

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

```

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

```

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.sdids.**{*;}
40 -keep class com.bun.lib.**{*;}
41 -keep class com.bun.mitmids.**{*;}
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
52 # 保留所有入口类
53 -keep public class * extends android.app.Application
54 -keep public class * extends android.app.Activity
55 -keep public class * extends android.app.Service
56 -keep public class * extends android.content.BroadcastReceiver
57 -keep public class * extends android.content.ContentProvider
58
59 -keepclassmembers class * {
60     *;
61 }
62 -keepattributes *Annotation*
63 -keep public class * extends java.lang.reflect.Member
64
65 -keepclassmembers class * implements java.io.Serializable {
66     static final long serialVersionUID;
67     private static final java.io.ObjectStreamField[] serialPersistentFields;
68     private void writeObject(java.io.ObjectOutputStream);
69     private void readObject(java.io.ObjectInputStream);
70     java.lang.Object readResolve();
71     java.lang.Object writeReplace();
```

```
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.openjsse.**
162
```



```
163
164 # Animal Sniffer compileOnly dependency to ensure APIs are compatible with
    older versions of Java.
165 -dontwarn org.codehaus.mojo.animal_sniffer.*
166
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  -keep interface androidx.annotation.IntDef{ *; }
211  -keep interface androidx.annotation.Nullable{ *; }
212  -keep interface androidx.annotation.CheckResult{ *; }
213  -keep interface androidx.annotation.NonNull{ *; }
214  -keep public class androidx.fragment.app.Fragment{ *; }
215  -keep public class androidx.core.content.FileProvider{ *; }
216  -keep public class androidx.core.app.NotificationCompat{ *; }
217  -keep public class androidx.appcompat.widget.AppCompatImageView { *; }
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 {
226      protected java.lang.Object[][] getContents();
227  }
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.msa.SupplementaryDID.**{*;}
236  -keep class com.asus.msa.sdid.**{*;}
237  -keep class com.bun.lib.**{*;}
238  -keep class com.bun.miitmdid.**{*;}
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.bigosp.** { *; }
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.bigosp.** { *; }
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     *; }
297 -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>
```