

Android Library Manual

Bluetooth, Wi-Fi, USB

Mobile Printer

Rev. 1.083

## TABLE of CONTENTS

1. Instruction.
2. Methods.

## **1. Instruction**

This Android Port Package Manual describes the method which is connecting using Bluetooth or Wi-Fi or USB.

## **2. Method**

Defined in the BluetoothPort Class and the WiFiPort Class and USBPort Class.

## **2.1 BluetoothPort**

### **2.1.0 GetInstance**

public static BluetoothPort getInstance()

Returns an instance of the BluetoothPort.

### **2.1.1 Connect**

public void connect(String address) throws IOException

public void connectSecure(String address) throws IOException

Connect the interface to the destination address.

- address

the target host address to connect to.

Address format is 12 characters with delimiter.

(Example: 12:34:56:78:90:AB)

### **2.1.2 Connect**

public void connect(BluetoothDevice device) throws IOException

public void connectSecure(BluetoothDevice device) throws IOException

Connect the interface to the specific bluetooth device.

- device

Bluetooth device object to connect to.

### **2.1.3 Disconnect**

public void disconnect() throws IOException

Disconnect the current connection.

### **2.1.4 GetInputStream**

public InputStream getInputStream() throws IOException

Returns an input stream for this connection.

### **2.1.5 GetOutputStream**

public OutputStream getOutputStream() throws IOException

Returns an output stream for this connection.

**2.1.6 isConnected**

public boolean isConnected()

Returns a status that the interface were connected (true or false).

**\* If you turn off the printer that's already connected, "isConnected()" could not returns correct status.**

**2.2 Wi-Fi****2.2.0 GetInstance**

public static WiFiPort getInstance()

Returns an instance of the WiFiPort.

**2.2.1 Connect**

public void connect(String address) throws IOException

Connect the interface to the destination address.

- address

the target host address to connect to.

**2.2.2 Connect**

public void connect(String ip, int port) throws IOException

Connect the interface to the specific IP address and Port number

- ip

the target host IP address to connect to.

- port

the port on the target host to connect to.

**2.2.3 Disconnect**

public void disconnect() throws IOException

Disconnect the current connection.

**2.2.4 GetInputStream**

public InputStream getInputStream() throws IOException

Returns an input stream for this connection.

**2.2.5 GetOutputStream**

public OutputStream getOutputStream() throws IOException

Returns an output stream for this connection.

### 2.2.6 isConnected

public boolean isConnected()

Returns a status that the interface were connected (true or false).

**\* If you turn off the printer that's already connected, "isConnected()" could not returns correct status.**

## 2.3 RequestHandler

### 2.3.1 How to use RequestHandler

RequestHandler is implemented Runnable Interface.

If connection established with BluetoothPort or WiFiPort, RequestHandler Thread must executed like below. **(Except for using USBPortConnection and WiFiPortConnection)**

It must be running until connection closed.

When the connection close, Thread must terminated by using Interrupt().

If you want more the details, see the sample code in the SDK.

```
Thread handlerThread;
.....
// Execution routine.
handlerThread = new Thread(new RequestHandler());
handlerThread.start();
.....

// Termination routine. To Avoid NullPointerException.
if ( ( handlerThread != null ) && ( handlerThread.isAlive() ) )
    handlerThread.interrupt();
.....
```

**\* If you connect to the printer by using USB, WiFiPortConnection Class, you should not to run RequestHandler.**

## 2.4 USB

This class support to connecting to the printer by USB OTG(USB On The Go).

You must have a USB OTG cable though, a regular micro USB to USB adapter will not work.

Also your Android device support OTG function.

### 2.4.1 USBPort Class

**public USBPort(UsbManager usbManager)**

- Constructor method.

[Parameter]

- UsbManager

**public USBPortConnection connect\_device(int model)**

- Connect to UsbDevice Object.

[Parameter]

- model : Printer Model. (CMP\_PORT\_USB of USBPort Class.)

[Return]

- USBPortConnection : USBPortConnection Object.

### 2.4.2 USBPortConnection Class

USBPortConnection Object will be created when USB connection established.

This Object used for parameter of Constructor for ESCPOSPrinter, CPCLPrinter, AndroidMSR Class.

**public void close()**

- Close the connection.

## 2.5 WiFiPortConnection

This class support to connecting multiple via WiFi interface.

WiFiPortConnection's instance created by open() method of WiFiPort class.

### 2.5.1 WiFiPort Class

**public static WiFiPort getInstance()**

- Returns an instance of the WiFiPort.

**public WiFiPortConnection open(String address)**

- Returns an instance of the WiFiPortConnection.

[Parameter]

- address : the target host IP address to connect to

### 2.5.2 WiFiPortConnection Class

**public void close()**

- Close the connection.

**public boolean isConnected()**

- Returns a status that the interface were connected (true or false).