

# PEGASI SDK Integration Description Document

## (world\_base version 3.4)

### Directory

<b>1.Simple Introduction.....</b>	<b>2</b>
<b>2.Runtime Environment .....</b>	<b>2</b>
<b>3.Integration PEGASI SDK .....</b>	<b>2</b>
<b>4.Configuration AndroidManifest.xml .....</b>	<b>3</b>
4.1.Add Permission.....	3
<b>5.Initialize SDK.....</b>	<b>3</b>
<b>6.Integration Native Ad Code .....</b>	<b>4</b>
6.1、 Load And Show Ad .....	4
6.2、 The Main APIs for Native Ad.....	5
<b>7.Integration Banner Ad Code .....</b>	<b>6</b>
7.1、 Load And Show Banner Ad .....	6
7.2、 The Main APIs for Native Banner .....	7
<b>8.Integration interstitial Ad Code.....</b>	<b>8</b>
8.1、 Load And Show Interstitial Ad .....	8
8.2、 The Main APIs for Native Interstitail .....	9
<b>9.Proguard Script.....</b>	<b>9</b>
<b>10.Error Code.....</b>	<b>9</b>

## 1. Simple Introduction

Overseas version 3.4 , Only include Native、Native Banner and Native Interstitial Ads formats.

## 2. Runtime Environment

The minimum support version is android 2.3

## 3. Integration PEGASI SDK

Please copy [cmadsdk\\_world\\_base\\_V3.4.1.aar](#) file to libs of project,add code to Gradle script。

```
repositories {  
    flatDir {  
        dirs 'libs'  
    }  
}  
dependencies {  
    compile(name: 'cmadsdk_world_base_V3.4.1', ext: 'aar')  
}
```

## 4. Configuration AndroidManifest.xml

### 4.1.Add Permission

```
<uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE" />
<uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE" />
<uses-permission android:name="android.permission.ACCESS_NETWORK_STATE" />
<uses-permission android:name="android.permission.INTERNET" />
<uses-permission android:name="android.permission.ACCESS_WIFI_STATE" />
```

## 5. Initialize SDK

It is strongly recommended that initialization in the onCreate method of Application. For example:

```
@Override
public void onCreate() {
    super.onCreate();
    //The first parameter : Context
    //The second parameter: Mid(the identifier of the app, the first four numbers of posid)
    //The third parameter : product channel id (can be null)
    CMAdManager.applicationInit(this, "Your AppId", "You channel ID");
}
```

## 6. Integration Native Ad Code

### 6.1、Load And Show Ad

primary code load Ad for example(see demo of NativeAdSampleActivity):

```
// The first parameter : Context
// The second parameter : Posid
NativeAdManagerMini nativeAdManagerMini = new NativeAdManagerMini(this, "Your posid");
//set callback interface
nativeAdManagerMini.setNativeAdListener(new INativeAdLoaderListener() {
    @Override
    public void adLoaded() {
        //get ad
        INativeAd ad = nativeAdManagerMini.getAd();
        if (ad == null) {
            return;
        }

        //Initialize the ad layout,the layout should be customized by yourself
        View mAdView = View.inflate(MainActivity.this,"Your Ad layout", null);

        //Bind the ad with the mAdView
        //notice: this step is necessary, if don't , click of the ad will not effective.
        //unregisterView should be used when the ad no need to show.
        ad.registerViewForInteraction(mAdView);

        if (mAdView != null) {
            // remove old mAdView
            nativeAdContainer.removeView(mAdView);
        }

        //add the mAdView into the layout of view container.
        //(the container should be prepared by yourself)
        nativeAdContainer.addView(mAdView);
    }

    @Override
    public void adFailedToLoad(int i) {
        // load failed
    }
}
```

```

@Override
public void adClicked(INativeAd ad) {
    //ad clicked
}
});
//start load Ad
nativeAdManagerMini.loadAd();

```

if you want to display Ad:

```
nativeAdManagerMini.showAd();
```

## 6.2、The Main APIs for Native Ad

[com.cmcm.adsdk.nativead.NativeAdManagerEx](#)

Methodology	Method Introduction
NativeAdManagerMini(Context context, String posid)	NativaAdManagerMini construct function
setNativeAdListener(INativeAdLoaderListener listener)	set callback interface
loadAd( )	concurrent load ads
preloadAd( )	sequence load ads
getAd( )	get ads

[com.cmcm.baseapi.ads.INativeAd](#)

Methodology	Method Introduction
getAdtitle()	ad title
getAdBody()	ad description
getAdIconUrl()	ad icon url
getAdCoverImageUrl()	ad background picture Url
getAdCallToAction()	ad button text
getAdStarRating()	ad star score (can be null)
getAdSocialContext()	ad download amount or website (can be null)
hasExpired()	check ad expired (true mean expired)
isDownLoadApp()	check download type app (true: yes false: no null: no information)
setImpressionListener(ImpressionListener listener)	set callback after SDK ad impression report
registerViewForInteraction(View view)	bundle ad view with ad itself(requested)
unregisterView()	unbundling ad view with ad itself(requested)

com.cmcm.baseapi.ads.INativeAdLoaderListener

Methodology	Method Introduction
onAdLoaded()	ad request success
adFailedToLoad(int error)	ad request failure
adClicked(INativeAd ad)	ad click

## 7. Integration Banner Ad Code

### 7.1、Load And Show Banner Ad

primary code for example(see demo of BannerSampleActivity):

```
//Parameter : Context
CMNativeBannerView bannerView = new CMNativeBannerView(this);
//Set banner Size (requested)
bannerView.setAdSize(CMBannerAdSize);
//Set posid (requested)
bannerView.setPosid(mAdPosid);
//set callback listener
bannerView.setAdListener(new CMBannerAdListener() {
    @Override
    public void onAdLoaded(CMAdView ad) {
        //after load success and need to display ad must invoke this method
        cmNativeBannerView.prepare();
        mLinearLayout.removeAllViews();
        //load success ,get bannerView and add to your View container.
        mLinearLayout.addView(ad);
    }
    @Override
    public void adFailedToLoad(CMAdView ad, int errorCode) {
        //load failed
    }
    @Override
    public void onAdClicked(CMAdView ad) {
        //Ad Clicked
    }
});
//start load ad
bannerView.loadAd();
```

when Activity destroy, suggest destroy bannerView

```
@Override
protected void onDestroy() {
    super.onDestroy();
    if(cmNativeBannerView != null){
        cmNativeBannerView.onDestroy();
    }
}
```

## 7.2、The Main APIs for Native Banner

[com.cmcm.adsdk.banner.CMNativeBannerView](#)

Methodology	Method Introduction
setPosid(String posid)	Set ad position id
setAdSize(CMBannerSize size)	Set banner size
setAdListener(CMBannerAdListener listener)	Set banner callback interface
loadAd()	downloading ad
prepare()	after the success of the load needs to display ads invoke this method

[com.cmcm.adsdk.banner.CMBannerAdSize](#)

Parameter Name	Parameters Description
CMBannerAdSize.BANNER_320_50	320 * 50 size
CMBannerAdSize.BANNER_300_250	320 * 250 size

[com.cmcm.adsdk.banner.CMBannerAdListener](#)

Methodology	Method Introduction
onAdLoaded(CMAdView view)	ad request success
adFailedToLoad(CMAdView view, int error)	ad request failure
onAdClicked(CMAdView view)	ad click

## 8. Integration interstitial Ad Code

### 8.1、 Load And Show Interstitial Ad

primary code for example(see demo of InterstitialAdSampleActivity):

```
//init InterstitialAdManager
//parameter : Context , posid
InterstitialAdManager interstitialAdManager = new InterstitialAdManager(Context, posid)

//set this callback interface if you need callback。
interstitialAdManager.setInterstitialCallBack(new InterstitialAdCallBack() {

    @Override
    public void onAdLoadFailed(int errorCode) {
        //request failed
    }

    @Override
    public void onAdLoaded() {
        / / request success
    }

    @Override
    public void onAdClicked() {
        //ad clicked
    }

    @Override
    public void onAdDisplayed() {
        //ad display
    }

    @Override
    public void onAdDismissed() {
        //click close button that ad destory
    }

});
```

start load InterstitialAd:

```
interstitialAdManager.loadAd();
```

display InterstitialAd:

```
interstitialAdManager.showAd();
```



## 8.2、The Main APIs for Native Interstitial

`com.cmcm.adsdk.interstitial.InterstitialAdManager`

Methodology	Method Description
<code>loadAd()</code>	ad downloading
<code>showAd()</code>	ad display
<code>setInterstitialCallBack(InterstitialAdCallBack listener)</code>	set callback interface
<code>setInterstitialOverClickEnable(boolean enable)</code>	set whether the shaded are response or not when clicked (no response in default)

`com.cmcm.adsdk.interstitial.InterstitialAdCallBack`

Methodology	Method Description
<code>onAdLoaded( )</code>	ad request implement
<code>onAdLoadFailed( )</code>	ad request failure
ad click	<code>onAdClicked( )</code>
<code>onAdDisplayed( )</code>	ad display
<code>onAdDismissed(int errorcode)</code>	click 'close' button to close ad unit

**Note:** There is no picture loading function of the SDK, need to add the picture loading function from outside. Please set the load function before sending request of interstitial Ads. Please add the following code at the init:

```
CMAdManagerFactory.setImageDownloadListener(new MyImageLoadListener());
```

## 9. Proguard Script

Add the nativeAd proguard script in your proguard script:

```
-keep class com.cmcm.adsdk.** { *;}
```

## 10. Error Code

ErrorCode	Instruction
10001	lack the settings of the ad position, (perhaps lacks sdk initialization, or the cloud end closes the ad position)
10002	lacks ad data
10003	internal error
10004	request timeout
10005	There is no this type of advertising

