

INRIX Android Mobile SDK v7.0

Quick Start Guide

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Register with INRIX

Register your application with INRIX to obtain a valid **Application Key** and **Application ID**. These values identify and validate your application with INRIX's servers and are required to initialize the SDK. Your Technical Account Manager or Sales Engineer is your primary contact for this information.

INRIX SDK Access

Your Technical Account Manager or Sales Engineer will provide the necessary information to access the SDK repository. Please provide your Github IDs to your INRIX sales contact. The SDK is available from GitHub as a standard Android Framework. SDK v7.0 is available on GitHub at <https://github.com/INRIX/Android-MobileSDK-External> in the preview branch.

INRIX SDK Integration

Download the INRIX SDK .aar library files and add them to your project. The libraries can be found under the [sample-app/libs](#) folder.

Update your app's **build.gradle** file to include the required INRIX SDK dependencies. See the sample app's [build.gradle](#) file for specific versions.

```
dependencies {  
    // INRIX SDK.  
    compile(name: "com.inrix.sdk-${inrixSdkVersion}", ext: 'aar')  
    compile(name: "com.inrix.sdk.cache-${inrixCacheVersion}", ext: 'aar')  
  
    // Google Play Services.  
    compile "com.google.android.gms:play-services-base:${googlePlayServicesVersion}"  
    compile "com.google.android.gms:play-services-gcm:${googlePlayServicesVersion}"  
    compile "com.google.android.gms:play-services-location:${googlePlayServicesVersion}"  
  
    // Additional INRIX SDK dependencies.  
    compile "com.android.support:support-v4:${supportLibVersion}"  
    compile "com.google.code.gson:gson:${gsonVersion}"  
    compile "com.android.volley:volley:${volleyVersion}"  
    compile "org.slf4j:slf4j-api:${slf4jVersion}"  
}
```

Configure The SDK

Add your INRIX SDK keys to your **AndroidManifest.xml** file under the <application> node:

```
<meta-data
    android:name="com.inrix.appKey"
    android:value="@string/inrix_app_key"/>
<meta-data
    android:name="com.inrix.appId"
    android:value="@string/inrix_app_id"/>
```

Initialize the INRIX SDK

Your app must have both *ACCESS_FINE_LOCATION* and *ACCESS_COARSE_LOCATION* permissions before initializing the INRIX SDK.

To check for the required permissions, create a **PermissionHelper** class for convenience:

```
import android.Manifest;
import android.content.Context;
import android.content.pm.PackageManager;
import android.support.v4.content.PermissionChecker;

public class PermissionHelper {
    public static boolean hasInrixRequiredPermissions(Context context) {
        return hasPermission(context, Manifest.permission.ACCESS_FINE_LOCATION)
            && hasPermission(context, Manifest.permission.ACCESS_COARSE_LOCATION);
    }

    public static boolean hasPermission(Context context, String permission) {
        return isPermissionsGranted(PermissionChecker.checkSelfPermission(context,
            permission));
    }

    public static boolean isPermissionsGranted(int... grantResults) {
        if (grantResults == null || grantResults.length == 0) {
            return false;
        }

        for (int grantResult : grantResults) {
            if (grantResult != PackageManager.PERMISSION_GRANTED) {
                return false;
            }
        }

        return true;
    }
}
```

Initialize the INRIX SDK in your Application's onCreate:

```
public class MyApp extends Application {
    @Override
    public void onCreate() {
        super.onCreate();

        if (PermissionHelper.hasInrixRequiredPermissions(this)) {
            initializeInrixSdk();
        }
    }

    public void initializeInrixSdk() {
        InrixCore.initialize(this);
    }
}
```

Request permissions in your Activity and initialize the INRIX SDK:

```
public class MyActivity extends Activity {
    @Override
    public void onStart() {
        super.onStart();

        if (!PermissionHelper.hasInrixRequiredPermissions(this)) {
            // TODO: Request ACCESS_FINE_LOCATION and ACCESS_COARSE_LOCATION permissions
        }
    }

    @Override
    public void onRequestPermissionsResult(int requestCode, String[] permissions,
        int[] grantResults) {
        if (requestCode == MY_LOCATION_REQUEST_CODE) {
            if (PermissionHelper.isPermissionGranted(grantResults)
                && PermissionHelper.hasInrixRequiredPermissions(this)) {
                ((App) getApplicationContext()).initializeInrixSdk();
            }
        } else {
            super.onRequestPermissionsResult(requestCode, permissions, grantResults);
        }
    }
}
```

Additional Help

Please contact your INRIX Technical Account Manager or Sales Engineer to set up Service Desk support for your project.

Changelog

Change Date	Change Description
4/27/17	Initial release of SDK 7.0