Permissions

Android

The Android SDK includes its own `AndroidManifest.xml` file that will merge with your application's manifest. Accordingly, all required permissions will be automatically included—no further action necessary.

For clarity and transparency, below you'll find a list of the permissions that are required and their use case:

```
1      // Networking
2      <uses-permission android:name="android.permission.INTERNET" />
3      <uses-permission android:name="android.permission.ACCESS_NETWORK_STATE" />
4      <uses-permission android:name="android.permission.ACCESS_WIFI_STATE" />
5
6      // Voice messages
7      <uses-permission android:name="android.permission.RECORD_AUDIO" />
8      <uses-permission android:name="android.permission.MODIFY_AUDIO_SETTINGS" />
9
10     // Background work
11     <uses-permission android:name="android.permission.WAKE_LOCK" />
12     <uses-permission android:name="android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS" />
13     <uses-permission android:name="android.permission.SYSTEM_ALERT_WINDOW" />
14
15     // Working with bluetooth accessories
16     <uses-permission android:name="android.permission.BLUETOOTH" />
17     <uses-permission android:name="android.permission.BLUETOOTH_ADMIN" />
18     <uses-permission
19         android:name="android.permission.BLUETOOTH_SCAN"
20         android:usesPermissionFlags="neverForLocation"
21         tools:targetApi="s" />
22
23     // Android 14+ foreground service types
24     <uses-permission android:name="android.permission.FOREGROUND_SERVICE_MEDIA_PLAYBACK" />
25     <uses-permission android:name="android.permission.FOREGROUND_SERVICE_MICROPHONE" />
26     <uses-permission android:name="android.permission.FOREGROUND_SERVICE_LOCATION" />
27
28     // Used for location messages, as well as our geotracking "Map" feature available through the Zello Work
   console.
29     // Additionally, used for Bluetooth scanning
30     <uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION" />
31     <uses-permission android:name="android.permission.ACCESS_FINE_LOCATION" />
32
33     // Vibrating the phone when a message is received
34     <uses-permission android:name="android.permission.VIBRATE" />
35
36     // Android 7 permissions to store history. Not needed if your app targets Android 8+
37     <uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE" />
38     <uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE" />
39
40     <uses-feature
41         android:name="android.hardware.microphone"
42         android:required="false" />
43     <uses-feature
44         android:name="android.hardware.wifi"
45         android:required="false" />
46     <uses-feature
```

```
47          android:name="android.hardware.bluetooth"
48          android:required="false" />
49      <uses-feature
50          android:name="android.hardware.bluetooth_le"
51          android:required="false" />
52      <uses-feature
53          android:name="android.hardware.location"
54          android:required="false" />
55      <uses-feature
56          android:name="android.hardware.location.gps"
57          android:required="false" />
58      <uses-feature
59          android:name="android.hardware.location.network"
60          android:required="false" />
```

You will need to request these permissions (audio, post notifications, location, bluetooth) wherever it makes sense for your application, but before you use these Zello SDK features.

While the SDK does not include this permission, you may choose to include the `ACCESS_BACKGROUND_LOCATION` permission in your manifest. If your app will be signing into the SDK while the app is in the background, you will need this permission granted for location services to work.

iOS

The iOS SDK uses the following permissions:

1. Notifications
2. Microphone
    a. Sending audio messages
3. Bluetooth
    a. Connecting to bluetooth accessories
4. Location
    a. Location messages, as well as our geotracking "Map" feature available through the Zello Work console.

After the **notifications** permission has been granted, call the `ZelloSDK.registerForRemoteNotifications()` function.