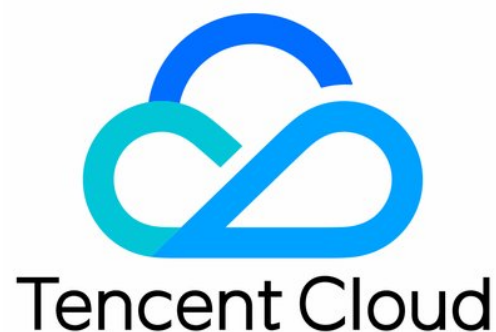


Tencent Real-Time Communication User Tutorial Product Documentation



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User Tutorial

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Quick Introduction to TRTC

- [Supported Platforms](#)
- [Features](#)
- [Use Cases](#)
- [Basic Concepts](#)

Billing Plans

TRTC offers two types of services: **basic services** and *value-added services*.

Service Type	Use Case	Billing Details
Basic services	Interactive live audio streaming	Billing of interactive live audio streaming
	Interactive live video streaming	Billing of interactive live video streaming
	Audio call	Billing of audio calls
	Video call	Billing of video calls
Value-added services	On-cloud recording	Billing of on-cloud recording
	On-Cloud MixTranscoding	Billing of On-Cloud MixTranscoding

Development Support

Free Demos

TRTC offers free demos for **iOS**, **Android**, **macOS**, **Windows**, **Web**, **Electron**, and **Flutter**. For details, see [Free Demo](#).

SDK download

TRTC is one of Tencent Cloud's LiteAV products. Because all LiteAV products use the same underlying modules, integrating more than one LiteAV SDK into the same project will result in a "duplicate symbol" error. For this, we provide different editions of the SDK, including **Lite (TRTC)**, **Professional**, and **Enterprise**, which come with different capabilities. You can choose the one that fits your needs.

Edition	Description
Lite (TRTC)	The Lite Edition integrates the TRTC and live playback (TXLivePlayer) features only. It adds the least to the size of the app installation package and is suitable for clients who need TRTC features only.
Professional	The Professional Edition integrates multiple key video/audio features of Tencent Cloud, including TRTC, MLVB , UGSV , etc. This integrated edition adds less to the size of the app installation package than two independent SDKs do because many underlying modules are shared among the SDKs. It is also free of the duplicate symbol issue.
Enterprise	On top of all the features included in the Professional Edition, the Enterprise Edition integrates the AI beauty filter component (value-added service) and supports the use of the eye enlarging and face slimming filters, animated stickers, widgets, etc.

Note :

See [SDK Download](#) for a comparison of the three editions.

API integration

- **Client APIs:** you can implement different features by calling SDK-side APIs on platforms including [iOS](#), [macOS](#), [Android](#), [Windows\(C++\)](#), [Windows\(C#\)](#), [Web](#), [Electron](#), and [Flutter](#).
- **Server APIs:** you can call API 3.0 to implement features including [call quality monitoring](#), [stream mixing and transcoding](#), and [room management](#).

Getting Started

Demo quick start

The TRTC console offers demo source code for different platforms. See the documents below for how to run the demos.

Platform	Document
iOS and macOS	Demo Quick Start (iOS & macOS)
Android	Demo Quick Start (Android)
Windows	Demo Quick Start (Windows)
Web	Demo Quick Start (Web)
Electron	Demo Quick Start (Electron)
- Demo Quick Start (Flutter)	

SDK quick integration

After downloading the TRTC SDK, you can integrate it into your project. For detailed instructions, see the documents below.

Platform	Document
iOS	SDK Quick Integration (iOS)
macOS	SDK Quick Integration (macOS)
Android	SDK Quick Integration (Android)
Windows	SDK Quick Integration (Windows)
Web	SDK Quick Integration (Web)
Electron	SDK Quick Integration (Electron)
Flutter	SDK Quick Integration (Flutter)

Quick TWebLive run

TRTC offers an all-inclusive free demo for the TWebLive component. See [WebRTC-based Streaming](#) for how to integrate the component.

##Scenario-specific Practice

TRTC, along with other Tencent Cloud products, offers free demos for a wide range of live streaming scenarios.

Scenario	Supported Features	Document
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Group video call	Co-anchoring, offline call answering, etc.	Real-Time Video Call
Group audio call	Co-anchoring, offline call answering, etc.	Real-Time Audio Call
Interactive live streaming	Co-anchoring, anchor competition, low-latency watch, on-screen comments, etc.	Interactive Live Video Streaming
Real-time interactive teaching	Teaching modes: video, audio, screen sharing, etc.; interactions: asking questions, hand raising, inviting to speak, ending Q&A, etc.	Real-Time Interactive Teaching
Video conferencing	Screen sharing, beauty filters, low-latency conferencing, etc.	Video Conferencing
Audio chat room	Mic management, low-latency audio interaction, text chat, etc.	Audio Chat Room

Console Guide

If you want to	Please Read
View your usage of TRTC's audio/video interaction and on-cloud recording services	Usage Statistics
View call quality statistics of a TRTC room via the dashboard	Dashboard
Download the demo source code and have a quick run of the demo	Demo Quick Run
Generate a UserSig online or verify an existing UserSig	UserSig Generation and Verification
Create an application	
Enable relayed push, on-cloud recording or advanced permission control for an application	Function Configuration
Add a custom image to be set as the background displayed during on-cloud stream mixing	Material Management
Configure a callback key and address based on your actual needs	Callback Configuration

FAQs

- [What ports or domain names do I need to add to the allowlist of a native SDK?](#)
- [How do I reduce the size of an installation package for iOS/Android?](#)
- **How do I get a key?**
- [What are the differences among TRTC Lite, Professional, and Enterprise?](#)
- [What is a `RoomID` in TRTC? What is its value range?](#)
- [Can Android and web users call each other?](#)
- [Which browsers support the SDK for desktop browsers?](#)

Note :

For more Q&As, please see [FAQs](#).

Feedback and Suggestion

If you have any questions about TRTC, contact us via the following channels.

- If your question is about documents, for example, the content or a link in the documents, click **Help** at the bottom right and then click **Send Feedback** to provide your feedback.
- If you have questions about the product, please [submit a ticket](#).