Android Installation Guide

Zello's Android SDK is a fully-native set of libraries that provides APIs for connecting with Zello servers , enabling tasks such as authentication and message sending. You can add the SDK to your project using Gradle, similar to how you would add other libraries. However, you will also need to add a Zello-hosted Maven repository to access the compiled code.

Prerequisites:

- An Android build environment that includes Gradle.
- Hilt dependency injection, which is required for the SDK to properly initialize.
- Android SDK 24+

Adding Zello SDK to your project:

Add the Zello-hosted repository that contains our SDK to the section where your Gradle configuration defines repositories.

For example, your top-level `build.gradle.kts` file may contain this block:

```
1  allProjects {
2      repositories {
3          google()
4          mavenCentral()
5          maven { url = uri("https://zello-sdk.s3.amazonaws.com/android/latest") }
6          // Other repos
7      }
8  }
```

We recommend using the `google` and `mavenCentral` repositories to load the transitive dependencies required by the Zello SDK. However, as long as your set of repositories includes all of Zello's necessary dependencies, the SDK will run. The full list can be found below.

In your module-level or app-level `build.gradle.kts` , include the following:

```
 1  dependencies {
 2      implementation("com.zello:sdk:0.3.1")
 3      implementation("com.zello:core:0.3.1") {
 4          exclude(module = "unspecified")
 5      }
 6      implementation("com.zello:zello:0.3.1")
 7
 8      // Firebase Messaging is used for push notifications and is a compile-time dependency
 9      // used when generating dependency injectors
10      implementation(platform("com.google.firebase:firebase-bom:32.8.0"))
11      implementation("com.google.firebase:firebase-messaging")
12
13      // Other project dependencies
14  }
```

NOTE: The `exclude(module = "unspecified")` call is needed to account for an issue with a transitive dependency. This will be resolved in a future version of the SDK

Transitive Dependencies:

The latest version of the Zello SDK includes the following dependencies transitively which must be resolved in order to prevent errors.

```
1    com.pixplicity.sharp:sharp
2    org.jetbrains.kotlin:kotlin-reflect
3    org.jetbrains.kotlinx:kotlinx-coroutines-core
4    org.jetbrains.kotlinx:kotlinx-coroutines-core-jvm
5    org.jetbrains.kotlinx:kotlinx-coroutines-android
6    com.squareup.moshi:moshi
7    com.squareup.moshi:moshi-kotlin
8    com.squareup.moshi:moshi-adapters
9    com.squareup:javapoet
10   androidx.constraintlayout:constraintlayout
11   androidx.constraintlayout:constraintlayout-solver
12   androidx.lifecycle:lifecycle-viewmodel-savedstate
13   androidx.lifecycle:lifecycle-viewmodel-ktx
14   androidx.lifecycle:lifecycle-common
15   androidx.lifecycle:lifecycle-livedata-ktx
16   androidx.navigation:navigation-fragment-ktx
17   androidx.navigation:navigation-ui-ktx
18   androidx.webkit:webkit
19   androidx.viewpager2:viewpager
20   androidx.appcompat:appcompat
21   androidx.appcompat:appcompat-resources
22   androidx.core:core-splashscreen
23   androidx.core:core-ktx
24   androidx.media:media
25   androidx.annotation:annotation
26   com.google.android.material:material
27   com.android.billingclient:billing-ktx
28   io.reactivex.rxjava3:rxjava
29   io.reactivex.rxjava3:rxandroid
30   io.reactivex.rxjava3:rxkotlin
31   androidx.activity:activity-compose
32   androidx.compose.ui:ui
33   androidx.compose.material:material
34   androidx.compose.ui:ui-graphics
35   androidx.compose.ui:ui-tooling
36   androidx.compose.ui:ui-tooling-preview
37   androidx.compose.runtime:runtime-livedata
38   androidx.constraintlayout:constraintlayout-compose
39   com.github.skydoves:balloon
40   androidx.browser:browser
41   androidx.legacy:legacy-support-v4
42   androidx.compose.material3:material3
43   com.google.android.gms:play-services-maps
44   com.google.android.gms:play-services-location
45   com.google.zxing:core
46   com.airbnb.android:lottie
47   com.drewnoakes:metadata-extractor
48   commons-validator:commons-validator
49   androidx.work:work-runtime-ktx
50   androidx.hilt:hilt-work
```