

UR_Launcher_SDK接入文档

本文档说明如何通过 Maven 方式将 UR-Launcher-SDK 集成到您的 Android 项目中

最新版本: 1.0.14

1. 引入依赖

1.1 配置 Maven 仓库

在项目根目录的 `settings.gradle` (或项目级 `build.gradle`) 中配置 Maven 仓库地址:

代码块

```
1 dependencyResolutionManagement {  
2     repositories {  
3         google()  
4         mavenCentral()  
5  
6         // 文件夹中的本地 repo 路径  
7         maven { url = uri('/your/path/repo') }  
8  
9         maven {  
10            url = uri("https://cboost.jfrog.io/artifactory/chartboost-ads/")  
11        }  
12        maven {  
13            url = uri("https://android-sdk.is.com/")  
14        }  
15        maven {  
16            url = uri("https://artifact/bytedance.com/repository/pangle/")  
17        }  
18        maven {  
19            url = uri("https://dl-maven-  
20                android.mintegral.com/repository/mbridge_android_sdk_oversea")  
21        }  
22        mavenCentral()  
23  
24         //Anythink(Core)  
25         maven {  
26             url =  
27                 uri("https://jfrog.anythinktech.com/artifactory/overseas_sdk")  
28         }  
29  
30         //Pangle
```

```
29         maven {
30             url = uri( "https://artifact/bytedance.com/repository/pangle")
31         }
32
33         //Mintegral
34         maven {
35             url = uri( "https://dl-maven-
36 android.mintegral.com/repository/mbridge_android_sdk_oversea")
37         }
38
39         //Chartboost
40         maven {
41             url = uri("https://cboost.jfrog.io/artifactory/chartboost-ads")
42         }
43         maven {
44             url = uri("https://cboost.jfrog.io/artifactory/chartboost-
45 mediation")
46         }
47         maven {
48             url = uri("https://jfrog.anythinktech.com/artifactory/debugger")
49         }
50     }
```

1.2 添加项目依赖

在模块级 `build.gradle` (例如 `app/build.gradle`) 中添加 SDK 依赖:

代码块

```
1 dependencies {
2     // launcher sdk 版本
3     implementation 'com.lawnchair:launcher-sdk:1.0.14'
4
5     // 数数
6     implementation("cn.thinkingdata.android:ThinkingAnalyticsSDK:3.0.2")
7     // Admob 广告相关
8     implementation("com.google.android.gms:play-services-ads:23.6.0")
9     implementation("androidx.ads:ads-identifier:1.0.0-alpha01")
10    implementation("com.google.guava:guava:28.0-android")
11    //Vungle
12    implementation("com.vungle:vungle-ads:7.4.3")
13    implementation("com.google.android.gms:play-services-basement:18.1.0")
```

```
14     implementation("com.google.android.gms:play-services-ads-
15         identifier:18.0.1")
16     //Bigo
17     implementation("com.bigossp:bigo-ads:5.5.2")
18     //Pangle
19     implementation("com.google.android.gms:play-services-ads-
20         identifier:18.0.1")
21     //Facebook
22     implementation("com.facebook.android:audience-network-sdk:6.18.0")
23
24     //Inmobi
25     implementation("com.inmobi.monetization:inmobi-ads-kotlin:10.8.0")
26     //AppLovin
27     implementation("com.applovin:applovin-sdk:13.1.0")
28     implementation("com.applovin:applovin-sdk:+")
29     //Mintegral
30     implementation("com.mbridge.msdk.oversea:mbridge_android_sdk:16.9.11")
31     implementation("androidx.recyclerview:recyclerview:1.1.0")
32     //Chartboost
33     implementation("com.chartboost:chartboost-sdk:9.8.2")
34     implementation("com.chartboost:chartboost-mediation-sdk:4.9.2")
35     implementation("com.chartboost:chartboost-mediation-adapter-
36         chartboost:4.9.8.1.0")
37     implementation("com.jakewharton.retrofit:retrofit2-kotlinx-serialization-
38         converter:1.0.0")
39     implementation("com.squareup.retrofit2:converter-gson:2.9.0")
40     implementation("com.squareup.okhttp3:logging-interceptor:4.10.0")
41     implementation("com.squareup.okhttp3:okhttp:4.10.0")
42     implementation("com.squareup.retrofit2:converter-scalars:2.9.0")
43     implementation("com.squareup.retrofit2:retrofit:2.9.0")
44     //Yandex
45     implementation("com.yandex.android:mobileads:7.10.0")
46     //Fyber
47     implementation("com.fyber:marketplace-sdk:8.3.5")
48     implementation("com.google.android.gms:play-services-ads-
49         identifier:18.0.1")
50     // add firebase
51     // Import the Firebase BoM
52     implementation(platform("com.google.firebaseio.firebaseio-bom:34.5.0"))
53     // When using the BoM, you don't specify versions in Firebase library
54     dependencies
55     // Add the dependency for the Firebase SDK for Google Analytics
56     implementation("com.google.firebaseio.firebaseio-analytics")
57     // TODO: Add the dependencies for any other Firebase products you want to
58     use
59     // See https://firebase.google.com/docs/android/setup#available-libraries
```

```
53     // For example, add the dependencies for Firebase Authentication and Cloud
54     // Firestore
55     // implementation("com.google.firebaseio:firebase-auth")
56     // implementation("com.google.firebaseio:firebase-firebase")
57
58     // admob mediation adapter
59     implementation("com.google.ads.mediation:facebook:6.21.0.0")
60     implementation("com.unity3d.ads:unity-ads:4.16.2")
61     implementation("com.google.ads.mediation:unity:4.16.5.0")
62     implementation("com.google.ads.mediation:vungle:7.6.2.0")
63     implementation("com.google.ads.mediation:chartboost:9.10.2.0")
64     implementation("com.google.ads.mediation:fyber:8.4.1.0")
65     implementation("com.google.ads.mediation:ironsource:9.2.0.0")
66     implementation("com.google.ads.mediation:pangle:7.8.0.8.0")
67     implementation("com.google.ads.mediation:mintegral:17.0.41.0")
68     implementation("com.google.ads.mediation:inmobi:11.1.0.0")
69 }
```

2. 初始化配置

2.1 SDK 初始化

在您的 `Application` 类中初始化 SDK:

代码块

```
1 class MyApplication : Application() {
2     override fun onCreate() {
3         super.onCreate()
4
5         // 1. 初始化 SDK (必需)
6         LauncherSDK.init(this)
7         LauncherSDK.onLauncherAppStateCreated(this)
8
9
10        // 2. (可选) 配置负一屏
11        // 开启/关闭负一屏 (默认开启)
12        LauncherSDK.isOverlayEnabled = true
13
14        // 自定义负一屏内容视图
15        // LauncherSDK.overlayProvider = object :
16        app.lawnchair.LauncherSDK.OverlayProvider {
17            //    override fun createView(context: Context): View {
18            //        return MyCustomView(context)
19            //    }
20        }
```

```
20      }
21 }
```

开启Launcher

代码块

```
1 LauncherSettingManager.openLauncherChooserAndFinish(activity: Activity)
```

3. 混淆策略 (ProGuard Rules)

如果在 Release 构建中开启了混淆 (`minifyEnabled true`)，必须将以下规则添加到您的 `proguard-rules.pro` 文件中，否则会导致运行时崩溃或功能缺失。

代码块

```
1 # ====== SDK 混淆规则 ======
2
3 # 1. 核心 SDK 类
4 -keep class app.lawnchair.** { *; }
5 -keep class com.android.launcher3.** { *; }
6
7 # 2. Protocol Buffers (SDK 内部使用)
8 -keep class com.google.protobuf.** { *; }
9
10 # 3. 网络库 (Retrofit & OkHttp)
11 -keep class retrofit2.** { *; }
12 -keepattributes Signature
13 -keepattributes Exceptions
14 -dontwarn okhttp3.**
15 -keep class okhttp3.** { *; }
16
17 # 4. 数据库 (Room)
18 -keep class androidx.room.** { *; }
19 -dontwarn androidx.room.paging.**
20
21 # 5. 广告相关
22 -keep class com.ur.apps.sad.** { *; }
23
24
```

```
25 -keep class com.tenjin.** { *; }
26 -keep public class com.google.android.gms.ads.identifier.** { *; }
27 -keep public class com.google.android.gms.common.** { *; }
28 -keep public class com.android.installreferrer.** { *; }
29 -keep class * extends java.util.ListResourceBundle {
30     protected java.lang.Object[][] getContents();
31 }
32 -keepattributes *Annotation*
33
34 -keep class XI.CA.XI.**{*;}
35 -keep class XI.K0.XI.**{*;}
36 -keep class XI.XI.K0.**{*;}
37 -keep class XI.xo.XI.XI.**{*;}
38 -keep class com.asus.msa.SupplementaryDID.**{*;}
39 -keep class com.asus.msa.sdid.**{*;}
40 -keep class com.bun.lib.**{*;}
41 -keep class com.bun.mitmdid.**{*;}
42 -keep class com.huawei.hms.ads.identifier.**{*;}
43 -keep class com.samsung.android.deviceidservice.**{*;}
44 -keep class com.zui.opendeviceidlibrary.**{*;}
45 -keep class org.json.**{*;}
46 -keep public class com.netease.nis.sdkwrapper_Utils {public <methods>;}
47
48 -dontwarn com.tencent.bugly.**
49 -keep public class com.tencent.bugly.**{*;}
50
51 # 保留所有入口类
52 -keep public class * extends android.app.Application
53 -keep public class * extends android.app.Activity
54 -keep public class * extends android.app.Service
55 -keep public class * extends android.content.BroadcastReceiver
56 -keep public class * extends android.content.ContentProvider
57
58 -keepclassmembers class * {
59     *;
60 }
61 -keepattributes *Annotation*
62 -keep public class * extends java.lang.reflect.Member
63
64 -keepclassmembers class * implements java.io.Serializable {
65     static final long serialVersionUID;
66     private static final java.io.ObjectStreamField[] serialPersistentFields;
67     private void writeObject(java.io.ObjectOutputStream);
68     private void readObject(java.io.ObjectInputStream);
69     java.lang.Object readResolve();
70     java.lang.Object writeReplace();
71 }
```

```
72 }
73
74 -keep public class * extends android.view.View
75 -keep public class * extends android.view.ViewGroup
76
77 -keepclasseswithmembernames class * {
78     native <methods>;
79 }
80
81 -keepattributes Signature
82 -keepattributes *Annotation*
83 -keep public class * {
84     public protected private *;
85 }
86
87 -dontwarn okhttp3.**
88 -keep class okhttp3.** { *; }
89 -keep interface okhttp3.** { *; }
90 -keepattributes Signature
91
92 -keep class com.sg.response.**{*;}
93 -keep interface com.sg.response.**{*;}
94
95 -keep class com.sg.request.**{*;}
96 -keep interface com.sg.request.**{*;}
97
98
99 -keep class com.sg.model.**{*;}
100 -keep interface com.sg.model.**{*;}
101
102
103 -keep class com.sg.api.**{*;}
104 -keep interface com.sg.api.**{*;}
105
106 -keep class com.ur.apps.walk.model.**{*;}
107 -keep interface com.ur.apps.walk.model.**{*;}
108
109 -keep class com.ur.apps.walk.withdraw.**{*;}
110 -keep interface com.ur.apps.walk.withdraw.**{*;}
111
112 -keep class com.ur.apps.walk.settings.**{*;}
113 -keep interface com.ur.apps.walk.settings.**{*;}
114
115 -keep class com.ur.apps.walk.step.bean.**{*;}
116 -keep interface com.ur.apps.walk.step.bean.**{*;}
117
118 -keep class com.ur.apps.walk.step.bean.**{*;}
```

```
119 -keep interface com.ur.apps.walk.step.bean.**{*;}
```

```
120
```

```
121 -keep class com.ur.apps.walk.step.dao.**{*;}
```

```
122 -keep interface com.ur.apps.walk.step.dao.**{*;}
```

```
123
```

```
124
```

```
125 -keep class cn.shuzilm.core.** {*;}
```

```
126
```

```
127
```

```
128 # Vungle
```

```
129 -dontwarn com.vungle.ads.**
```

```
130 -keepclassmembers class com.vungle.ads.** {
```

```
131     *;
```

```
132 }
```

```
133 -keep class com.vungle.ads.**
```

```
134
```

```
135
```

```
136
```

```
137 # Google
```

```
138 -keep class com.google.android.gms.** { *; }
```

```
139 -dontwarn com.google.android.gms.**
```

```
140
```

```
141
```

```
142
```

```
143
```

```
144 # START OkHttp + Okio
```

```
145 # JSR 305 annotations are for embedding nullability information.
```

```
146 -dontwarn javax.annotation.**
```

```
147
```

```
148
```

```
149 # A resource is loaded with a relative path so the package of this class must
```

```
be preserved.
```

```
150 -adaptresourcefilenames okhttp3/internal/publicsuffix/PublicSuffixDatabase.gz
```

```
151
```

```
152
```

```
153 # Animal Sniffer compileOnly dependency to ensure APIs are compatible with
```

```
older versions of Java.
```

```
154 -dontwarn org.codehaus.mojo.animal_sniffer.*
```

```
155
```

```
156
```

```
157 # OkHttp platform used only on JVM and when Conscrypt and other security
```

```
providers are available.
```

```
158 -dontwarn okhttp3.internal.platform.**
```

```
159 -dontwarn org.conscrypt.**
```

```
160 -dontwarn org.bouncycastle.**
```

```
161 -dontwarn org.openssle.**
```

```
162
```

```
163
164 # Animal Sniffer compileOnly dependency to ensure APIs are compatible with
165 older versions of Java.
166 -dontwarn org.codehaus.mojo.animal_sniffer.-
167
168 # END OkHttp + Okio
169
170
171 # START Protobuf
172 -dontwarn com.google.protobuf.**
173 -keepclassmembers class com.google.protobuf.** {
174     *;
175 }
176 -keep class * extends com.google.protobuf.GeneratedMessageLite { *; }
177
178
179 # END Protobuf
180 -keep class com.bytedance.sdk.** { *; }
181 -keep class com.inmobi.** { *; }
182 -keep public class com.google.android.gms.**
183 -dontwarn com.google.android.gms.**
184 -dontwarn com.squareup.picasso.**
185 -keep class com.google.android.gms.ads.identifier.AdvertisingIdClient{
186     public *;
187 }
188 -keep class com.google.android.gms.ads.identifier.AdvertisingIdClient$Info{
189     public *;
190 }
191 # skip the Picasso library classes
192 -keep class com.squareup.picasso.** {*;}
193 -dontwarn com.squareup.okhttp.**
194 # skip Moat classes
195 -keep class com.moat.** {*;}
196 -dontwarn com.moat.**
197 # skip IAB classes
198 -keep class com.iab.** {*;}
199 -dontwarn com.iab.**
200 -keepattributes Signature
201 -keepattributes *Annotation*
202 -keep class com.mbridge.** {*; }
203 -keep interface com.mbridge.** {*; }
204 -keep class android.support.v4.** { *; }
205 -dontwarn com.mbridge.**
206 -keep class **.R$* { public static final int mbridge*; }
207 -keep public class com.mbridge.* extends androidx.** { *; }
208 -keep public class androidx.viewpager.widget.PagerAdapter{ *; }
```

```
209 #--keep public class androidx.viewpager.widget.ViewPager.OnPageChangeListener{  
210 *; }  
211 -keep interface androidx.annotation.IntDef{ *; }  
212 -keep interface androidx.annotation.Nullable{ *; }  
213 -keep interface androidx.annotation.CheckResult{ *; }  
214 -keep interface androidx.annotation.NonNull{ *; }  
215 -keep public class androidx.fragment.app.Fragment{ *; }  
216 -keep public class androidx.core.content.FileProvider{ *; }  
217 -keep public class androidx.core.app.NotificationCompat{ *; }  
218 -keep public class androidx.recyclerview.*{ *; }  
219 -keep class com.chartboost.** { *; }  
220  
221 -keep class com.tenjin.** { *; }  
222 -keep public class com.google.android.gms.ads.identifier.** { *; }  
223 -keep public class com.google.android.gms.common.** { *; }  
224 -keep public class com.android.installreferrer.** { *; }  
225 -keep class * extends java.util.ListResourceBundle {  
    protected java.lang.Object[][] getContents();  
}  
228 -keepattributes *Annotation*  
229  
230  
231 -keep class XI.CA.XI.**{*; }  
232 -keep class XI.K0.XI.**{*; }  
233 -keep class XI.XI.K0.**{*; }  
234 -keep class XI.xo.XI.XI.**{*; }  
235 -keep class com.asus.ms.a.SupplementaryDID.**{*; }  
236 -keep class com.asus.ms.a.sdid.**{*; }  
237 -keep class com.bun.lib.**{*; }  
238 -keep class com.bun.mitmdd.**{*; }  
239 -keep class com.huawei.hms.ads.identifier.**{*; }  
240 -keep class com.samsung.android.deviceidservice.**{*; }  
241 -keep class com.zui.opendeviceidlibrary.**{*; }  
242 -keep class org.json.**{*; }  
243 #-keep public class com.netease.nis.sdkwrapper.Utils {public <methods>;}  
244  
245 -keep class com.bigossp.** { *; }  
246 -keep class com.google.ads.mediation.bigo.** { *; }  
247  
248  
249 # --- 1. AdMob 通用规则 ---  
250 -keep public class com.google.android.gms.ads.** { *; }  
251 -keep public class com.google.ads.mediation.** { *; }  
252  
253 # --- 2. Meta (Facebook) ---  
254 -keep class com.facebook.ads.** { *; }
```

```
255 -keep class com.google.ads.mediation.facebook.** { *; }
256
257 # --- 3. Unity Ads ---
258 -keep class com.unity3d.ads.** { *; }
259 -keep class com.unity3d.services.** { *; }
260 -keep class com.google.ads.mediation.unity.** { *; }
261
262 # --- 4. Liftoff (Vungle) ---
263 -keep class com.vungle.warren.** { *; }
264 -keep class com.google.ads.mediation.vungle.** { *; }
265
266 # --- 5. Chartboost ---
267 -keep class com.chartboost.sdk.** { *; }
268 -keep class com.google.ads.mediation.chartboost.** { *; }
269
270 # --- 6. Fyber ---
271 -keep class com.fyber.** { *; }
272 -keep class com.google.ads.mediation.fyber.** { *; }
273
274 # --- 7. IronSource ---
275 -keep class com.ironsource.** { *; }
276 -keep class com.google.ads.mediation.ironsource.** { *; }
277
278 # --- 8. Pangle (TikTok) ---
279 -keep class com.bytedance.sdk.openadsdk.** { *; }
280 -keep class com.google.ads.mediation.pangle.** { *; }
281
282 # --- 9. Mintegral ---
283 -keep class com.mbridge.msdk.** { *; }
284 -keep class com.google.ads.mediation.mintegral.** { *; }
285
286 # --- 10. InMobi ---
287 -keep class com.inmobi.** { *; }
288 -keep class com.google.ads.mediation.inmobi.** { *; }
289
290 # --- 11. Bigo ---
291 -keep class com.bigossp.** { *; }
292 -keep class com.google.ads.mediation.bigo.** { *; }
293
294 # --- 通用: 保留所有中介适配器类, 防止被 R8 优化掉 ---
295 -keep class * extends com.google.android.gms.ads.mediation.MediationAdapter {
*; }
296 -keep class * extends com.google.android.gms.ads.mediation.Adapter { *; }
```

4. 权限说明

SDK 内部已经声明了必要的权限。如果您的应用 `targetSdk >= 30` (Android 11+)，SDK 会自动合并以下 `<queries>` 规则到您的清单文件中，以确保应用发现（App Discovery）、微件（Widget）和图标包（Icon Pack）功能正常工作。

您不需要手动添加

代码块

```
1  <queries>
2      <intent>
3          <action android:name="android.intent.action.MAIN" />
4          <category android:name="android.intent.category.LAUNCHER" />
5      </intent>
6      <intent>
7          <action android:name="android.intent.action.MAIN" />
8          <category android:name="android.intent.category.HOME" />
9      </intent>
10
11     <intent>
12         <action android:name="android.appwidget.action.APPWIDGET_UPDATE" />
13     </intent>
14     <intent>
15         <action android:name="com.novalauncher.THEME" />
16     </intent>
17     <intent>
18         <action android:name="org.adw.launcher.icons.ACTION_PICK_ICON" />
19     </intent>
20
21 </queries>
```