

Demo 运行指引

1 准备环境

请确保开发环境满足以下技术要求（以下示例皆以 MacOS 为例）：

- Android Studio 2.1 或以上版本
- 已经下载好 Android SDK 25、Android SDK Build-Tools 25.0.2、Android SDK Platform-Tools 25.*.*
- Android 版本不低于 4.0.3 且支持音视频的 Android 设备或模拟器（推荐使用真机），如果是真机，请开启“允许调试”选项。
- Android 设备已经连接到 Internet

请注意

1. 首次编译 Demo 项目时，可能需要下载特定的 gradle 及 Demo 所需要的依赖库，所以请确保开发电脑已经连接到 Internet 且能正常访问 <https://services.gradle.org> (<https://services.gradle.org>)，Demo 中使用的 gradle 版本 是 3.3（可在 项目/gradle/wrapper/gradle-wrapper.properties 文件中查看），gradle 插件版本 是 2.3.0（可在 项目/build.gradle 文件中查看），buildToolsVersion 是 "25.0.2"。

2 获取 Demo

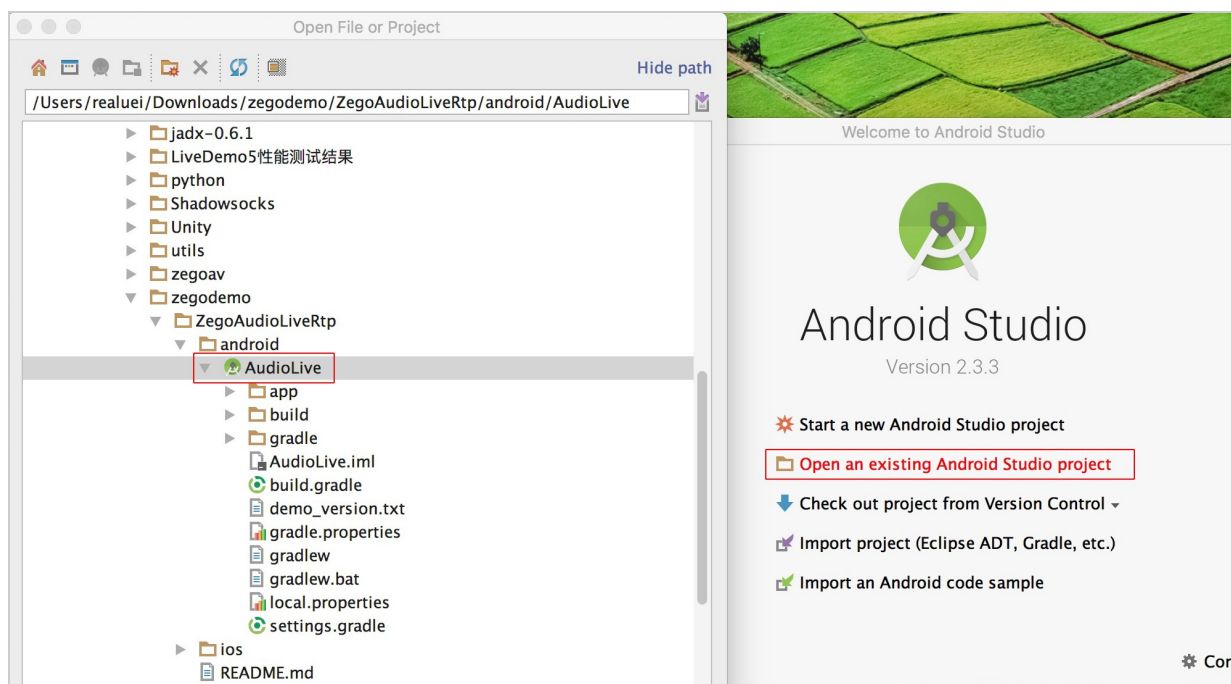
请从 [zegodev \(https://github.com/zegodev/ZegoAudioLiveRtp\)](https://github.com/zegodev/ZegoAudioLiveRtp) 下载 Demo

3 运行 Demo

3.1 通过 IDE（以 Android Studio 为例）运行 AudioLiveDemo

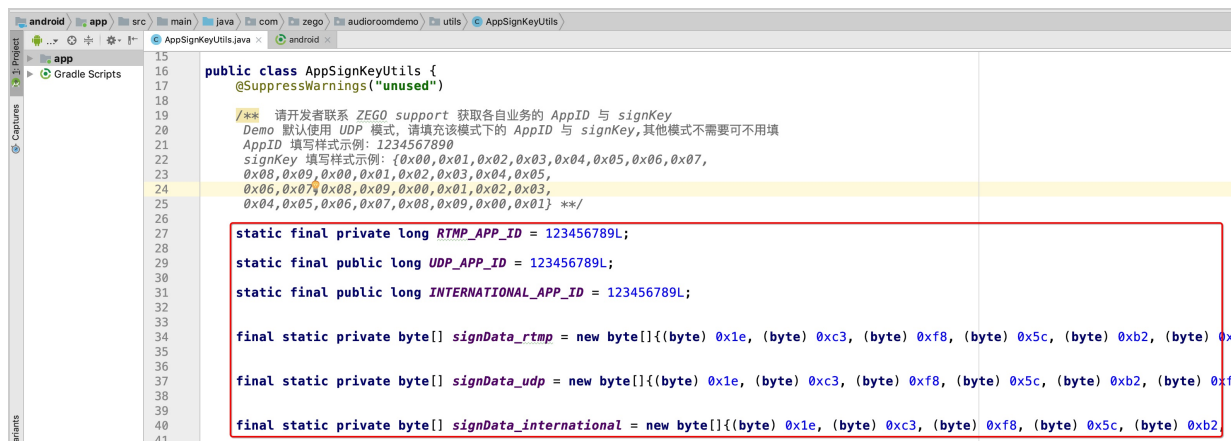
运行步骤如下：

1. 打开 Android Studio, 点击 “Open an existing Android Studio project” 选择 android 目录下的 AudioLive, 此过程可能会比较久。



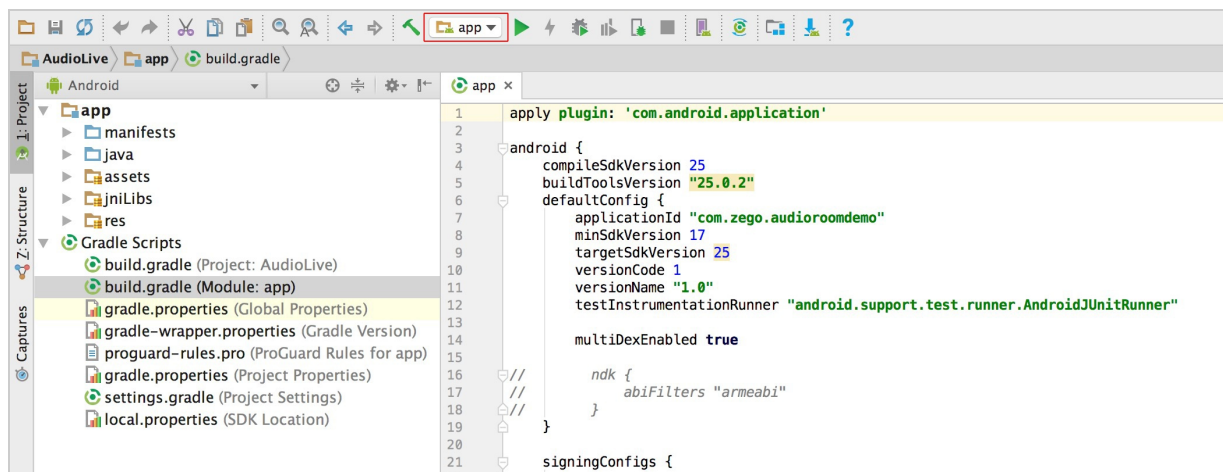
2. 下载的 Demo 源码中缺少 SDK 初始化必须的 AppID 和 AppSign, 请提前在[即构管理控制台 \(https://console.zego.im/acount/register\)](https://console.zego.im/acount/register)获取。如果不填写正确的 AppID 和 AppSign, 源码无法正常跑起来。所以需要

修改 AppSignKeyUtils.java，填写：AppID 和 AppSign，可以从邮件获取。注意：需要在**AppID**后加**L**，可以参考下图：



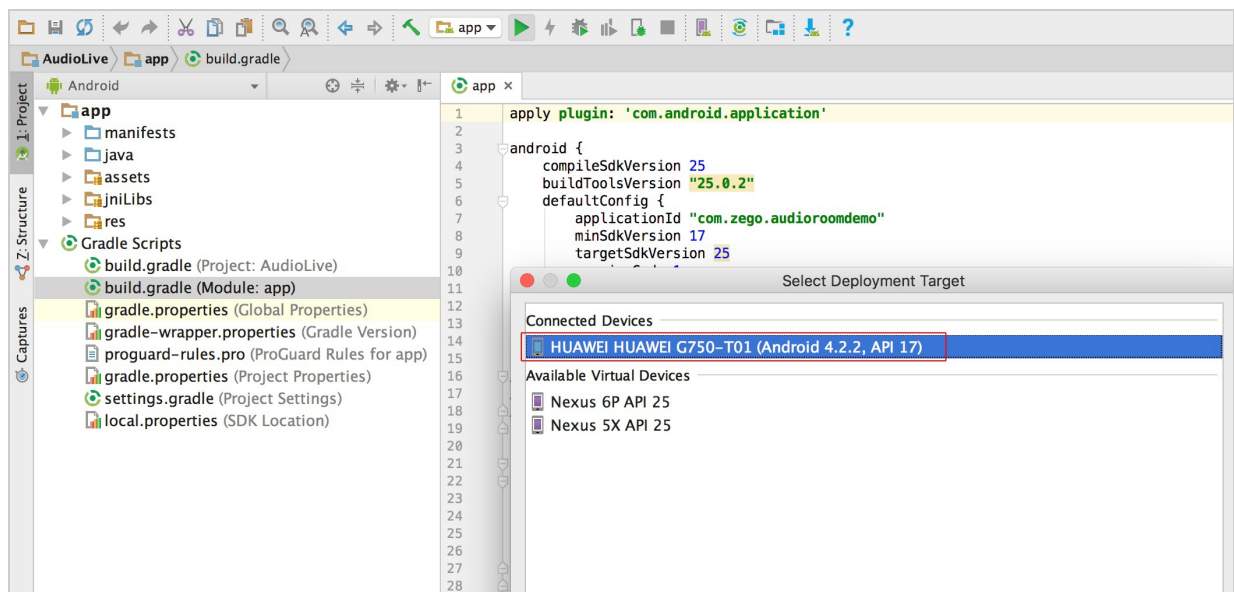
```
15 public class AppSignKeyUtils {
16     @SuppressWarnings("unused")
17
18     /** 请开发者联系 ZEGO support 获取各自业务的 AppID 与 signKey
19      * Demo 默认使用 UDP 模式，请填写该模式下的 AppID 与 signKey，其他模式不需要可不用填
20      * AppID 填写样式示例：1234567890
21      * signKey 填写样式示例：{0x00,0x01,0x02,0x03,0x04,0x05,0x06,0x07,
22      * 0x08,0x09,0x00,0x01,0x02,0x03,0x04,0x05,
23      * 0x06,0x07,0x08,0x09,0x00,0x01,0x02,0x03,
24      * 0x04,0x05,0x06,0x07,0x08,0x09,0x00,0x01} */
25
26     static final private long RTMP_APP_ID = 123456789L;
27
28     static final public long UDP_APP_ID = 123456789L;
29
30     static final public long INTERNATIONAL_APP_ID = 123456789L;
31
32     final static private byte[] signData_rtmp = new byte[]{(byte) 0x1e, (byte) 0xc3, (byte) 0xf8, (byte) 0x5c, (byte) 0xb2, (byte) 0xf8,
33     final static private byte[] signData_udp = new byte[]{(byte) 0x1e, (byte) 0xc3, (byte) 0xf8, (byte) 0x5c, (byte) 0xb2, (byte) 0xf8,
34     final static private byte[] signData_international = new byte[]{(byte) 0x1e, (byte) 0xc3, (byte) 0xf8, (byte) 0x5c, (byte) 0xb2, (byte) 0xf8,
```

3. 点击 build and run 按钮进行编译并运行。



```
1 apply plugin: 'com.android.application'
2
3 android {
4     compileSdkVersion 25
5     buildToolsVersion "25.0.2"
6     defaultConfig {
7         applicationId "com.zego.audioroomdemo"
8         minSdkVersion 17
9         targetSdkVersion 25
10        versionCode 1
11        versionName "1.0"
12        testInstrumentationRunner "android.support.test.runner.AndroidJUnitRunner"
13
14        multiDexEnabled true
15
16        ndk {
17            abiFilters "armeabi"
18        }
19    }
20
21    signingConfigs {
```

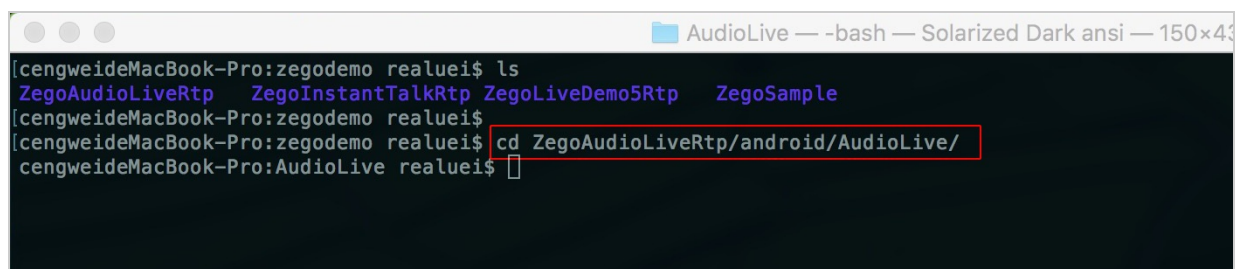
4. 选择一台已连接真机设备（推荐）或者虚拟机运行。



3.2 通过终端（以 Terminal 为例）运行 AudioLiveDemo

运行步骤如下：

1. 打开 Terminal，并进入到 android/AudioLive 目录。



2. 编译 LiveDemo5 工程，生成 .apk 文件（此过程可能会耗费比较长的时间）。

```
AudioLive — -bash — Solarized Dark ansi — 150x43
[cengweideMacBook-Pro:zegodemo realuei$ ls
ZegoAudioLiveRtp  ZegoInstantTalkRtp  ZegoLiveDemo5Rtp  ZegoSample
[cengweideMacBook-Pro:zegodemo realuei$
[cengweideMacBook-Pro:zegodemo realuei$ cd ZegoAudioLiveRtp/android/AudioLive/
[cengweideMacBook-Pro:AudioLive realuei$ pwd
/Users/realuei/Downloads/zegodemo/ZegoAudioLiveRtp/android/AudioLive
[cengweideMacBook-Pro:AudioLive realuei$
[cengweideMacBook-Pro:AudioLive realuei$ ./gradlew clean assembleDebug
Incremental java compilation is an incubating feature.
:clean
:app:clean
:app:preBuild UP-TO-DATE
:app:preDebugBuild UP-TO-DATE
:app:checkDebugManifest
:app:preReleaseBuild UP-TO-DATE
:app:prepareComAndroidSupportAnimatedVectorDrawable2531Library
:app:prepareComAndroidSupportAppcompatV72531Library
:app:prepareComAndroidSupportConstraintLayout102Library
:app:preDebugAndroidTestBuild UP-TO-DATE
:app:prepareComAndroidSupportMultidex101Library
:app:prepareComAndroidSupportSupportCompat2531Library
:app:prepareComAndroidSupportSupportCoreUi2531Library
:app:prepareComAndroidSupportSupportCoreUtils2531Library
:app:prepareComAndroidSupportSupportFragment2531Library
:app:prepareComAndroidSupportSupportMediaCompat2531Library
:app:prepareComAndroidSupportSupportV42531Library
:app:prepareComAndroidSupportSupportVectorDrawable2531Library
:app:prepareComTencentBuglyCrashreport222Library
:app:prepareComTencentBuglyNativecrashreport30Library
:app:prepareDebugDependencies
:app:compileDebugAidl
:app:compileDebugRenderscript
:app:generateDebugBuildConfig
:app:generateDebugResValues
:app:generateDebugResources
:app:mergeDebugResources
:app:processDebugManifest
/Users/realuei/Downloads/zegodemo/ZegoAudioLiveRtp/android/AudioLive/app/src/main/AndroidManifest.xml:19:5-40:19 Warning:
  application@android:label was tagged at AndroidManifest.xml:19 to replace other declarations but no other declaration present
:app:processDebugResources
:app:generateDebugSources
:app:incrementalDebugJavaCompilationSafeguard
:app:javaPreCompileDebug
```

3. 安装应用到真机（确保设备已连接到电脑并能正确识别，有些设备需要手工同意才能正常安装）。

```
AudioLive — -bash — Solarized Dark ansi — 150x43
/Users/realuei/Downloads/zegodemo/ZegoAudioLiveRtp/android/AudioLive/app/src/main/AndroidManifest.xml:19:5-40:19 Warning:
  application@android:label was tagged at AndroidManifest.xml:19 to replace other declarations but no other declaration present
:app:processDebugResources
:app:generateDebugSources
:app:incrementalDebugJavaCompilationSafeguard
:app:javaPreCompileDebug
:app:compileDebugJavaWithJavac
:app:compileDebugJavaWithJavac - is not incremental (e.g. outputs have changed, no previous execution, etc.).
Note: /Users/realuei/Downloads/zegodemo/ZegoAudioLiveRtp/android/AudioLive/app/src/main/java/com/zego/audiroomdemo/activities/SessionActivity.java us
es or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
:app:compileDebugNdk UP-TO-DATE
:app:compileDebugSources
:app:mergeDebugShaders
:app:compileDebugShaders
:app:generateDebugAssets
:app:mergeDebugAssets
:app:transformClassesWithJarMergingForDebug
:app:transformClassesWithMultidexlistForDebug
:app:transformClassesWithDexForDebug
:app:mergeDebugJniLibFolders
:app:transformNativeLibsWithMergeJniLibsForDebug
:app:transformNativeLibsWithStripDebugSymbolForDebug
:app:processDebugJavaRes UP-TO-DATE
:app:transformResourcesWithMergeJavaResForDebug
:app:validateSigningDebug
:app:packageDebug
:app:assembleDebug

BUILD SUCCESSFUL

Total time: 9.31 secs
(cengweideMacBook-Pro:AudioLive realuei$ adb devices -l
List of devices attached
* daemon not running. starting it now at tcp:5037 *
* daemon started successfully *
AEK7LZLBIZ8DC6BI device usb:336658432X product:G750-T01 model:HUAWEI_G750_T01 device:hwG750-T01

(cengweideMacBook-Pro:AudioLive realuei$ adb -s AEK7LZLBIZ8DC6BI install -r app/build/outputs/apk/app-debug.apk
app/build/outputs/apk/app-debug.apk: 1 file pushed. 8.8 MB/s (23332745 bytes in 2.521s)
pkg: /data/local/tmp/app-debug.apk
Success
cengweideMacBook-Pro:AudioLive realuei$
```

4. 启动应用。

```
AudioLive — -bash — Solarized Dark ansi — 150x43
:app:processDebugResources
:app:generateDebugSources
:app:incrementalDebugJavaCompilationSafeguard
:app:javaPreCompileDebug
:app:compileDebugJavaWithJavac
:app:compileDebugJavaWithJavac - is not incremental (e.g. outputs have changed, no previous execution, etc.).
Note: /Users/realuei/Downloads/zegodemo/ZegoAudioLiveRtp/android/AudioLive/app/src/main/java/com/zego/audiroomdemo/activities/SessionActivity.java us
es or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
:app:compileDebugNdk UP-TO-DATE
:app:compileDebugSources
:app:mergeDebugShaders
:app:compileDebugShaders
:app:generateDebugAssets
:app:mergeDebugAssets
:app:transformClassesWithJarMergingForDebug
:app:transformClassesWithMultidexlistForDebug
:app:transformClassesWithDexForDebug
:app:mergeDebugJniLibFolders
:app:transformNativeLibsWithMergeJniLibsForDebug
:app:transformNativeLibsWithStripDebugSymbolForDebug
:app:processDebugJavaRes UP-TO-DATE
:app:transformResourcesWithMergeJavaResForDebug
:app:validateSigningDebug
:app:packageDebug
:app:assembleDebug

BUILD SUCCESSFUL

Total time: 9.31 secs
(cengweideMacBook-Pro:AudioLive realuei$ adb devices -l
List of devices attached
* daemon not running. starting it now at tcp:5037 *
* daemon started successfully *
AEK7LZLBIZ8DC6BI device usb:336658432X product:G750-T01 model:HUAWEI_G750_T01 device:hwG750-T01

(cengweideMacBook-Pro:AudioLive realuei$ adb -s AEK7LZLBIZ8DC6BI install -r app/build/outputs/apk/app-debug.apk
app/build/outputs/apk/app-debug.apk: 1 file pushed. 8.8 MB/s (23332745 bytes in 2.521s)
pkg: /data/local/tmp/app-debug.apk
Success
(cengweideMacBook-Pro:AudioLive realuei$ adb -s AEK7LZLBIZ8DC6BI shell am start -n com.zego.audiroomdemo/com.zego.audiroomdemo.MainActivity
Starting: Intent { cmp=com.zego.audiroomdemo/.MainActivity }
cengweideMacBook-Pro:AudioLive realuei$
```

