

# Scale&Print SDK-Android-V2.017 Interface documentation

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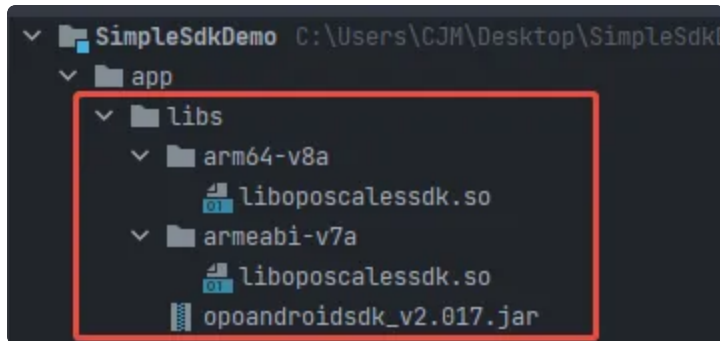
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# I. Instructions for Use

## 1.1 description of Engineering Configuration

1. This SDK interface needs to run on Android system
2. Put the lib directory under sdk into the project libs directory and import the required so Library and jar package

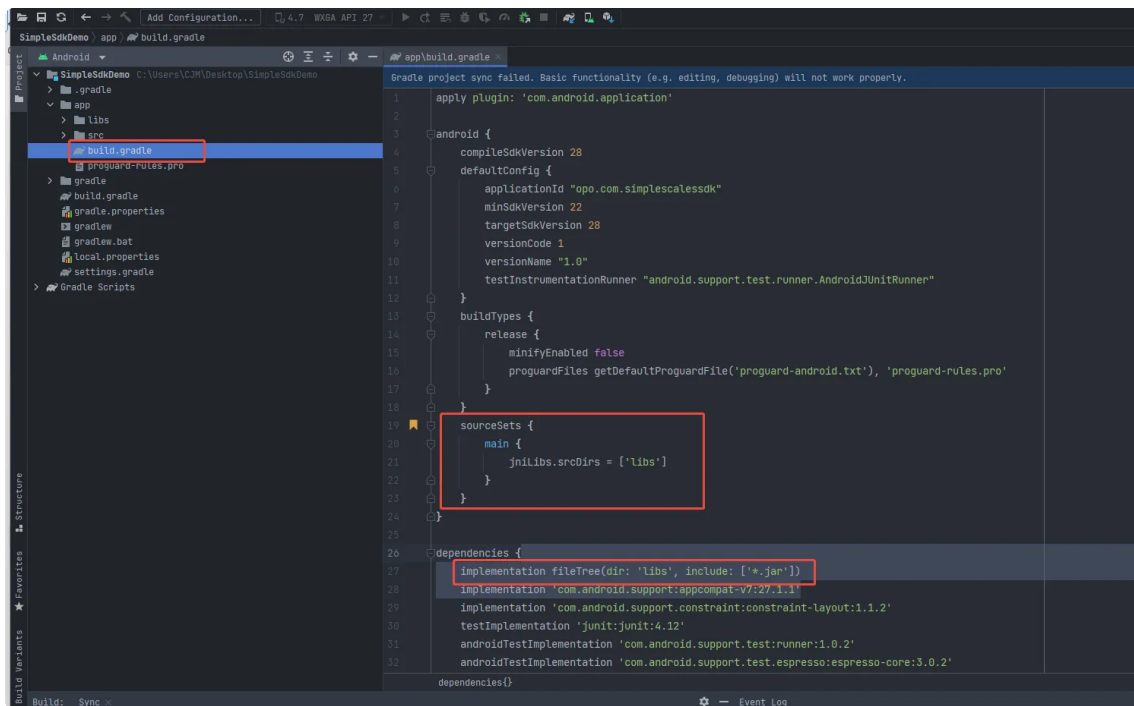


3. Specify the so Library path

```
▼ Java |
1  sourceSets {
2      main {
3          jniLibs.srcDirs = ['libs']
4      }
5  }
```

4. Introducing the jar

```
▼ Java |
1  implementation fileTree(dir: 'libs', include: ['*.jar'])
```



## 1.2 initialization

1. Instantiate weighing and printing objects at the program entrance or specified location

```

1  //scale
2  private ScalesSDK mscalesdk;
3  //label
4  private LabelPrinter mlabelprinter;
5  //pos
6  private PosPrinter mposprinter;
7
8  @Override
9  protected void onCreate(Bundle savedInstanceState) {
10     super.onCreate(savedInstanceState);
11     setContentView(R.layout.activity_main);
12
13     //scale
14     mscalesdk = ScalesSDK.getInstance(this, new ScalesSDK.WeightChangedLi
stener() {
15         @Override
16         public void onWeightChanged(final WeightInfo weightInfo) {
17             tv_netWeight.setText(weightInfo.getNetWeight());
18             tv_tareWeight.setText(weightInfo.getTareWeight());
19             tv_grossWeight.setText(weightInfo.getGrossWeight());
20             tv_mode.setText(weightInfo.getMode());
21             tv_status.setText(weightInfo.getStatus());
22             if (weightInfo.getZero())
23                 tv_zero.setText("zero");
24             else tv_zero.setText("no zero");
25         }
26     });
27
28     //label
29     mlabelprinter = LabelPrinter.getInstance(this);
30     //pos
31     mposprinter = PosPrinter.getInstance(this);
32 }

```

2. The method for obtaining the WeightInfo attribute of the data Class obtained by the weighing callback is as follows

```

1  public class WeightInfo implements Parcelable {
2      public String getMode()
3      public String getStatus()
4      public boolean getZero()
5      public String getUnit()
6      public String getNetWeight()
7      public String getTareWeight()
8      public String getGrossWeight()
9  }

```

10

method	method description	description of results
getMode	weighing mode	Net = Net weighing mode Tare = peeling and weighing
getStatus	steady state	Flow = Weight Overflow Stable = weight Stable UnStable = UnStable weight
getZero	zero state	true = zero point false = non-zero point
getUnit	weighing unit	
getNetWeight	net weight	
getTareWeight	tare weight	
getGrossWeight	gross weight	

## II. Weighing Interface Description

## 2.1 Open serial port

- description

▼ Java |

```
1 private native static int Open(String sConnet);
```

- parameters

parameters	description
sConnet	connected File descriptor (default new File("/dev/ttyS0"))

- examples

▼ Java |

```
1 if (mscalesdk.Open(new File("/dev/ttyS0"))) {  
2     showmsg("Com open ok");  
3 }else{  
4     showmsg("Com open failed");  
5 }
```

## 2.2 to close the serial port

- description

▼ Java |

```
1 public native static int Close();
```

- examples

▼ Java |

```
1 int close = mscalesdk.Close();  
2 if (close == 1) {  
3     showmsg("Com close ok");  
4 } else {  
5     showmsg("Com close failed");  
6 }
```

## 2.3 Peeled

- description

▼ Java |

```
1 public native int Tare();
```

- examples

▼ Java |

```
1 int tare = mscalesdk.Tare();
2 if (tare == 1) {
3     showmsg("Tare");
4 } else {
5     showmsg("Tare");
6 }
```

## 2.4 Quit Peel

- description

▼ Java |

```
1 public native int ExitTare();
```

- examples

▼ Java |

```
1 int i = mscalesdk.ExitTare();
2 if (i == 1) {
3     showmsg("ExitTare ok! ");
4 } else {
5     showmsg("ExitTare failed! ");
6 }
```

## 2.5 Forced Peeling

- description

▼

Java

```
1 public native static int PreTare(int value);
```

- parameters

parameters	description
value	Peeling weight in g.

- Examples

▼

Java

```
1 int result = mscalesdk.PreTare(100);
2 if (result == 1) {
3     showmsg("PreTare ok");
4 } else {
5     showmsg("PreTare failed");
6 }
```

## 2.6 Zeroing

- description

▼

Java

```
1 public native int Zero();
```

- examples

▼

Java

```
1 int result = mscalesdk.Zero();
2 if (result == 1) {
3     showmsg("Zero ok");
4 } else {
5     showmsg("Zero failed");
6 }
```

## III. Label Printer Interface Description



## 3.1 Label Printer Connection

- description

▼ Java |

```
1 public boolean Open()
```

- examples

▼ Java |

```
1 ▼ if (mlabelprinter.Open()) {  
2     Log.d(TAG, "Label printer open ok");  
3 ▼ } else {  
4     Log.d(TAG, "Label printer open fail");  
5 }
```

## 3.2 Get Printer Status

- description

▼ Java |

```
1 public synchronized int GetStatus()
```

- examples

```
1  int resserial = mlabelprinter.GetStatus();
2
3  switch (resserial) {
4      case 0:
5          showmsg("Normal");
6          break;
7      case 1:
8          showmsg("Paper Out");
9          break;
10     case 2:
11         showmsg("Paper Not Taken");
12         break;
13     case 3:
14         showmsg("Cover Open");
15         break;
16     case 4:
17         showmsg("High Temperature");
18         break;
19     case 5:
20         showmsg("Positioning Error");
21         break;
22     case 6:
23         showmsg("Busy");
24         break;
25     case 7:
26         showmsg("Unknown Error");
27         break;
28     case 8:
29         showmsg("Write Error or Unexpected Cover Open");
30         break;
31 }
```

### 3.3 Printing Bmp Pictures

- description

```
1  public boolean PrintLabelBitmap(Bitmap ImageBmp)
```

- parameters

parameters	description
ImageBmp	bitmap image object

- examples

▼

Java |

```

1  boolean resok = mlabelprinter.PrintLabelBitmap(getAssetsBitmap(this, "log.jpg"));

```

## IV. Pos Printer Interface Description

### 4.1 Pos Printer Connection

- description

▼

Java |

```

1  public boolean Open()

```

- examples

▼

Java |

```

1  if (mposprinter.Open()) {
2      Log.d(TAG, "Pos printer open ok");
3  } else {
4      Log.d(TAG, "Pos printer fail");
5  }

```

### 4.2 Get Printer Status

- description

▼

Java |

```

1  public synchronized int RollPaperStatus()

```

- examples

▼ Java |

```
1  if (!mposprinter.RollPaperStatus()) {  
2      Log.d(TAG, "Paper status error. Please check!");  
3      return;  
4  }
```

### 4.3 Printing Bmp Pictures

- description

▼ Java |

```
1  public synchronized boolean WriteData(byte[] Data)
```

- parameters

parameters	description
Data	ESC instruction data flow

- examples

```

1 // Receipt Printing
2 ByteArrayOutputStream buffer = new ByteArrayOutputStream();
3 try {
4     // Align center
5     buffer.write(ESCUtil.alignCenter());
6
7     // Print image
8     buffer.write(ESCUtil.printBitmap(getAssetsBitmap(MainActivity.this, "o
po.jpg")));
9
10    // Set font size
11    buffer.write(ESCUtil.setTextSize(6));
12
13    // Enable bold text
14    buffer.write(ESCUtil.boldOn());
15
16    // Print test text (encoded in GB18030 for Chinese support)
17    buffer.write("Test Print\n".getBytes("GB18030"));
18
19    // Disable bold
20    buffer.write(ESCUtil.boldOff());
21
22    // Reset font size to default
23    buffer.write(ESCUtil.setTextSize(0));
24
25    // Feed paper (5 lines)
26    buffer.write(ESCUtil.nextLine(5));
27
28    // Align left
29    buffer.write(ESCUtil.alignLeft());
30
31    // Prepare receipt content
32    String text =
33        " Item           Price Qty  Amount\n" +
34        " -----\n" +
35        " Tomato & Egg      10.0  10   100.0\n" +
36        " Minced Pork Eggplant 10.0  1    10.0 \n" +
37        " Meat Slice Soup 100.0  1   100.0\n" +
38        " Curry Chicken   100.0  2   200.0\n" +
39        " Big Plate Chicken 100.0  1   100.0\n" +
40        " Fish Ball Noodles 15.0  1    15.0 \n" +
41        " Note: No spicy\n";
42
43

```

```

44     // Write receipt text using GB18030 encoding (supports Simplified Chin
45     ese)
46     buffer.write(text.getBytes("GB18030"));
47
48     // Align center again
49     buffer.write(ESCUtil.alignCenter());
50
51     // Print QR code
52     buffer.write(ESCUtil.getPrintQRCode("www.oneplusone.cc", 8, 0));
53
54     // Print 1D barcode (Code 128)
55     buffer.write(ESCUtil.getPrint128Code("C", "123456789012", 50, 3, 2));
56
57     // Feed paper (10 lines)
58     buffer.write(ESCUtil.nextLine(10));
59
60     // Open cash drawer
61     buffer.write(ESCUtil.openCashdrawer());
62
63     // Send data to POS printer
64     boolean res = mposprinter.WriteData(buffer.toByteArray());
65     if (res) {
66         Log.d(TAG, "POS Printer Bitmap OK");
67     } else {
68         Log.d(TAG, "POS Printer Bitmap Failed");
69     }
70 } catch (IOException e) {
    e.printStackTrace();

```