

PSAM Development Guide

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Foreword

Document Overview

PSAM module interface description

For people

software developer

Software tester

Purpose of the document

Reference for software developers

Development environment and tools

Development platform: Win7 Ultimate 64

Development tools: Android studio 3.1

Compiling environment: ndkr16B java 1.8

Overall design

Interface function

1.1 openDev ()

Function interface	<code>void openDev(String path, int baudrate, int flags)</code>
--------------------	---

Function Description	Open serial port
Parameter Description	path : serial node baudrate : baud rate

	flags : device identification 0
return value	no

1. 2 closeDev ()

Function interface	void closeDev()
Function Description	Close the serial port
Parameter Description	no
return value	no

1. 3 resetPsam ()

Function interface	int resetPsam (int type, byte [] data, int timeout)
Function Description	P sam card reset
Parameter Description	Type : 0 , 1 are card 1 and card 2 respectively Data : Reply data Timeout : timeout
return value	Int (reset data length)

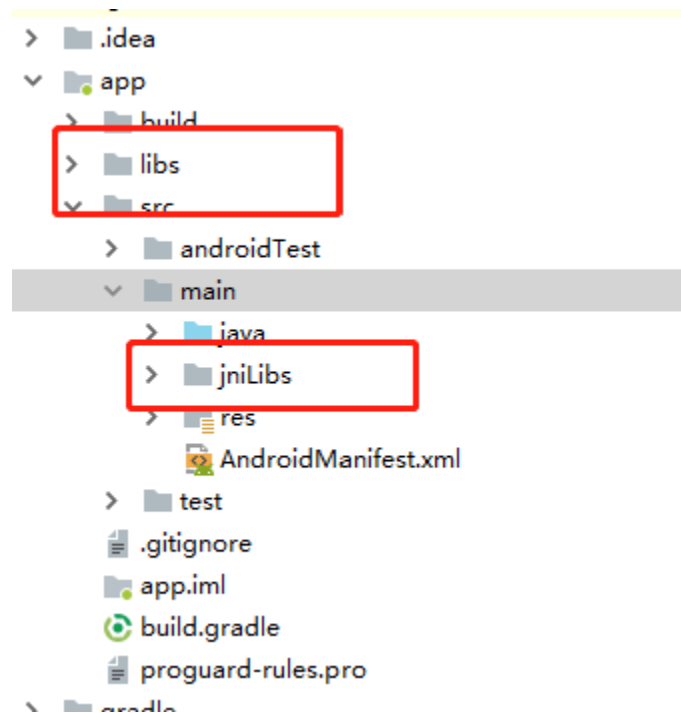
1. 4 sendApdu ()

Function interface	int sendApdu (int type, String apduHex , byte [] data, int timeout)
Function Description	Send apdu
Parameter Description	t ype : 1 and 2 are card 1 and card 2 respectively apduHex : apdu instruction d ata : reply data t imeout : timeout
return value	Int (reset data length)

2. 0 Android Development and Configuration

2. 0.1 will provide sdk copied to project libs at

2. 0.2 will provide jniLibs copied to android project the src / main , the recompiling



2.0.3 Example of use

```
PowerUtils.powerOnOrOff (1, "1");
```

```
// 初始化
```

```
PosFactory.registerCommunicateDriver (this,new SerialDriver ());
```

```
psam=PosFactory.getPsamDevice ();
```

```
psam.open (this,"/dev/ttyS2",115200,0);
```

```
// Card 1 reset
```

```
byte[] atr1=new byte[64];
```

```
int dataLength1=mIPsam.resetPsam (1, atr1, 500);
```

```
byte[] res1=new byte[dataLength1];
```

```
System.arraycopy (atr1, 0, res1, 0, dataLength1);
```

```
Log.e (TAG, "onClick1: " + ByteHelp.Bytes2HexString (res1));
```

```
// send apdu
```

```
byte[] atr3=new byte[1024];
```

```
String hex="008400000004";
```

```
int dataLength3=mIPsam.sendApu (0,hex, atr3, 500);
```

```
byte[] res3=new byte[dataLength3];
```

```
System.arraycopy (atr3, 0, res3, 0, dataLength3);
Log.e (TAG, "onClick3: " + ByteHelp.Bytes2HexString (res3));

// close
if (posApi != null) {
    posApi.closeDev ();
    PosFactory.Destroy ();
}
PowerUtils.powerOnOrOff (1, "0");
```