



Agora SDK Release Notes

v1.5.2

support@agora.io

Content

Introduction	3
Overview of Agora SDK v1.5.2	4
Downloading the SDKs	4
Package	4
Documentation.....	5
New and Changed from v1.4 to v1.5	5
New and Changed in v1.5	5
Agora Native SDK for Android and iOS	5
Agora Native SDK for Windows and Mac.....	5
Agora Native SDK for Web	5
Agora Whiteboard SDK.....	6
New and Changed in v1.5.2	6
General	6
Agora Native SDK for Android.....	6
Agora Native SDK for iOS.....	6
Agora Native SDK for Mac.....	6
Agora Native SDK for Windows	6
Agora Native SDK for Web	6
Agora Recording Server.....	6
Known Issues and Limitations	7
Recording	7
Encryption.....	7
Screen Sharing.....	7
Agora Native SDK for Android	8
Agora Native SDK for Web	7
Agora Whiteboard SDK.....	7

Introduction

Agora Communications as a Service (CaaS) provides Quality of Experience for worldwide Internet-based voice and video communications through our virtual Agora Global Network, which is tailored and optimized for real-time and mobile-to-mobile communications. Agora CaaS solves quality of experience challenges for mobile devices, such as 3G/4G/Wi-Fi networks with erratic performance and global Internet bottlenecks.

Agora CaaS includes the following SDKs and the applications using the Native SDK link it directly into the application when they are built:

- Agora Native SDK for iOS and Agora Native SDK for Android

Mobile-optimized for smartphones, allowing access to the Agora Global Network along with device-specific mobile optimizations.

- Agora Native SDK for Windows and Agora Native SDK for Mac

- Agora Native SDK for Web

It provides web browsers with open access to the Agora Global Network.

- Agora Whiteboard SDK

It provides a simple collaboration platform on the whiteboard where users from different locations can draw, annotate, and share PDF documents to visualize and simplify the communication. The SDK provides open access to the Agora Global Network from any device that supports a standard HTML5-compliant web browser, without requiring any downloads or plugins.

See agora.io for more information.

Overview of Agora SDK v1.5.2

This release of the Agora SDK includes the following SDKs for different platforms (the current minor version numbers for each platform are noted in [Downloading the SDKs](#)):

- 📦 Agora Native SDK for Windows v1.5
- 📦 Agora Native SDK for Mac v1.5
- 📦 Agora Native SDK for iOS v1.5
- 📦 Agora Native SDK for Android v1.5
- 📦 Agora Native SDK for Web v1.5

Agora SDK supports both voice and video communications. Applications built on different platforms can interoperate with one another.

Downloading the SDKs

Find the Agora SDK documentation at www.agora.io/developer/, where there are download links for all the reference manuals. Sign up for free to download the full SDK packages.

There is a **GET API KEY** link at the top right of the Agora website page and also after the reference manual download links. Signing up is a simple process that also provides the API Vendor Key needed to use the SDKs to access the Agora Global Network. When you sign in, you find all the SDK download links on the Getting Started dashboard. Check back there for updates when there are new releases.

Package

The following package files are available for v1.5.2:

- 📦 Agora_Native_SDK_for_iOS_v1_5_2_VOICE.zip
- 📦 Agora_Native_SDK_for_iOS_v1_5_2_FULL.zip
- 📦 Agora_Native_SDK_for_Android_v1_5_2_VOICE.zip
- 📦 Agora_Native_SDK_for_Android_v1_5_2_FULL.zip
- 📦 Agora_Native_SDK_for_Windows_v1_5_2_FULL.zip
- 📦 Agora_Native_SDK_for_Mac_v1_5_2_FULL.zip
- 📦 Agora_Native_SDK_for_Web_v1_5_2_FULL.zip

For iOS and Android, the SDK currently comes in two packages: voice-only (tagged “VOICE”) and voice plus video (tagged “FULL”). Use the voice-only SDK package if you are only focused on voice applications on iOS and Android and want the smaller libraries and configuration. Otherwise use the larger voice and video “FULL” package for general development. In future releases, these two options may be included as components in a single package. For Agora Native SDK for Windows, Mac and Web SDK, each SDK come in a single full voice and video package.

Documentation

Reference manuals are available from [our website](#) and are also included within each SDK package (in the doc/ sub-folder).

- 🔗 Agora Native SDK for iOS Reference Manual v1.5
- 🔗 Agora Native SDK for Android Reference Manual v1.5
- 🔗 Agora Native SDK for Windows Reference Manual v1.5
- 🔗 Agora Native SDK for Mac Reference Manual v1.5
- 🔗 Agora Native SDK for Web Reference Manual v1.5

Use the following documents together with each platform reference manual if required:

- 🔗 **Agora Recording Server User Guide:**
Use this document to enable the recording function if required.
- 🔗 **Agora SDK Data Encryption User Guide**
Use this document to enable the data encryption function if required.

New and Changed from v1.4 to v1.5

New and Changed in v1.5

Agora Native SDK for Android and iOS

- 🔗 Mix the local audio file with the microphone input:
 - startAudioMixing
 - stopAudioMixing
- 🔗 Troubleshooting:
In each SDK reference manual, a new **Errors and Warnings** section with descriptions for all errors and warnings

Agora Native SDK for Windows and Mac

- 🔗 Mix the local audio file with the microphone input:
 - startAudioMixing
 - stopAudioMixing
- 🔗 Add the screen sharing function:
 - startScreenCapture
 - setScreenCaptureWindow
 - stopScreenCapture
- 🔗 Troubleshooting:
In each SDK reference manual, a new **Errors and Warnings** section with descriptions for all errors and warnings

Agora Native SDK for Web

- 🔗 Add the screen sharing function:
 - getWindows
 - startScreenSharing
 - setScreenSharingWindow
 - stopScreenSharing
- 🔗 Troubleshooting:

In each SDK reference manual, a new **Errors and Warnings** section with descriptions for all errors and warnings

Agora Whiteboard SDK

Add the new whiteboard functions on all platforms.

New and Changed in v1.5.2

General

- Add vocs fallback strategy.
- When sharing one specific window, the users can see some contents outside of this specific window-----The issue is fixed.

Agora Native SDK for Android

- Users cannot find the startAudioMixing API in SDK interface files -----The issue is fixed.

Agora Native SDK for iOS

- Users cannot find the startAudioMixing API in SDK interface files -----The issue is fixed.
- SDK does support iOS simulator -----The issue is fixed.
- iOS cannot be compiled successfully -----The issue is fixed.
- The video cannot show the last frame image when the remote user is offline -----The issue is fixed.
- Reduce the local video frame rate to save power for iOS.

Agora Native SDK for Mac

- Users cannot find the startAudioMixing API in SDK interface files -----The issue is fixed.
- The video cannot show the last frame image when the remote user is offline -----The issue is fixed.

Agora Native SDK for Windows

- The video cannot show the last frame image when the remote user is offline -----The issue is fixed.

Agora Native SDK for Web

- Add one new parameter video in createStream to control the camera.
- Add the following callback events and notifications:
 - ◆ peer-mute-audio
 - ◆ peer-mute-video
 - ◆ error(indicating the network connection is lost or interrupted)

Agora Recording Server

Users cannot deploy script to specify the directory to store the recording files -----The issue is fixed.

Known Issues and Limitations

Recording

- If you record using an Android client, the screen turns upside-down when you switch from the front-facing camera to the rear camera.
- The recording function is only applicable to Agora Native SDK v1.3 or later versions. If any participant is using v1.2 in a channel, no one in that channel can record.
- If no one in the channel calls the API to stop recording, the last thirty seconds of the recording are empty.

Encryption

- An encrypted channel cannot use the recording function.
- Currently, the built-in AES-128 encryption does not interoperate with the Web SDK (based on Web RTC).

Screen Sharing

- Users can employ the whiteboard function on Agora-supported platforms for Web, Mac and Windows. On iOS and Android, users have view-only permission.

Agora Native SDK for Web

- Agora Native SDK for Web:
 - ◆ The maximum supported video resolutions are 720p at 15fps and 480p at 30fps.
 - ◆ The following are the current supported browsers. Using an unsupported browser (for example, Opera, Firefox) can result in unexpected errors.

Browser		Requirements
Windows	Edge	25.10586.0.0
Windows 10	Chrome	51.0.2704.103 (64 bit)
Mac	Safari	9.1.1(11601.6.17)

Note

Chrome is supported on Windows at 640x480p 30fps resolution. Other higher resolutions will be supported in future releases.

Agora Whiteboard SDK

- Users can employ the whiteboard function on Agora-supported platforms for Web, Mac and Windows. On iOS and Android, users have view-only permission.
- If your application is on Mac, the file upload function is not supported. This issue is caused

Agora CaaS, Agora Global Network, Agora Native SDK and Agora Web SDK are trademarks of Agora.io. Agora Lab does business as Agora.io. Other product and company names mentioned herein are trademarks or trade names of their respective companies.

© 2016 Agora.io. All rights reserved.

by OS X being unable to open the panel in WKWebView, and the file upload window cannot pop up.

Agora Native SDK for Android

- 🔗 If you want to use the startAudioMixing API, ensure that the Android device is ≥ 4.2 , and API Level ≥ 16 .