href="#">IM billing instructions</a> .			
Supported Platforms	iOS, Android, Web, <b>WeChat mini program (only available in trial version and group call version)</b> , uni-app, Flutter			

**!** **Note:**

- Including package versions:** TUICallKit is provided jointly by TRTC and IM Basic Package. To use TUICallKit, you need to simultaneous purchase TRTC monthly package and IM Basic Package. The features of TUICallKit provided by different version packages vary.
- DAU:** A single-user daily login to Chat counts as 1 DAU. DAU does not accumulate for repeated logins by the same user.
- Peak group count:** The total number of groups created and joined by all users under a single application (SDKAppID), settled based on the highest peak value in a natural month.

## Renew the Official Version

You can renew the official version application. Specific operations are as follows:

1. Log in to the [TRTC console](#), click on the left **Application Management**, select the application for which you need to renew the audio and video call (TUICallKit) capacity, and enter the application management page.
2. Find **low-code scenario solution with UI > Video Call (TUICallKit)** in the bottom-right corner of the page, click **Renew** to go to the [TRTC purchase page](#) to renew. For package price description, please see [audio and video call capability version billing explanation](#).

## 含 UI 低代码集成接入

视频通话 (TUICallKit)

多人会议 (TUIRoomKit)

在线直播/语音聊天室 (TUII ▶)

视频通话 (TUICallKit) 提供了音视频通话场景下常见的1V1通话、群组通话等功能，提供微信视频聊天同款 UI 快速集成方案，仅需几行代码即可快速集成。[方案介绍](#)

## 基本信息

服务状态 可集成

当前版本 1v1通话版 ⓘ [版本详情](#)到期时间 2024-11-11 ⓘ [续期](#)自动续期 未开启 ⓘ [开启自动续期](#)

## | 选择配置

接入方案



## 无 UI 自定义开发

直接集成TRTC SDK, 灵活开发多样化的  
需求  
✓ 订阅解锁更多平台和场景 (小程序通话等)  
✓ 单独购买时长包享受更多优惠



## 含 UI 低代码快速开发

基于TRTC与IM的场景组件, 1天即可完成接入  
✓ 音视频通话场景 —— TUICallKit  
✓ 多人音视频会议场景 —— TUIRoomKit

使用须知

✓ 套餐内赠送音视频时长仅抵扣音视频时长用量, 有效期为 1 个月, 用尽/到期后, 默认按后付费结算

✓ 搭配 IM 套餐拓展多样业务场景

选择应用



创建新应用

请确认应用选择正确, 购买后无法修改

当前应用版本

TRTC: 基础版 有效期至: 2024-11-11

IM: 旗舰版 有效期至: 2024-11-11

## | 选择套餐

套餐类型



## 音视频通话 (TUICallKit)

适用于社交聊天、医疗问诊、视频客服、视  
频面试等轻量音视频通话场景。查看 UI 云  
例



## 多人音视频 (TUIRoomKit)

适用于企业会议、网络研讨会、在线教育、  
语音聊天室等多人音视频互动场景。查看  
UI 云例



## 在线直播/语音聊天室 (TUILiveKit)

适用于电商直播、语音聊天室、秀场直播、  
直播课等直播场景。查看 UI 云例

根据已开通版本进行续费

套餐版本

对比项

1v1 通话版 续期

支持 1v1 语音/视频通话

群组通话版 - 38万分钟 升级

支持小程序和群组通话

群组通话版 - 140万分钟 升级

移动端虚拟背景 + 海量时长

套餐  
价格

套餐组合方式

TRTC 基础版 已开通IM 旗舰版 已开通TRTC 尊享版 未开通IM 旗舰版 已开通TRTC 旗舰版 未开通IM 旗舰版 已开通套餐  
赠送  
资源套餐组合单价 限时折扣

11 万分钟/月

38 万分钟/月

140 万分钟/月

音视频时长

配置费用

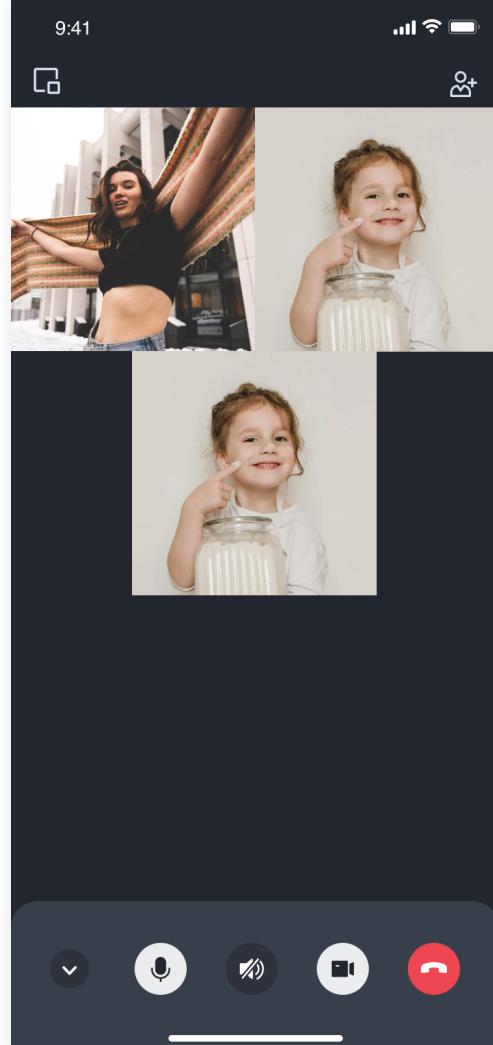
共计2款商品

立即购买

# Running a Demo (TUICallKit) Android

Last updated: 2025-03-27 11:52:36

This article will show you how to quickly run the audio and video call demo. By following this document, you can run the demo within 10 minutes and finally experience an audio and video call feature with a complete UI interface.

Video Call	Group call
<p>Search for the required CAM policy as needed, and click to complete policy association.</p>  <p>麦克风已关闭 扬声器已开启 摄像头已开启</p>	<p>Search for the required CAM policy as needed, and click to complete policy association.</p> 

## Environment Preparation

- [Android Studio](#)
- Two devices running Android 5.0 or later.

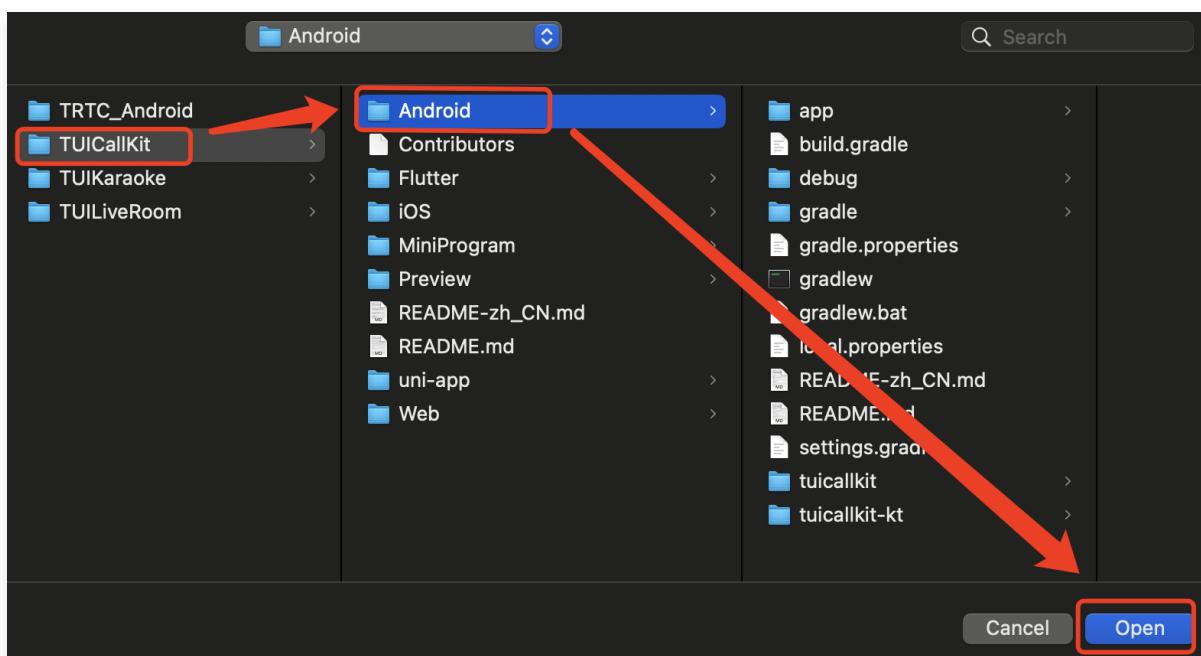
## Step 1: Download the demo

1. Download the [TUICallKit Demo](#) source code from GitHub, or run the following command in the terminal:

```
git clone https://github.com/Tencent-RTC/TUICallKit.git
```

2. Open the TUICallKit Android project through Android Studio:

Search for the required CAM policy as needed, and click to complete policy association.



## Step 2: Configure the demo

1. [Enable Audio and Video Services](#) and obtain the SDKAppID and SDKSecretKey.

Search for the required CAM policy as needed, and click to complete policy association.

The screenshot shows the 'callkit\_test' application in the '应用管理' (Application Management) section. The 'SDKAppID' and 'SDKSecretKey' fields are highlighted with a red box, indicating they are the values to be obtained from the 'Enable Services' step.

## 2. Open the

Android/debug/src/main/java/com/tencent/qcloud/tuikit/debug/GenerateTestUserSig.java

file and enter the obtained **SDKAppID** and **SDKSecretKey** from the [Enable Services](#):

Search for the required CAM policy as needed, and click to complete policy association.

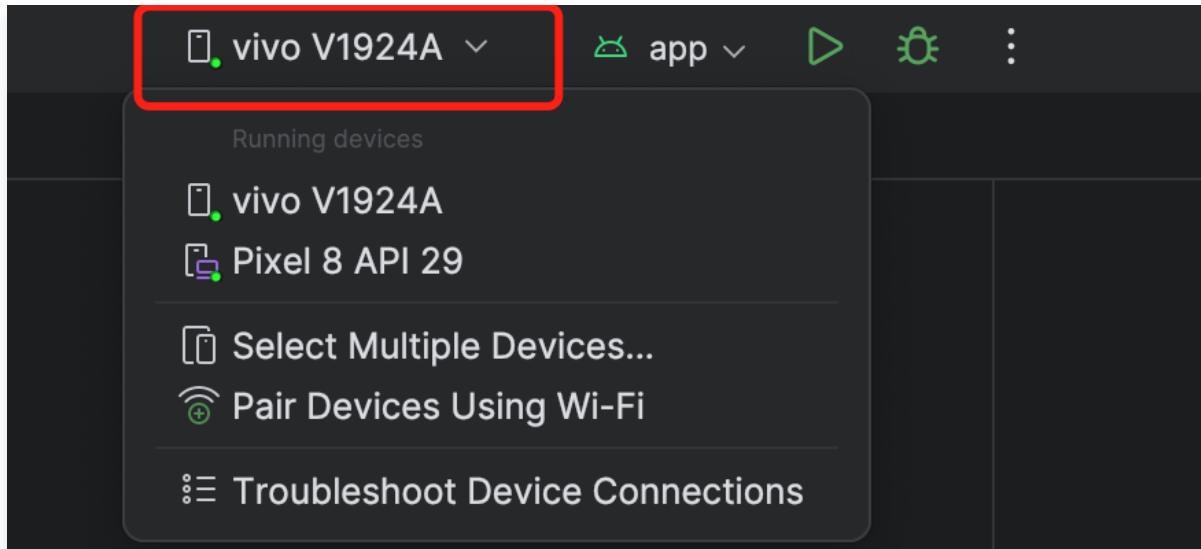
```

Android
├── README.md
└── GenerateTestUserSig.java
  30  * Reference: https://www.tencentcloud.com/document/product/1047/34385
  31  */
  32 3 usages 1 reneechai
  33 38
  34  public class GenerateTestUserSig {
  35
  36  /**
  37  * Tencent Cloud SDKAppID. Set it to the SDKAppID of your account.
  38  * <p>
  39  * You can view your 'SDKAppId' after creating an application in the [Tencent Cloud IM console].
  40  * SDKAppID uniquely identifies a Tencent Cloud account.
  41  */
  42
  43 2 usage
  44 40  public static final int SDKAPPID = PLACEHOLDER;
  45
  46  /**
  47  * Signature validity period, which should not be set too short
  48  * <p>
  49  * Unit: Second
  50  * Default value: 7 x 24 x 60 x 60 = 604800 (seven days)
  51  */
  52
  53 1 usage
  54 42  private static final int EXPIRETIME = 604800;
  55
  56  /**
  57  * Follow the steps below to obtain the key required for UserSig calculation.
  58  * <p>
  59  * Step 1. Log in to the [IM console](<a href="https://console.tencentcloud.com/im">https://console.tencentcloud.com/im</a>). If you don't have an
  60  * Step 2. Click your application and find "Basic Information".
  61  * Step 3. Click "Display Key" to view the key used for UserSig calculation.
  62  * Copy and paste the key to the variable below.
  63  * <p>
  64  * Note: This method is for testing only. Before commercial launch,
  65  * please migrate the UserSig calculation code and key to your backend server
  66  * to prevent key disclosure and traffic stealing.
  67  * Documentation: https://www.tencentcloud.com/document/product/1047/34385
  68  */
  69
  70 1 usage
  71 44  private static final String SECRETKEY = "PLACEHOLDER";
  
```

## Step 3: Running the demo

1. In the top right corner of Android Studio, select the device you want to run the demo on as shown in the figure:

Search for the required CAM policy as needed, and click to complete policy association.



2. After selecting, click run to run the TUICallKit Android demo on the target device.

Search for the required CAM policy as needed, and click to complete policy association.



3. After the Demo is successfully run on the device, you can initiate a call by following these steps:

## Make the first call

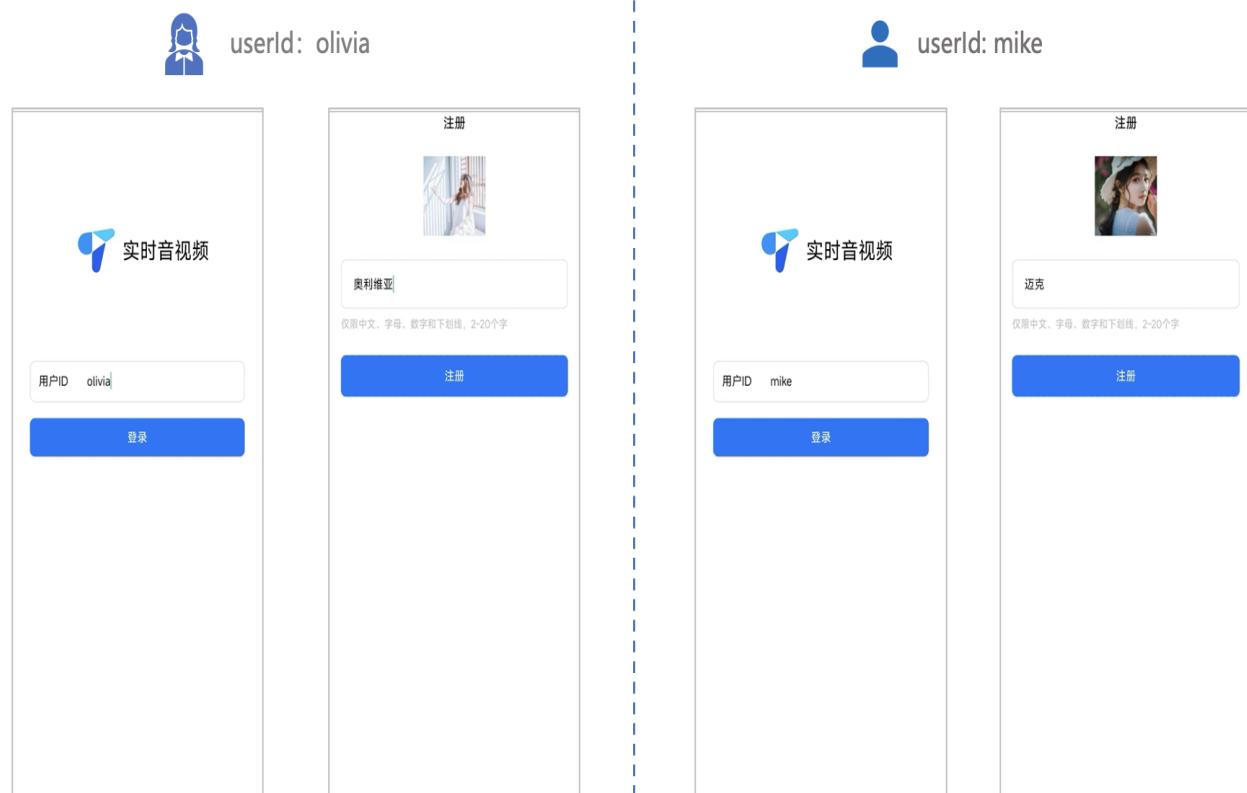
### **Note:**

To experience the complete audio and video call process, log in to two users on two different devices with the demo, one as the caller and the other as the receiver.

1. Login & Registration

Please enter the ID at `User ID`. If your current User ID has not been used before, you will enter the **Registration** interface, where you can set your avatar and nickname.

Search for the required CAM policy as needed, and click to complete policy association.



**⚠ Note:**

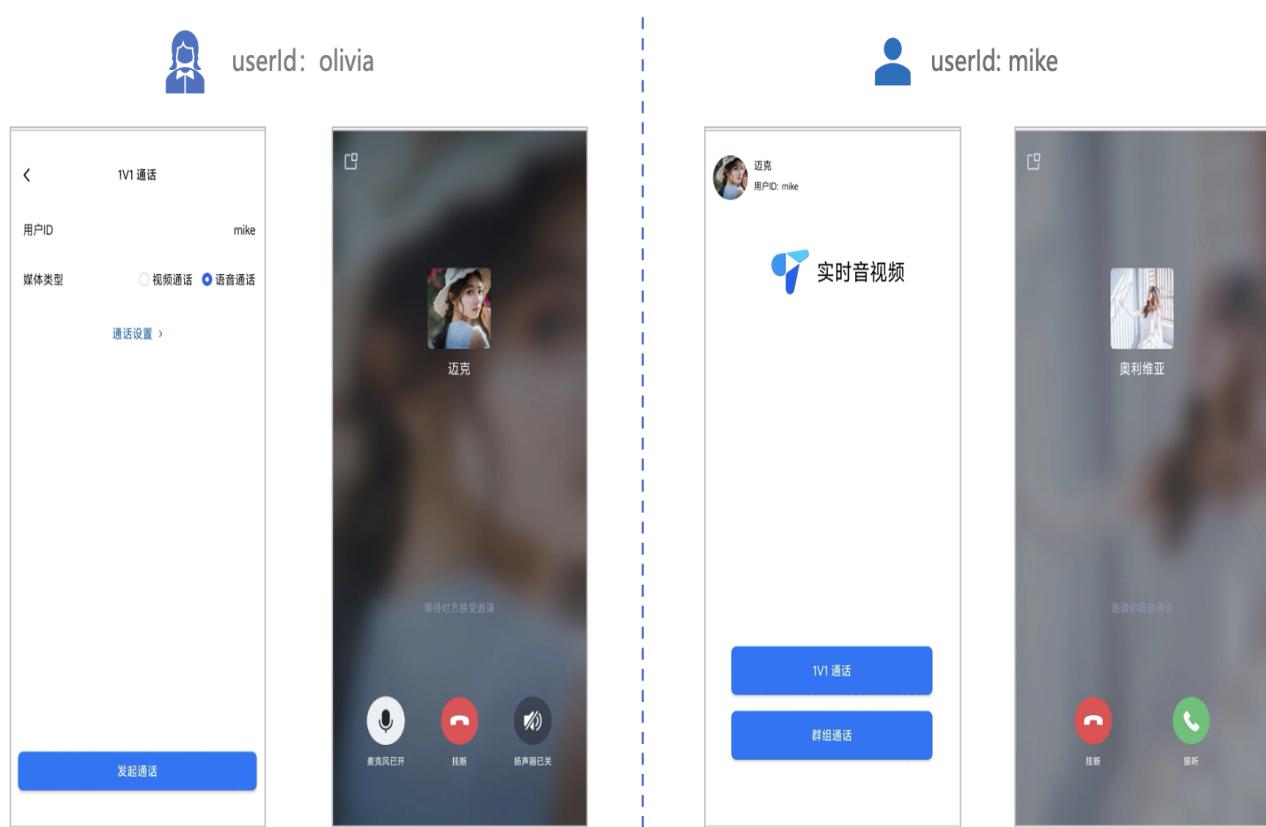
Try to avoid setting your User ID to simple strings like "1", "123", "111", etc. Since TRTC does not support multi-device login for the same User ID, such simple User IDs might be occupied by your colleagues during multi-person collaboration, leading to login failures. Therefore, we suggest setting distinctive User IDs during debugging.

## 2. Make a call

2.1 The caller should click **1:1 Call** on the interface, enter the receiver's User ID in the pop-up interface, and select the type of call you want.

2.2 click **Initiate Call**.

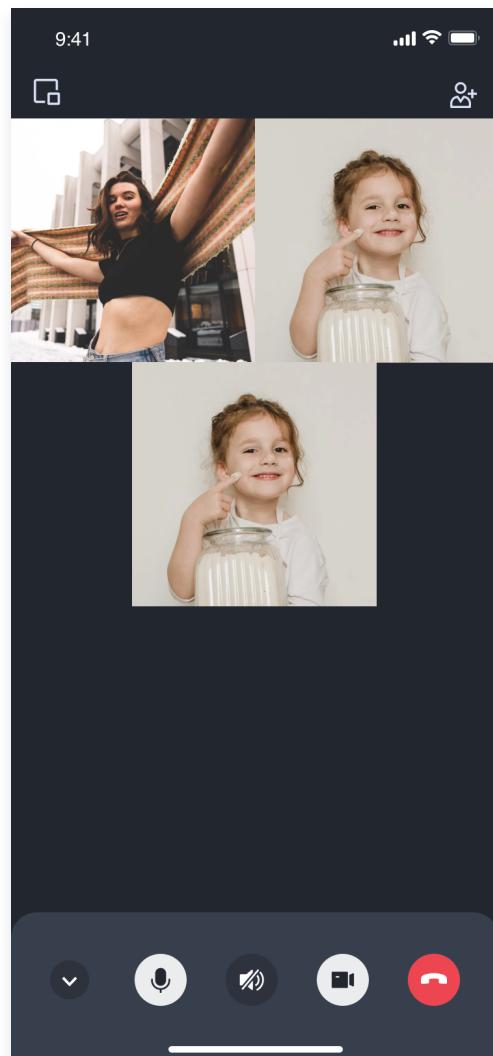
Search for the required CAM policy as needed, and click to complete policy association.



# iOS

Last updated: 2025-03-27 11:53:00

This article will show you how to quickly run the audio and video call demo. By following this document, you can run the demo within 10 minutes and finally experience an audio and video call feature with a complete UI interface.

Video Call	Group call
<p>Search for the required CAM policy as needed, and click to complete policy association.</p> 	<p>Search for the required CAM policy as needed, and click to complete policy association.</p> 

## Environment Preparation

- Xcode 13 or later.
- Two devices with iOS 13.0 or later.

## Step 1: Download the demo

1. Download the [TUICallKit Demo](#) source code from GitHub, or run the following command in the terminal:

```
git clone https://github.com/Tencent-RTC/TUICallKit.git
```

2. Navigate to the iOS project directory in the command line:

```
cd TUICallKit/iOS/Example
```

3. Load the dependency library:

```
pod install
```

 **Note:**

If you haven't installed CocoaPods yet, refer to [this guide](#) to learn how to install it.

## Step 2: Configure the demo

1. Activate the audio and video service to obtain **SDKAppID** and **SDKSecretKey**.

Search for the required CAM policy as needed, and click to complete policy association.



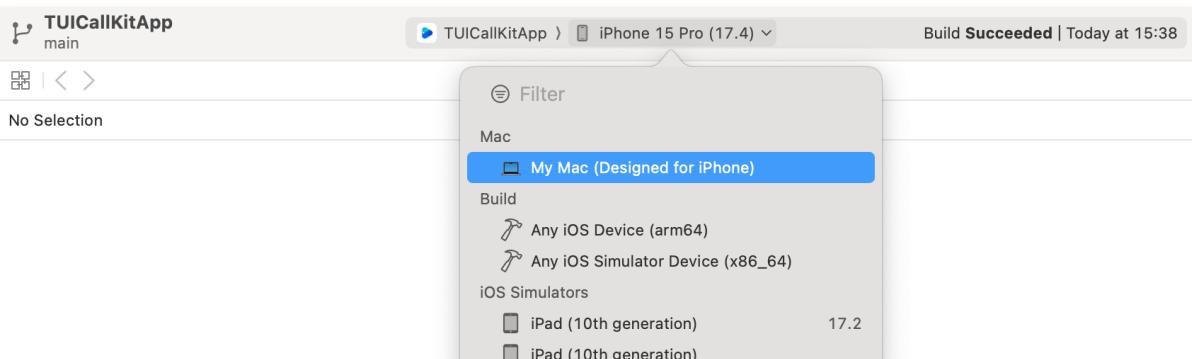
2. Open the `/iOS/Example/Debug/GenerateTestUserSig.swift` file and enter the corresponding **SDKAppID** and **SDKSecretKey** obtained when [activating the service](#):

Search for the required CAM policy as needed, and click to complete policy association.

```
⚠ TUICallKitApp › Debug › GenerateTestUserSig › No Selection
10 import CommonCrypto
11 import zlib
12
13 /**
14 * Tencent Cloud SDKAppId, which needs to be replaced with the SDKAppId under your own account.
15 *
16 * Enter Tencent Cloud IM to create an application, and you can see the SDKAppId, which is the unique identifier used by Tencent Cloud to
17 */
18 let SDKAPPID: Int = 0
19
20 /**
21 * Signature expiration time, it is recommended not to set it too short
22 *
23 * Time unit: seconds
24 * Default time: 7 x 24 x 60 x 60 = 604800 = 7 days
25 */
26 let EXPIRETIME: Int = 604_800
27
28 /**
29 * Encryption key used for calculating the signature, the steps to obtain it are as follows:
30 *
31 * step1. Enter Tencent Cloud IM, if you do not have an application yet, create one,
32 * step2. Click "Application Configuration" to enter the basic configuration page, and further find the "Account System Integration" section.
33 * step3. Click the "View Key" button, you can see the encryption key used to calculate UserSig, please copy and paste it into the following
34 *
35 * Note: This solution is only applicable to debugging demos.
36 * Before going online officially, please migrate the UserSig calculation code and keys to your backend server to avoid traffic theft caused by
37 */
38 let SECRETKEY = ""
39
```

## Step 3: Running the demo

1. In Xcode, select the device you want to run the demo on, as shown in the figure below:  
Search for the required CAM policy as needed, and click to complete policy association.



2. After selection, click to run and deploy our TUICallKit Android demo on the target device.

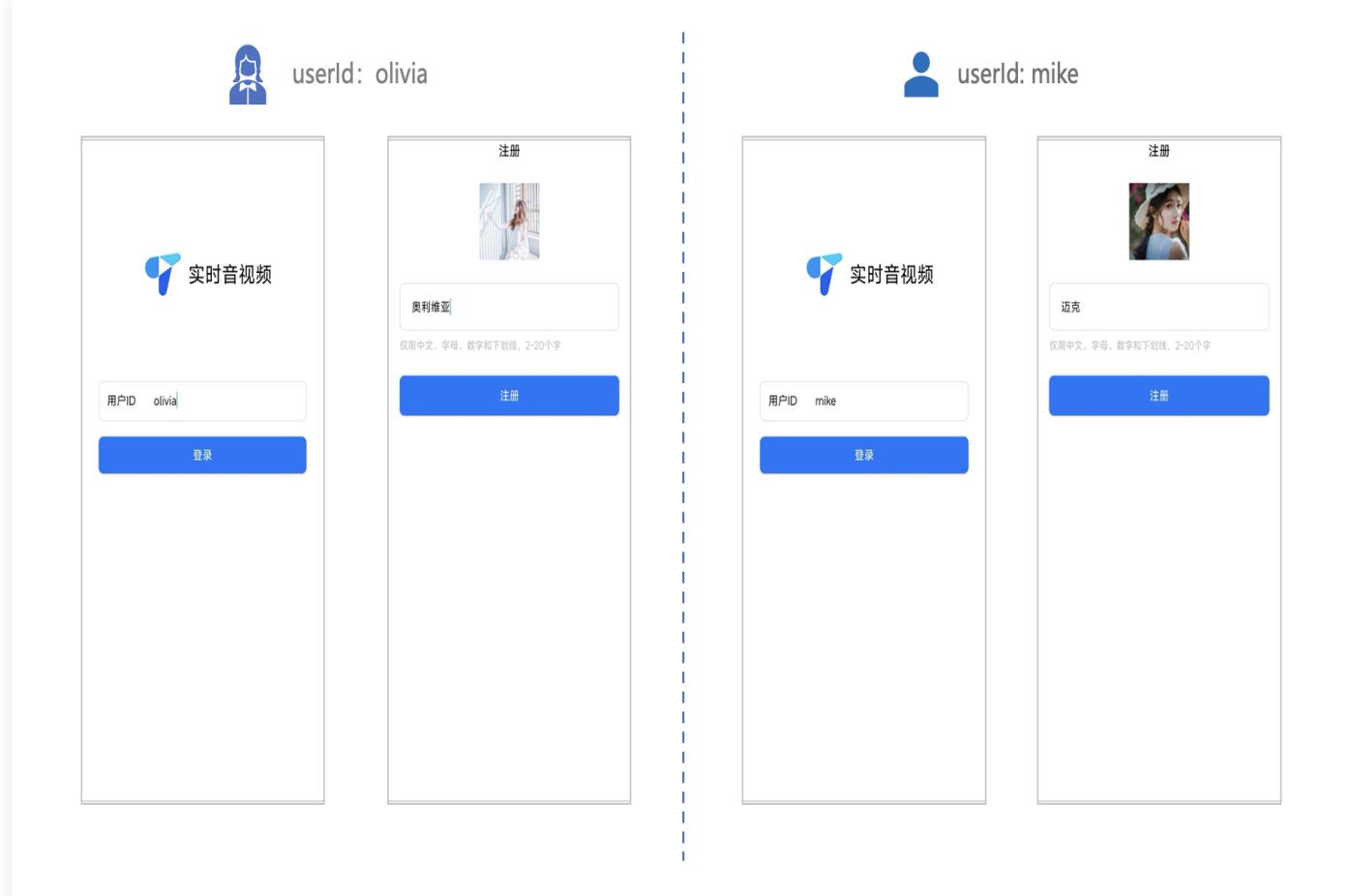
## Make the first call

### ⚠ Note:

To experience the complete audio and video call process, log in to two users on two different devices with the demo, one as the caller and the other as the receiver.

### 1. Login & Registration

Please enter the User ID in the `User ID` field. If your current UserID hasn't been used, you will be directed to the **registration** interface, where you can set your avatar and nickname. Search for the required CAM policy as needed, and click to complete policy association.



#### Note:

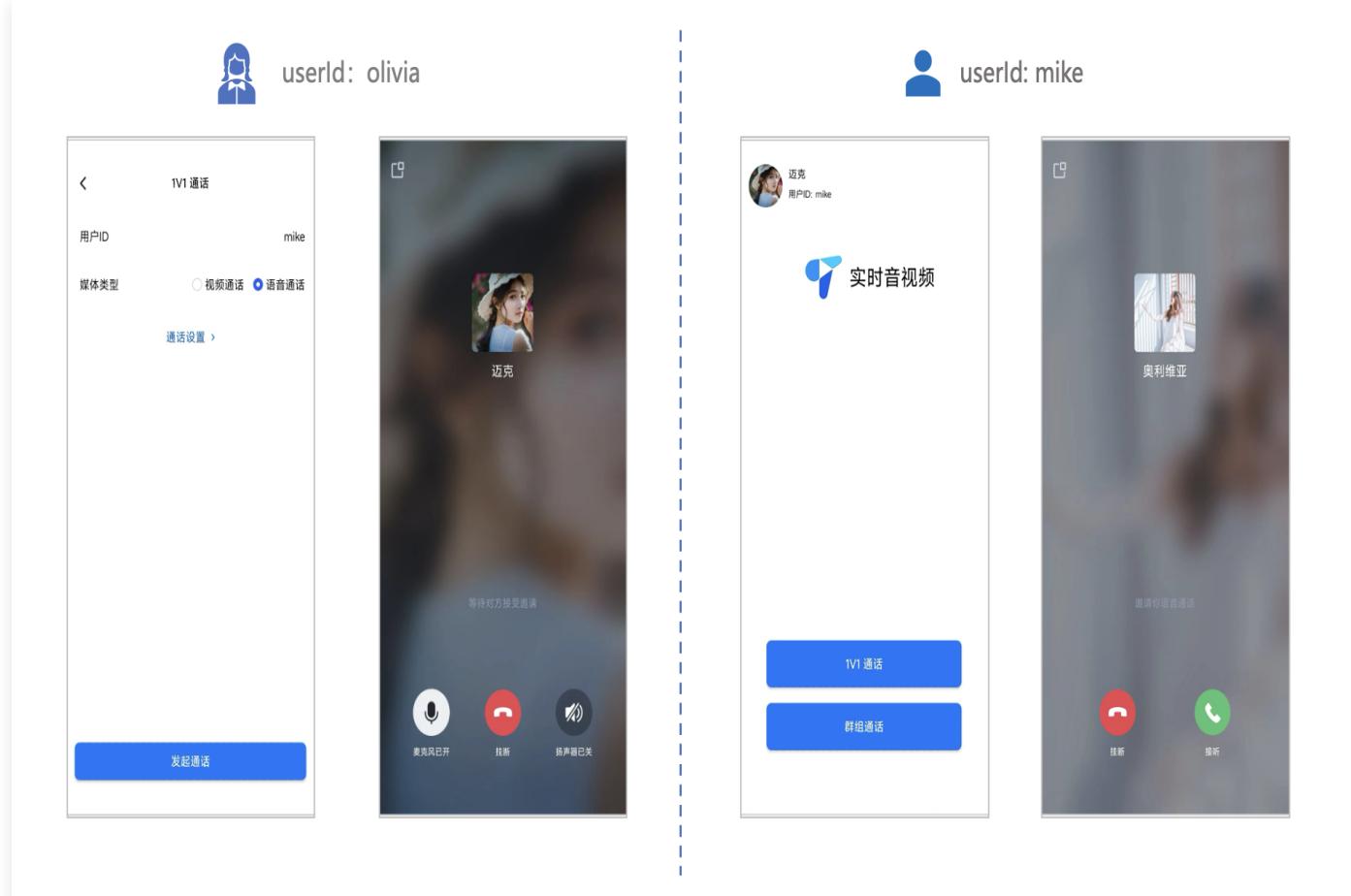
Try to avoid setting your User ID to simple strings like "1", "123", "111", etc. Since TRTC does not support multi-device login for the same User ID, such simple User IDs might be occupied by your colleagues during multi-person collaboration, leading to login failures. Therefore, we suggest setting distinctive User IDs during debugging.

## 2. Make a call

2.1 The caller should click **1:1 Call** on the interface, enter the receiver's User ID in the pop-up interface, and select the type of call you want.

2.2 click **Initiate Call**.

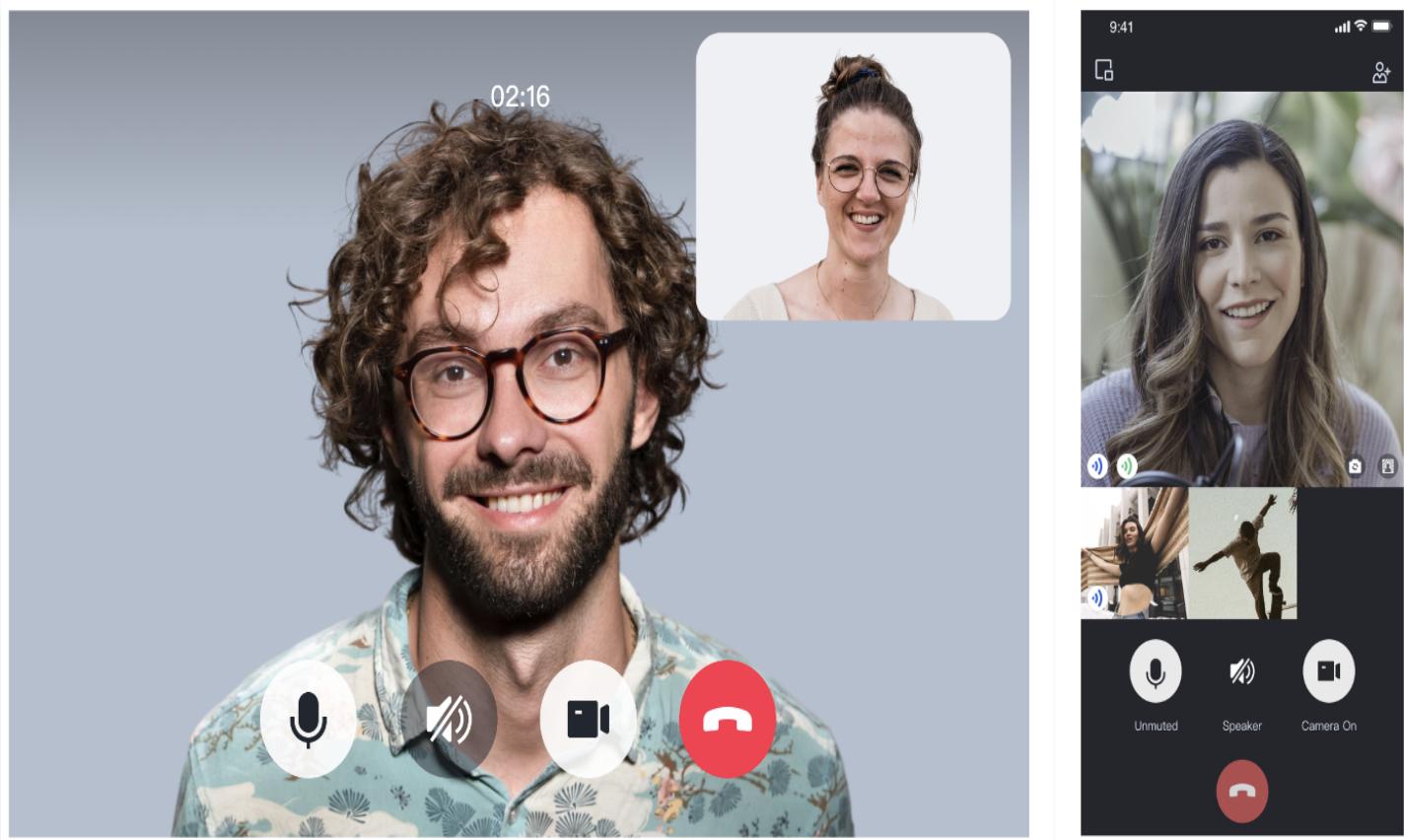
Search for the required CAM policy as needed, and click to complete policy association.



# Web

Last updated: 2025-03-27 11:54:27

This document will introduce how to quickly complete a video call demonstration. You will complete the following key steps within 10 minutes and finally obtain a video call feature with a comprehensive user interface.



## Environment Preparation

- Node.js. If not, [click to download](#).
- Modern browser, supporting WebRTC API.

## Step 1: Download Demo

1. Open terminal, clone repository.

```
git clone https://github.com/Tencent-RTC/TUICallKit.git
```

2. Install dependencies.

## React

```
cd ./TUICallKit/Web/basic-react
```

## Vue3

```
cd ./TUICallKit/Web/basic-vue3
```

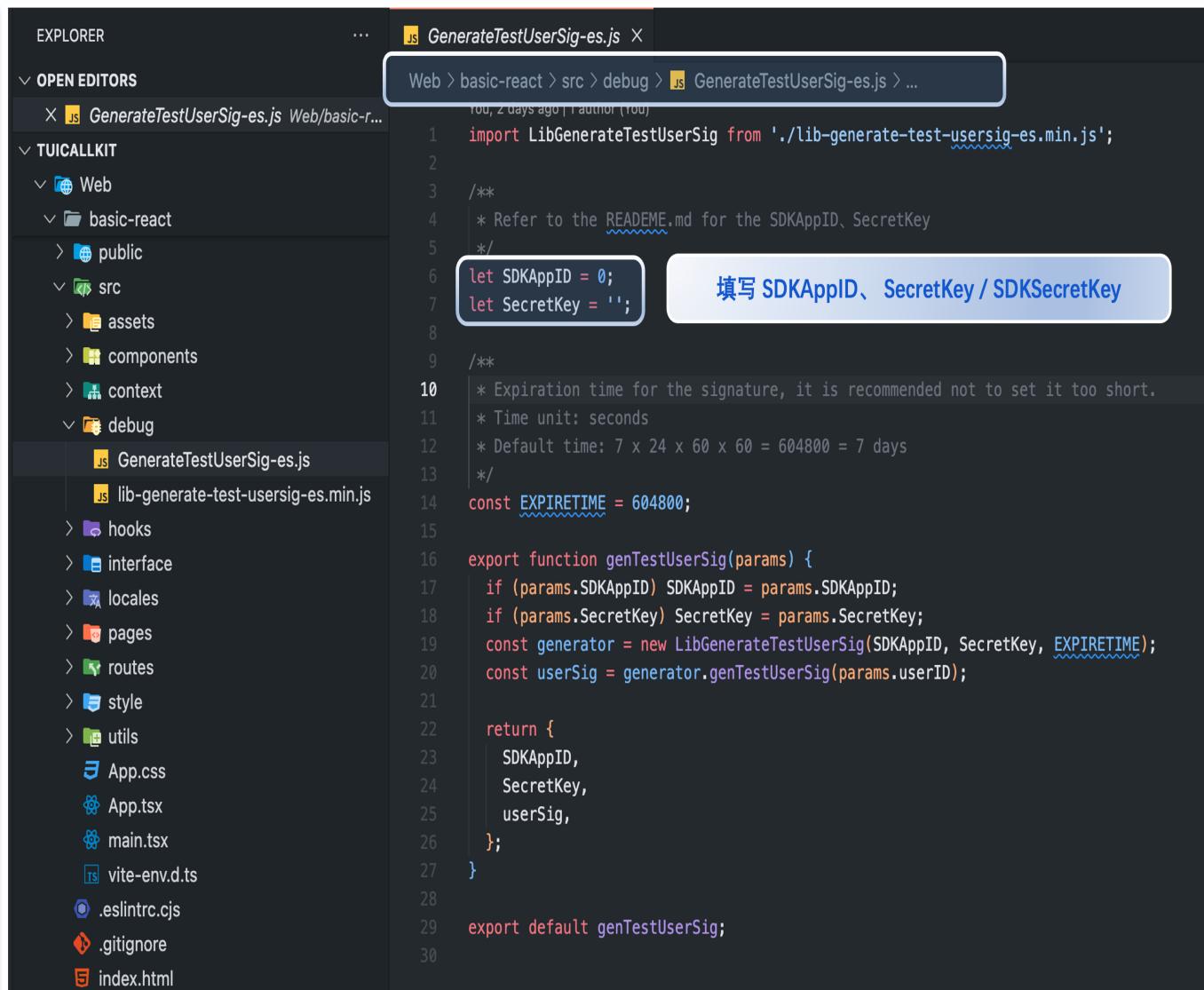
```
npm install
```

## Step Two: Configuration Demo

1. [Click to enter the Activate Service page](#), obtain `SDKAppID`, `SecretKey` .
2. Fill in `SDKAppID`, `SecretKey` .

## React

**File path:** `TUICallKit/Web/basic-react/src/debug/GenerateTestUserSig-es.js`



EXPLORER

OPEN EDITORS

Web > basic-react > src > debug > GenerateTestUserSig-es.js > ...

```
1 import LibGenerateTestUserSig from './lib-generate-test-usersig-es.min.js';
2
3 /**
4  * Refer to the README.md for the SDKAppID, SecretKey
5 */
6 let SDKAppID = 0;
7 let SecretKey = '';
8
9 /**
10  * Expiration time for the signature, it is recommended not to set it too short.
11  * Time unit: seconds
12  * Default time: 7 x 24 x 60 x 60 = 604800 = 7 days
13 */
14 const EXPIRETIME = 604800;
15
16 export function genTestUserSig(params) {
17     if (params.SDKAppID) SDKAppID = params.SDKAppID;
18     if (params.SecretKey) SecretKey = params.SecretKey;
19     const generator = new LibGenerateTestUserSig(SDKAppID, SecretKey, EXPIRETIME);
20     const userSig = generator.genTestUserSig(params.userID);
21
22     return {
23         SDKAppID,
24         SecretKey,
25         userSig,
26     };
27 }
28
29 export default genTestUserSig;
30
```

## Vue3

File path: TUICallKit/Web/basic-vue3/src/debug/GenerateTestUserSig-es.js

FOLDERS: TUICALLKIT

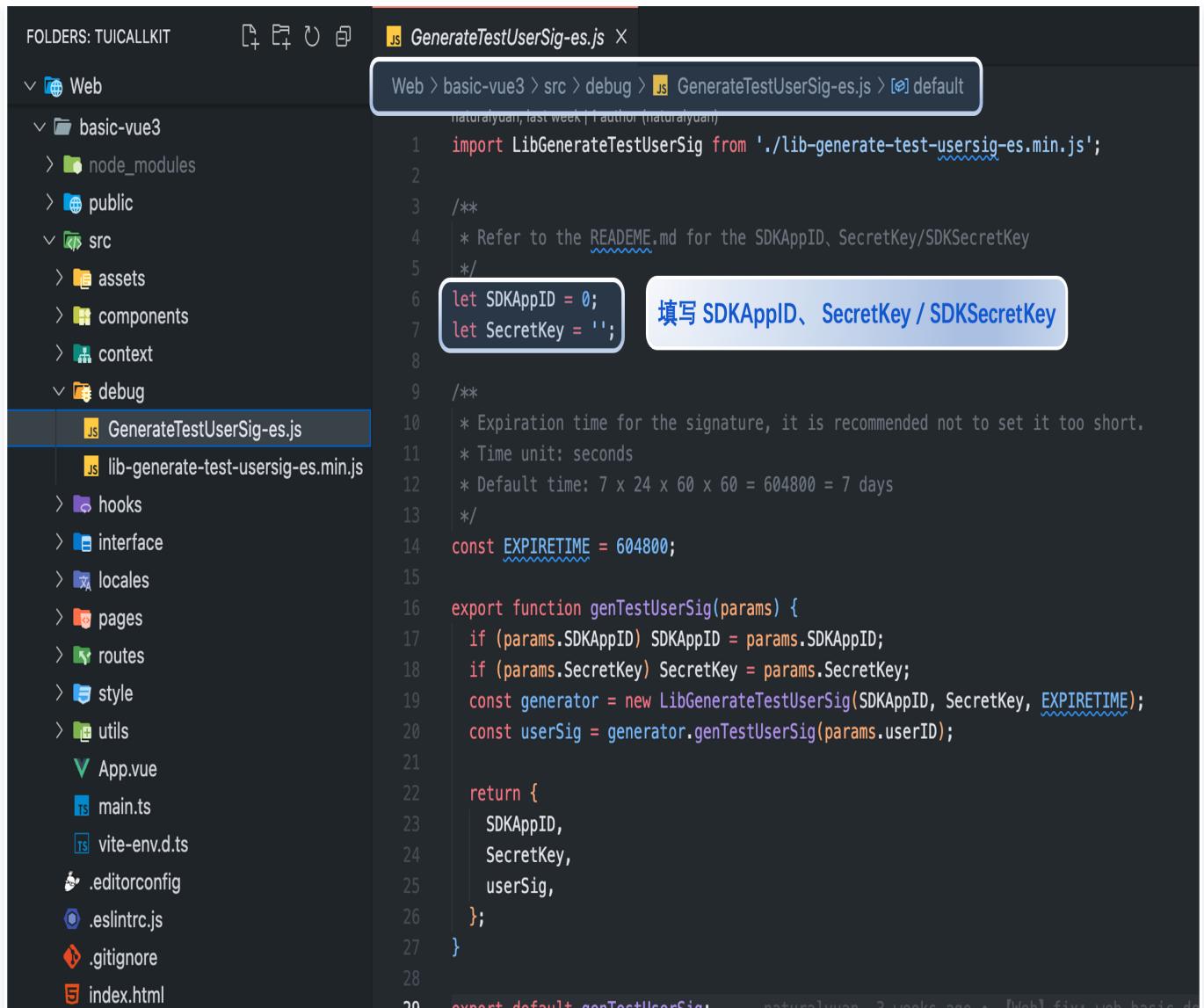
Web basic-vue3 src debug GenerateTestUserSig-es.js

Web > basic-vue3 > src > debug > GenerateTestUserSig-es.js > default

natralyuan, last week | 1 author (natralyuan)

```
1 import LibGenerateTestUserSig from './lib-generate-test-usersig-es.min.js';
2
3 /**
4  * Refer to the README.md for the SDKAppID, SecretKey/SDKSecretKey
5  */
6 let SDKAppID = 0;
7 let SecretKey = '';
8
9 /**
10  * Expiration time for the signature, it is recommended not to set it too short.
11  * Time unit: seconds
12  * Default time: 7 x 24 x 60 x 60 = 604800 = 7 days
13  */
14 const EXPIRETIME = 604800;
15
16 export function genTestUserSig(params) {
17     if (params.SDKAppID) SDKAppID = params.SDKAppID;
18     if (params.SecretKey) SecretKey = params.SecretKey;
19     const generator = new LibGenerateTestUserSig(SDKAppID, SecretKey, EXPIRETIME);
20     const userSig = generator.genTestUserSig(params.userID);
21
22     return {
23         SDKAppID,
24         SecretKey,
25         userSig,
26     };
27 }
28
29 export default genTestUserSig;    natralyuan, 3 weeks ago • [Web] fix: web basic de
```

填写 SDKAppID、SecretKey / SDKSecretKey



## Step 3: Run Demo

Open terminal, copy the sample command and run Demo.

TUICallKit/Web/basic-react

```
npm run dev
```

TUICallKit/Web/basic-vue3

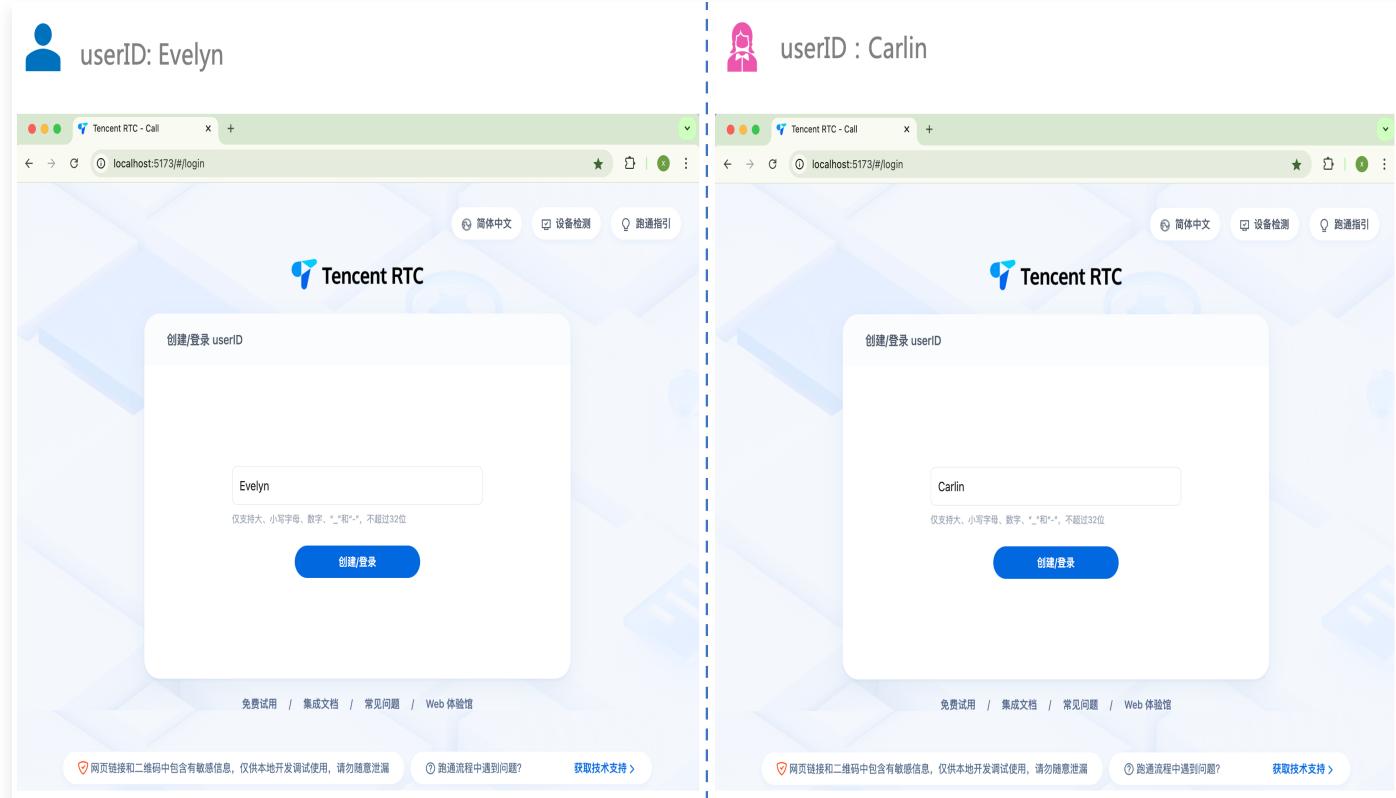
```
npm run dev
```

### ⚠ Warning:

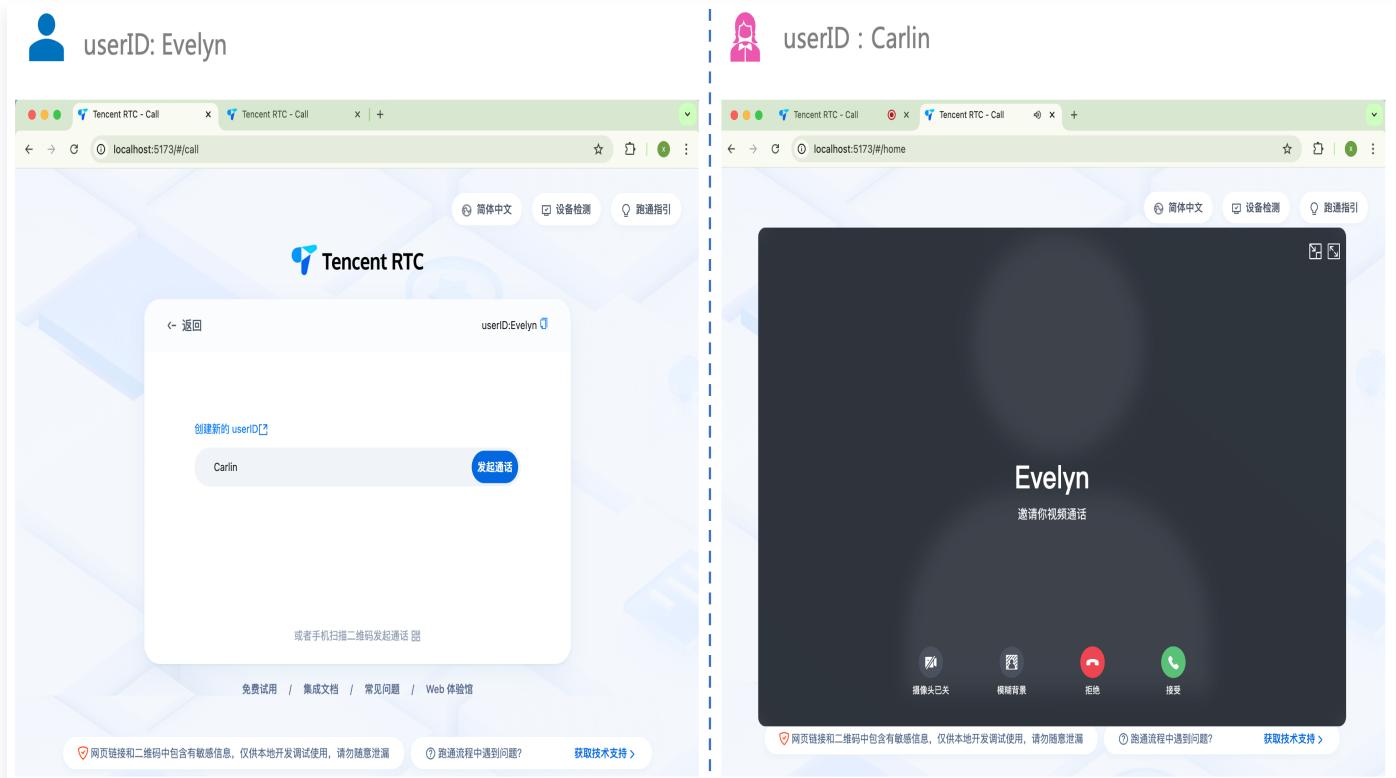
In the local environment, please access under the localhost protocol. For the public network experience, please access under the HTTPS protocol. Refer to [description of network access protocol](#).

## Step 4: Make Your First Phone Call

1. Open browser page, input project operation address, log in userID (defined by you).



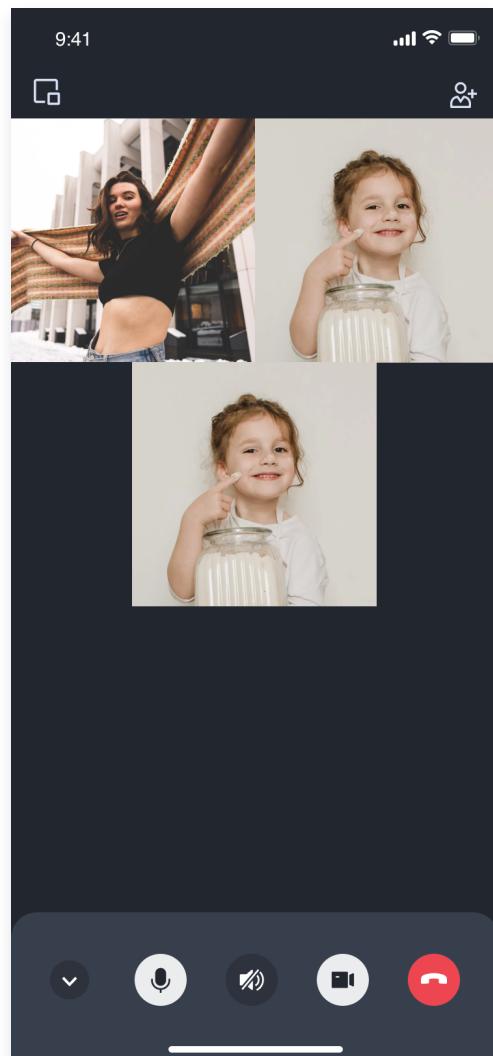
2. Input the called party's userID and click **Initiate Call** to experience your first call.



# Flutter

Last updated: 2025-03-27 11:53:40

This article will show you how to quickly run the audio and video call demo. By following this document, you can run the demo within 10 minutes and finally experience an audio and video call feature with a complete UI interface.

Video Call	Group call
<p>Search for the required CAM policy as needed, and click to complete policy association.</p> 	<p>Search for the required CAM policy as needed, and click to complete policy association.</p> 

## Environment Preparation

### Flutter

Flutter 3.0 or later.

## Android

- Android Studio 3.5 or above.
- Android device on Android 4.1 or later.

## iOS

- Xcode 13.0 or above.
- A valid developer signature for your project.

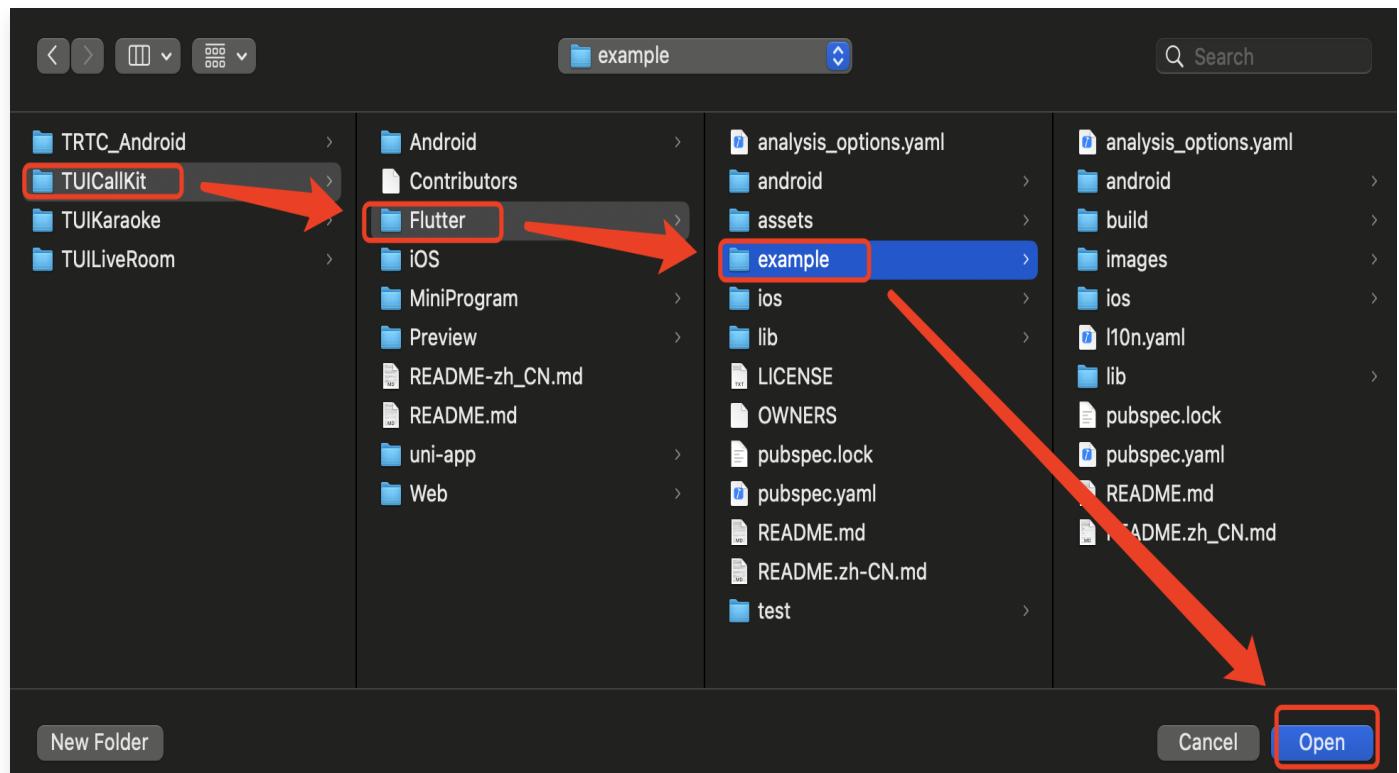
## Step 1: Download the demo

1. Download the [TUICallKit Demo](https://github.com/Tencent-RTC/TUICallKit.git) source code from GitHub, or run the following command in the terminal:

```
git clone https://github.com/Tencent-RTC/TUICallKit.git
```

2. Open the TUICallKit Flutter example with Android Studio or VSCode. The following process will take Android Studio as an example:

Search for the required CAM policy as needed, and click to complete policy association.



## Step 2: Configure the demo

## 1. Activate the audio and video service to obtain **SDKAppID** and **SDKSecretKey**.

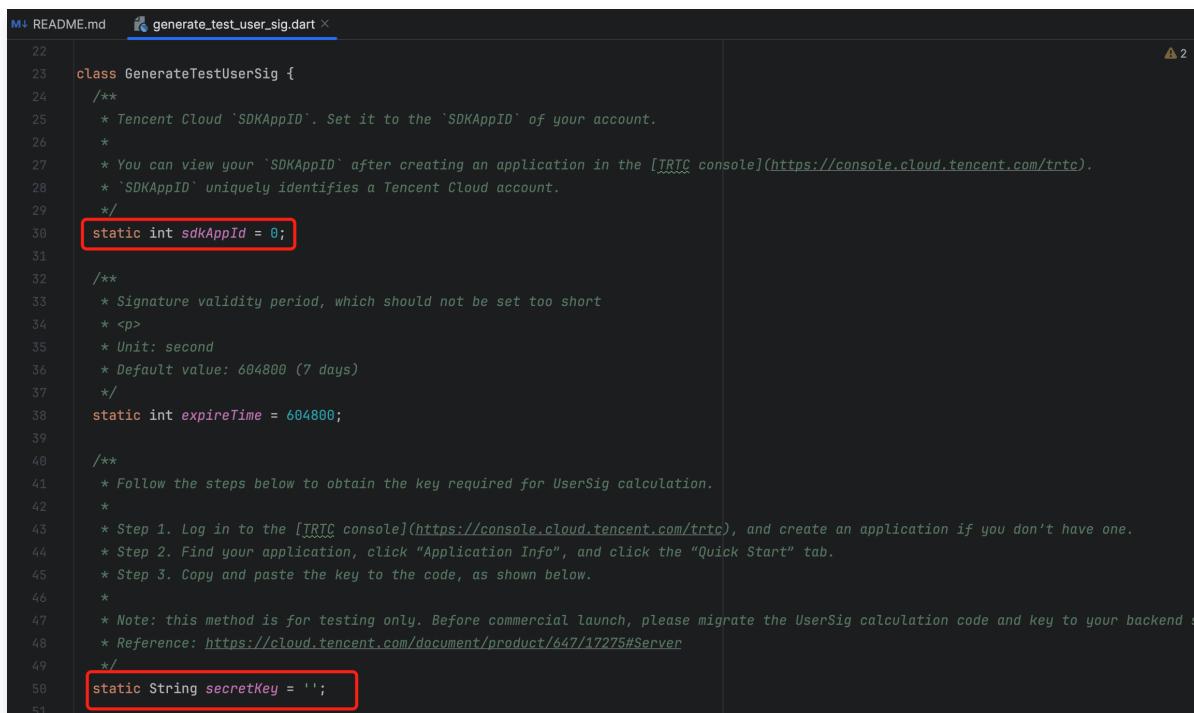
Search for the required CAM policy as needed, and click to complete policy association.



The screenshot shows the 'Real-time Audio and Video' management interface. On the left, a sidebar lists various management categories. The 'Application Management' section is currently selected. On the right, the 'Application Basic Information' panel displays the application details for 'callkit\_test'. The 'SDKAppID' and 'SDKSecretKey' fields are explicitly highlighted with red boxes, indicating they are the values to be copied from the console.

## 2. Open the `Flutter/example/lib/debug/generate_test_user_sig.dart` file, and fill in the corresponding **SDKAppID** and **SDKSecretKey** obtained when activating the service:

Search for the required CAM policy as needed, and click to complete policy association.



```

22
23 class GenerateTestUserSig {
24 /**
25 * Tencent Cloud `SDKAppID`. Set it to the `SDKAppID` of your account.
26 *
27 * You can view your `SDKAppID` after creating an application in the [TRTC console](https://console.cloud.tencent.com/trtc).
28 * `SDKAppID` uniquely identifies a Tencent Cloud account.
29 */
30 static int sdkAppId = 0;
31
32 /**
33 * Signature validity period, which should not be set too short
34 * <p>
35 * Unit: second
36 * Default value: 604800 (7 days)
37 */
38 static int expireTime = 604800;
39
40 /**
41 * Follow the steps below to obtain the key required for UserSig calculation.
42 *
43 * Step 1. Log in to the [TRTC console](https://console.cloud.tencent.com/trtc), and create an application if you don't have one.
44 * Step 2. Find your application, click "Application Info", and click the "Quick Start" tab.
45 * Step 3. Copy and paste the key to the code, as shown below.
46 *
47 * Note: this method is for testing only. Before commercial launch, please migrate the UserSig calculation code and key to your backend se
48 * Reference: https://cloud.tencent.com/document/product/647/17275#Server
49 */
50 static String secretKey = '';
51

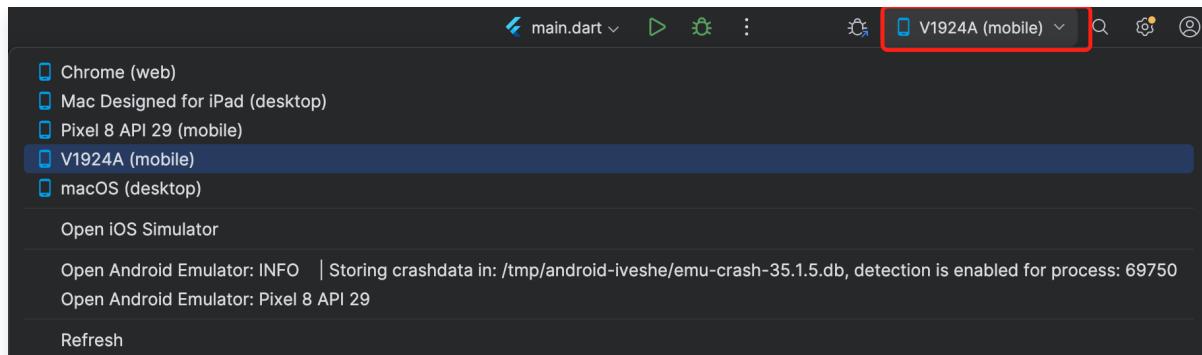
```

The screenshot shows a code editor with the file 'generate\_test\_user\_sig.dart'. Two specific lines of code are highlighted with red boxes: 'static int sdkAppId = 0;' and 'static String secretKey = '''. These are the variables that need to be filled in with the values obtained from the previous step.

## Step 3: Running the demo

1. In the top right corner of Android Studio, select the device you want to run the demo on as shown in the figure:

Search for the required CAM policy as needed, and click to complete policy association.



2. After selecting, click run to run the TUICallKit Android demo on the target device.

Search for the required CAM policy as needed, and click to complete policy association.



## Make the first call

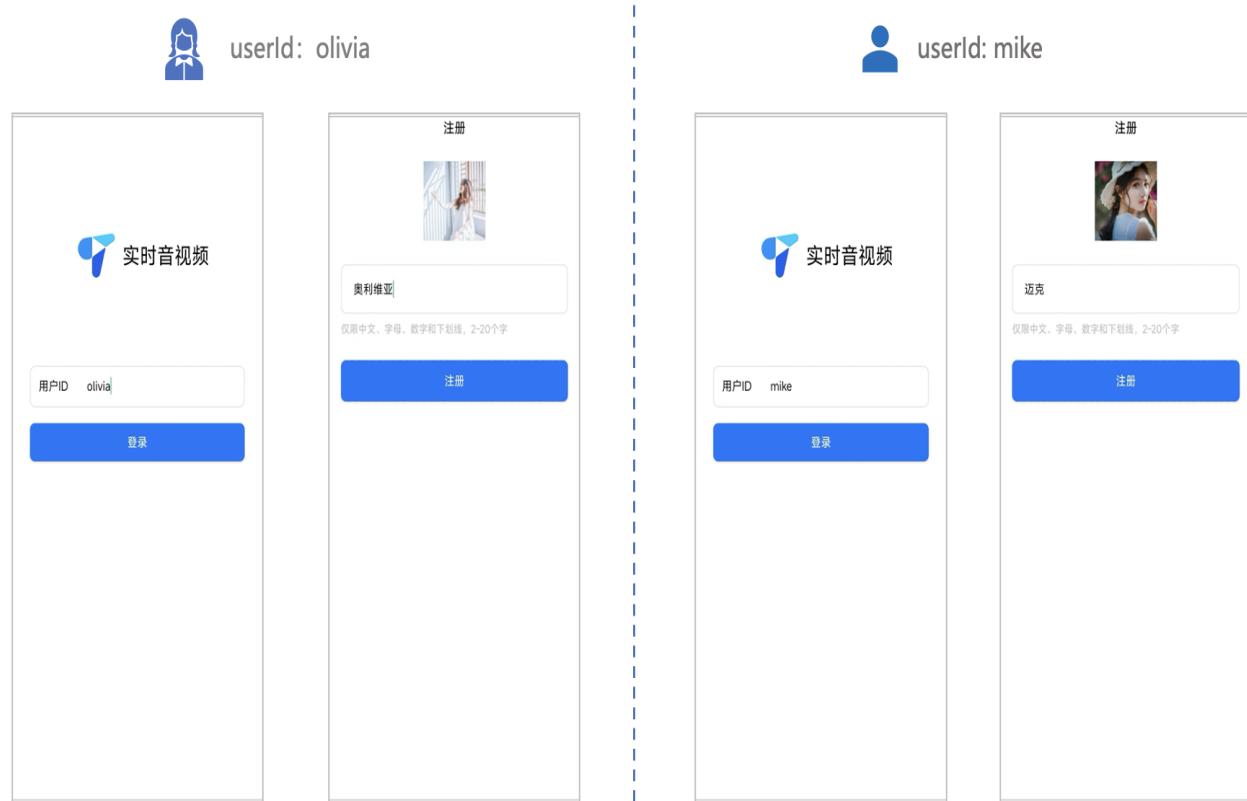
### Note:

To experience the complete audio and video call process, log in to two users on two different devices with the demo, one as the caller and the other as the receiver.

### 1. Login & Registration

Please enter the ID at `User ID`. If your current User ID has not been used before, you will enter the **Registration** interface, where you can set your avatar and nickname.

Search for the required CAM policy as needed, and click to complete policy association.



**⚠ Note:**

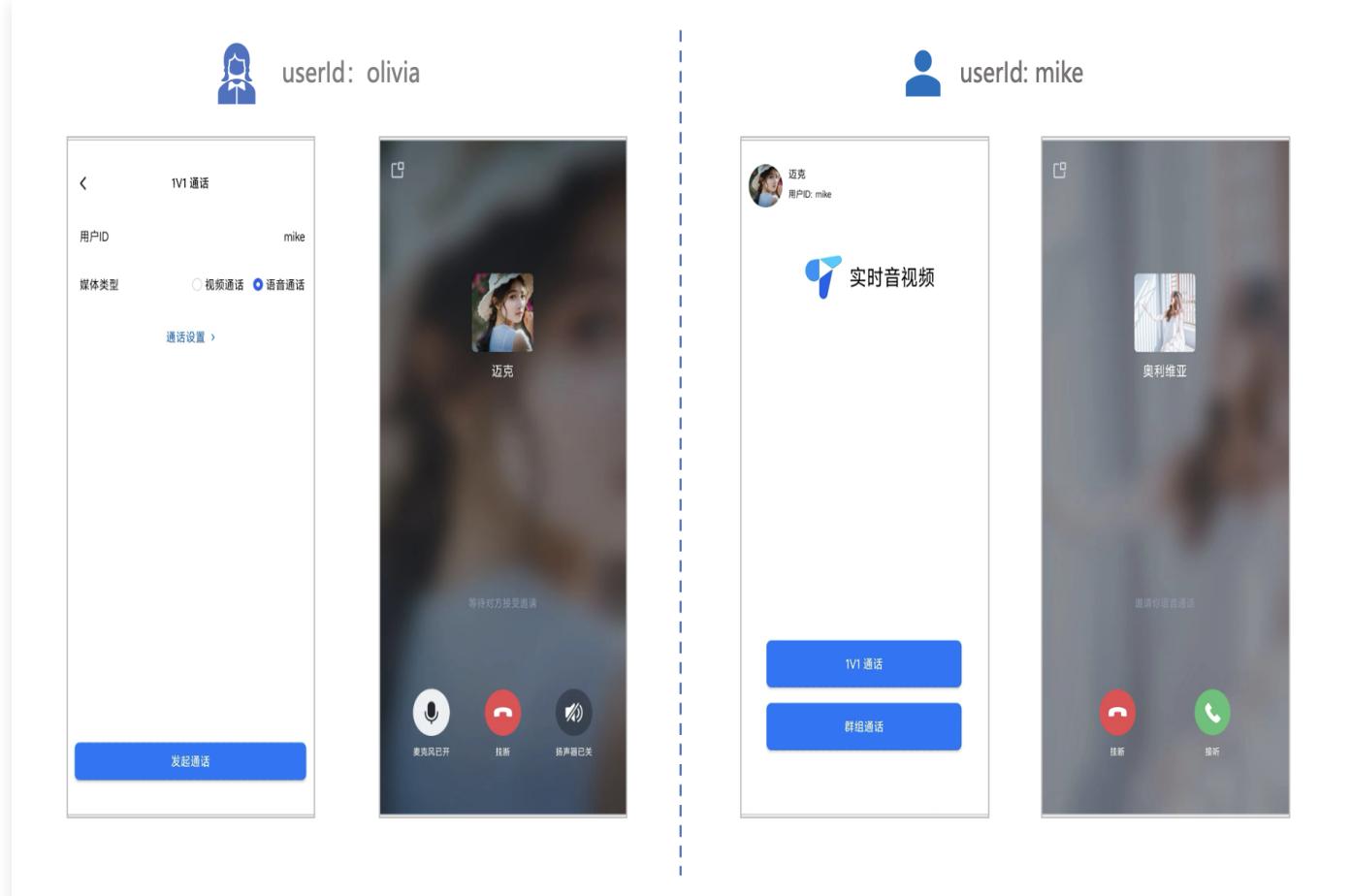
Try to avoid setting your User ID to simple strings like "1", "123", "111", etc. Since TRTC does not support multi-device login for the same User ID, such simple User IDs might be occupied by your colleagues during multi-person collaboration, leading to login failures. Therefore, we suggest setting distinctive User IDs during debugging.

## 2. Make a call

2.1 The caller should click **1:1 Call** on the interface, enter the receiver's User ID in the pop-up interface, and select the type of call you want.

2.2 click **Initiate Call**.

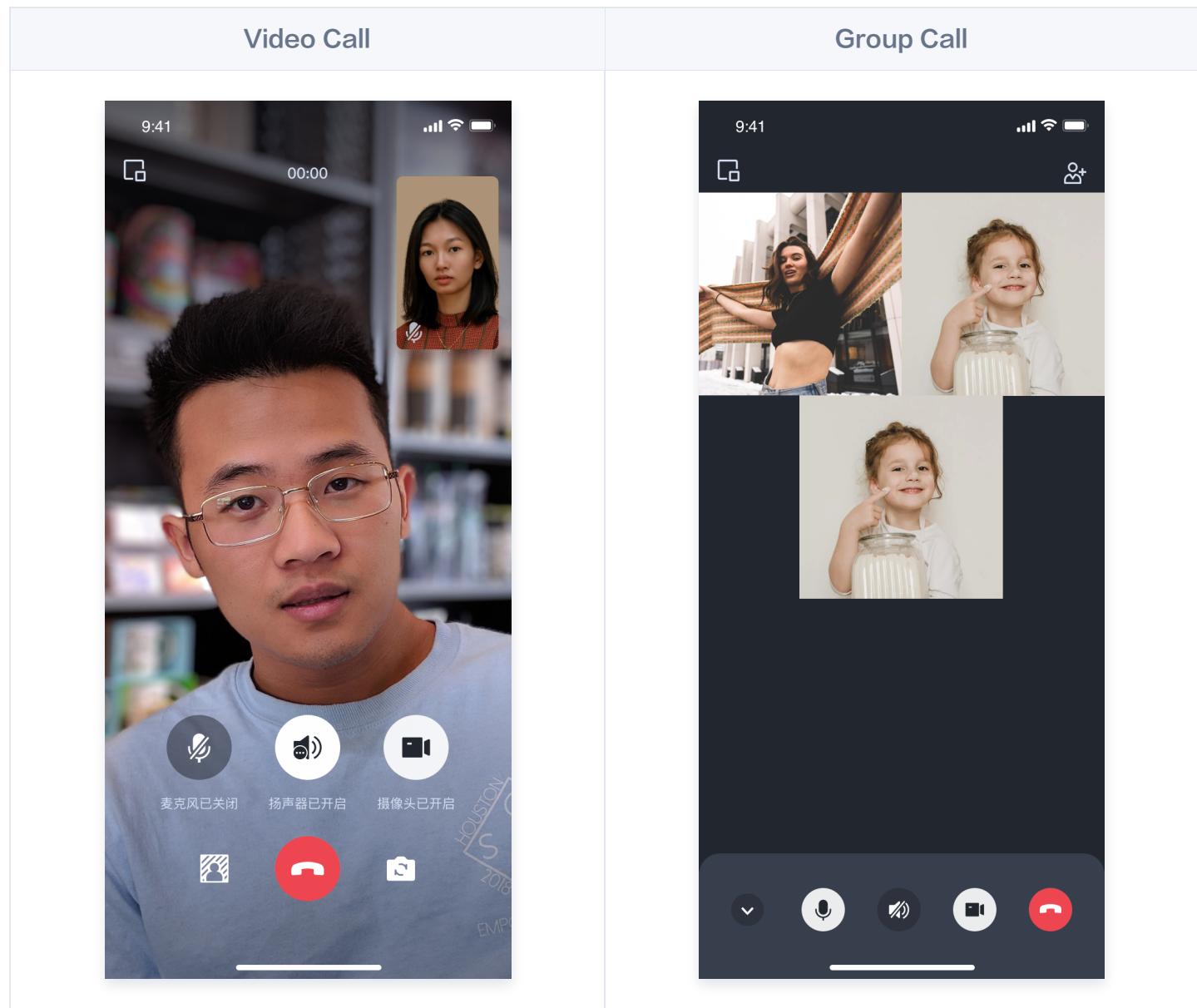
Search for the required CAM policy as needed, and click to complete policy association.



# WeChat Mini Program

Last updated: 2025-03-27 11:56:37

This document introduces how to quickly run through the audio/video call Demo. Follow this documentation, and you can run through the Demo within 10 minutes and finally experience an audio/video call feature with a complete UI interface.



## Development Environment Requirement

- Minimum version requirement for WeChat App on iOS: 8.0.40.
- Minimum version requirement for WeChat App on Android: 8.0.40.
- Minimum version requirement for mini program base library: 2.10.0.

## Step 1: Download Demo

## 1. Open terminal, clone repository.

```
git clone https://github.com/Tencent-RTC/TUICallKit.git
```

## 2. Install dependencies.

```
cd ./TUICallKit/MiniProgram
```

```
npm install
```

## 3. Copy the source code

### Windows Side

```
xcopy node_modules\@tencentcloud\call-uikit-wx-uniapp\ .\TUICallKit /i  
/e  
xcopy node_modules\@tencentcloud\call-engine-wx\RTCCallEngine.wasm.br  
.\\static
```

### Mac Side

```
mkdir -p ./TUICallKit && cp -r node_modules/@tencentcloud/call-uikit-wx-  
uniapp/ ./TUICallKit && cp node_modules/@tencentcloud/call-engine-  
wx/RTCCallEngine.wasm.br ./static
```

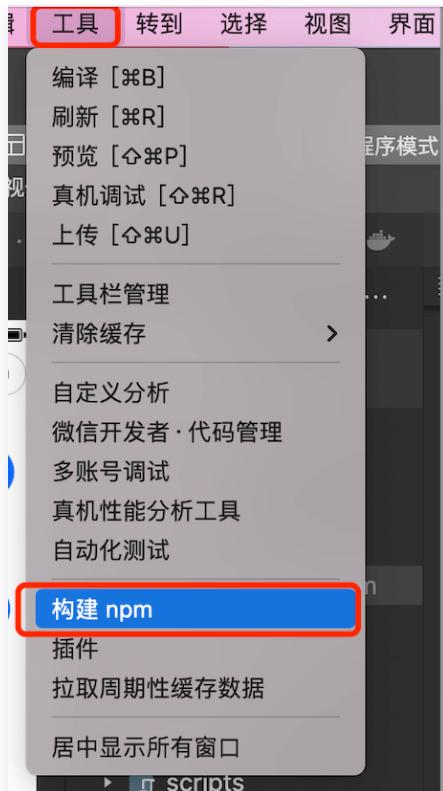
## Step Two: Configuration Demo

1. Click [to enter the Activate Service page](#), obtain `SDKAppID`, `SDKSecretKey`.
2. Open the `TUICallKit/MiniProgram/TUICalling/debug/GenerateTestUserSig.js` file and fill in the corresponding `SDKAppID` and `SDKSecretKey` obtained during service activation.

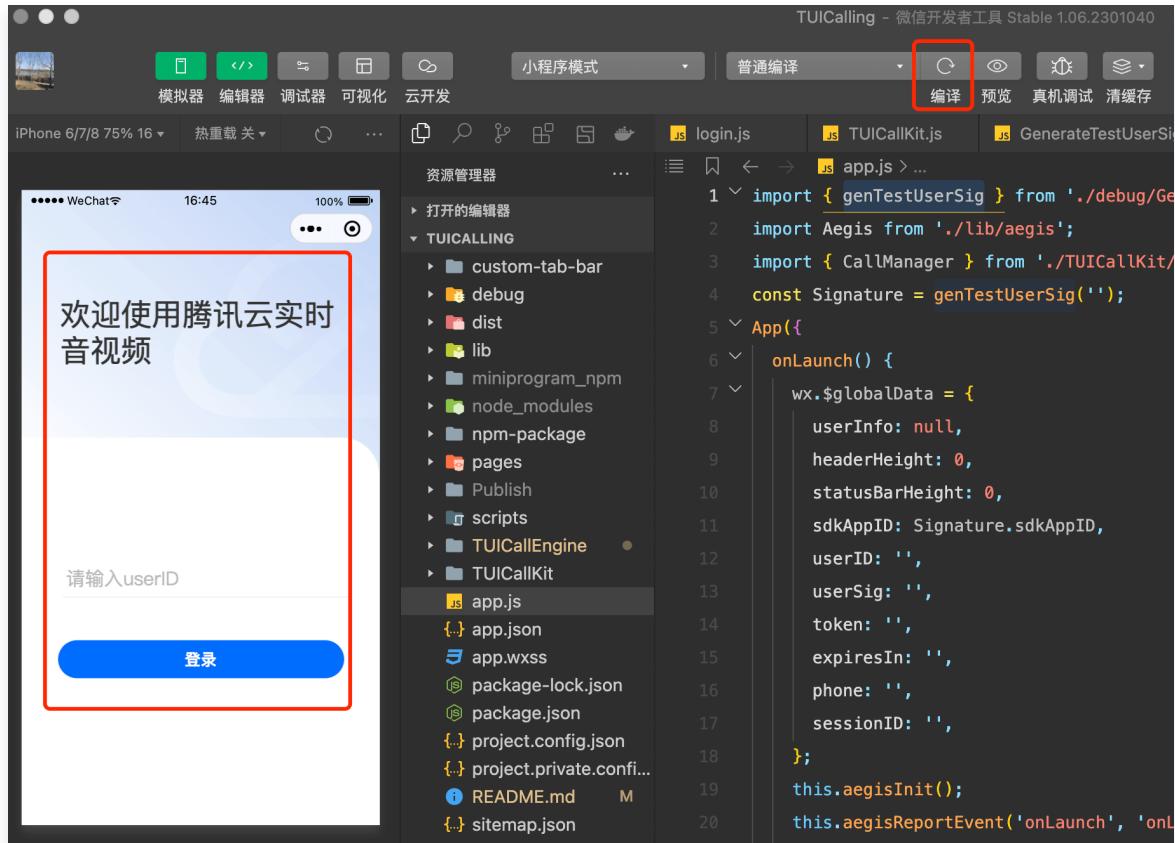
```
function genTestUserSig(userID) {  
    /**  
     * 腾讯云 SDKAppId, 需要替换为您自己账号下的 SDKAppId。  
     *  
     * 进入腾讯云实时音视频[控制台](https://console.cloud.tencent.com/rav) 创建应用, 即可看到 SDKAppId,  
     * 它是腾讯云用于区分客户的唯一标识。  
     */  
    var SDKAppId = 0; 将 SDKAppId 粘贴到此处  
  
    /**  
     * 签名过期时间, 建议不要设置的过短  
     * <p>  
     * 时间单位: 秒  
     * 默认时间: 7 x 24 x 60 x 60 = 604800 = 7 天  
     */  
    var EXPIRETIME = 604800;  
  
    /**  
     * 计算签名用的加密密钥, 获取步骤如下:  
     *  
     * 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。  
     * step2. 单击“应用配置”进入基础配置页面, 并进一步找到“帐号体系集成”部分。  
     * 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的变量中  
     *  
     * 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。  
     * 文档: https://cloud.tencent.com/document/product/647/17275#Server  
     */  
    var SECRETKEY = ""; 将 密钥 粘贴到此处
```

## Step Three: Running the Demo

1. Import the project into WeChat Developer Tools and build npm. Open WeChat Developer Tools, select Tools > Build npm. Details are given below:



2. Compile and run in WeChat Developer Tools.

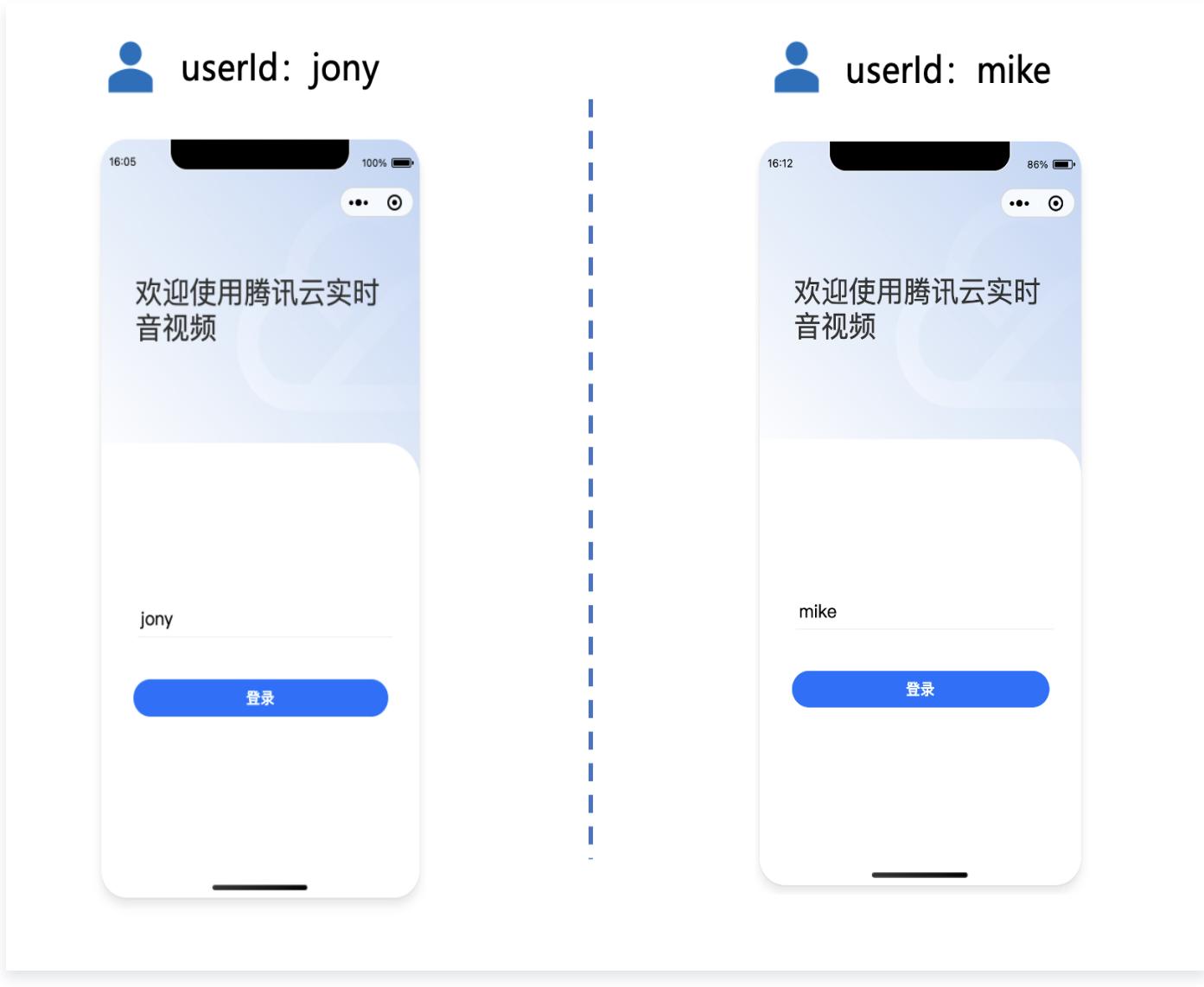


## Make the First Call

### **Note:**

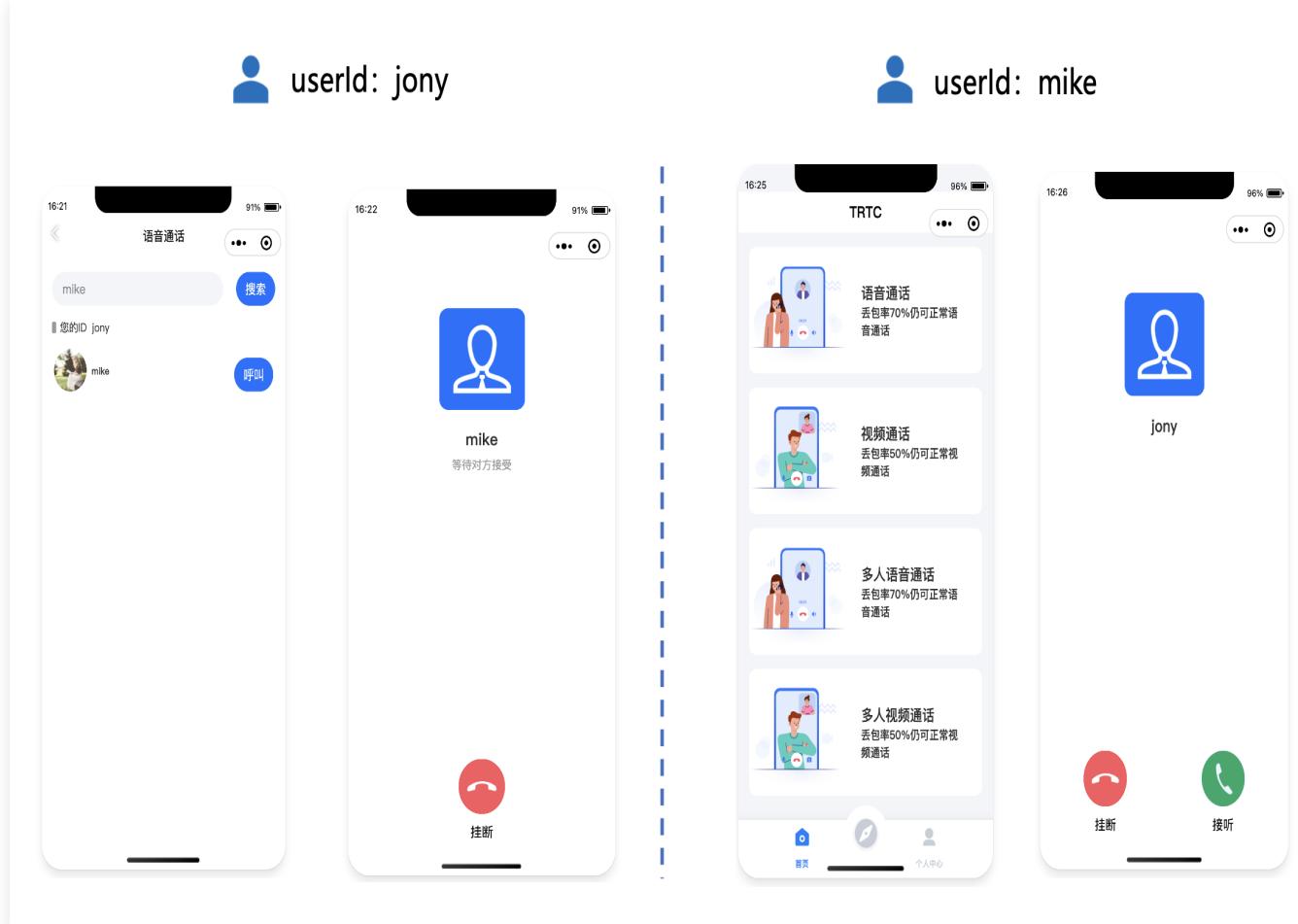
To allow you to experience the complete audio and video call process, please log in two users on two devices respectively for the Demo, with one acting as the caller and the other as the callee.

1. Please input your ID in the `user_ID` field.

**Note:**

Try to avoid setting your UserID to simple strings such as "1", "123", "111". Since TRTC does not support multi-end login for the same UserID, UserIDs like "1", "123", "111" are easily occupied by your colleagues during collaborative development, resulting in login failure. Therefore, we recommend that you set some highly recognizable UserIDs when debugging.

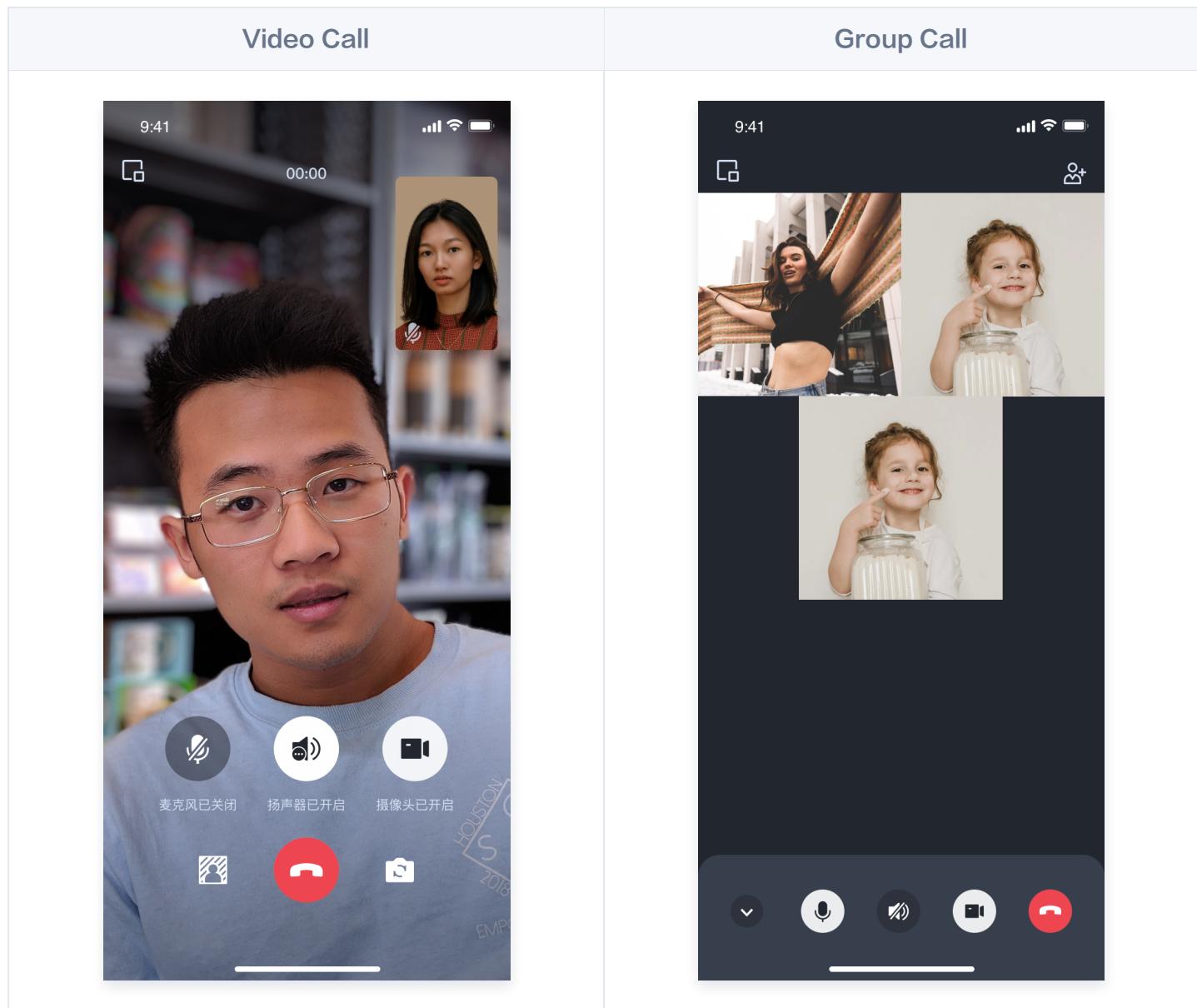
## 2. Make a phone call



# Using Uni-App (Mini Program)

Last updated: 2025-03-27 11:59:37

This document introduces how to quickly test the audio and video call Demo. Follow this documentation, you can test the Demo within 10 minutes, and finally experience an audio/video call feature with a complete UI interface.



## Development Environment Requirement

- Minimum version requirement for WeChat App on iOS: 8.0.40.
- Minimum version requirement for WeChat App on Android: 8.0.40.
- Minimum version requirement for mini program base library: 2.10.0.

## Step 1: Download Demo

## 1. Open terminal, clone repository.

```
git clone https://github.com/Tencent-RTC/TUICallKit.git
```

## 2. Install dependencies.

```
cd ./TUICallKit/uni-app/TUICallKit-Miniprogram/TUICallKit-Vue3
```

```
npm install
```

## 3. Copy source code

### window End

```
xcopy node_modules\@tencentcloud\call-uikit-wx-uniapp\ .\TUICallKit /i  
/e  
xcopy node_modules\@tencentcloud\call-engine-wx\RTCCallEngine.wasm.br  
.\\static
```

### mac End

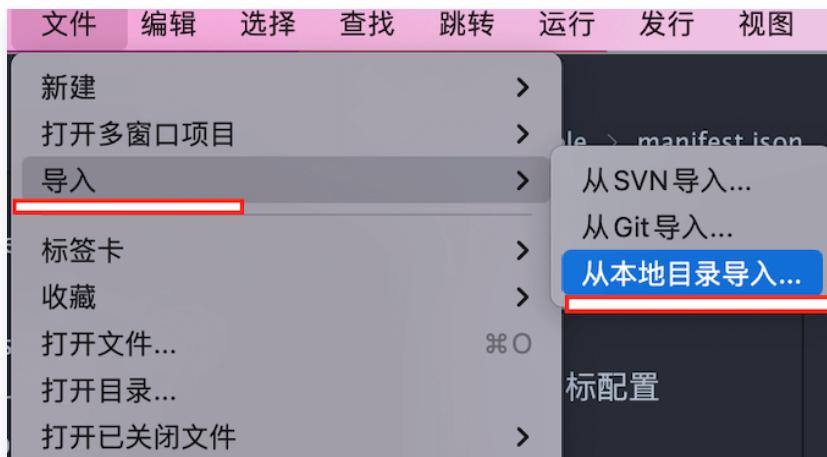
```
mkdir -p ./TUICallKit && cp -r node_modules/@tencentcloud/call-uikit-wx-  
uniapp/ ./TUICallKit && cp node_modules/@tencentcloud/call-engine-  
wx/RTCCallEngine.wasm.br ./static
```

## Step Two: Configuration Demo

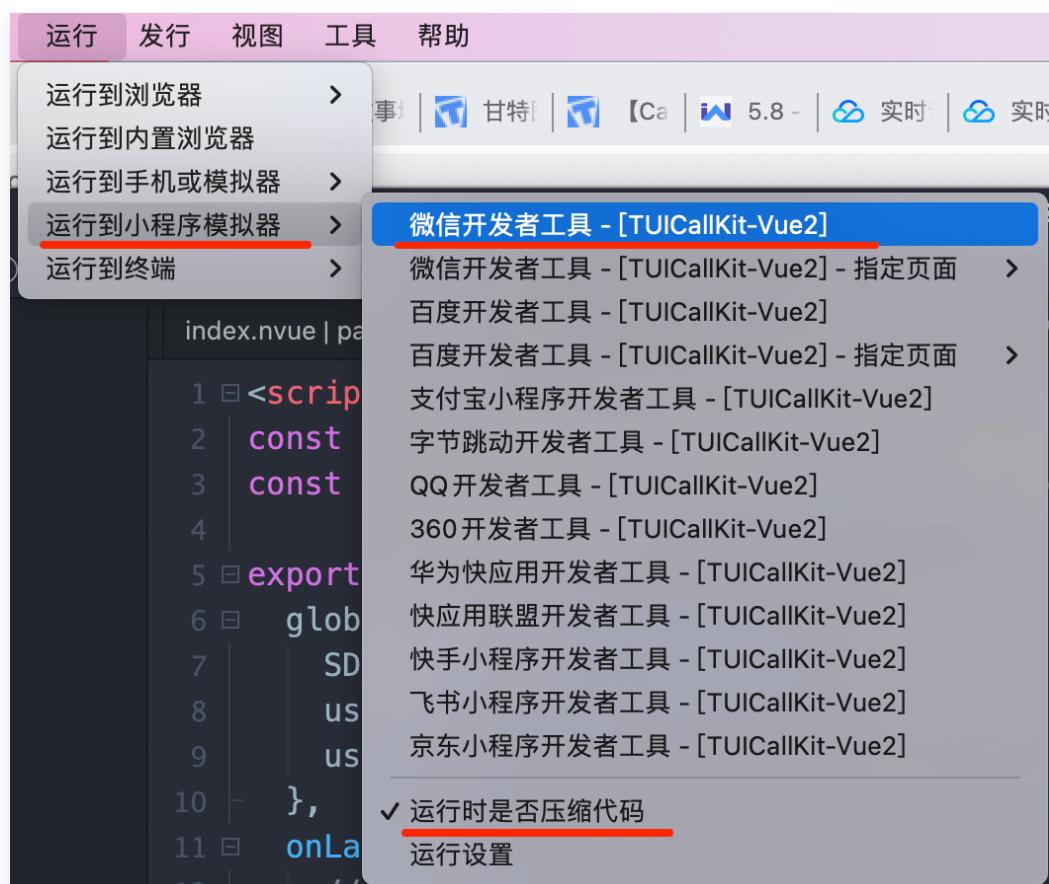
1. Click [to enter the Activate Service page](#), get <4>SDKAppID, SDKSecretKey</4>
2. Open the ./TUICallKit/uni-app/TUICallKit-Miniprogram/TUICallKit-Vue3/TUICallKit/debug/GenerateTestUserSig-es.js file and fill in the corresponding SDKAppID and SDKSecretKey obtained when activating the service.

## Step 3: Running through the Demo

1. Import a project in HBuilder.



## 2. Run to WeChat Developer Tool and check whether to compress code at runtime.

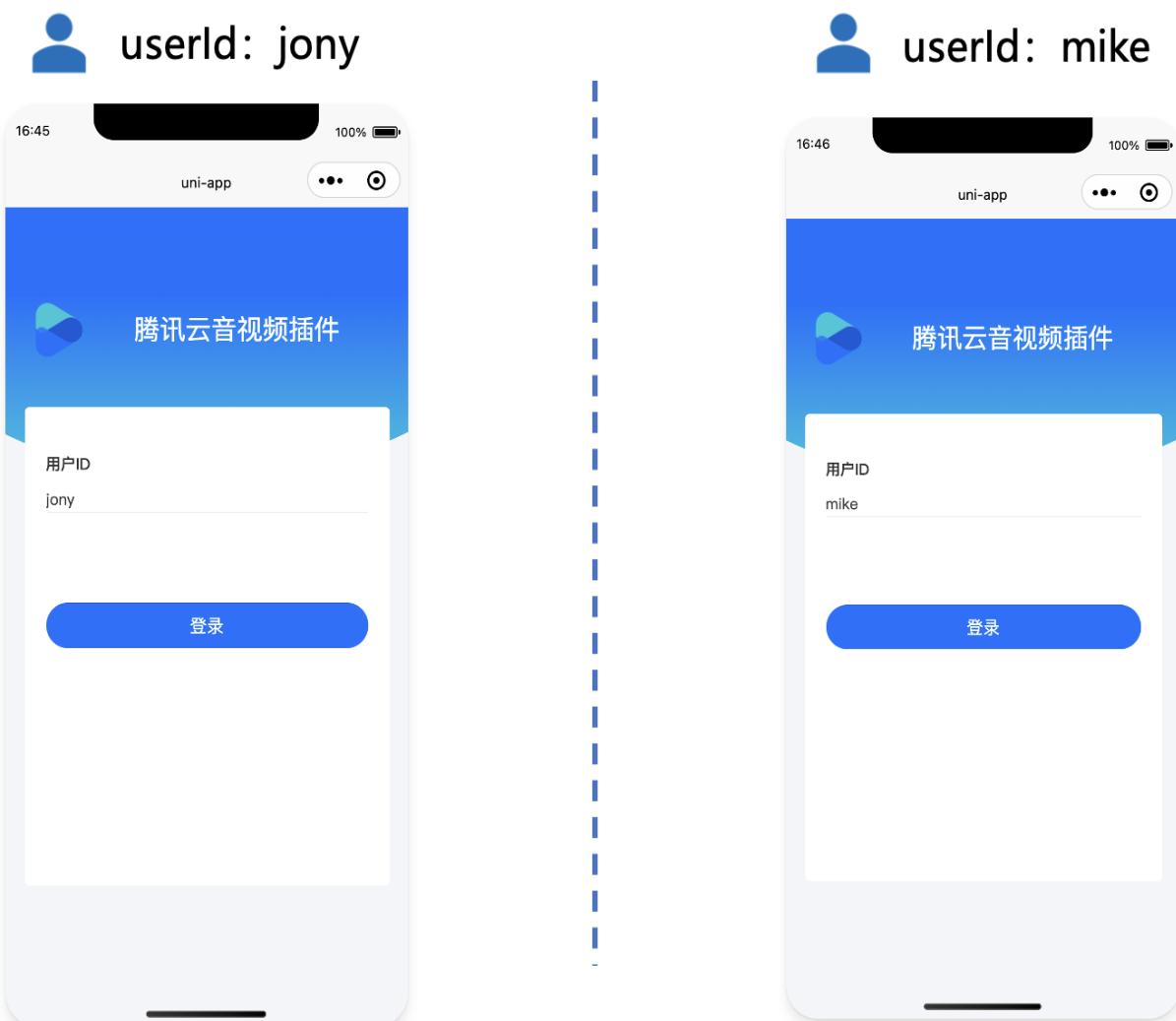


## Make the First Call

### **⚠ Note:**

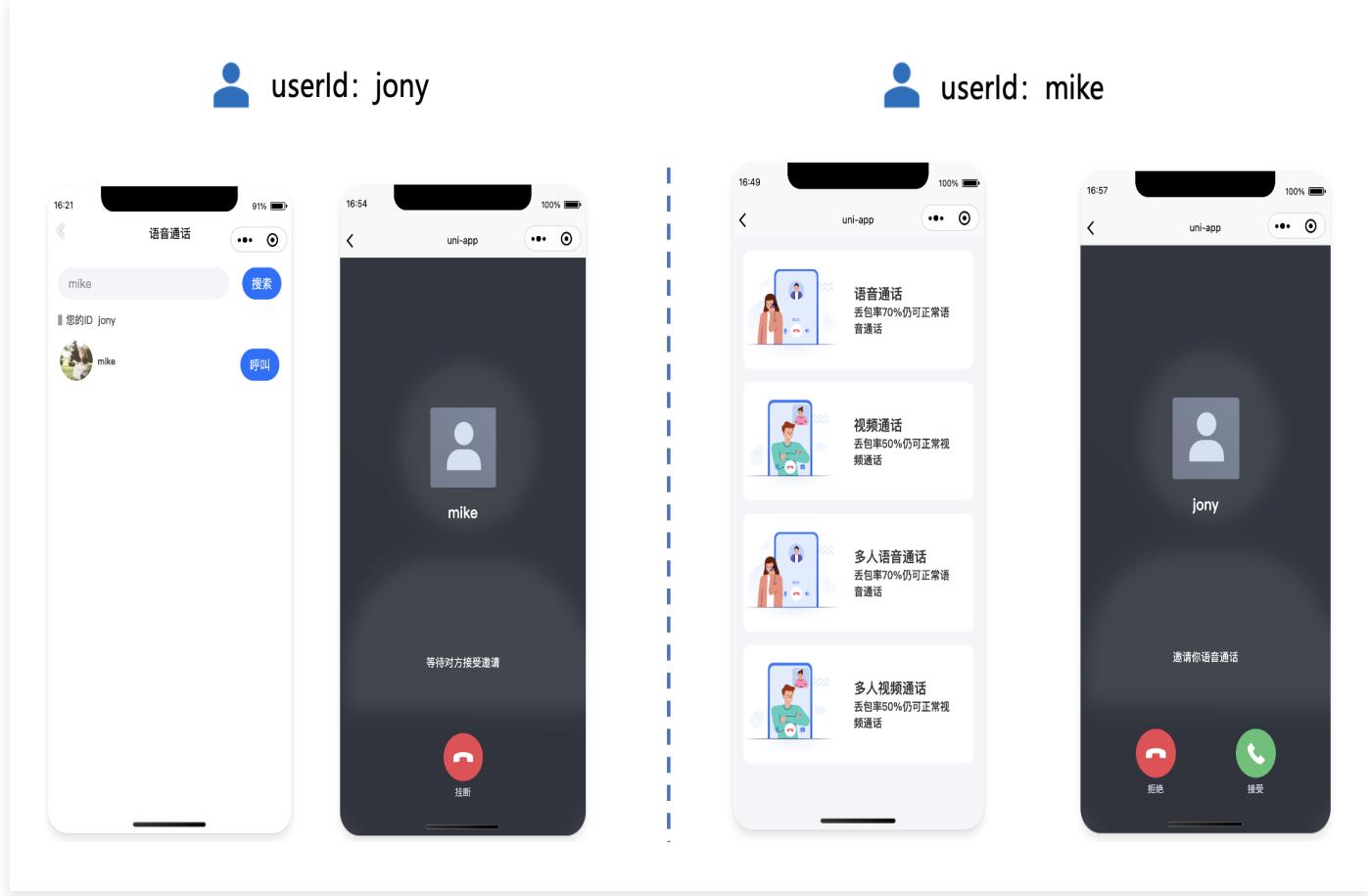
To allow you to experience the complete Audio/Video Call Flow, please log in two users on two devices respectively for the Demo, with one acting as the caller and the other as the callee.

### 1. Please input your ID in the `User ID` field.

**Note:**

Try to avoid setting your UserID to simple strings such as "1", "123", "111". Since TRTC does not support multi-end login for the same UserID, UserIDs like "1", "123", "111" can be easily occupied by your colleagues during collaborative development, resulting in login failure. Therefore, we recommend that you set some highly recognizable UserIDs when debugging.

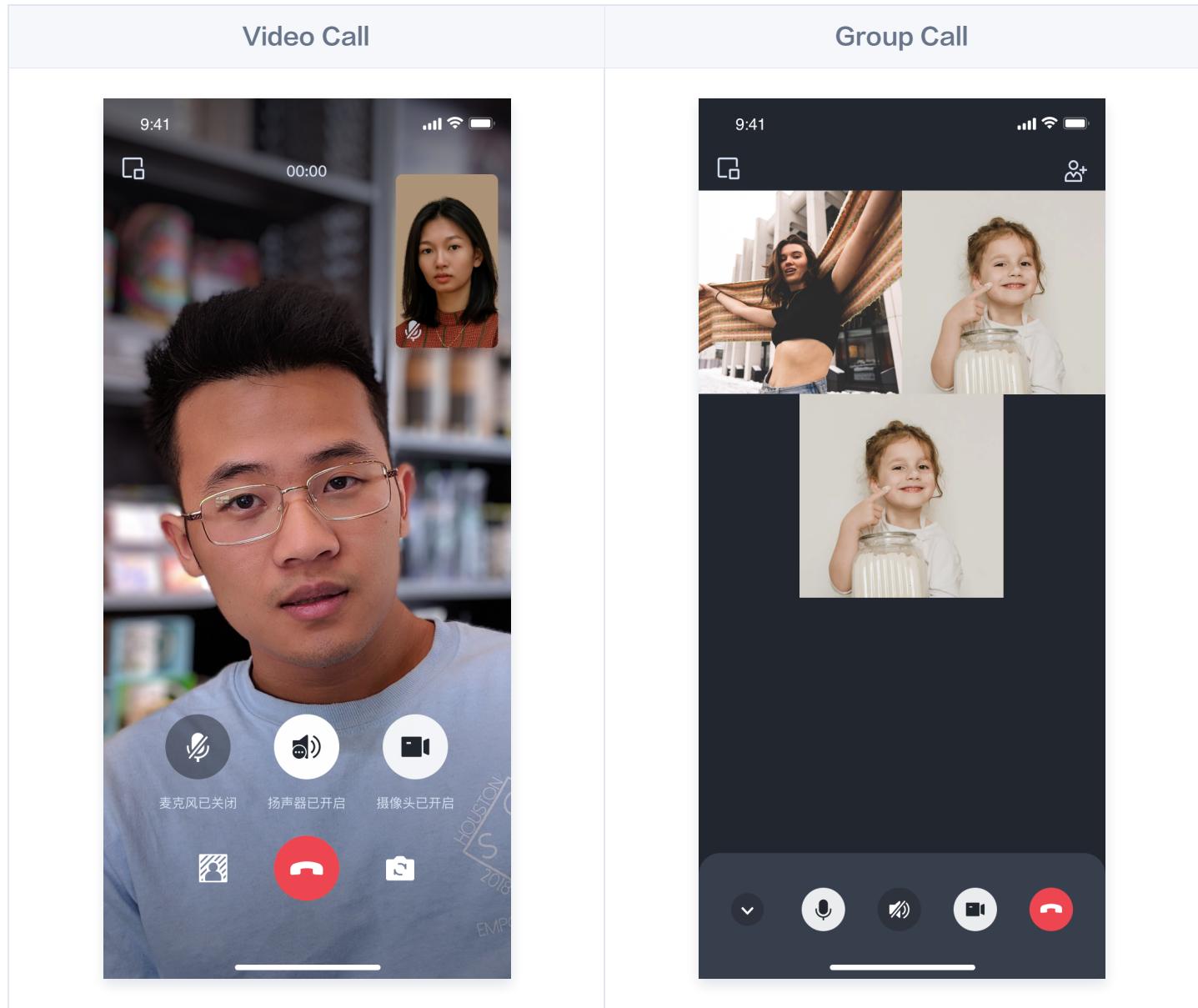
## 2. Make a phone call



# Uni-App (Client)

Last updated: 2025-03-27 12:00:51

This document describes how to quickly complete a video call demonstration. You will complete the following key steps within 10 minutes and finally obtain a video call feature with a comprehensive user interface.



## Environment Preparation

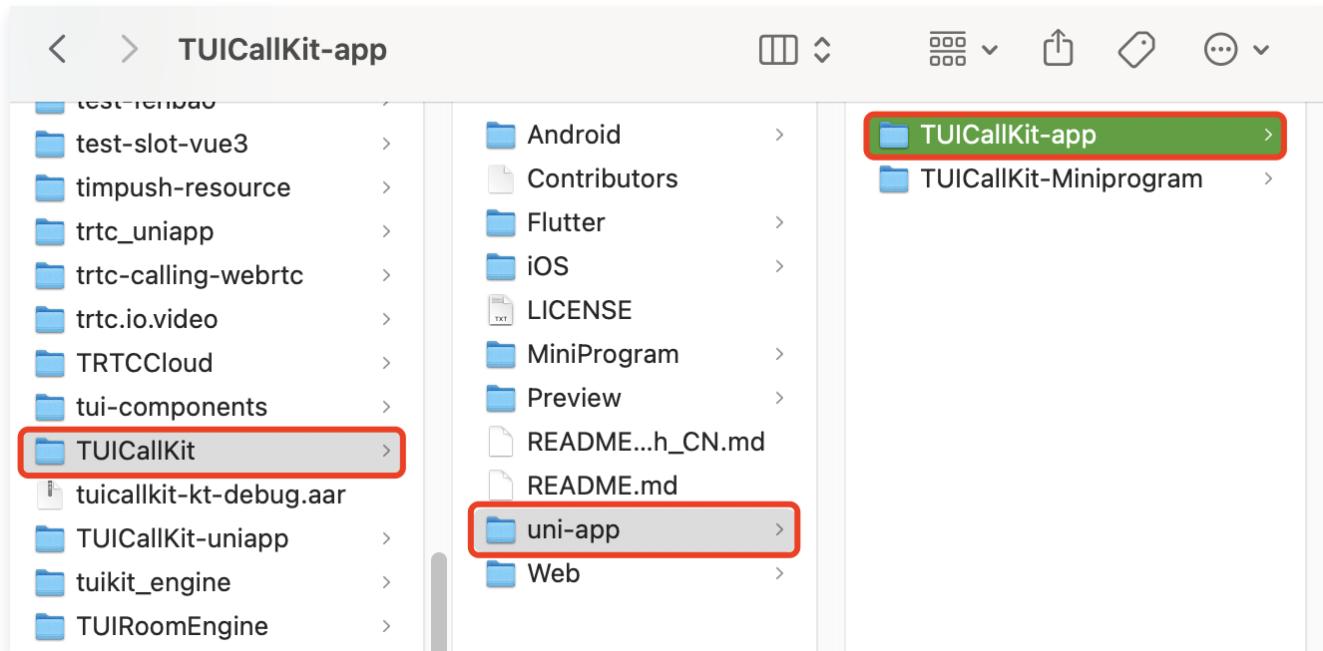
- [HBuider X](#)
- Two mobile devices: Android device 5.0 or higher / iOS device 13.0 and above.

## Step 1: Download Demo

1. Download the [TUICallKit Demo](#) source code from github, or run the following commands in command line:

```
git clone https://github.com/Tencent-RTC/TUICallKit.git
```

2. Open the **uni-app/TUICallKit-app** project through HbuiderX:



## Step Two: Configuration Demo

1. [Click to enter the Activate Service page](#), obtain `SDKAppID`, `SecretKey` .
2. Fill in the `SDKAppID`, `SecretKey` in the 'TUICallKit/uni-app/TUICallKit-app/debug/GenerateTestUserSig-es.js' file.



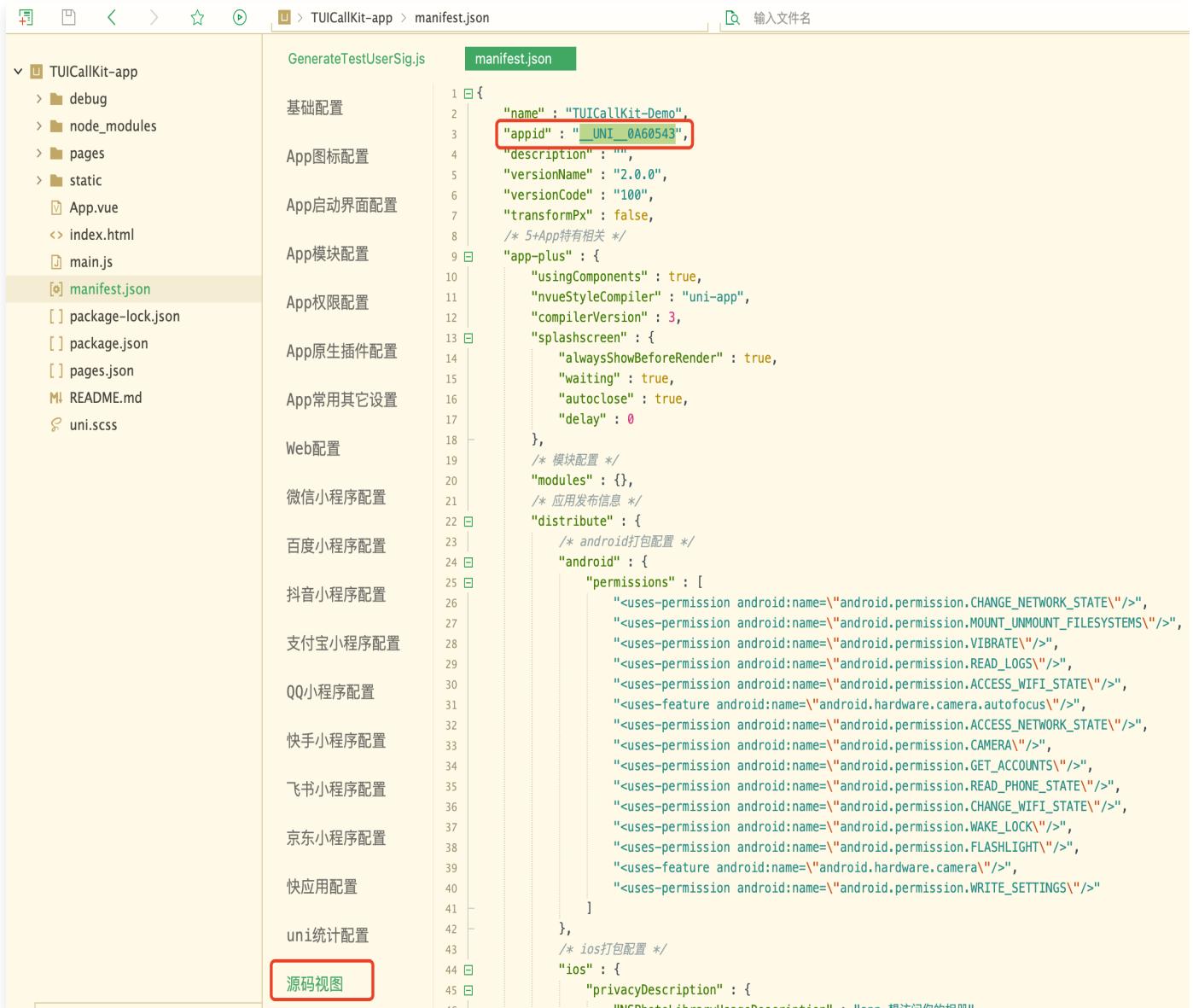
GenerateTestUserSig.js

```
1 import LibGenerateTestUserSig from './lib-generate-test-usersig-es.min.js';
2 /**
3  */
4
5
6
7
8
9 const SDKAPPID = 0;
10 /**
11 */
12
13
14
15
16
17 const EXPIRETIME = 604800;
18 /**
19 */
20
21
22
23
24
25
26
27
28
29 const SECRETKEY = '';
30 /**
31 */
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48 function genTestUserSig(userID) {
49     const generator = new LibGenerateTestUserSig(SDKAPPID, SECRETKEY, EXPIRETIME);
50     const userSig = generator.genTestUserSig(userID);
51     return {
52         sdkAppID: SDKAPPID,
53         userSig
54     };
55 }
56
57 module.exports = {
58     genTestUserSig
59 };
```

3. Access [TencentCloud-TUICallKit plug-in](#), purchase the plug-in (free) on the plug-in details page, select the corresponding AppID when purchasing the plug-in, and bind the correct package name.

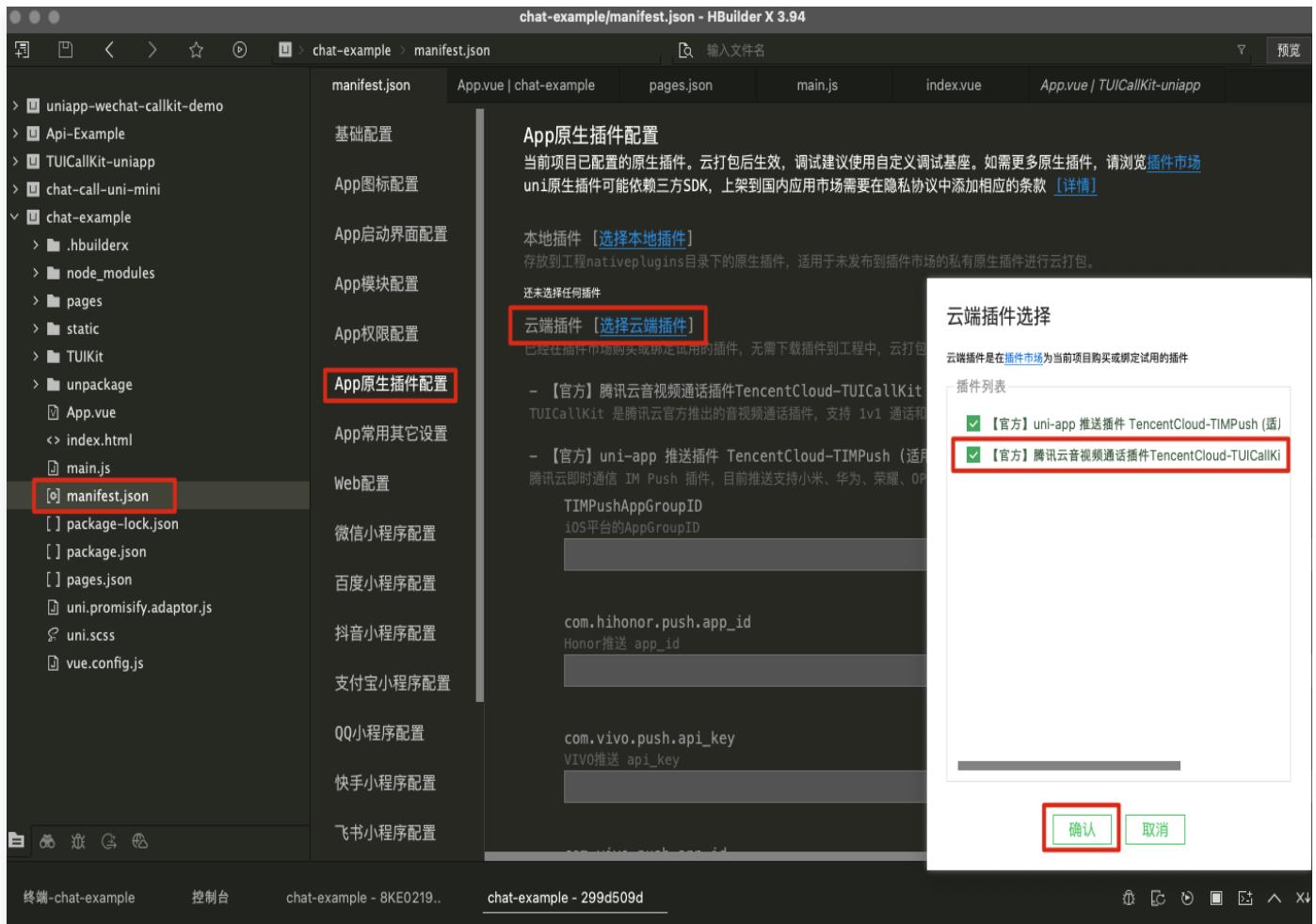


4. Replace the appid in the TUICallKit-app/manifest.json file with the appid bound to the TencentCloud-TUICallKit plug-in above.



```
1  {
2     "name" : "TUICallKit-Demo",
3     "appid" : "__UNI_0A60543",
4     "description" : "",
5     "versionName" : "2.0.0",
6     "versionCode" : "100",
7     "transformPx" : false,
8     /* 5+App特有相关 */
9     "app-plus" : {
10         "usingComponents" : true,
11         "nvueStyleCompiler" : "uni-app",
12         "compilerVersion" : 3,
13         "splashscreen" : {
14             "alwaysShowBeforeRender" : true,
15             "waiting" : true,
16             "autoclose" : true,
17             "delay" : 0
18         },
19         /* 模块配置 */
20         "modules" : {},
21         /* 应用发布信息 */
22         "distribute" : {
23             /* android打包配置 */
24             "android" : {
25                 "permissions" : [
26                     "<uses-permission android:name=\"android.permission.CHANGE_NETWORK_STATE\"/>",
27                     "<uses-permission android:name=\"android.permission.MOUNT_UNMOUNT_FILESYSTEMS\"/>",
28                     "<uses-permission android:name=\"android.permission.VIBRATE\"/>",
29                     "<uses-permission android:name=\"android.permission.READ_LOGS\"/>",
30                     "<uses-permission android:name=\"android.permission.ACCESS_WIFI_STATE\"/>",
31                     "<uses-feature android:name=\"android.hardware.camera.autofocus\"/>",
32                     "<uses-permission android:name=\"android.permission.ACCESS_NETWORK_STATE\"/>",
33                     "<uses-permission android:name=\"android.permission.CAMERA\"/>",
34                     "<uses-permission android:name=\"android.permission.GET_ACCOUNTS\"/>",
35                     "<uses-permission android:name=\"android.permission.READ_PHONE_STATE\"/>",
36                     "<uses-permission android:name=\"android.permission.CHANGE_WIFI_STATE\"/>",
37                     "<uses-permission android:name=\"android.permission.WAKE_LOCK\"/>",
38                     "<uses-permission android:name=\"android.permission.FLASHLIGHT\"/>",
39                     "<uses-feature android:name=\"android.hardware.camera\"/>",
40                     "<uses-permission android:name=\"android.permission.WRITE_SETTINGS\"/>"
41                 ],
42             },
43             /* ios打包配置 */
44             "ios" : {
45                 "privacyDescription" : {
46                     "zh-CN" : "隐私政策"
47                 }
48             }
49         }
50     }
51 }
```

## 5. Import the plug-in in the TUICallKit-app project.



## Step 3: Run through the Demo

### 1. Make a custom debugging base. Please select traditional packaging method to pack.



chat-example - App 打包

第4步：输入您绑定插件的包名

Android ( apk包 )  iOS ( ipa包 )

Android设置 iOS设置

Android包名: [REDACTED]

Android证书使用指南

使用自有证书 [如何生成证书](#)  使用云端证书 [详情](#)

证书别名: [REDACTED]

证书私钥密码: [REDACTED]

证书文件: [REDACTED] [浏览...](#)

渠道包 [渠道包制作指南](#)

无  GooglePlay(AAB)  应用宝  360应用市场  
 华为应用商店  小米应用商店  OPPO  VIVO

打正式包  打自定义调试基座(iOS的Safari调试需要用苹果开发证书打包) [什么是自定义调试基座?](#)

生成iOS符号表 (dsym) 文件 [\(参考文档\)](#)  生成SourceMap (可用于uni统计的错误分析) [\(参考文档\)](#)

第5步：选择使用云端证书

原生广告

第6步：选择打自定义调试基座

广告联盟

加入uni-ad广告联盟，帮助你的App变现。[\[官网介绍\]](#) [\[如何开通?\]](#)

开通DCloud快捷广告：[\[管理\]](#)

快捷开屏广告  悬浮红包广告  uniMP激励视频广告 [\[更多配置\]](#)

集成渠道SDK广告SDK([AD组件文档](#))：

国内广告

腾讯优量汇  穿山甲GroMore  快手广告联盟  百度百青藤广告联盟

华为广告联盟  Sigmob广告联盟

国外广告

传统打包 (上传代码及证书, DCloud承诺不保留)  快速安心打包 (不上传代码及证书, 打包更快) [\[详情\]](#) [\[打包\]](#)

第7步：打包

2. Upon success of the self-defined debugging stand, run the project using custom base.

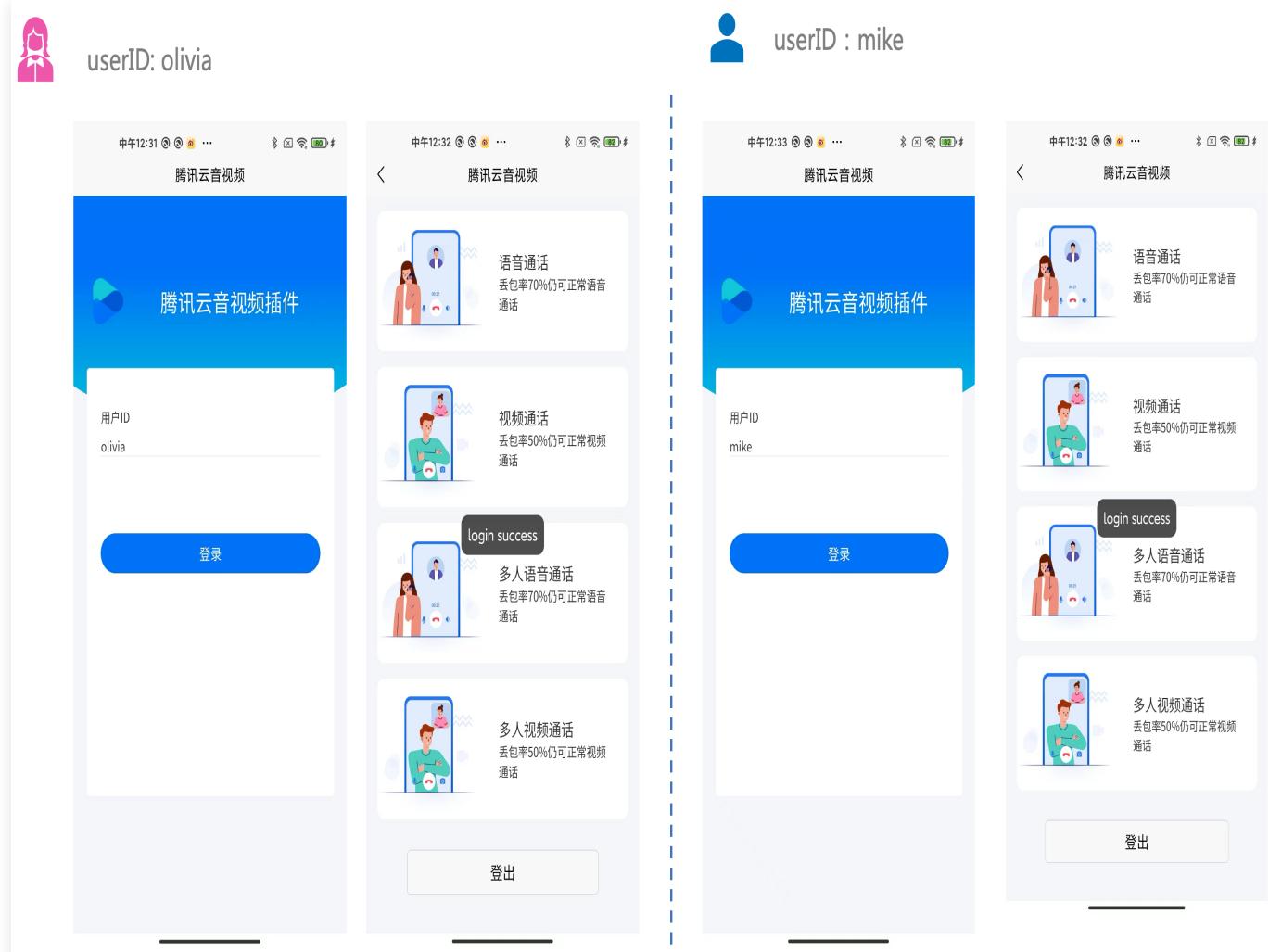


## Step 4: Make the First Call

### **⚠ Note:**

To allow you to experience the complete audio and video call flow, please log in two users on two devices respectively in the Demo, with one as the caller and the other as the callee.

#### 1. Log in / register userID (defined by you).



#### Note:

Try to avoid setting your UserID to simple strings such as "1", "123", "111", etc. Since TRTC does not support multi-end login for the same UserID, UserIDs like "1", "123", "111" are likely to be occupied by your colleagues during collaborative development, resulting in login failure. Therefore, we recommend that you set some highly recognizable UserIDs when debugging.

## 2. Call

