

# Android SDK Integration Guide

This document details the process of integrating the Beachfront .iO Ad SDK with your Android application.

## Requirements

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1. Beachfront .iO app ID & Ad Unit ID - [Get it from here.](#)
2. Beachfront SDK Jar - [Get it from here.](#)
3. Android 1.5 and above

## Installation

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1. Access the Beachfront.iO Console & register your application to get your App ID & Ad unit ID;
2. Download the Beachfront Android AD SDK & Android Support Library, copy into the /lib folder of your Android Project. Make sure the jar files in lib is selected in the Order and Export tab of the Java Build Path panel.
3. Add the BF activity in the application node of AndroidManifest.xml:

```
<activity  
    android:name="com.bfio.ad.BFIOActivity"  
    android:configChanges="keyboardHidden|orientation|screenSize"  
/>
```

Make sure to have android:targetSdkVersion should be equal or greater then 13 in the manifest.

```
<uses-sdk android:targetSdkVersion="13" />
```

Add following required permission in your AndroidManifest.xml

```
<uses-permission android:name="android.permission.READ_PHONE_STATE" />  
<uses-permission android:name="android.permission.INTERNET" />  
<uses-permission android:name="android.permission.ACCESS_NETWORK_STATE" />
```

Once you've completed the above steps, you can start displaying ads in your application by following the simple instructions for Interstitial Ad as below :

In your Activity class (the one from which you want to show the ad), declare a `BFIOInterstitial` instance variable, register your activity as the interstitial's `BFIOInterstitial.InterstitialListener` and instantiate it in the **`onCreate(Bundle savedInstanceState)`** method.

```
public class MainActivity extends Activity implements
BFIOInterstitial.InterstitialListener {

    BFIOInterstitial interstitial;

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        interstitial = new BFIOInterstitial(MainActivity.this, this);
    }
}
```

Your application is now ready to display an interstitial ad.  
Call `requestInterstitial` method to request an interstitial ad. You have to pass the `appId` & `adUnitId`

```
interstitial.requestInterstitial("appId", // appId    "adUnitId"); //adUnitId
```

In case Ad Server find a AD it will return to

```
public void onReceiveInterstitial(BFIOInterstitialAd ad);
```

Otherwise will return to:

```
public void onInterstitialFailed(BFIOErrorCode errorCode);
```

To start the Interstitial Call the following method

```
interstitial.showInterstitial(ad);
```

Following are callbacks methods of an interstitial ad:

```
/**
 * On Interstitial Failed
 *
 * @param errorCode
 */
public void onInterstitialFailed(BFIOErrorCode errorCode);

/**
 *Interstitial Displaying on the screen
 *
 */
public void onInterstitialStarted();

/**
 * Interstitial clicked
 *
 */
public void onInterstitialClicked();

/**
 * Interstitial dismissed
 *
 */
public void onInterstitialDismissed();

/**
 * Interstitial completed
 *
 */
public void onInterstitialCompleted();

/**
 * On Interstitial Received
 *
 */
public void onReceiveInterstitial(BFIOInterstitialAd ad);
```

Example Code:

```
public class MainActivity extends Activity implements
        BFIOInterstitial.InterstitialListener, OnClickListener {

    BFIOInterstitial interstitial;
```

```

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    findViewById(R.layout.activity_main);
    interstitial = new BFIOInterstitial(MainActivity.this, this);
}

@Override
public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.main, menu);
    return true;
}

@Override
protected void onDestroy() {
    interstitial.onDestroy();
    super.onDestroy();
}

@Override
protected void onInterstitialFailed(BFIOErrorCode errorCode) {
    Toast.makeText(MainActivity.this, "Interstitial not Received",
        Toast.LENGTH_SHORT).show();
}

@Override
public void onInterstitialClicked() {
    Toast.makeText(MainActivity.this, "Interstitial Clicked",
        Toast.LENGTH_SHORT).show();
}

@Override
public void onInterstitialDismissed() {
    Toast.makeText(MainActivity.this, "Interstitial dismissed",
        Toast.LENGTH_SHORT).show();
}

@Override
public void onReceiveInterstitial(BFIOInterstitialAd ad) {
    Toast.makeText(MainActivity.this, "Received Interstitial",
        Toast.LENGTH_SHORT).show();
    interstitial.showInterstitial(ad);
}

@Override
public void onClick(View v) {
    switch (v.getId()){

```

