

StartApp In-App Ads Integration v2.0

Introduction

This document will guide you through the integration process of the StartApp in-app ads, which will allow you to make money from your Android applications.

Once integrated, the SDK will allow you to enjoy StartApp's in-app monetization products, offering you the opportunity to maximize the revenue from your application. All this with minimal interference to the user experience.

If you have any questions, contact us via support@startapp.com

SDK integration steps

Step 1: Add the SDK JAR to your Eclipse project

Step 2: Update your manifest file

Step 3: Initialize StartApp Ad

Step 4: Show Banners

Step 5: Show Interstitial AdsStep 6: Obfuscation (optional)Appendix: Advanced Usage

Step 1: Add the SDK JAR to your Eclipse project

Copy the SDK jar file from the SDK zip to the "libs" directory of your project.

Step 2: Update your manifest file

Under the **main** manifest tag, add the following permissions:

```
<uses-permission android:name="android.permission.INTERNET"/>
<uses-permission android:name="android.permission.ACCESS_WIFI_STATE"/>
<uses-permission android:name="android.permission.ACCESS_NETWORK_STATE"/>
//These permissions are only required for showing the ad when pressing the Home button:
<uses-permission android:name="android.permission.SYSTEM_ALERT_WINDOW"/>
<uses-permission android:name="android.permission.GET_TASKS"/>
```



Under the application tag, add new activities:

Note: replace <package_name> with your package as declared in your manifest in both activities.

```
<activity android:name="com.startapp.android.publish.list3d.List3DActivity"
android:taskAffinity="<package_name>.AppWall"
android:theme="@android:style/Theme" />
<activity android:name="com.startapp.android.publish.AppWallActivity"
android:theme="@android:style/Theme.Translucent"
android:taskAffinity="<package_name>.AppWall"
android:configChanges="orientation|keyboardHidden" />
```

Step 3: Initialize StartApp Ad

In the OnCreate method of your activity, call the static function:

```
StartAppAd.init(this, "<Your Developer Id>", "<Your App ID>");
```

right before calling setContentView()

Note: The parameters of StartAppAd.init are:

- 1. Context Activity context
- 2. Developer ID String
- 3. App ID String

You can find your IDs in the developers' portal: http://developers.startapp.com After logging in, your developer ID will be at the top right-hand corner of the page:



To find your application ID, click on ___ Dashboard and then choose the relevant ID from your app list:





Step 4: Show Banners

There are 3 different types of banners:

Banner Type	Description	
Automatic Banner	An automatic selection of banners between	
(recommended)	the two listed below	
Standard Banner	A Standard Banner	
3D Banner	A three dimensional rotating banner	

Adding the Automatic Banner

To add the Automatic Banner, add the following view inside your Activity layout XML:

```
<com.startapp.android.publish.banner.Banner
    android:id="@+id/startAppBanner"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centerHorizontal="true"/>
```

Note: This code will place a View inside your Activity and you can add additional attributes for placing it in the desired location within the Activity.

If you do not wish to add the Automatic Banner, choose one of the following options:

1. Adding a Standard Banner

Add the following View inside your Activity layout .XML

```
<com.startapp.android.publish.banner.bannerstandard.BannerStandard
   android:id="@+id/startAppStandardBanner"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_centerHorizontal="true"/>
```

Note: This code will place a View inside your Activity and you can add additional attributes for placing it in the desired location within the Activity.

2. Adding a 3D Banner

Add the following View inside your Activity layout .XML:

```
<com.startapp.android.publish.banner.banner3d.Banner3D
    android:id="@+id/startApp3DBanner"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centerHorizontal="true"/>
```

Note: This code will place a View inside your Activity and you can add additional attributes for placing it in the desired location within the Activity.



Step 5: Show Interstitial Ads

Initializing the StartApp Ad Object

1. In your activity, create a member variable:

```
private StartAppAd startAppAd = new StartAppAd(this);
Note: The parameter of startAppAd constructor is the context (activity).
```

2. Override the onResume method and add the call to startAppAd.onResume():

```
@Override
public void onResume() {
    super.onResume();
    startAppAd.onResume();
}
```

Note: Add this call right after the call to super.onResume()

Showing Interstitials:

1. Show the Ad in chosen places within the app

You can choose to show the interstitial ad in several locations within your application. This could be upon entering, between stages, while waiting for an action and more.

We do, however, recommend showing the ad upon exiting the application by using the 'back' button or the 'home' button, as explained in steps 2 and 3 below.

Add the following code to the appropriate place or places within your activities in which you would like to show the ad:

```
startAppAd.showAd(); // show the ad
startAppAd.loadAd(); // load the next ad
```

Note: Don't forget to call loadAd() right after showAd() – this will load your next ad.

Example for showing an interstitial ad between activities:

```
public void btnOpenActivity (View view) {
    startAppAd.showAd();
    startAppAd.loadAd();
    Intent nextActivity = new Intent(this, NextActivity.class);
    startActivity(nextActivity);
}
```



2. Show the Ad upon exit by pressing the 'back' button

Override the onBackPressed() method and add a call to the startAppAd.onBackPressed():

```
@Override
public void onBackPressed() {
    startAppAd.onBackPressed();
    super.onBackPressed();
}
```

Note: Place the startAppAd.onBackPressed() call BEFORE the super.onBackPressed() call.

3. Show the Ad upon exit by pressing 'home' button

The Home button functionality can improve results and revenue.

Override the onPause() method and add a call the startAppAd.onPause():

```
@Override
public void onPause() {
    super.onPause();
    startAppAd.onPause();
}
```

Notes:

- a. There are two extra permissions required to run this as described in <u>"Step 2: Update your manifest file"</u> above.
- b. To display the ad in more activities, simply repeat these steps in each desired activity.

Step 6: Obfuscation (optional)

StartApp SDK is already obfuscated. If you choose to obfuscate your App by using proguard, you need to use the following configuration in the proguard configuration file:



Appendix

Advanced Usage

Adding Callback when Ad has loaded

startAppAd.loadAd() can get an implementation of AdEventListener as a parameter.

In case you want to get a callback for the ad load, pass the object which implements AdEventListener (this can be your activity) as a parameter to the method. This object should implement the following methods:

```
@Override
public void onReceiveAd(Ad ad) {
}

@Override
public void onFailedToReceiveAd(Ad ad) {
}
```

Example:

```
startAppAd.loadAd (new AdEventListener() {
    @Override
    public void onReceiveAd(Ad ad) {
    }
    @Override
    public void onFailedToReceiveAd(Ad ad) {
    }
});
```

Adding Callback when Ad has been shown

startAppAd.showAd() can get an implementation of AdDisplayListener as a parameter.

In case you want to get a callback for the ad show, pass the object which implements AdDisplayListener (this can be your activity) as a parameter of the method. This object should implement the following methods:

```
@Override
public void adHidden(Ad ad) {
}
@Override
public void adDisplayed(Ad ad) {
}
```

Example:

```
startAppAd.showAd(new AdDisplayListener() {
    @Override
    public void adHidden(Ad ad) {
    }
    @Override
    public void adDisplayed(Ad ad) {
    }
});
```



Explicitly selecting the type of Ad to load

startAppAd.loadAd() can be told to decide which Ad to load for later use with the AdMode parameter, The options for this parameter are:

Parameter Name	Description	Specific Ad Load Example
AUTOMATIC	Auto selection of the best	startAppAd.loadAd(AdMode.AUTOMATIC)
(recommended)	next interstitial to display	
FULLPAGE	A full-page interstitial	startAppAd.loadAd(AdMode.FULLPAGE)
OFFERWALL	An automatic selection	startAppAd.loadAd(AdMode.OFFERWALL)
	between a standard and a	
	3D offerwall.	

The default value of this parameter is "AUTOMATIC" which will select the ad with the best performance.

When using this mode, additional methods in the activity life cycle must be implemented:

1. Override the <code>onSaveInstanceState</code> (Bundle <code>outState</code>) method and add a call to <code>startAppAd.onSaveInstanceState</code> (outstate):

Note: Add this call right after the call to super.onSaveInstanceState (outState).

Example:

```
@Override
protected void onSaveInstanceState (Bundle outState) {
    super.onSaveInstanceState(outState);
    startAppAd.onSaveInstanceState(outState);
}
```

2. Override the onRestoreInstanceState (Bundle savedInstanceState) method and add a call to startAppAd.onRestoreInstanceState (savedInstanceState):

Note: Add this call right BEFORE the call to super.onRestoreInstanceState (savedInstanceState.

Example:

```
@Override
protected void onRestoreInstanceState (Bundle savedInstanceState) {
    startAppAd.onRestoreInstanceState(savedInstanceState);
    super.onRestoreInstanceState(savedInstanceState);
}
```

Explicitly Closing Interstitial Ad

You can explicitly close the interstitial ad by calling:

```
startAppAd.close();
```

This will close the ad and return the control to the calling Activity. You can use this when implementing a timeout for an ad.

Note: Keep in mind that the user can close the ad before timeout expires.