Bugly Android 应用升级 SDK 高级配置

Bugly Android 应用升级 SDK 高级配置接口说明 自定义UI

- 1.固定控件id
- 2.自定义activity

我们提供**Beta类**作为Bugly的初始化扩展,通过Beta类可以修改升级的检测时机,界面元素以及自定义升级行为,可以参考BetaSDKDemo的相关设置。

自动初始化开关

Beta.autoInit = true;

true表示app启动自动初始化升级模块;

false不会自动初始化;

开发者如果担心sdk初始化影响app启动速度,可以设置为false,在后面某个时刻手动调用Beta.init(getApplicationContext(),false);

自动检查更新开关

Beta.autoCheckUpgrade = true;

true表示初始化时自动检查升级;

false表示不会自动检查升级,需要手动调用Beta.checkUpgrade()方法;

升级检查周期设置

Beta.upgradeCheckPeriod = 60 * 1000;

设置升级检查周期为60s(默认检查周期为0s),60s内SDK不重复向后台请求策略);

延迟初始化

Beta.initDelay = 1 * 1000;

设置启动延时为1s(默认延时3s),APP启动1s后初始化SDK,避免影响APP启动速度;

设置通知栏大图标

```
Beta.largeIconId = R.drawable.ic_launcher;
```

largelconld为项目中的图片资源;

设置状态栏小图标

```
Beta.smallIconId = R.drawable.ic_launcher;
```

smallIconId为项目中的图片资源id

设置更新弹窗默认展示的banner

```
Beta.defaultBannerId = R.drawable.ic_launcher;
```

defaultBannerId为项目中的图片资源Id;

当后台配置的banner拉取失败时显示此banner,默认不设置则展示"loading...";

设置sd卡的Download为更新资源存储目录

Beta.storageDir = Environment.getExternalStoragePublicDirectory(Environment.DIRECTORY_DOWNLOADS);

后续更新资源会保存在此目录,需要在manifest中添加WRITE_EXTERNAL_STORAGE权限;

设置开启显示打断策略

Beta.showInterruptedStrategy = true;

设置点击过确认的弹窗在App下次启动自动检查更新时会再次显示。

添加可显示弹窗的Activity

Beta.canShowUpgradeActs.add(MainActivity.class);

例如,只允许在MainActivity上显示更新弹窗,其他activity上不显示弹窗; 如果不设置默认所有activity都可以显示弹窗。

设置自定义升级对话框UI布局

Beta.upgradeDialogLayoutId = R.layout.upgrade_dialog;

upgrade_dialog为项目的布局资源。

注意:因为要保持接口统一,需要用户在指定控件按照以下方式设置tag,否则会影响您的正常使用:

- 特性图片: beta_upgrade_banner,如:android:tag="beta_upgrade_banner"
- 标题:beta_title,如:android:tag="beta_title"
- 升级信息:beta_upgrade_info 如: android:tag="beta_upgrade_info"
- 更新属性: beta_upgrade_feature 如: android:tag="beta_upgrade_feature"
- 取消按钮: beta cancel button 如: android:tag="beta cancel button"
- 确定按钮:beta_confirm_button 如:android:tag="beta_confirm_button"

设置自定义tip弹窗UI布局

Beta.tipsDialogLayoutId = R.layout.tips_dialog;

注意:因为要保持接口统一,需要用户在指定控件按照以下方式设置tag,否则会影响您的正常使用:

- 标题: beta title,如:android:tag="beta title"
- 提示信息:beta_tip_message 如: android:tag="beta_tip_message"
- 取消按钮: beta cancel button 如: android:tag="beta cancel button"
- 确定按钮:beta_confirm_button 如:android:tag="beta_confirm_button"

设置升级对话框生命周期回调接口

```
Beta.upgradeDialogLifecycleListener = new UILifecycleListener<UpgradeInfo</pre>
>() {
            @Override
            public void onCreate(Context context, View view, UpgradeInfo
upgradeInfo) {
                Log.d(TAG, "onCreate");
            @Override
            public void onStart(Context context, View view, UpgradeInfo u
pgradeInfo) {
                Log.d(TAG, "onStart");
            @Override
            public void onResume(Context context, View view, UpgradeInfo
upgradeInfo) {
                Log.d(TAG, "onResume");
                ImageView imageView = (ImageView) view.findViewById(R.id.
icon);
                imageView.setImageResource(R.mipmap.ic_launcher);
                TextView textView = (TextView) view.findViewWithTag("text
view");
                textView.setText("my custom text");
                imageView.setOnClickListener(new View.OnClickListener() {
                    @Override
                    public void onClick(View v) {
                        Intent intent = new Intent(getApplicationContext
(), OtherActivity.class);
                        intent.setFlags(Intent.FLAG_ACTIVITY_NEW_TASK);
                        startActivity(intent);
                });
            @Override
            public void onPause(Context context, View view, UpgradeInfo u
pgradeInfo) {
                Log.d(TAG, "onPause");
            @Override
```

```
public void onStop(Context context, View view, UpgradeInfo up
gradeInfo) {
            Log.d(TAG, "onStop");
        }
        @Override
            public void onDestroy(Context context, View view, UpgradeInfo
            upgradeInfo) {
                  Log.d(TAG, "onDestory");
            }
        };
}
```

如果想监听升级对话框的生命周期事件,可以通过设置OnUILifecycleListener接口回调参数解释:

- context 当前弹窗上下文对象
- view 升级对话框的根布局视图,可通过这个对象查找指定view控件
- upgradeInfo 升级信息

设置是否显示消息通知

```
Beta.enableNotification = true;
```

如果你不想在通知栏显示下载进度,你可以将这个接口设置为false,默认值为true。

设置Wifi下自动下载

```
Beta.autoDownloadOnWifi = false;
```

如果你想在Wifi网络下自动下载,可以将这个接口设置为true,默认值为false。

设置是否显示弹窗中的apk信息

```
Beta.canShowApkInfo = true;
```

如果你使用我们默认弹窗是会显示apk信息的,如果你不想显示可以将这个接口设置为false。

关闭热更新能力

```
Beta.enableHotfix = true;
```

升级SDK默认是开启热更新能力的,如果你不需要使用热更新,可以将这个接口设置为false。

初始化统一接口

```
Bugly.init(this, APP_ID, false);
```

接口说明

更新功能主要API

```
/**
 * 手动检查更新(用于设置页面中检测更新按钮的点击事件)
 */
public static synchronized void checkUpgrade()

/**
 * 获取本地已有升级策略(非实时,可用于界面红点展示)
 *
 * @return
 */
public static synchronized UpgradeInfo getUpgradeInfo()

/**
 * @param isManual 用户手动点击检查,非用户点击操作请传false
 * @param isSilence 是否显示弹窗等交互,[true:没有弹窗和toast] [false:有弹窗
或toast]
 */
public static synchronized void checkUpgrade(boolean isManual, boolea
n isSilence)
```

示例

```
public class MainActivity extends Activity {
        Button checkUpgradeBtn;
        Button refreshBtn;
        TextView upgradeInfoTv;
        @Override
        protected void onCreate(Bundle savedInstanceState) {
            super.onCreate(savedInstanceState);
            setContentView(R.layout.activity_main);
            checkUpgradeBtn = $(R.id.check_upgrade);
            refreshBtn = $(R.id.refresh_info);
           upgradeInfoTv = $(R.id.upgrade_info);
            checkUpgradeBtn.setOnClickListener(new OnClickListener() {
           @Override
                public void onClick(View v) {
                    Beta.checkUpgrade();
           });
            refreshBtn.setOnClickListener(new OnClickListener() {
                @Override
                public void onClick(View v) {
                    loadUpgradeInfo();
           });
        private void loadUpgradeInfo() {
           if (upgradeInfoTv == null)
            UpgradeInfo upgradeInfo = Beta.getUpgradeInfo();
            if (upgradeInfo == null) {
                upgradeInfoTv.setText("无升级信息");
            StringBuilder info = new StringBuilder();
            info.append("id: ").append(upgradeInfo.id).append("\n");
            info.append("标题: ").append(upgradeInfo.title).append("\n");
            info.append("升级说明: ").append(upgradeInfo.newFeature).append
("\n");
            info.append("versionCode: ").append(upgradeInfo.versionCode).
append("\n");
            info.append("versionName: ").append(upgradeInfo.versionName).
append("\n");
```

```
info.append("发布时间: ").append(upgradeInfo.publishTime).appen
d("\n");
           info.append("安装包Md5: ").append(upgradeInfo.apkMd5).append("\n")
           info.append("安装包下载地址: ").append(upgradeInfo.apkUrl).appen
d("\n");
           info.append("安装包大小: ").append(upgradeInfo.fileSize).append
("\n");
           info.append("弹窗间隔(ms): ").append(upgradeInfo.popInterva
l).append("\n");
           info.append("弹窗次数: ").append(upgradeInfo.popTimes).append("\n")
           info.append("发布类型(0:测试 1:正式): ").append(upgradeInfo.pub
lishType).append("\n");
           info.append("弹窗类型(1:建议 2:强制 3:手工): ").append(upgradeI
nfo.upgradeType).append("\n");
           info.append("图片地址: ").append(upgradeInfo.imageUrl);
           upgradeInfoTv.setText(info);
```

UpgradeInfo内容如下

```
public String id = "";//唯一标识
public String title = "";//升级提示标题
public String newFeature = "";//升级特性描述
public long publishTime = 0;//升级发布时间,ms
public int publishType = 0;//升级类型 0测试 1正式
public int upgradeType = 1;//升级策略 1建议 2强制 3手工
public int popTimes = 0;//提醒次数
public long popInterval = 0;//提醒间隔
public int versionCode;
public String versionName = "";
public String apkMd5;//包md5值
public String apkUrl;//APK的CDN外网下载地址
public long fileSize;//APK文件的大小
public String imageUrl; // 图片url
```

自定义UI

这里我们提供两种自定义UI的方式:固定控件id方式和自定义activity两种方式;

1.固定控件id

使用固定控件id方式,弹窗的生命周期仍然由更新sdk管理,用户可以自定义升级弹窗的布局和网络弹窗布局,仅需要将自定义布局中的控件tag设置为指定tag,并在在初始化时设置自定义布局的资源id与回调。

接口说明

```
/*控件固定tag如下*/
public static final String TAG_IMG_BANNER = "beta_upgrade_banner";
public static final String TAG_TITLE = "beta_title";
public static final String TAG_UPGRADE_INFO = "beta_upgrade_info";
public static final String TAG_UPGRADE_FEATURE = "beta_upgrade_feature";
public static final String TAG_CANCEL_BUTTON = "beta_cancel_button";
public static final String TAG_CONFIRM_BUTTON = "beta_confirm_button";
public static final String TAG_TIP_MESSAGE = "beta_tip_message";
```

tag与界面控件对应关系如下:



```
public static String strToastYourAreTheLatestVersion = "你已经是最新版
了":
   public static String strToastCheckUpgradeError = "检查新版本失败,请稍后
重试";
   public static String strToastCheckingUpgrade = "正在检查,请稍候...";
   public static String strNotificationDownloading = "正在下载";
   public static String strNotificationClickToView = "点击查看";
   public static String strNotificationClickToInstall = "点击安装";
   public static String strNotificationClickToRetry = "点击重试";
   public static String strNotificationDownloadSucc = "下载完成";
   public static String strNotificationDownloadError = "下载失败";
   public static String strNotificationHaveNewVersion = "有新版本";
   public static String strNetworkTipsMessage = "你已切换到移动网络,是否继续
当前下载?";
   public static String strNetworkTipsTitle = "网络提示";
   public static String strNetworkTipsConfirmBtn = "继续下载";
   public static String strNetworkTipsCancelBtn = "取消";
   public static String strUpgradeDialogVersionLabel = "版本";
   public static String strUpgradeDialogFileSizeLabel = "包大小";
   public static String strUpgradeDialogUpdateTimeLabel = "更新时间";
   public static String strUpgradeDialogFeatureLabel = "更新说明";
   public static String strUpgradeDialogUpgradeBtn = "立即更新";
   public static String strUpgradeDialogInstallBtn = "安装";
   public static String strUpgradeDialogRetryBtn = "重试";
   public static String strUpgradeDialogContinueBtn = "继续";
   public static String strUpgradeDialogCancelBtn = "下次再说";
```

```
/**

* 升级弹窗生命周期回调;

* 用户可以在在弹窗的各个生命周期中回调,

* 并在回调中修改控件内容

*/

public interface UILifecycleListener

* 《 @param context 上下文

* @param rootView 界面根节点,通过它获取子控件,并进行设置

* @param t 自定义泛型参数,用于回调时传递其他信息

* //

void onCreate(Context context, View rootView, T t);

void onResume(Context context, View rootView, T t);

void onPause(Context context, View rootView, T t);

void onStop(Context context, View rootView, T t);

void onDestroy(Context context, View rootView, T t);
```

```
Beta.upgradeDialogLayoutId = R.layout.upgrade_dialog;
        Beta.tipsDialogLayoutId = R.layout.tips_dialog;
       Beta.upgradeDialogLifecycleListener = new UILifecycleListener<Upgr</pre>
adeInfo>() {
            @Override
            public void onCreate(Context context, View view, UpgradeInfo
upgradeInfo) {
                Log.d(TAG, "onCreate");
                ImageView imageView = (ImageView) view.findViewById(R.id.
imageview);
```

```
imageView.setImageResource(R.mipmap.ic_launcher);
                TextView textView = (TextView) view.findViewWithTag("text
view");
                textView.setText("my custom text");
                imageView.setOnClickListener(new View.OnClickListener() {
                    @Override
                    public void onClick(View v) {
                        Intent intent = new Intent(getApplicationContext
(), OtherActivity.class);
                        intent.setFlags(Intent.FLAG_ACTIVITY_NEW_TASK);
                        startActivity(intent);
                });
            @Override
            public void onStart(Context context, View view, UpgradeInfo u
pgradeInfo) {
                Log.d(TAG, "onStart");
            @Override
            public void onResume(Context context, View view, UpgradeInfo
upgradeInfo) {
                Log.d(TAG, "onResume");
            @Override
            public void onPause(Context context, View view, UpgradeInfo u
pgradeInfo) {
                Log.d(TAG, "onPause");
            @Override
            public void onStop(Context context, View view, UpgradeInfo up
gradeInfo) {
                Log.d(TAG, "onStop");
            @Override
            public void onDestroy(Context context, View view, UpgradeInfo
upgradeInfo) {
                Log.d(TAG, "onDestory");
        };
```

2.自定义activity

使用自定义activity的方式,弹窗界面的绘制与生命周期均由用户自己维护,sdk负责在收到策略,下载时回调与事件上报,并提供相关接口控制任务下载,获取任务状态。

接口说明

```
public interface UpgradeStateListener {
       void onUpgradeFailed(boolean isManual);
       void onUpgradeSuccess(boolean isManual);
       void onUpgradeNoVersion(boolean isManual);
       void onUpgrading(boolean isManual);
   public interface UpgradeListener {
       void onUpgrade(int ret,UpgradeInfo strategy,boolean isManual, boo
lean isSilence);
   public interface DownloadListener {
```

```
void onReceive(DownloadTask task);
    void onCompleted(DownloadTask task);
   void onFailed(DownloadTask task, int code, String extMsg);
public static void registerDownloadListener(DownloadListener dl)
public static void unregisterDownloadListener()
public static DownloadTask startDownload()
public static void cancelDownload()
public static DownloadTask getStrategyTask()
public static synchronized UpgradeInfo getUpgradeInfo()
```

```
Beta.upgradeListener = new UpgradeListener() {
            @Override
            public void onUpgrade(int ret,UpgradeInfo strategy, boolean i
sManual, boolean isSilence) {
                if (strategy != null) {
                    Intent i = new Intent();
                    i.setClass(getApplicationContext(), UpgradeActivity.c
lass);
                    i.setFlags(Intent.FLAG_ACTIVITY_NEW_TASK);
                    startActivity(i);
                    Toast.makeText(BaseApplication.this, "没有更新", Toast.
LENGTH_LONG).show();
        };
    Beta.upgradeStateListener = new UpgradeStateListener() {
            public void onUpgradeSuccess(boolean isManual) {
                Toast.makeText(getApplicationContext(),"UPGRADE_SUCCESS",
Toast.LENGTH_SHORT).show();
            @Override
            public void onUpgradeFailed(boolean isManual) {
                Toast.makeText(getApplicationContext(),"UPGRADE_FAILED",T
oast.LENGTH_SHORT).show();
            @Override
            public void onUpgrading(boolean isManual) {
Toast.makeText(getApplicationContext(),"UPGRADE_CHECKING",Toast.LENGTH_SH
ORT).show();
            @Override
            public void onUpgradeNoVersion(boolean isManual) {
                Toast.makeText(getApplicationContext(),"UPGRADE_NO_VERSIO
N",Toast.LENGTH_SHORT).show();
        };
```

```
public class UpgradeActivity extends Activity {
       private TextView tv;
       private TextView title;
        private TextView version;
        private TextView size;
        private TextView time;
        private TextView content;
        private Button cancel;
        private Button start;
        @Override
        protected void onCreate(Bundle savedInstanceState) {
            super.onCreate(savedInstanceState);
            this.requestWindowFeature(Window.FEATURE_NO_TITLE);
            setContentView(R.layout.activity_upgrade);
            tv = getView(R.id.tv);
            title = getView(R.id.title);
            version = getView(R.id.version);
            size = getView(R.id.size);
            time = getView(R.id.time);
            content = getView(R.id.content);
            cancel = getView(R.id.cancel);
            start = getView(R.id.start);
            updateBtn(Beta.getStrategyTask());
            tv.setText(tv.getText().toString() + Beta.getStrategyTask().g
etSavedLength() + "");
            title.setText(title.getText().toString() + Beta.getUpgradeInf
o().title);
            version.setText(version.getText().toString() + Beta.getUpgrad
eInfo().versionName);
            size.setText(size.getText().toString() + Beta.getUpgradeInfo
().fileSize + "");
            time.setText(time.getText().toString() + Beta.getUpgradeInfo
().publishTime + "");
            content.setText(Beta.getUpgradeInfo().newFeature);
            start.setOnClickListener(new View.OnClickListener() {
                public void onClick(View v) {
                    DownloadTask task = Beta.startDownload();
                    updateBtn(task);
                    if (task.getStatus() == DownloadTask.DOWNLOADING) {
                        finish();
```

```
});
           cancel.setOnClickListener(new View.OnClickListener() {
               @Override
               public void onClick(View v) {
                   Beta.cancelDownload();
                   finish();
           });
           Beta.registerDownloadListener(new DownloadListener() {
               @Override
               public void onReceive(DownloadTask task) {
                   updateBtn(task);
                   tv.setText(task.getSavedLength() + "");
               @Override
               public void onCompleted(DownloadTask task) {
                   updateBtn(task);
                   tv.setText(task.getSavedLength() + "");
               @Override
               public void onFailed(DownloadTask task, int code, String
extMsg) {
                   updateBtn(task);
                   tv.setText("failed");
           });
       @Override
       protected void onResume() {
           super.onResume();
       @Override
       protected void onStop() {
           super.onStop();
       @Override
       protected void onDestroy() {
           super.onDestroy();
           Beta.unregisterDownloadListener();
```

```
public void updateBtn(DownloadTask task) {
    switch (task.getStatus()) {
       case DownloadTask.INIT:
        case DownloadTask.DELETED:
        case DownloadTask.FAILED: {
            start.setText("开始下载");
        case DownloadTask.COMPLETE: {
           start.setText("安装");
        case DownloadTask.DOWNLOADING: {
           start.setText("暂停");
        case DownloadTask.PAUSED: {
           start.setText("继续下载");
public <T extends View> T getView(int id) {
   return (T) findViewById(id);
```