# 中电广告 SDK 使用文档 Android 版

## 一、SDK 接入方式

### 1.1、添加 SDK 到工程中

请在工程文件根目录下创建一个名为 libs 的子目录,并将 ZDADSDK 的 AAR 包拷贝到 libs 目录下,并在工程 build. gradle 中添加如下配置:

```
1. repositories {
2.    flatDir {
3.         dirs 'libs'
4.     }
5. }
```

```
6. dependencies {
7.    implementation files('libs/CMGAd-release.aar')
8. }
```

注: "CMGAd - release. arr"仅为举例,接入时请按接入的 aar 文件名进行填写

### 1.2、权限申请

ZDADSDK 建议在工程的 AndroidManifest. xml 添加以下权限声明,若目标版本 targetSDKVersion >= 23 则需要在运行时进行动态权限申请

```
1.
         <uses-permission android:name="android.permission.INTERNET" />
         <uses-permission android:name="android.permission.ACCESS NETWORK STATE" />
3.
         <uses-permission android:name="android.permission.CHANGE NETWORK STATE" />
         <uses-permission android:name="android.permission.ACCESS WIFI STATE" />
4.
5.
         <uses-permission android:name="android.permission.CHANGE WIFI STATE" />
         <uses-permission android:name="android.permission.READ_PHONE_STATE" />
6.
         <uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE" />
7.
         <uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE" />
8.
9.
         <uses-permission android:name="android.permission.GET_TASKS" />
```

#### 1.3、初始化 SDk

请在工程的 Application 类中调用如下方法初始化 SDK。

```
@Override
public void onCreate() {
    super.onCreate();
    /**
    * 初始化广告 sdk,需要在主线程中初始化。因为初始化有网络请求,确保用户同意《用户协议》后再初始化 SDK, 避免上线审核问题
```

```
* @param context
* @param imageHelperI
* @param appKey 分配的appKey
* @param secretKey
*/
CMGADManager.getInstance().initWith(this, new ImageHelper(), appKey, secretKey);
CMGADManager.getInstance().setDebug(true);//设置测试环境
}
public class ImageHelper implements ImageHelperI {

@Override
public void initImage(Context context, ImageView imageView, String url, int i, int i1, ImageLoadCallback imageLoadCallback) {

//调用 app 内图片加载方法,此事例代码是用 GLide 加载图片
Glide.with(context).load(url).into(imageView);
}
}
```

### 二、调用方法

### 2.1、开屏广告

介绍: 开屏广告以 App 启动作为曝光时机,提供 5s 的可感知广告展示。用户可以点击广告跳转 到目标页面:或者点击右上角的"跳过"按钮,跳转到 app 内容首页。

XML 代码示例:

Java 代码示例:

```
<FrameLayout</pre>
    android:id="@+id/splash_contener"
    android:layout_width="match_parent"
    android:layout_height="match_parent" />
<!--点击跳转倒计时按钮,必须是textview,样式可以自定义-->
<TextView
    android:id="@+id/tv_skip"
    android:layout width="wrap content"
    android:layout_height="28dp"
    android:layout_alignParentRight="true"
    android:layout_marginTop="16dp"
    android:layout_marginRight="16dp"
android:alpha="0.7"
    android:background="@drawable/bg_splash_count_down"
    android:gravity="center"
    android:paddingLeft="15dp"
    android:paddingRight="15dp"
    android:textColor="#f2f2f2"
    android:textSize="12sp"
    android:visibility="gone" />
//初始化 SpLashAD
splashAD = new SplashAD(posId, this, splash_contener, null);
//设置广告标签的位置边距
splashAD.setLogoPosition(new LogoPostion(LogoPostion.Gravity.RIGHT_BOTTOM, 18, 18, 18, 18));
//设置默认图,非特殊需求不用
splashAD.setLoadingImage(R.drawable.ad_default);
//加载广
start = System.currentTimeMillis();
splashAD.fetchAdOnly();
splashAD.setListener(new SplashAdListener() {
    public void onADDismissed() {
        //广告关闭调用
        tv_skip.setVisibility(View.GONE);
        next();
    @Override
    public void onADLoaded() {
```

```
//showAdState 广告显示状态,如果广告没有显示,并且没有超时,显示广告
       if (showAdState == 0) {
           showAdState = 1;
           start = System.currentTimeMillis();
           splashAD.showAd(splash_contener);
       }
   }
   @Override
   public void onADClicked(CallbackBean callbackBean) {
       Toast.makeText(SplashAdActivity2.this, "onADClicked", Toast.LENGTH_SHORT).show();
       if (!TextUtils.isEmpty(callbackBean.getLinkUrl())) {
           Toast.LENGTH_SHORT).show();
           //todo jump to webview
       }
   }
   @Override
   public void onNoAD(AdError adError) {
       showAdState = 1;
       next();
   }
   @Override
   public void onADTick(long millisUntilFinished) {
       if (tv_skip != null) {
           tv_skip.setText(String.format(SKIP_TEXT, Math.round(millisUntilFinished / 1000f)));
       }
   }
   @Override
   public void onSkipClicked() {
   @Override
   public void onADButtonClicked() {
});
//设置开屏显示时间为3秒
tv_skip.postDelayed(() -> {
    //如果超过3秒广告加载失败,则不再显示广告
   if (showAdState == 0) {
       showAdState = 2;
       startActivity(new Intent(SplashAdActivity2.this, MainActivity.class));
       finish();
}, 3000);
//如果用户点击了广告,在onPause 设置为false,则不跳app 主页,等从落地页回来再跳app 主页
private void next() {
   if (canJump) {
       this.startActivity(new Intent(this, MainActivity.class));
       this.finish();
   } else {
       canJump = true;
}
在 Activity 的 on Resume, on Pause, on Destroy 中调用广告控件相对应的方法
@Override
protected void onPause() {
   super.onPause();
   splashAD.onPause();
   canJump = false;
}
@Override
protected void onResume() {
   super.onResume();
   splashAD.onResume();
   if (canJump) {
       next();
   }
```

```
canJump = true;
//重写onKeyDown 方法监听按键事件,并调用 SplashAd 的onKeyDown 方法
@Override
public boolean onKeyDown(int keyCode, KeyEvent event) {
   splashAD.onKeyDown(keyCode, event);//案件事件传入开屏控件
   return super.onKeyDown(keyCode, event);
```

### 2.2、横幅广告

介绍: Banner 广告(横幅广告)位于 app 顶部、中部、底部任意一处,横向贯穿整个 app 页面; 当 用户与 app 互动时, Banner 广告会停留在屏幕上, 并可在一段时间后自动刷新

XML 代码示例:

```
<com.cmg.ads.ad.AdView</pre>
   android:id="@+id/adView"
   android:layout_width="match_parent"
   android:layout_height="100dp"
   android:filterTouchesWhenObscured="false"
   android:layout_alignParentBottom="true"/>
    Java 代码示例:
private void initView() {
   adView = findViewById(R.id.adView);
   adView.setLoadingImage(R.drawable.ad_default);//设置默认图
   start = System.currentTimeMillis();
   adView.fetchAndShowIn(posId);
    //设置标签位:
   adView.setLogoPosition(new LogoPostion(LogoPostion.Gravity.RIGHT_BOTTOM, 10, 10, 10, 10));
   adView.setLoadingImage(R.drawable.ad_default);
   adView.setListener(new AdViewListener() {
       @Override
       public void onADLoaded() {
           Toast.makeText(BannerActivity2.this, "onADLoaded", Toast.LENGTH_SHORT).show();
       }
       public void onNoAD(AdError error) {
           Toast.makeText(BannerActivity2.this, "onNoAD", Toast.LENGTH_SHORT).show();
       }
       @Override
       public void onADClicked(CallbackBean callbackBean) {
           Toast.makeText(BannerActivity2.this, "onADClicked", Toast.LENGTH_SHORT).show();
           if (!TextUtils.isEmpty(callbackBean.getLinkUrl())) {
               Toast.LENGTH_SHORT).show();
               //todo jump to webview
           }
       }
   });
在 Activity 的 on Resume, on Pause, on Destroy 中调用广告控件相对应的方法
@Override
protected void onResume() {
   super.onResume();
   if (adView != null) {
       adView.onResume();
   }
}
```

```
@Override
protected void onPause() {
   super.onPause();
   if (adView != null) {
       adView.onPause();
}
@Override
protected void onDestroy() {
   if (adView != null) {
       `adView.onDestroy();
   super.onDestroy();
2.3、焦点图
  介绍: 首页轮播图
    Java 代码示例: Banner 数据类
public class DataBean {
   public int viewType;//1 普通数据, 2: 广告
   public String posId;//广告位id
   public BannerAdData adData;
   public DataBean(String posId, int viewType) {
       this.posId = posId;
       this.viewType = viewType;//1 普通数据, 2: 广告
   public interface BannerAdLoadListener {
       void onLoaded();
       void onNoAd();
   }
   public boolean isLoading = false;
   //通过广告位 id 设置
   public void loadAdData(FrameLayout container,BannerAdLoadListener adListener) {
       if (!isLoading) {
           BannerAd bannerAd = new BannerAd(container);//初始化
          bannerAd.setListener(new BannerADListener() {
               @Override
               public void onADLoaded(BannerAdData ad) {
                   adData = ad;
                 //去掉静音设置方法,和静音按钮显示隐藏方法
                   adData.setMute(false);//设置非经营
                  adData.setMuteVisibility(View.VISIBLE);//设置显示静音图标
                 //App 可设置"广告"标识位置
                  adData.setLogoPosition(new LogoPostion(LogoPostion.Gravity.LEFT_TOP,10,10,10,10));
                   adListener.onLoaded();
                   isLoading = false;
               }
               @Override
               public void onNoAD(AdError var1) {
                   adListener.onNoAd();
                   isLoading = false;
               }
              @Override
              public void onADClicked(CallbackBean callbackBean) {
                  if (!TextUtils.isEmpty(callbackBean.getLinkUrl())) {
                  //todo jump to webview from linkUrl
                  }
              }
           });//设置广告监听 ListADListener
           bannerAd.loadAd(posId);//加载广告
```

```
}
 }
    Banner 广告初始化数据并设置 Adapter:
bannerList.addAll(DataBean.getTestDataVideo2());
if(posIds!=null){
    for(int i = 0;i<posIds.length;i++){</pre>
        bannerList.add(0+i,new DataBean(posIds[i], 2)); //添加广告位 id 数据
multipleTypesAdapter = new MultipleTypesAdapter2(this, bannerList);
viewPager.setAdapter(multipleTypesAdapter);
     Adatper 加载广告
public void onBindViewHolder(@NonNull RecyclerView.ViewHolder holder, @SuppressLint("RecyclerView") int position)
    int viewType = holder.getItemViewType();
    if (viewType == 1) {
        ImageHolder imageHolder = (ImageHolder) holder;
        imageHolder.imageView.setImageResource(mDatas.get(position).imageRes);
        ImageTitleHolder videoHolder = (ImageTitleHolder) holder;
        videoHolder.adContainer.removeAllViews();
        DataBean data = mDatas.get(position);
        if (data.adData == null) {
            data.loadAdData(videoHolder.adContainer, new DataBean.BannerAdLoadListener() {
                @Override
                public void onLoaded() {
                    if (context.isFinishing()) {
                        return;
                    videoHolder.adContainer.addView(data.adData.getAdView(context));
                    if (position == currentPosition) {
                        data.adData.onResume();
                    }
                }
                @Override
                public void onNoAd() {
                   if (context.isFinishing()) {
                        return;
                    }
                }
            });
        } else {
            View view = data.adData.getAdView(context);
            videoHolder.adContainer.addView(view);
        }
    }
在 onResume 和 onDestory 方法中暂停广告、销毁广告
@Override
protected void onPause() {
    super.onPause();
    pauseAds();
}
@Override
protected void onResume() {
    super.onResume();
    resume();
}
@Override
protected void onDestroy() {
    super.onDestroy();
    releaseAds();
```

```
for (int i = 0; i < bannerList.size(); i++) {</pre>
      DataBean bean = bannerList.get(i);
      if (bean.viewType == 2 && bean.adData != null) {
          bean.adData.onPause();
   }
}
protected void resume() {
   DataBean bean = bannerList.get(currentPostion);
   if (bean.adData != null && bean.viewType == 2) {
      `bean.adData.onResume();
}
private void releaseAds() {
   for (int i = 0; i < bannerList.size(); i++) {</pre>
      DataBean bean = bannerList.get(i);
      if (bean.viewType == 2 && bean.adData != null) {
          bean.adData.onDestroy();
   }
}
//重写 onKeyDown 方法监听按键事件,并调用 BannerAdData 的 onKeyDown 方法
@Override
public boolean onKeyDown(int keyCode, KeyEvent event) {
   DataBean bean = bannerList.get(currentPostion);
   if(bean.adData!=null&&bean.viewType==2){
      bean.adData.onKeyDown(keyCode,event);
   return super.onKeyDown(keyCode, event);
2.4、信息流
 介绍:列表中间插入的广告
   广告 Item xml 代码:
<com.cmg.ads.list.ListItemAd</pre>
    android:id="@+id/itemAd"
    android:layout width="match parent"
    android:layout height="match parent"
    app:adImageRadius="6dp"
    android:layout_marginStart="10dp"
    android:layout marginEnd="10dp"
    app:adImgHeight="95dp"
    app:adTextColor="#ff000000"
    app:adTextImgSpacing="10dp"
    app:adTextSize="12dp"
    app:adType="topImage" />
属性说明(ListItemAd 支持对应的 set 方法):
app:adImageRadius //支持上图下文/左文右图中的图片圆角配置
app:adImgHeight //支持上图下文图片设置高度
app:adImgWidth //支持左文右图图片设置宽度
app:adTextColor //支持图文设置文字颜色
app:adTextImgSpacing //支持图文设置文字和图片之间间隔
app:adTextSize //支持图文中文字的大小设置
app:adType //信息流形式 image: 图片 topImage: 上图下文 rightImage: 左文右图
```

Adapter 中处理广告数据并显示广告:

private void pauseAds() {

```
@Override
public RecyclerView.ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
    if (viewType== R.layout.item) {
        return new MyViewHolder(LayoutInflater.from(parent.getContext()).inflate(R.layout.item info, parent,
false));
    }else{
        return new MyBannerViewHolder(LayoutInflater.from(parent.getContext()).inflate(R.layout.ad_info, parent,
false));
    }
@Override
public void onBindViewHolder(@NonNull RecyclerView.ViewHolder holder, int position) {
    if (holder instanceof MyViewHolder) {
        TextView mTvDes = ((MyViewHolder) holder).mTvDes;
ImageView mIvAd = ((MyViewHolder) holder).mIvAd;
        View view = ((MyViewHolder) holder).view;
        mTvDes.setText(DataBean.getTextListData().get(position % 9).title);
        GlideUtil.NormalGlide(context, DataBean.getTextListData().get(position % 9).imageUrl, mIvAd);
        view.setOnClickListener(v -> notifyDataSetChanged());
    } else if (holder instanceof MyBannerViewHolder) {
         //使用BaseAdView 加载信息流广告
        String posID = (String) mData.get(position);
        //使用ListItemAd 加载信息流广告
        ((MyBannerViewHolder) holder).itemAd.setLoadingImage(R.drawable.ad_default);// 设置默认图
        ((MyBannerViewHolder) holder).itemAd.setLogoPosition(new LogoPostion(LogoPostion.Gravity.RIGHT_BOTTOM,
18, 18, 18, 18));
        start = System.currentTimeMillis();
((MyBannerViewHolder) holder).itemAd.fetchAndShowIn(posID);
((MyBannerViewHolder) holder).itemAd.setListener(new ListItemListener() {
            @Override
            public void onADLoaded() {
                 Toast.makeText(context, "onADLoaded", Toast.LENGTH_LONG).show();
            @Override
            public void onNoAD(AdError error) {
                Toast.makeText(context, "onNoAD", Toast.LENGTH_LONG).show();
            public void onADClicked(CallbackBean callbackBean) {
                if (!TextUtils.isEmpty(callbackBean.getLinkUrl())) {
                     Toast.makeText(context,
                              "onADClicked:linkUrl = " + callbackBean.getLinkUrl(),
                             Toast.LENGTH_SHORT).show();
                     //todo jump to webview
            }
        });
    }
}
2.5、浮标广告
  介绍: 屏幕任意位置的角标广告
    XML 代码示例:
<com.cmg.ads.icon.DragSuctionContainer</pre>
    android:id="@+id/drag_suction_ad"
android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:filterTouchesWhenObscured="false"
    android:visibility="gone"/>
    Java 代码示例:
DragSuctionContainer dragSuctionAd = findViewById(R.id.drag_suction_ad);
dragSuctionAd.setLoadingImage(R.drawable.ad default);
dragSuctionAd.hideClose();//隐藏关闭按钮
dragSuctionAd.loadAd(posId);
// 设置 icon 广告是否可滑动,默认可滑动
dragSuctionAd.setCanMoveAble(false);
```

```
dragSuctionAd.setListener(new AdViewListener() {
    public void onADLoaded() {
        Toast.makeText(IconActivity2.this, "onADLoaded", Toast.LENGTH_SHORT).show();
    }
    @Override
    public void onNoAD(AdError error) {
        Toast.makeText(IconActivity2.this, "onNoAD", Toast.LENGTH_SHORT).show();
    }
    @Override
    public void onADClicked(CallbackBean callbackBean) {
        Toast.makeText(IconActivity2.this, "onADClicked", Toast.LENGTH_SHORT).show();
        if (!TextUtils.isEmpty(callbackBean.getLinkUrl())) {
            Toast.makeText(IconActivity2.this, "onADClicked:linkUrl = " + callbackBean.getLinkUrl(),
Toast.LENGTH_SHORT).show();
        }
});
2.6、视频暂停
  介绍: 视频暂停后中心位置弹出的广告
    XML 代码示例:
<FrameLayout</pre>
    android:layout_width="match_parent"
    android:layout_height="300dp"
    android:layout_below="@+id/rl_title">
                播放器控件-->
    <com.dueeeke.videoplayer.player.VideoView</pre>
        android:id="@+id/videoView"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />
- 视频暂停广告控件,需要覆盖在播放器控制之上-->
    <com.cmg.ads.video.VideoCoverAdView</pre>
        android:id="@+id/adView"
        android:layout_width="180dp"
        android:layout_height="100dp"
        android:layout_gravity="center" />
</FrameLayout>
    Java 代码示例:
adView = findViewById(R.id.adView);
adView.setLoadingImage(R.drawable.ad_default);//设置默认图
adView.loadAd(posId);
adView.setListener(new AdVideoStopListener() {
    @Override
    public void onADLoaded() {
    @Override
    public void onADDismissed() {
    @Override
    public void onNoAD(AdError error) {
    public void onADClicked(CallbackBean callbackBean) {
    }
});
videoView.addOnStateChangeListener(new VideoView.OnStateChangeListener() {
    public void onPlayerStateChanged(int playerState) {
    @Override
```

```
public void onPlayStateChanged(int playState) {
       switch (playState) {
           //调用release 方法会回到此状态
           case VideoView.STATE_PLAYING:
               adView.hideAd();
               break;
           case VideoView.STATE_PAUSED:
               if (adView.isLoaded()) {
                  adView.showAd();
               break:
           case VideoView.STATE_PLAYBACK_COMPLETED:
               break;
       }
   }
});
横竖屏切换广告暂停控件需要做处理,如示例代码:
    public void onConfigurationChanged(@NonNull Configuration newConfig) {
        super.onConfigurationChanged(newConfig);
        if (newConfig.orientation == Configuration.ORIENTATION_PORTRAIT) {
           adView.stopFullScreen(this);
        } else if (newConfig.orientation == Configuration.ORIENTATION_LANDSCAPE) {
           adView.startFullScreen(this);
    }
     在 Activity 的 on Resume, on Pause, on Destroy 中调用广告控件相对应的方法
protected void onResume() {
   super.onResume();
   adView.onResume();
protected void onPause() {
   super.onPause();
   adView.onPause();
}
@Override
protected void onDestroy() {
   super.onDestroy();
   adView.onDestroy();
2.7、视频贴片
  介绍:视频播放的前贴片,后贴片广告
    XML 代码示例:
<!--播放器控件,广告控制覆盖在播放器控件之上-->
<com.cmg.ads.video.VideoAd</pre>
   android:id="@+id/videoAd"
   android:layout_width="match_parent"
   android:layout_height="match_parent">
控件不用在自定义跳过按钮
<TextView
   -android:id="@+id/tv_time"
   android:layout_width="wrap_content"
   android:layout_height="28dp"
android:layout_gravity="right"
   android:paddingLeft="12dp"
   android:paddingRight="12dp"
android:textColor="#ffffff"
   android:textSize="12sp"
   android: visibility="gone"
   android:clickable="true"/>
```

</com.cmg.ads.video.VideoAd>

### Java 代码示例:

```
videoAd = findViewById(R.id.videoAd);
       videoAd.setLoadingGif(R.drawable.loading_red);//设置gif loading 图
       videoAd.setLoadingGifSize(50, 25);//设置Loading 图大小
       videoAd.setListener(new VideoAdListener() {
          @Override
           public void onADLoaded(String posId1) {
                 一告加载完成时,判断是否超时,若没有超时则显示广告
              if (adLoadState == 0) {
                  adLoadState = 1;
                  videoAd.showAd();
              }
          }
           @Override
           public void onADDismissed() {
              //关闭广告后移除广告并播放正片
              videoAd.setVisibility(View.GONE);
              videoAd.onStop();
              //播放正
              playVideo();
          }
           //点击vip 跳过广告回调
          @Override
          public void onVipSkipClick() {
              Log.e("---->", " onVipSkipClick-VIP 点击 ");
          @Override
          public void onSkipClick() {
              Log.e("--->", " onSkipClick ");
          @Override
          public void onNoAD(AdError error) {
              Log.e("---->", " onNoAD ");
          @Override
          public void onADClicked(CallbackBean callbackBean) {
              if (!TextUtils.isEmpty(callbackBean.getLinkUrl())) {
                  Toast.LENGTH_SHORT).show();
                  //todo jump to webview
              }
          }
          @Override
           public void muteStatusChange(boolean b) {
              Log.e("---->", " VIP 点击 ");
          }
       });
       //加载广告
       videoAd.fetchAdOnly(posId);
       videoAd.postDelayed(new Runnable() {
          @Override
          public void run() {
              //广告加载超时直接播放正片
              if (adLoadState == 0) {
                  adLoadState = 2;
                  videoAd.setVisibility(View.GONE);
                  //播放正/
                  playVideo();
              }
       }, 50000);
 * 播放正片
private void playVideo() {
   Toast.makeText(this, "播放正片", Toast.LENGTH_SHORT).show();
```

横竖屏切换广告暂停控件需要做处理,如示例代码:

```
@Override
public void onConfigurationChanged(@NonNull Configuration newConfig) {
   super.onConfigurationChanged(newConfig);
   if (newConfig.orientation == Configuration.ORIENTATION_PORTRAIT) {
       showSysBar();
       videoAd.stopFullScreen();
   } else if (newConfig.orientation == Configuration.ORIENTATION LANDSCAPE) {
       hideSysBar();
       videoAd.startFullScreen();
   }
}
在 Activity 的 on Resume, on Pause, on Destroy 中调用广告控件相对应的方法
protected void onPause() {
   super.onPause();
   videoAd.onPause();
}
@Override
protected void onResume() {
   super.onResume();
   videoAd.onResume();
}
@Override
protected void onDestroy() {
   super.onDestroy();
   videoAd.release();
   videoAd.removeCallbacks(null);
}
新增 onAdKeyDown 方法, 监听音量键
@Override
public boolean onKeyDown(int keyCode, KeyEvent event) {
   videoAd.onAdKeyDown(keyCode, event);//案件事件传入开屏控件
   return super.onKeyDown(keyCode, event);
}
2.8、插屏广告
  介绍:插入广告
    Java 代码示例:
//初始化插屏广告
interstitialAD = new InterstitialAD();
interstitialAD.setLoadingImage(R.drawable.ad_default);//设置默认图,非个别特殊需求不用设置
interstitialAD.setListener(new InterstitialADListener() {
   @Override
   public void onADDismissed() -
       Toast.makeText(MainActivity.this, "onADDismissed", Toast.LENGTH_SHORT).show();
   @Override
   public void onADLoaded() {
       //插屏广告加载完成,可以显示广告
       Toast.makeText(MainActivity.this, "onADLoaded", Toast.LENGTH_SHORT).show();
       interstitialAD.showAd(MainActivity.this, Utils.dip2px(MainActivity.this, 280),
Utils.dip2px(MainActivity.this, 280));
   @Override
   public void onNoAD(AdError error) {
       Toast.makeText(MainActivity.this, "onNoAD", Toast.LENGTH_SHORT).show();
   @Override
   public void onADClicked(CallbackBean callback) {
```

### 2.9、超级品专广告

介绍: Banner 广告(横幅广告)位于 app 顶部、中部、底部任意一处,横向贯穿整个 app 页面;当 用户与 app 互动时,Banner 广告会停留在屏幕上,并可在一段时间后自动刷新

XML 代码示例:

```
<com.cmg.ads.ad.SuperAdView</pre>
   android:id="@+id/superAdView"
   android:layout width="match parent"
   android:layout height="250dp"
   android:filterTouchesWhenObscured="false" />
   Java 代码示例:
   private void initView() {
       superAdView = findViewById(R.id.superAdView);
        superAdView.setLoadingImage(R.drawable.ad default);//设置默认图
        superAdView.setBottomImage(R.drawable.image banner); // 设置广告加载失败的兜底图
       superAdView.fetchAndShowIn(posId);
       superAdView.setListener(new AdViewListener() {
           @Override
           public void onADLoaded() {
                 LogUtil.d("wxy:onADLoaded:"+(System.currentTimeMillis()-start));
           }
           @Override
           public void onNoAD(AdError error) {
           @Override
           public void onADClicked(CallbackBean callback) {
                // 如果是自定义的广告 LinkUrl 则返回该地址,如果不是则返回空字符串
               Toast.makeText(SuperAdActivity.this, "linkUrl = " +
callback.getLinkUrl(), Toast.LENGTH_SHORT).show();
               if (!TextUtils.isEmpty(callback.getLinkUrl())) {
                   WebAdActivity.startAdActivity(SuperAdActivity.this, "广告",
callback.getLinkUrl());
               }
           }
       });
    }
```

在 Activity 的 on Resume, on Pause, on Destroy 中调用广告控件相对应的方法

```
@Override
protected void onPause() {
    super.onPause();
    superAdView.onPause();
```

```
@Override
protected void onResume() {
    super.onResume();
    superAdView.onResume();
}

@Override
protected void onDestroy() {
    super.onDestroy();
    superAdView.onDestroy();
}
```