Camangi Market SDK v1.0
Dev Guide

1.The purpose of Camangi Market SDK

In order to avoid paid application embezzled in Camangi Market, Camangi market develops exclusive application protection to prevent paid applications would not be illegally used.

2.Camangi Market Paid Application Licensing Principle

Once a user purchase an application in Camangi Market, the user can download and install the application on three different devices(even the same model name). If the limit is full, the user need to pay for further usage.

3.Camangi Market SDK Introduction

Camangi Market SDK is a packed JAR library. It is easy to carry out and protect your professional applications.Developers just need to add some codes and integrate the JAR file into the application. With simple steps, the application will be protected.

The application integrated with Camangi Market SDK will verify the license when application startup (or any time on your request). If verification failed, Camangi Market SDK will notify users by AlertDialog and close the application.Please notice it is necessary that devices have pre-installed Camangi Market client before users run applications at first time to verify the license. The protection is optional , and developers are free to choose whether to use Camangi Market SDK or not.

4. Verification Process

4.1 A user starts application.

4.2 Application calls Camangi Market SDK for verification.

4.3 If verification passed, continue to run the application.

4.4 If verification failed, notify user by AlertDialog and close the application.

Failure 1: Parameter error, the application can not be run on this device.

Failure 2: Camangi Market Client is not installed when an application first time to verify the license. It will require users to install the latest version of Camangi Market Client.

Failure 3: Camangi Market Client has never been log in when an application first time to verify the license.It will require users to log in Camangi Market Client.

Failure 4: No valid license. It will require users to remove the application and re-download it from Camangi Market Client.

5. Camangi Market SDK API

5.1 **public static int** verify(Activity activity)

This API is used to verify the validity of the application.

Parameters:

activity the Activity calls this API

Returns:

If verification passed, return License.PASS.

※In some cases, this function may take a few seconds to return.

5.2 **public static void** notify(Activity activity, **int** verifyResult)

According to the return value of verify API (5.1). This API will send a AlertDialog to notify users simultaneously.

Parameters:

activity	the Activity calls this API
verifyResult	the return value of verify API (5.1)

6. Usage Instructions

6.1 Add CMarket_SDK_1.0.jar to your application

Please download the CMarket_SDK_1.0.jar. Then right-click on your project in Eclipse→"Properties"→"Java Build Path"→"Libraries"→"Add External JARs"→Select CMarket_SDK_1.0.jar you just downloaded.

6.2 Add Permission

Please add the following permission to your AndroidManifest.xml file.

```
<uses-permission android:name="android.permission.ACCESS_WIFI_STATE" />
<uses-permission android:name="android.permission.CHANGE_WIFI_STATE" />
<uses-permission android:name="android.permission.WAKE_LOCK" />
```

6.3 Programming Examples

6.3.1 Add the following code in your primary Activity.

```
import com.camangi.market.sdk.License;

@Override
public void onCreate(Bundle savedInstanceState) {
    ……
    int result = License.verify(this);
    if(result != License.PASS)
        License.notify(this, result);
    else
        //do everything you want
}
```

6.3.2 If you don't want to change your existing Activity, You can create a dedicated Activity for verification and direct to your primary Activity if verification passed.

```
import com.camangi.market.sdk.License;

public class VerifyActivity extends Activity {
    /** Called when the activity is first created. */
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        int result = License.verify(this);
```

```
            if(result != License.PASS)
                License.notify(this, result);
            else{
                Intent intent = new Intent(this, YourActivity.class);
                startActivity(intent);
                finish();
            }
        }
}
```

6.3.3 As verify API may take few seconds to return, you can put it in a thread and let user know that action is in progress by ProgressDialog.※**Notice, do NOT put notify API in the thread, or AlertDialog will not appear.**

```
import com.camangi.market.sdk.License;

public class VerifyActivity extends Activity {
    int result;
    final Handler mHandler = new Handler();
    final Runnable mVerifyFinished = new Runnable() {
        public void run() {
            if(result != License.PASS)
                License.notify(VerifyActivity.this, result);
            else{
                Intent intent = new Intent(VerifyActivity.this, YourActivity.class);
                startActivity(intent);
                finish();
            }
        }
    };
    /** Called when the activity is first created. */
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        final ProgressDialog pd;
        pd = ProgressDialog.show(this, "", "Verifying...", true);
        new Thread() {
            public void run() {
                try {
                    result = License.verify(VerifyActivity.this);
                    mHandler.post(mVerifyFinished);
                } catch (Exception e) {
                    e.printStackTrace();
                } finally {
                    pd.dismiss();
                }
            }
        }.start();
    }
}
```

7.Testing

7.1 Install the application integrated with Camangi Market SDK on device or emulator.

7.2 Starts application.

7.3 If verification failed and the AlertDialogs displayed, which means that Camangi Market SDK has been added to your application successfully.(Because the application is not published to Camangi Market yet.)