

PSAM 接入说明文档

版本	描述	日期	作者
V1.0	添加接入 PSAM 控制说明	2023/2/4	郑俊科
V1.1	新增支持机型：Falcon 1、Swift 2 Pro、Lark 1	2023/4/8	郑俊科

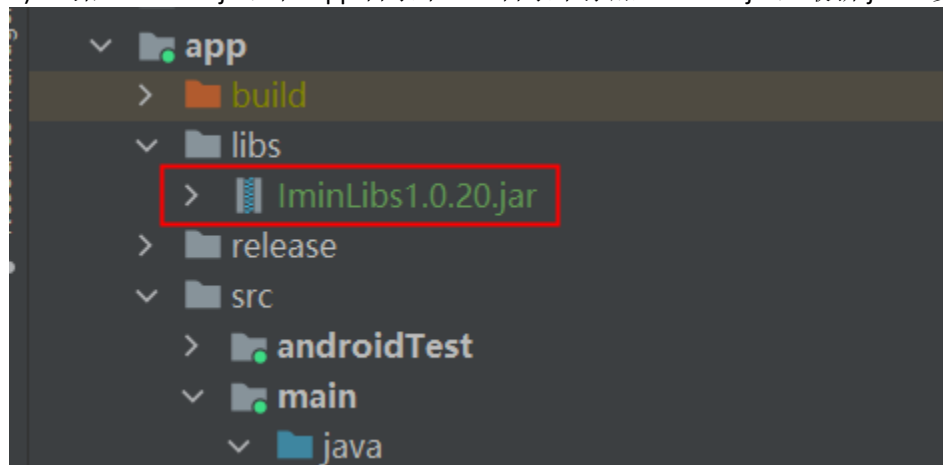
1.简介

该文档用于介绍如何接入读取 PSAM，面向开发者
针对机型

序号	机型
1	Swift 2
2	Falcon 1、Swift 2 Pro、Lark 1

2.接入步骤

1) 引入 IminLib.jar，在 app 目录下 libs 目录下添加 IminLibs.jar，最新 jar 已变为 IminLibs1.0.21.jar



2) 添加 IminLib.jar 的依赖，在 app 目录下的 build.gradle 添加依赖

```
dependencies {  
    implementation files('libs/IminLibs1.0.20.jar')  
    implementation 'com.android.support:appcompat-v7:1.6.1'
```

3) 请求读取 PSAM 状态（前提：已插入 PSAM 卡）

```
private AtomicBoolean isTest = new AtomicBoolean(false);
```

```

public void psamTest(View view) {
    if (isTest.get())
        return;
    isTest.set(true);
    Toast.makeText(this, "正在读取...", Toast.LENGTH_SHORT).show();
    new Thread() {
        @Override
        public void run() {
            super.run();

            //          boolean isSuccess = false;
            String readResult = readPsam();
            Message msg = new Message();
            msg.obj = readResult;
            msg.what = 2;
            mHandler.sendMessage(msg);
        }
    }.start();
public String readPsam() {
    int iRet = -1;
    for (int i = 0; i < 9; i++) {

        byte slot = 0;
        byte[] atr = new byte[40];
        byte[] apduSend = new byte[600];
        byte[] apduRecv = new byte[600];

        slot = 0x01;

        if (i / 3 == 0) {
            IminSDKManager.iccDevParaSet(MainActivity.this, slot, (byte) 0, (byte) 0, (byte) 0);
            //          icc.Dll_IccDevParaSet(slot, (byte) 0, (byte) 0, (byte) 0);
            iRet = IminSDKManager.openPsam(MainActivity.this, slot, (byte) (i % 3), atr);
            //          iRet = icc.Dll_IccOpen(slot, (byte) (i % 3), atr);
        } else if (i / 3 == 1) {
            //          icc.Dll_IccDevParaSet(slot, (byte) 0, (byte) 0, (byte) 0);
            IminSDKManager.iccDevParaSet(MainActivity.this, slot, (byte) 0, (byte) 0, (byte) 0);
            //          iRet = icc.Dll_IccOpen((byte) (slot | 0x40), (byte) (i % 3), atr);
            iRet = IminSDKManager.openPsam(MainActivity.this, (byte) (slot | 0x40), (byte) (i %
3), atr);
        } else if (i / 3 == 2) {
            //          icc.Dll_IccDevParaSet(slot, (byte) 1, (byte) 1, (byte) 12);
            IminSDKManager.iccDevParaSet(MainActivity.this, slot, (byte) 1, (byte) 1, (byte) 12);
            //          iRet = icc.Dll_IccOpen((byte) slot, (byte) (i % 3), atr);
            iRet = IminSDKManager.openPsam(MainActivity.this, (byte) slot, (byte) (i % 3), atr);
        }
    }
    if (iRet == 0)
        Log.e("icc", "ICC reset (" + i + ")OK,atr:" + ByteUtil.bytearrayToHexString(atr,

```

```

atr[0]) + "\r\n");
    else {
        Log.e("icc", "ICC reset failed(" + i + "), return value:" + Integer.toString(iRet) +
"\r\n");

        IminSDKManager.closePsam(MainActivity.this, slot);
        continue;
    }

    try {
        Thread.sleep(10);
    } catch (InterruptedException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
    //for(int j=0;j<5;j++){
    apduSend[0] = (byte) 0x00;
    apduSend[1] = (byte) 0xa4;
    apduSend[2] = (byte) 0x04;
    apduSend[3] = (byte) 0x00;
    apduSend[4] = (byte) 0x00;
    apduSend[5] = (byte) 0x0e;

    System.arraycopy("1PAY.SYS.DDF01".getBytes(), 0, apduSend, 6, 14);
    apduSend[6 + 14] = (byte) 0x01;
    apduSend[7 + 14] = (byte) 0x00;

    iRet = IminSDKManager.commandPsam(MainActivity.this, slot, apduSend, apduRecv);
    if (iRet == 0) {
        int lenout = apduRecv[0] * 256 + apduRecv[1];
        byte[] dataout = new byte[512];
        byte[] sw = new byte[2];

        Log.e("icc", "Command Exchange Success" + "\r\n");
        Log.e("icc", "datalen:" + Integer.toString(lenout) + "\r\n");
        System.arraycopy(apduRecv, 2, dataout, 0, lenout);
        String dataOutStr = ByteUtil.bytearrayToHexString(dataout, lenout);
        Log.e("icc", "dataout:" + dataOutStr + "\r\n");
        System.arraycopy(apduRecv, 2 + lenout, sw, 0, 2);
        Log.e("icc", "SWA,SWB:" + ByteUtil.bytearrayToHexString(sw, 2) + "\r\n");
        IminSDKManager.closePsam(MainActivity.this, slot);
        return "ICC 检查成功:" + dataOutStr;
    } else {
        Log.e("icc", "Command Exchange fail(" + i + "),return value:" + Integer.toString(iRet)
+ "\r\n");

        IminSDKManager.closePsam(MainActivity.this, slot);
    }
}
}

```

```
return "ICC 检查失败, result:" + iRet;  
}
```

- 4) 上述代码读取必须要在子线程中添加，iRet 返回不等于 0 的情况可以参考 [Android Psam 应用开发指南](#)中对应的返回值