# JCSDK 对接文档说明

Version: 1.0.0

#### 目录

_	、SDK 简介:	2
	1.1、支持广告类型:	2
	1.2、版本记录:	2
=	<b>、SDK</b> 接入配置(带 <b>unity</b> 桥接和配置文件):	3
	2.1 info.plist 配置:	3
	2.2 build setting 配置:	3
	2.3 导入相关 SDK:	4
	2.4 所需系统支持库:	4
	2.5 JCiOSConfig.plist 文件说明:	5
	以下版本有改动时,请参照版本 sdk 内部带的 plist	5
Ξ	` unity 接入配置和 API 说明:	6
	3.1 JC_unityAdApi.h 接口说明:	6
	3.2 JC_unityCallBackApi.h 接口说明:	7
四、	、广告接口 <b>API</b> 和回调使用	10
	4.1 初始化 和 splash 广告 api 说明:	10
	4.2 banner 广告 api 说明:	11

	4.3 插屏广告 api 说明:	. 12
	4.4 激励视频广告 api 说明:	. 13
	4.5 回调示例	. 14
五	、相关报错	16
	4.1 启动时崩溃	. 16
	4.2 App 打包失败/打包提交失败	17
六、	<b>iOS14</b> 支持说明	20

# 一 、SDK 简介:

JCSDK 是 MS 公司提供的一套广告类型的 SDK,内部集成了各大广告商的广告 SDK 和相关数据统计 SDK,便于平台之间对应用内广告的联合运营和数据分析。

### 1.1、支持广告类型:

开屏广告、banner 广告、激励视频广告、插屏广告、native 广告

### 1.2、版本记录:

请参阅 版本记录

# 二 、SDK 接入配置(带 unity 桥接和配置文件)

以下是导出 Xcode 所需的配置

但我们提供了桥接文件和配置文件,来自动集成一些配置,请查看参考使用:



### 2.1 info.plist 配置:

```
支持 http 网络配置、Google 相关参数配置:
```

<key>NSAppTransportSecurity</key>

<dict>

<key>NSAllowsArbitraryLoads</key>

<true/>

</dict>

#### Google 所需参数配置:

```
<key>GADApplicationIdentifier</key>
```

<string>ca-app-pub-9488501426181082/7319780494

<key>GADIsAdManagerApp

<true/>

#### 获取地理位置权限

<key>NSLocationWhenInUseUsageDescription</key>

<string>The app needs to get your location</string>

#### 获取 IDFA 权限, iOS14 支持

<key>NSUserTrackingUsageDescription</key>
<string>This identifier will be used to deliver personalized
ads to you.</string>

#### 2.2 build setting 配置:

xcode 内 build setting 下配置:

bitcode 设置 NO,

Other linker flags 设置-ObjC

#### 2.3 导入相关 SDK:

MS 平台支持的库和文件: JCSDK

JCSDK.framework 、JCiOSConfig.plist

第三方数据收集平台支持的库和文件: DataCollection\_SDK

第三方广告支持的库和文件: ADThirdParty SDK

#### 2.4 所需系统支持库:

#### ▼ Frameworks, Libraries, and Embedded Content

Name	Embed	
Accelerate.framework	Do Not Embed <	
AdSupport.framework	Do Not Embed <	
AVFoundation.framework	Do Not Embed (	
CoreGraphics.framework	Do Not Embed (	
CoreLocation.framework	Do Not Embed 3	
CoreMedia.framework	Do Not Embed (	
CoreMotion.framework	Do Not Embed (	
CoreTelephony.framework	Do Not Embed	
🚔 iAd.framework	Do Not Embed 3	
libbz2.tbd		
libc++.tbd		
libresolv.9.tbd		
libsqlite3.tbd		
libxml2.tbd		
libz.tbd		
MessageUI.framework	Do Not Embed (	
SafariServices.framework	Do Not Embed 3	
Security.framework	Do Not Embed 3	
SystemConfiguration.framework	Do Not Embed (	
CIKit.framework	Do Not Embed (	
WideoToolbox.framework	Do Not Embed (	
WebKit.framework	Do Not Embed	

AppTrackingTransparency.framework (iOS14 支持)

# 2.5 JCiOSConfig.plist 文件说明:

以下版本有改动时,请参照版本 sdk 内部带的 plist

V1.0.0 提供

Item Value

appid JCSDK 初始化所需的 appid

channelid JCSDK 初始化所需的 channelid

ReYunApplD 热云初始化 appid

ReYunChannelID 热云初始化 channleid

UmengAppID Umeng 初始化 appid

ShuShuAppID 数数平台初始化 appid

TalkingDataApplD TalkingData 平台初始化 appid

V2.0.0 新增

Item Value

KochavaAppID kochava 初始化所需的 appid

TenJinAppID tenjin 初始化所需的 appid

首次打开应用是否展示开屏广告, bool ShowSplashFirst

类型 YES/NO

LogLevel 日志等级:字符串

Item Value

1、关闭。2、开 JC 日志。3、开 JC+ad 日志。4、开 JC+ad+data 日志

# 三 丶unity 接入配置和 API 说明:

```
3.1 JC_unityAdApi.h 接口说明:
/// Initialize sdk
/// @param isOpenLog Log Switch YES/NO
/// @param isShow 首次是否展示开屏 YES/NO
/// @param block 开屏关闭、失败、不展示、网络超时等回传,可视为初
始化完成的一个回调 block
-(void)initJCSDKWithLog:(B00L)isOpenLog
isFirstShowSplash:(BOOL)isShow
splashClose:(unityBlock)block;
V2.0.0 修改初始化接口:
-(void)initJCSDKWithUnityShow:(unityBlock)block;
/// idReady 插屏
bool isReadyIntersitial();
/// show 插屏
void showIntersitial();
```

```
/// isReady 激励视频
bool isReadyRewardVideo();
/// show 激励视频
void showRewardVideo();
/// show banner 广告
void showBannerView();
/// remove banner 广告
void removeBannerView();
3.2 JC_unityCallBackApi.h 接口说明:
/// 注册回调监听 ,请在建立广告回传桥接前调用
void RegistCallBacknotifition();
/// 用于开屏回调
/// @param failLoad load 失败
/// @param didShow 展示成功
/// @param didClick 点击
/// @param didClose 关闭
void splash_CallBack(ResultHandler failLoad, ResultHandler
didShow, ResultHandler didClick, ResultHandler didClose);
/// 用于插屏回调
```

```
/// @param failLoad load 失败
/// @param didShow 展示成功
/// @param failToShow 展示失败
/// @param didClose 关闭
/// @param didClick 点击
/// @param failToPlayVideo 播放 video 失败
/// @param startPlayingVideo 开始播放 video
/// @param endPlayingVideo 播放 video 完成
void Intersitial_CallBack(ResultHandler
failLoad, ResultHandler didShow, ResultHandler failToShow,
ResultHandler didClose, ResultHandler
didClick, ResultHandler failToPlayVideo, ResultHandler
startPlayingVideo, ResultHandler endPlayingVideo);
/// 用于 banner 回调
/// @param failLoad load 失败
/// @param didShow 展示成功
/// @param didClick 点击
/// @param didAutoRefresh 自动刷新
/// @param tapCloseBtn 点击功能关闭按钮
/// @param failToAutoRefresh 自动刷新失败
void banner CallBack(ResultHandler failLoad, ResultHandler
didShow, ResultHandler didClick, ResultHandler
didAutoRefresh, ResultHandler tapCloseBtn, ResultHandler
failToAutoRefresh);
/// 用于激励视频回调
/// @param failLoad load 失败
/// @param didRewardSuccess 奖励成功
```

```
/// @param didClose 关闭
/// @param didClick 点击
/// @param failToPlayVideo 播放失败
/// @param startPlayingVideo 开始播放
/// @param endPlayingVideo 播放完成
void rewardVideo_CallBack(ResultHandler
failLoad, ResultHandler didRewardSuccess, ResultHandler
didClose,ResultHandler didClick,ResultHandler
failToPlayVideo, ResultHandler startPlayingVideo,
ResultHandler endPlayingVideo);
/// 用于原生广告回调(暂时未开放 native 广告功能)
/// @param failLoad load 失败
/// @param didShow 展示成功
/// @param didClick 点击广告
/// @param startPlayingVideo 开始播放
/// @param endPlayingVideo 播放完成
/// @param tapCloseBtn 点击关闭功能按钮
/// @param enterFullScreenV 进入全屏 video (用于模版)
/// @param exitFullScreenV exit 全屏 video (用于模版)
void native CallBack(ResultHandler failLoad, ResultHandler
didShow, ResultHandler didClick, ResultHandler
startPlayingVideo, ResultHandler
endPlayingVideo,ResultHandler tapCloseBtn,ResultHandler
enterFullScreenV,ResultHandler exitFullScreenV);
```

# 四、广告接口 API 和回调使用

4.1 初始化 和 splash 广告 api 说明:

头文件:

#import<JCSDK/JCSDK.h>

#### 4.1.1、OC 接口, 在进入程序代理中, window 加载之后被调用

```
- (BOOL)application:(UIApplication *)application

didFinishLaunchingWithOptions:(NSDictionary *)launchOptions {
   [[ADViewShowApi getInstance]initJCSDKWithLog:YES];
   return YES;
}
```

#### 4.1.2、如果你的应用是游戏应用,请在 UnityAppController.mm 中实现

为了在 unity 前展示 splash 广告,需要找到下面代码并替换,可以 unity 硬替换,也可转 xcode 工程后手动操作

```
_startonittyscheduled - true;
            //[self performSelector: @selector(startUnity:) withObject: application
331
                afterDelay: 0];
            [self performSelector: @selector(initSDKWithApplication:) withObject:
                application afterDelay: 0];
333
334
        _didResignActive = false;
335
336 }
337
   -(void)initSDKWithApplication:(UIApplication*)application{
        [[JC_unityAdApi getInstance]initJCSDKWithLog:YES isFirstShowSplash:NO
            splashClose: ^(BOOL isOk) {
340
            [self performSelector: @selector(startUnity:) withObject: application
                afterDelay: 0];
                                      这里是展示完开屏,再去调用 startUnity
        }];
341
342 }
343
```

### 4.2 banner 广告 api 说明:

showbanner 内部原理 load - isReady - show ,删除 banner 内部会自动 load banner 广告 ,最好不要删除后直接 show ,load 有缓冲期

```
[DllImport("__Internal")]
static extern void showBannerView();

[DllImport("__Internal")]
static extern void removeBannerView();
```

```
public static void ShowBanner()
    {
        showBannerView();
    }

public static void removeBanner()
    {
        removeBannerView();
    }
```

### 4.3 插屏广告 api 说明:

建议 先判断 value 确定内部是否有广告位, 再 show 广告

```
[DIIImport("__Internal")]
static extern bool isReadyIntersitial();

[DIIImport("__Internal")]
static extern void showIntersitial();

public static bool IsInterReady()
{
    var value = isReadyIntersitial();
    Debug.Log("-----> IsInterReady:" + value);
    return value;
}
```

```
public static void ShowInter()
{
    showIntersitial();
}
```

# 4.4 激励视频广告 api 说明:

建议先判断 value 确定内部是否有广告位, 再 show 广告

```
[DllImport("__Internal")]
static extern bool isReadyRewardVideo();

[DllImport("__Internal")]
static extern void showRewardVideo();
public static bool IsRewardVReady()
{
    var value = isReadyRewardVideo();
    Debug.Log("----> isReadyRewardV:" + value);
    return value;
}
public static void ShowRewardV()
{
    showRewardVideo();
}
```

#### 4.5 回调示例

#### 注: 回调前先调用注册监听方法, 建立连接

插屏回调示例:

[DllImport("\_\_Internal")]

static extern void Intersitial\_CallBack(IntPtr failLoad, IntPtr didShow, IntPtr failToShow, IntPtr didClose, IntPtr didClick, IntPtr failToPlayVideo, IntPtr startPlayingVideo, IntPtr endPlayingVideo);

#### //注册插屏回调

var handler11 = new ResultHandler(interFailLoad); var fp11 = Marshal.GetFunctionPointerForDelegate(handler11); var handler12 = new ResultHandler(interDidShow); var fp12 = Marshal.GetFunctionPointerForDelegate(handler12); var handler13 = new ResultHandler(interFailtoShow); var fp13 = Marshal.GetFunctionPointerForDelegate(handler13); var handler14 = new ResultHandler(interDidClose); var fp14 = Marshal.GetFunctionPointerForDelegate(handler14); var handler15 = new ResultHandler(interDidClick); var fp15 = Marshal.GetFunctionPointerForDelegate(handler15); var handler16 = new ResultHandler(interFailToPlayVideo); var fp16 = Marshal.GetFunctionPointerForDelegate(handler16); var handler17 = new ResultHandler(interStartPlayingVideo); var fp17 = Marshal.GetFunctionPointerForDelegate(handler17); var handler18 = new ResultHandler(interEndPlayingVideo); var fp18 = Marshal.GetFunctionPointerForDelegate(handler18); Intersitial\_CallBack(fp11, fp12, fp13, fp14, fp15, fp16, fp17, fp18);

```
//插屏回调
[MonoPlnvokeCallback(typeof(ResultHandler))]
static void interEndPlayingVideo(string resultString)
{
    Debug.Log("插屏回调----->interEndPlayingVideo");
[MonoPlnvokeCallback(typeof(ResultHandler))]
static void interStartPlayingVideo(string resultString)
{
    Debug.Log("插屏回调----->interStartPlayingVideo");
}
[MonoPlnvokeCallback(typeof(ResultHandler))]
static void interFailToPlayVideo(string resultString)
{
    Debug.Log("插屏回调---->interFailToPlayVideo");
}
[MonoPlnvokeCallback(typeof(ResultHandler))]
static void interDidClick(string resultString)
{
    Debug.Log("插屏回调---->interDidClick");
}
[MonoPlnvokeCallback(typeof(ResultHandler))]
static void interDidClose(string resultString)
{
    Debug.Log("插屏回调---->interDidClose");
}
[MonoPlnvokeCallback(typeof(ResultHandler))]
```

```
static void interFailtoShow(string resultString)
{
    Debug.Log("插屏回调----->interFailtoShow");
}

[MonoPInvokeCallback(typeof(ResultHandler))]
static void interDidShow(string resultString)
{
    Debug.Log("插屏回调----->interDidShow");
}

[MonoPInvokeCallback(typeof(ResultHandler))]
static void interFailLoad(string resultString)
{
    Debug.Log("插屏回调----->interFailLoad");
}
```

### 五 、相关报错

### 4.1 启动时崩溃

应用程序在启动时崩溃时因为您缺少了某些配置, 我们这里给出几个例子

在 Build Settings 中的 Other Linker Flags 缺失-ObjC flag 配置项

解决方案 : 添加-ObjC

引入 Admob 的 SDK 后,程序启动崩溃

#### 解决方案:在 info.plist 中添加 Google 所需 key

<key>GADApplicationIdentifier</key>

<string>ca-app-pub-9488501426181082/7319780494</string>

<key>GADIsAdManagerApp</key> <true/>

#### 引入快手 SDK 编译崩溃

解决方案:将 KSAdSDK.framework的 Embed 修改为 Embed&Sign

展示广点通激励视频或者插屏广告时崩溃 -[AppDelegate window]

解决方案:在 AppDelegate.h 中添加 window 属性

### 4.2 App 打包失败/打包提交失败

快手 SDK 中包含 x86 二进制,苹果商店不支持模拟器资源解决方案:

在 Build Phase -> New Run Scrip Phase

添加 new Run Script Phase 之后,会出现 Run Script,然后在里面添加一段脚本代码,如下

APP\_PATH="\${TARGET\_BUILD\_DIR}/\${WRAPPER\_NAME}"

```
# This script loops through the frameworks embedded in the
application and
# removes unused architectures.
find "$APP_PATH" -name '*.framework' -type d | while read
-r FRAMEWORK
do
   FRAMEWORK_EXECUTABLE_NAME=$(defaults read
"$FRAMEWORK/Info.plist" CFBundleExecutable)
FRAMEWORK EXECUTABLE PATH="$FRAMEWORK/$FR
AMEWORK_EXECUTABLE_NAME"
   echo "Executable is
$FRAMEWORK_EXECUTABLE_PATH"
   EXTRACTED_ARCHS=()
   for ARCH in $ARCHS
```

```
do
       echo "Extracting $ARCH from
$FRAMEWORK EXECUTABLE NAME"
       lipo -extract "$ARCH"
"$FRAMEWORK EXECUTABLE PATH" -o
"$FRAMEWORK EXECUTABLE PATH-$ARCH"
EXTRACTED ARCHS+=("$FRAMEWORK EXECUTABLE P
ATH-$ARCH")
   done
   echo "Merging extracted architectures: ${ARCHS}"
   lipo -o "$FRAMEWORK_EXECUTABLE_PATH-merged"
-create "${EXTRACTED_ARCHS[@]}"
   rm "${EXTRACTED_ARCHS[@]}"
   echo "Replacing original executable with thinned
version"
```

rm "\$FRAMEWORK\_EXECUTABLE\_PATH"

mv "\$FRAMEWORK\_EXECUTABLE\_PATH-merged" "\$FRAMEWORK\_EXECUTABLE\_PATH"

done

添加完脚本代码块后,勾选上 Run script only when installing,重新打包提交即可。

# 六、iOS14 支持说明

详情请见 JCSDK iOS14 说明文档