agora.io

AGORA SDK

RELEASE NOTES

VERSION 1.2

Introduction

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

Agora CaaS includes mobile-optimized Agora Native SDKs for iOS and Android smartphones that provide access to the Agora Global Network along with device-specific mobile optimizations. Agora Native SDK is also available for Windows and Mac. Applications using the Native SDK link it directly into the application executable when they are built.

The Agora Web SDK is a further capability that provides open access to the Agora Global Network from any device that supports a standard WebRTC-compliant web browser, without requiring any downloads or plugins. In this case, the Agora Web SDK provides a wrapper around the WebRTC capabilities in the browser that provide the voice and video capabilities used by applications.

See agora.io for more information.

Overview of Agora SDK v1.2

This release of the Agora SDK includes the following SDKs for different platforms:

- Agora Native SDK for iOS v1.2
- Agora Native SDK for Android v1.2
- Agora Native SDK for Windows v1.2
- Agora Native SDK for MAC v1.2
- Agora Web SDK v1.2

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

Downloading the SDKs

The Agora SDK documentation can be accessed from the webpage www.agora.io/developer/ where there are download links for all the reference manuals. Developers should then sign up for free with Agora.io to download the full SDK packages.

There is a Sign-Up link at the top right of the Agora website page and also after the reference manual download links. This is a simple process that also provides the API "vendor key" needed to use the SDKs to access the Agora Global Network. All the SDK download links are on the first "dashboard" page once signed in. Check back on that page for updates when there are new releases. The following package files are available:

- Agora_Native_SDK_for_iOS_v1_2_1_VOICE.zip
- Agora_Native_SDK_for_iOS_v1_2_1_FULL.zip
- Agora_Native_SDK_for_Android_v1_2_1_VOICE.zip
- Agora_Native_SDK_for_Android_v1_2_1_FULL.zip
- Agora_Native_SDK_for_Windows_v1_2_1_FULL.zip
- Agora_Native_SDK_for_MAC_v1_2_1_VOICE.zip
- Agora_Native_SDK_for_MAC_v1_2_1_FULL.zip
- Agora_Web_SDK_v1_2_0_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 package for general development. In future releases these two options may be included as components in a single package. The Windows, MAC and Web SDKs come in a single full voice and video package.

SDK Documentation

In addition to this Release Note, there is a Reference Manual for each platform. These are accessible from our website (links above) and are also included within each SDK package (in the docs/ sub-folder).

- Agora Native SDK for iOS Reference Manual v1.2
- Agora Native SDK for Android Reference Manual Android v1.2
- Agora Native SDK for Windows Reference Manual Windows v1.2
- Agora Native SDK for Windows Reference Manual MAC v1.2
- Agora Web SDK Reference Manual v1.2

Refer to the Reference Manuals for information on the contents of the SDK package, compatibility and supported platforms, and how to build and run the demo application provided with each SDK.

Changes in v1.2 from Previous Releases

Major Changes

- **MAC Platform Support**: This release includes the Agora Native SDK for MAC, which supports OS X 10.10 and above.

- **Interoperability**: In this release, the SDK on all platforms can interoperate with each other by default. There is no need to set a flag for Web SDK interoperability, as in v1.1.5. However, please note that video interoperability is not optimized in this release when communicating between Web and Native platforms in poor network conditions, and so some performance issues including video pausing or buffering may occur, especially in multiparty sessions with multiple web clients and multiple native clients. This will be addressed in future releases.

General Updates for All Platforms

- Removed WEBSDK_COMPATIBLE profile, as the Native SDK is set in this release to interoperate with Web SDK automatically. Note, however, that a profile setting like this may be reintroduced in future releases depending on future performance optimization work.

Specific Updates for Agora Native SDK for iOS, Android and Mac

- Deleted VendorMessage related APIs since they use unreliable transmission and may result in messages being lost. These APIs are:
  - receiveVendorMessageFromUid
  - enableVendorMessage
  - disableVendorMessage
  - sendVendorMessage
  - onVendorMessage

Specific Updates for Agora Web SDK

- Added getDevices API to enumerate platform camera/microphone devices.
- Added stream stop API to clear the stream display, as peer to stream play API.
- Customized error code for user query in onFailure callback function.