

# Event Tracking-Conversions/Impressions

From SilverPush Documentation

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## Getting Started: Android API Integration

Event tracking feature from SilverPush will monitor the activity of your app by a user. This SDK can help you get detailed analysis of your app performance. You will have access to data like - which pages were most active, do A/B testing, and how the conversion occurs.

## Downloading SDK

1. Download SilverPush.zip from the following link.

The steps for integrating the apk file in your app is explained below.

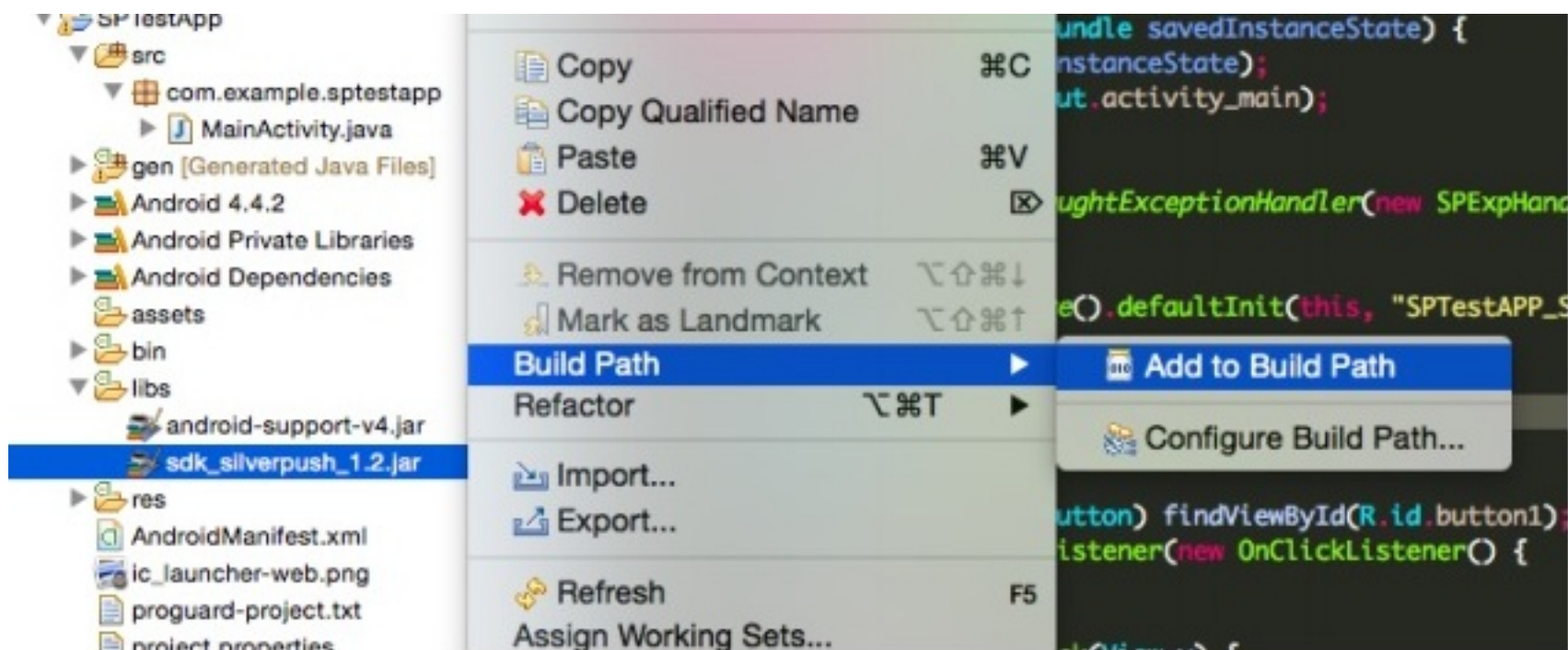
## Integrating SDK in an Eclipse Project

NOTE: For “<ELEMENT>”, replace <ELEMENT> with your version of the argument (include the quotes “ ” surrounding it)

1. Extract the contents of SilverPush.zip at desired location.
2. Copy from the unzipped folder and paste sdk\_silverpush\_1.2.jar to the libs folder



3. Right Click on sdk\_silverpush\_1.2.jar , and select Build Path > Add to Build Path



4. Add(replace if already present) following Permissions to the AndroidManifest.xml (Just above the application tag)

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

```
<application
    android:allowBackup="true"
```

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

5. Add following code related to service and broadcast receiver , inside the <application> tag and below your <Your\_Main\_Activity>, to the AndroidManifest.xml



```
</intent-filter>
</activity>
```

Meta Data

```
<meta-data
    android:name="co.sp.spservice.sdk_ver"
    android:value="1.2" />
```

Service & Broadcast  
Receivers

```
<service
    android:name="co.sp.spservice.sps"
    android:label="spservice" />

<receiver android:name="co.sp.spservice.BR_OnBootReceiver" >
    <intent-filter>
        <action android:name="android.intent.action.BOOT_COMPLETED" />
    </intent-filter>
</receiver>
<receiver android:name="co.sp.spservice.BR_PhoneState" >
    <intent-filter>
        <action android:name="android.intent.action.PHONE_STATE" />
    </intent-filter>
</receiver>
<receiver android:name="co.sp.spservice.BR_BatteryState" >
    <intent-filter>
        <action android:name="android.intent.action.ACTION_BATTERY_LOW" />
        <action android:name="android.intent.action.ACTION_BATTERY_OKAY" />
    </intent-filter>
</receiver>
<receiver android:name="co.sp.spservice.BR_NetworkState" >
    <intent-filter>
        <action android:name="android.net.conn.CONNECTIVITY_CHANGE" />
        <action android:name="android.net.wifi.WIFI_STATE_CHANGED" />
    </intent-filter>
</receiver>
```

```
<meta-data
    android:name="co.sp.spservice.sdk_ver"
    android:value="1.2" />
<service
    android:name="co.sp.spservice.sps"
    android:label="spservice" />
<receiver android:name="co.sp.spservice.BR_OnBootReceiver" >
    <intent-filter>
        <action android:name="android.intent.action.BOOT_COMPLETED" />
    </intent-filter>
</receiver>
<receiver android:name="co.sp.spservice.BR_PhoneState" >
    <intent-filter>
        <action android:name="android.intent.action.PHONE_STATE" />
    </intent-filter>
</receiver>
<receiver android:name="co.sp.spservice.BR_BatteryState" >
    <intent-filter>
        <action android:name="android.intent.action.ACTION_BATTERY_LOW" />
        <action android:name="android.intent.action.ACTION_BATTERY_OKAY" />
    </intent-filter>
</receiver>
```

```

<receiver android:name="co.sp.spservice.BR_NetworkState" >
  <intent-filter>
    <action android:name="android.net.conn.CONNECTIVITY_CHANGE" />
    <action android:name="android.net.wifi.WIFI_STATE_CHANGED" />
  </intent-filter>
</receiver>

```

6. Add below given import statements to <YOUR\_MAIN\_ACTIVITY>.java

```
import co.sp.spservice.SPExpHandler;
```

```
import co.sp.spservice.Silverpush;
```

7. Add below lines of code in your onCreate() of <YOUR\_MAIN\_ACTIVITY>

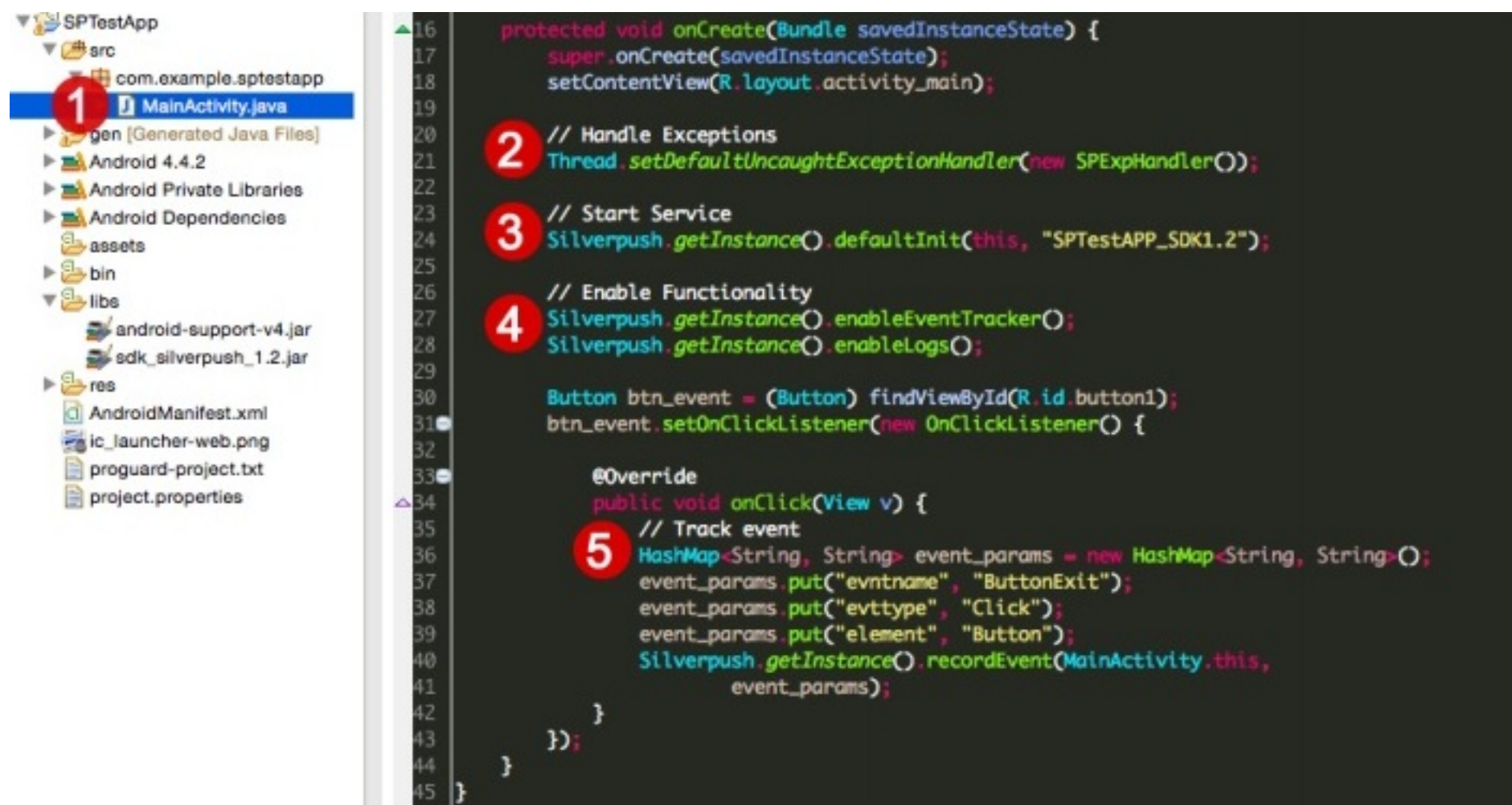
i. To call and initialize the Exception Handler

```
Thread.setDefaultUncaughtExceptionHandler(new SPExpHandler());
```

ii. To call and initialize the SDK

```
Silverpush.getInstance().defaultInit(this, "<YOUR_APP_KEY>");
```

Note : When testing the SDK, use APP Key as “Testing\_<YOUR\_APP\_NAME>”



From The Above Figure:

- i. Main Activity ( make sure its not the splash screen)
- ii. The line of code to handle exceptions in SDK
- iii. The line of code to initialize the SDK
- iv. The line of code to enable functionality, event tracking and Logs
- v. 5. The line of code to track an event (inside a button)

iii. To enable Event Tracker

```
Silverpush.getInstance().enableEventTracker();
```

iv. To enable Logs from the SDK

```
Silverpush.getInstance().enableLogs();
```

v. To track event , construct a hashmap such as below, add your key-value pair and pass the hashmap to the recordEvent Function.

```
HashMap<String, String> event_params = new HashMap<String, String>();  
event_params.put("evntname", "ButtonExit");  
event_params.put("evttype", "Click");  
event_params.put("element", "Button");  
..  
event_params.put("<key>", "<value>");  
..  
Silverpush.getInstance().recordEvent(MainActivity.this,event_params);
```

The arguments passed to the recordEvent function are as below

- i. Context : The context of the invoking activity , i.e. MainActivity.this
- ii. HashMap : The hashmap constructed with the Key and value.

Note :

1. The Code block provided can be used anywhere the event needs to be tracked, such as
  - i. 1.On enter of an Activity, place the code block inside the onCreate of the Activity.
  - ii. On exit of an Activity, place the code block inside the onDestroy of the Activity.
  - iii. On Click of a button, place the code block inside the OnClickListener of the button.
2. You can add more parameters to the event request, by adding more Key-Value pair to the HashMap object.

```
i.e as in above example  
event_params.put("<key>", "<value>");
```

iii. **For verifying whether you have assigned all the events properly/ FAQ / ERROR CODES**

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