Android Port Program Manual

Bluetooth, Wi-Fi, USB, Serial

v2.1.2

Contents

Android Port Program Manual....1
Bluetooth, Wi-Fi, USB, Serial....1
1. Instruction....3
1.1. initialization....3
1.2. Create a printer connection....3
1.3. Print....3
1.4. Close the connection....3
2. POSConnect....3
2.1. init....4
2.2. createDevice....4
2.3. exit....4
2.4. getUsbDevices....4
2.5. getSerialPort....5
3. IDeviceConnection....5
3.1. connect....5
3.2. close....6
3.3. sendData....6
3.4. readData....6

1. Instruction

This Android Port Program Manual describes how to connect the printer through Bluetooth, USB, Wi-Fi and serial ports and send content to the printer.

1.1. initialization

POSConnect.init(appContext)

1.2. Create a printer connection

```
val connect = POSConnect.createDevice(POSConnect.DEVICE_TYPE_BLUETOOTH)
connect.connect("12:34:56:78:9A:BC") { code, msg ->
        if (code == POSConnect.CONNECT_SUCCESS) {
                Log.i("tag", "device connect success")
                val printer = POSPrinter(connect)
        } else if (code == POSConnect.CONNECT_FAIL) {
                Log.i("tag","device connect fail")
        }
}
```

1.3. Print

printer.printString("test ~")

1.4. Close the connection

connect.close()

2. POSConnect

This class is used to connect printers.Constant variable are defined in POSConnect class.

2.1. init

This function is used for SDK initialization.It is recommended to call in the onCreate function of the application class.
static void init(Context appContext)

[Parameter]
- appContext

Context of application

2.2. createDevice

Create a print device by device type
static IDeviceConnection createDevice(int deviceType)
[Parameter]
- deviceType

Device type

Variable	Description
DEVICE_TYPE_USB	UBS
DEVICE_TYPE_BLUETOOTH	BLUETOOTH
DEVICE_TYPE_ETHERNET	ETHERNET
DEVICE_TYPE_SERIAL	SERIAL

2.3. exit

Exit the print service.
static void exit()

2.4. getUsbDevices

Get USB pathname list
static List<String> getUsbDevices(Context context)

[Parameter]
- context

Context

[Return]
USB port pathname list.

2.5. getSerialPort

Get serial port path list
static List<String> getSerialPort()

[Return]
Serial port path list

3. IDeviceConnection

The interface class connecting the device, which is used to send data to the printer or read the data returned by the printer.Available through POSConnect.createDevice(deviceType).

3.1. connect

Connect the printer
void connect(String info, IPOSListener listener);
[Parameter]

- info

Device Information.

1. If the device type is DEVICE_TYPE_USB, info is the USB path name
2. If the device type is DEVICE_TYPE_BLUETOOTH, info is the Bluetooth MAC address
3. When the device type is DEVICE_TYPE_ETHERNET, info is the IP address of the network
4. If the device type is DEVICE_TYPE_SERIAL, info is a string composed of serial port name and serial port baud rate. eg:"/dev/ttyS4,38400"

- listener

Connect the status listener.

code	Description
CONNECT_SUCCESS	Connection successful
CONNECT_FAIL	Connection failed
CONNECT_INTERRUPT	Disconnected
SEND_FAIL	fail in send
USB_ATTACHED	USB Attached
USB_DETACHED	USB Detached
BLUETOOTH_INTERRUPT	Bluetooth Interrupt

3.2. close

Close the connection
void close()

3.3. sendData

This function is used to send data to the printer.
void sendData(byte[] data)
void sendData(List<byte[]> datas)

[Parameter]
- data

Byte array to be sent
- datas

Byte array collection to be sent

3.4. readData

This function is used to read the data returned from the printer.
void readData(int timeout, IDataCallback callback)
void readData(IDataCallback callback)
byte[] readSync(int timeout)
Synchronous reading may block the UI thread.

[Parameter]
- timeout

Read timeout, in milliseconds. The default is 5000.

- callback

Data callback

```
public interface IDataCallback {
    void receive(byte[] data);
}
```