

**Brother Print SDK for Android  
Manual Ver.3.0.3**

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## **Introduction**

This manual is for SDK (Software Development Kit) and references used for printing from Android device to Brother Mobile Printers.

This manual is designed for those who have experience in developing Android applications and programming.

## **Inquiry**

The Software Development Kit (hereafter called SDK) provides information on modules and program development to use Brother printers for various applications.

For inquiries regarding solutions, contact our offices in your country.

## 1. At the beginning

### 1.1. Folder Configurations

The SDK contains of the following folders.

Brother (PDF) Print	End-User License agreement, Redistributable file list
SDK for Android folder	
├── .¥Apk	Package files of the printing library and sample application
├── .¥libs	JAR and SO file of the printing library
└── .¥Samples	Sample project

### 1.2. Specification

Development tool	<ul style="list-style-type: none"> <li>• JDK7</li> <li>• Android Studio v1.3.2 or later</li> <li>• Android SDK r24.3.4 or later</li> </ul> <p>*For these installation methods, please check each software website.</p>
Programming Language	Java
Package	com.brother.ptouch.sdk
Supported devices	<p>Android 4.0.3 or later</p> <p>*Not all Android 4.0.3 or later device will be guaranteed. It may not be able to print depending on the implementation of device side.</p> <p>*※USB function only supports the device of which OS is over Android 4.0.3 and supports USB host.</p>
File printing function	jpeg/jpg, bmp, png, prn, pdf
P-touch Template function	Transferring, getting list, delete and printing P-touch Templates

#### 1.2.1. The list of supported model and interface about file printing

File printing			
Model	USB	BLUETOOTH	NET
MW-140BT	yes	yes	no
MW-145BT	yes	yes	no
MW-260	yes	yes	no
PJ-522	yes	no	no
PJ-523	yes	no	no
PJ-520	yes	no	no
PJ-560	yes	yes	no

PJ-562	yes	yes	no
PJ-563	yes	yes	no
PJ-622	yes	no	no
PJ-623	yes	no	no
PJ-662	yes	yes	no
PJ-663	yes	yes	no
PJ-722	yes	no	no
PJ-723	yes	no	no
PJ-762	yes	yes	no
PJ-763	yes	yes	no
PJ-763MFi	yes	yes	no
PJ-773	yes	no	yes
RJ-4030	yes	yes	no
RJ-4040	yes	no	yes
RJ-3050	yes	yes	yes
RJ-3150	yes	yes	yes
TD-2020	yes	no	no
TD-2120N	yes	yes	yes
TD-2130N	yes	yes	yes
TD-4000	yes	no	no
TD-4100N	yes	no	yes
QL-710W	yes	no	yes
QL-720NW	yes	no	yes
PT-E550W	yes	no	yes
PT-P750W	yes	no	yes
MW-145MFi	yes	yes	no
MW-260MFi	yes	yes	no

### 1.2.2. The list of supported model and interface about P-touch Template printing and transferring

P-touch Template printing and transferring			
Model	USB	BLUETOOTH	NET
MW-140BT	no	no	no
MW-145BT	yes	yes	no
MW-260	yes	yes	no
PJ-522	no	no	no
PJ-523	no	no	no
PJ-520	no	no	no

PJ-560	no	no	no
PJ-562	no	no	no
PJ-563	no	no	no
PJ-622	no	no	no
PJ-623	yes	no	no
PJ-662	no	no	no
PJ-663	yes	yes	no
PJ-722	yes	no	no
PJ-723	yes	no	no
PJ-762	yes	yes	no
PJ-763	yes	yes	no
PJ-763MFi	yes	yes	no
PJ-773	yes	no	yes
RJ-4030	yes	yes	no
RJ-4040	yes	no	yes
RJ-3050	yes	yes	yes
RJ-3150	yes	yes	yes
TD-2020	yes	no	no
TD-2120N	yes	yes	yes
TD-2130N	yes	yes	yes
TD-4000	yes	no	no
TD-4100N	yes	no	yes
QL-710W	no	no	no
QL-720NW	yes	no	yes
PT-E550W	no	no	no
PT-P750W	no	no	no
MW-145MFi	yes	yes	no
MW-260MFi	yes	yes	no

### 1.2.3. The list of supported model and interface about removing and getting template list

P-touch Template printing and transferring			
Model	USB	BLUETOOTH	NET
MW-140BT	no	no	no
MW-145BT	yes	yes	no
MW-260	yes	yes	no
PJ-522	no	no	no
PJ-523	no	no	no

PJ-520	no	no	no
PJ-560	no	no	no
PJ-562	no	no	no
PJ-563	no	no	no
PJ-622	no	no	no
PJ-623	yes	no	no
PJ-662	no	no	no
PJ-663	yes	no	no
PJ-722	yes	no	no
PJ-723	yes	no	no
PJ-762	yes	yes	no
PJ-763	yes	yes	no
PJ-763MFi	yes	yes	no
PJ-773	yes	no	yes
RJ-4030	yes	* Firmware ver1.2.2 or above	no
RJ-4040	yes	no	yes
RJ-3050	no	* Firmware ver1.1 or above	* Firmware ver1.1 or above
RJ-3150	no	* Firmware ver1.1 or above	* Firmware ver1.1 or above
TD-2020	yes	no	no
TD-2120N	yes	* Firmware ver1.1 or above	yes
TD-2130N	yes	* Firmware ver1.1 or above	yes
TD-4000	yes	no	no
TD-4100N	yes	no	no
QL-710W	no	no	no
QL-720NW	yes	no	yes
PT-E550W	no	no	no
PT-P750W	no	no	no
MW-145MFi	yes	yes	no
MW-260MFi	yes	yes	no

\*Please acquire the latest firmware of each model from Brother Solutions Center



### 1.3. Restrictions

- On Android OS specification, it is not possible to print large pdf file and image file because of insufficient memory error.  
(Info: Over 10MB size pdf file. horizontal and vertical size 2000 - 3000 pixel or over in the case of image. It is depends on Android device. )
- It may not be able to print from some Android device to MW-140BT and MW-260. In that case, it might print when disable Bluetooth PIN code at printer utility.
- Please use a default setting for P-touch Template setting tool when you use P-touch Template printing function.

## 2. How to implement

### 2.1. Add library.

1. Copy the jar files in libs folder of SDK to libs folder of your application folder.
2. Copy the jniLibs folder of SDK to main folder.

#### 2.1.1. Note

1. If you don't need PDF print function, you should delete MobilePrintLib.jar and libAndrJFPDFEMB.so file in the libs folder.
2. When a PDF file is printed using Brother Print SDK, it is printed with the watermark of the evaluation version. Moreover, it is two months during the period which can be used. Function of PDF print becomes invalid when passing two month from first time use (ERROR\_EVALUATION\_TIMEUP will be returned).  
There is no limitation for other function except PDF print.
3. The watermark is not printed if you use Brother PDF Print SDK. Also there is no limitation of two months.

### 2.2. How to use API functions of SDK

#### 2.2.1. Sample code for supporting Bluetooth

Import the library into source code.

```
import com.brother.ptouch.sdk.Printer;  
import com.brother.ptouch.sdk.PrinterInfo;  
import com.brother.ptouch.sdk.PrinterStatus;
```

The sample of print function

```
public void print(){  
    // define printer and printer setting information  
    Printer myPrinter = new Printer();  
    PrinterInfo myPrinterInfo = new PrinterInfo();  
    // Pass Bluetooth adapter to the library (Bluetooth only)  
    BluetoothAdapter bluetoothAdapter = BluetoothAdapter.getDefaultAdapter();  
    myPrinter.setBluetooth(bluetoothAdapter);
```

```
// set printer information
myPrinterInfo = myPrinter.getPrinterInfo();
myPrinterInfo.printerModel = PrinterInfo.Model.PJ_663;
myPrinterInfo.paperSize = PrinterInfo.PaperSize.A4;
myPrinterInfo.orientation = PrinterInfo.Orientation.PORTRAIT;
myPrinterInfo.numberOfCopies = 1;

...

myPrinter.setPrinterInfo(myPrinterInfo);
//print
PrinterStatus printResult = new PrinterStatus();
String filePath = "/mnt/sdcard/ABC.jpeg";
printResult = myPrinter.printFile(filePath);
}
```

## 2.2.2. Sample code for supporting USB

Import the library into source code.

```
import com.brother.ptouch.sdk.Printer;
import com.brother.ptouch.sdk.PrinterInfo;
import com.brother.ptouch.sdk.PrinterStatus;
```

The sample of print function

```
public void print(){
    Printer myPrinter = new Printer();

    //prepare usb connection
    UsbManager usbManager = (UsbManager) getSystemService(Context.USB_SERVICE);
    UsbDevice usbDevice = myPrinter.getUsbDevice(usbManager);
    PendingIntent permissionIntent = PendingIntent.getBroadcast(this, 0, new
        Intent(ACTION_USB_PERMISSION), 0);
    usbManager.requestPermission(usbDevice, permissionIntent);

    //print setting
    printerInfo = myPrinter.getPrinterInfo();
    printerInfo.printerModel = PrinterInfo.Model.PJ_663;
```

```
printerInfo.port = PrinterInfo.Port.USB;
printerInfo.paperSize = PrinterInfo.PaperSize.A4;
printerInfo.orientation = PrinterInfo.Orientation.PORTRAIT;
printerInfo.printMode = PrinterInfo.PrintMode.FIT_TO_PAGE;
printerInfo.numberOfCopies = 1;
printerInfo.halfTone = PrinterInfo.HalfTone.PATTERNDITHER;
myPrinter.setPrinterInfo(printerInfo);

//print
printResult = new PrinterStatus();
printResult = myPrinter.printFile("/mnt/sdcard/ABC.jpg");
}
```

For more details, please check the source code of sample application and Android Developers site.

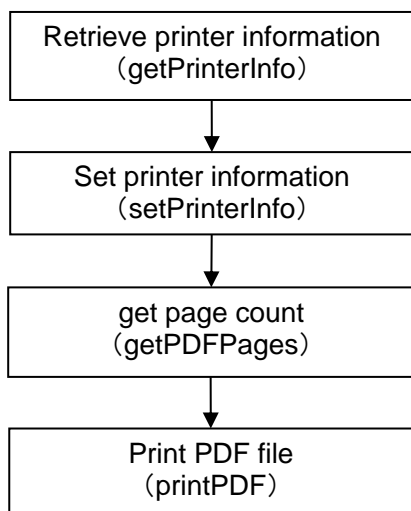
### 2.2.3. About using multi-thread

If you call API function (which is followed by \* in the API list) in a thread, please do not call it simultaneously in other threads before it finishes. The printer cannot accept two connect requests at the same time.

### 3. Processing Flow

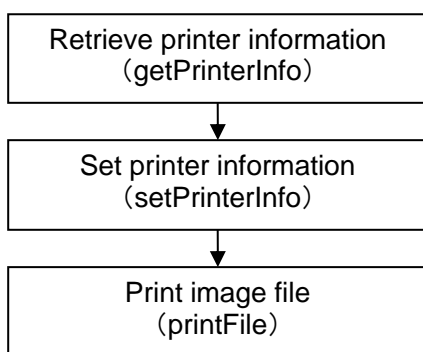
Outline a general flow of print processing.

#### 3.1. Processing Flow of Printing PDF File



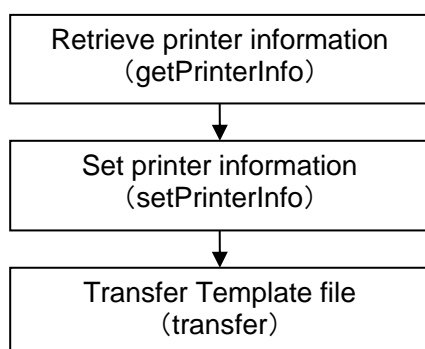
[Refer to 3.6 for multiple printing.](#)

#### 3.2. Processing Flow of Printing Image File



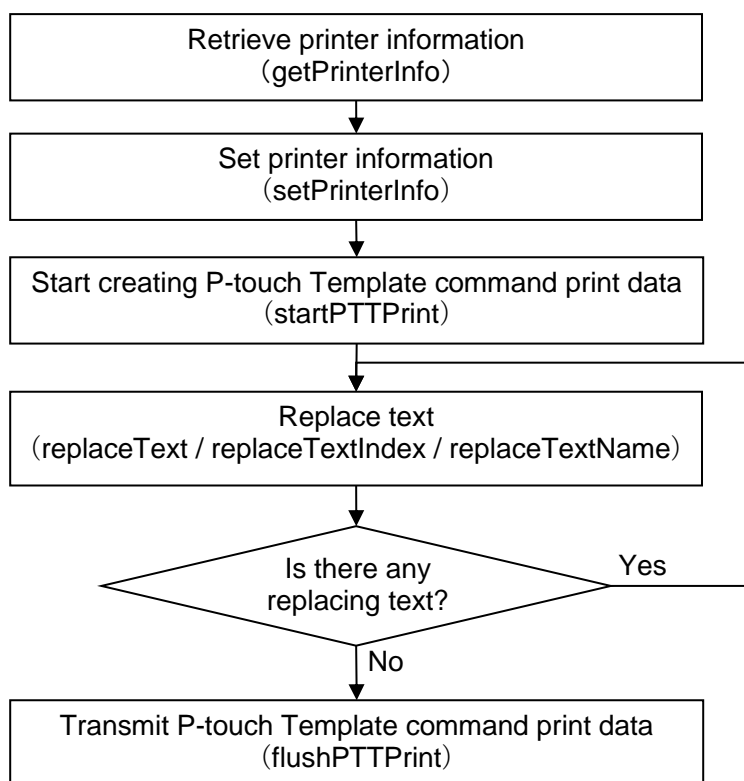
[Refer to 3.6 for multiple printing.](#)

### 3.3. Processing Flow of Transferring Template file



[Refer to 3.6 for multiple transferring.](#)

### 3.4. Processing Flow of Printing P-touch Template



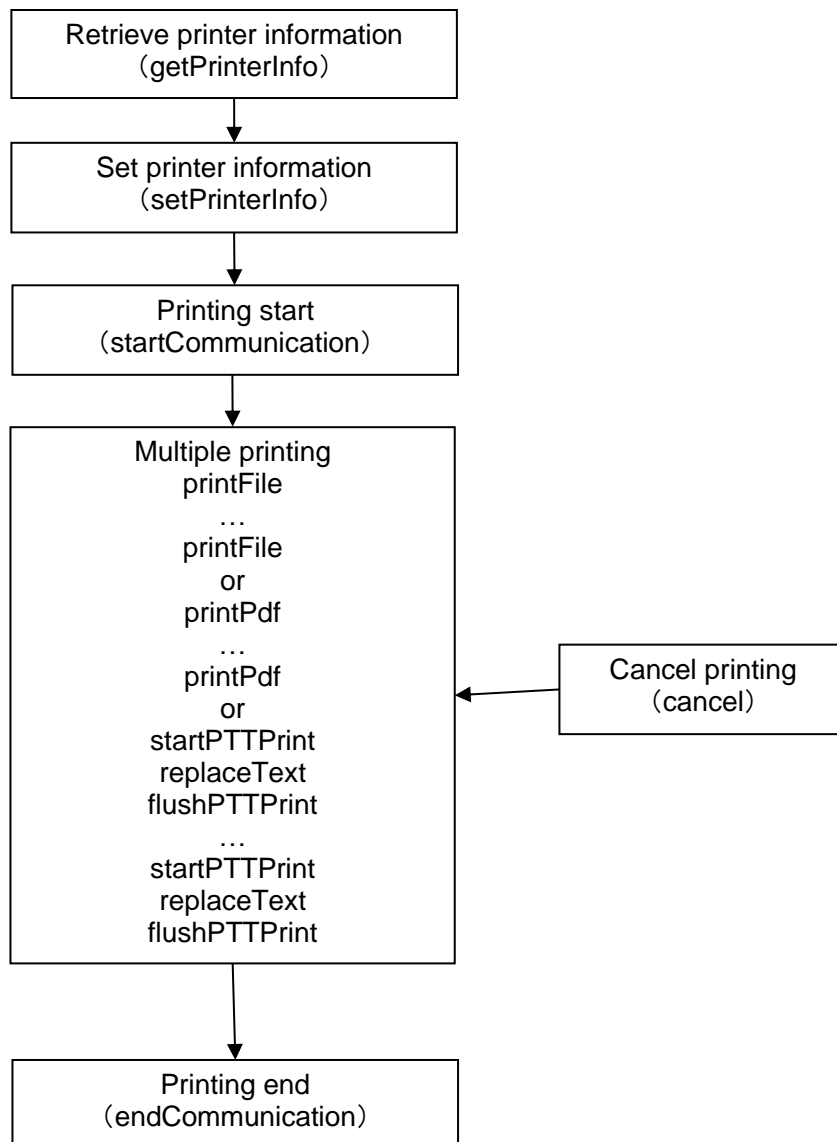
[Refer to 3.6 for multiple printing.](#)

### 3.5. About P-touch Template Print

For more details, please refer to P-touch Template Manual / Command Reference.  
They can be downloaded in Manual page of each printer model.

The entrance site is: [http://welcome.solutions.brother.com/bsc/public\\_s/index.html](http://welcome.solutions.brother.com/bsc/public_s/index.html)

### 3.6. Processing Flow of Multiple Printing and Cancel



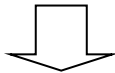
### 3.7.How to revise from Brother Print SDK 2.6

If you have created project by Brother Print SDK 2.6, please revise your code referring to the following examples. You can check more details from source code in sample application.

#### 3.7.1.boolean setLabelInfo(LabelInfo)

SDK2.6

```
Printer myPrinter = new Printer();  
LabelInfo label = new LabelInfo()  
labelInfo.labelNameIndex = 1;  
labelInfo.isAutoCut=true;  
labelInfo.isEndCut=true;  
labelInfo.isHalfCut=true;  
labelInfo.isSpecialTape= false;  
...  
myPrint.setLabelInfo(label)
```



SDK3.0.1

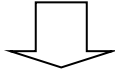
```
Printer myPrinter = new Printer();  
PrinterInfo myPrinterInfo = new PrinterInfo();  
myPrinterInfo.labelNameIndex = 1;  
myPrinterInfo.isAutoCut=true;  
myPrinterInfo.isCutAtEnd=true;  
myPrinterInfo.isHalfCut=true;  
myPrinterInfo.isSpecialTape= false;  
...  
myPrinter.setPrinterInfo(myPrinterInfo);
```



### 3.7.2. boolean setCustomPaper(Model printerModel, String filePath)

SDK2.6

```
Printer myPrinter = new Printer();  
myPrint.setCustomPaper(Model.RJ_4030,"temp.bin")  
...
```



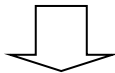
SDK3.0.1

```
Printer myPrinter = new Printer();  
PrinterInfo myPrinterInfo = new PrinterInfo();  
...  
myPrinterInfo.customPaper = "temp.bin";  
myPrinter.setPrinterInfo(myPrinterInfo);
```

### 3.7.3. int checkLabelInPrinter()

SDK2.6

```
Printer myPrinter = new Printer();  
int labelId = myPrint.checkLabelInPrinter()  
...
```



SDK3.0.1

```
Printer myPrinter = new Printer();  
PrinterInfo myPrinterInfo = new PrinterInfo();  
...  
myPrinter.setPrinterInfo(myPrinterInfo);  
LabelInfo label = myPrinter.getLabelInfo();  
...
```

## 4. API Reference

### 4.1. com.brother.ptouch.sdk.Printer class

#### 4.1.1. Public Method List

Setting methods	
<a href="#">LabelParam</a>	<a href="#">getLabelParam()</a> Returns size information of QL, PT, TD and RJ roll. Call it after setPrinterInfo().
<a href="#">NetPrinter[]</a>	<a href="#">getNetPrinters</a> (String modelName) Returns the information (model name, node name, serial number, IP address and MAC address) of the printers connected to Wi-Fi access point.
<a href="#">NetPrinter[]</a>	<a href="#">getNetPrinters</a> (String[] modelNameList) Returns the information of the listed printers connected to Wi-Fi access point.
<a href="#">PrinterInfo</a>	<a href="#">getPrinterInfo()</a> Returns the printer information.
<a href="#">PrinterStatus</a>	<a href="#">getPrinterStatus()</a> * Returns the printer status.
boolean	<a href="#">setPrinterInfo</a> ( <a href="#">PrinterInfo</a> printerInfo) Sets the printer information.
<a href="#">LabelInfo</a>	<a href="#">getLabelInfo()</a> * Returns the label information. (only for QL and PT)
void	<a href="#">setBluetooth</a> (BluetoothAdapter bluetoothAdapter) Passes Bluetooth adapter to the library (Bluetooth only).
void	<a href="#">setMessageHandle</a> (Handler handler, int MsgType) Passes message handler to the library (if you want to use the messages from the library).
UsbDevice	<a href="#">getUsbDevice</a> (UsbManager usbManager) Get a connected USB device.(only for USB)
boolean	<a href="#">startCommunication</a> () Multiple printing or transferring starts. Must be used with endCommunication().
boolean	<a href="#">endCommunication</a> () Multiple printing or transferring ends. Must be used with

	<code>startCommunication()</code> .
boolean	<code><a href="#">cancel()</a></code> Cancel printing which is invalid during sending data.

Printing methods of file and image object	
int	<code><a href="#">getPDFFilePages</a>(String filepath)</code> Returns page count of the pdf file. Android 5.0 or later
int	<code><a href="#">getPDFPages</a>(String filepath)</code> Returns page count of the pdf file.
<a href="#">PrinterStatus</a>	<code><a href="#">printPDFFile</a>(String filepath, int pagenum)*</code> Prints a selected page of the pdf file. Android 5.0 or later
<a href="#">PrinterStatus</a>	<code><a href="#">printPDF</a>(String filepath, int pagenum)*</code> Prints a selected page of the pdf file.
<a href="#">PrinterStatus</a>	<code><a href="#">printFile</a>(String filepath) *</code> Prints a file (Image file: bmp, jpg, png, Print file: prn).
<a href="#">PrinterStatus</a>	<code><a href="#">printImage</a>(Bitmap object) *</code> Prints a bitmap object.

Printing and transferring methods of P-touch Template	
boolean	<code><a href="#">startPTTPrint</a>(int key, String encode)</code> Starts creating the print data for P-touch Template.
boolean	<code><a href="#">replaceText</a>(String data)</code> Replaces a text in P-touch Template.
boolean	<code><a href="#">replaceTextIndex</a>(String data, int index)</code> Replaces a text in P-touch Template (specified by the object number).
boolean	<code><a href="#">replaceTextName</a>(String data, String objName)</code> Replaces text in P-touch Template (specified by the object name).
<a href="#">PrinterStatus</a>	<code><a href="#">flushPTTPrint</a>()*</code> Transmits print data for P-touch Template.
<a href="#">PrinterStatus</a>	<code><a href="#">transfer</a>(String filepath) *</code> Transfers a template file (*.pdz, *.blf) to the printer The template file (*.pdz, *.blf) is created by P-touch Transfer Manager which is Windows application.

	The pdz file is for USB and Bluetooth, and the blf file is for Wi-Fi. <a href="#">Refer to 1.2.2 about supported printer and interface.</a>
<a href="#">PrinterStatus</a>	<a href="#">removeTemplate</a> (List<Integer> keyList)* Removes templates in the printer. <a href="#">Refer to 1.2.3 about supported printer and interface.</a>
<a href="#">PrinterStatus</a>	<a href="#">getTemplateList</a> (List< <a href="#">TemplateInfo</a> > tmpList)* Get the template list in the printer. <a href="#">Refer to 1.2.3 about supported printer and interface.</a>

\*Do not call the function in other threads at the same time.

#### 4.1.2. Method details

4.1.2.1. boolean setPrinterInfo([PrinterInfo](#) printerInfo)

##### [Interpretation]

Sets the printer information.

##### [Argument]

printerInfo: Printer information class

##### [Return value]

true: Success  
false: Failed

##### [Reference]

[Processing Flow of Printing File](#)

4.1.2.2. void setBluetooth(BluetoothAdapter bluetoothAdapter)

##### [Interpretation]

Passes Bluetooth adapter to the library (Bluetooth only).

##### [Argument]

bluetoothAdapter: Bluetooth adapter

##### [Return value]

None

4.1.2.3. void setMessageHandle(Handler handler, int MsgType)

##### [Interpretation]

Passes message handler to the library (if you want to use the messages from the library).

**[Argument]**

Handler: Message handler

MsgType: Identifies the messages

**[Return value]**

None

4.1.2.4. [PrinterInfo](#) getPrinterInfo()

**[Interpretation]**

Returns the printer information which is currently set.

**[Argument]**

None

**[Return value]**

[Printer information](#)

4.1.2.5. [PrinterStatus](#) getPrinterStatus ()

**[Interpretation]**

Returns the printer status which is currently set.

**[Argument]**

None

**[Return value]**

[Printer status](#)

4.1.2.6.int getPDFFilePages(String filepath)

**[Interpretation]**

Using standard API, returns page count of the selected pdf file. Android 5.0 or later.

**[Argument]**

filepath: File path

**[Return value]**

Page count

**[Reference]**

[Processing Flow of Printing PDF File](#)

#### 4.1.2.7. int getPDFPages(String filepath)

**[Interpretation]**

Returns page count of the selected pdf file.

**[Argument]**

filepath: File path

**[Return value]**

Page count

**[Reference]**

[Processing Flow of Printing PDF File](#)

#### 4.1.2.8. [PrinterStatus](#) printPDFFile(String filepath, int pagenum)

**[Interpretation]**

Using standard API, prints a selected page of the pdf file. Android 5.0 or later.

**[Argument]**

filepath: File path

pagenum: Page number

**[Return value]**

[Printer status](#)

**[Reference]**

[PDF File Print Processing Flow](#)

#### 4.1.2.9. [PrinterStatus](#) printPDF(String filepath, int pagenum)

**[Interpretation]**

Prints a selected page of the pdf file.

**[Argument]**

filepath: File path

pagenum: Page number

**[Return value]**

[Printer status](#)

**[Reference]**

[PDF File Print Processing Flow](#)

#### 4.1.2.10. [PrinterStatus](#) printFile(String filepath)

**[Interpretation]**

Prints a selected file (Image file: jpg, png, bmp, Print file: prn).

**[Argument]**

filepath: File path

**[Return value]**

[Printer status](#)

**[Reference]**

[Processing Flow of Printing Image File](#)

**[Note]**

To send P-touch Template commands or ESC/P commands as a prn file, status request command needs to be added at the end of the file body.

#### 4.1.2.11. PrinterStatus printImage(Bitmap object)

**[Interpretation]**

Prints a bitmap object

**[Argument]**

object: Bitmap object

**[Return value]**

[Printer status](#)

**[Reference]**

[Processing Flow of Printing Image File](#)

#### 4.1.2.12. boolean startPTTPrint(int key, String encode)

**[Interpretation]**

Start creating the print data for P-touch Template.

Specify a template and the encode type.

Please refer to [Processing Flow of Printing P-touch Template](#).

Please use default setting in P-touch Template Setting Tool.

It may not be able to print from this SDK if you change the settings.

**[Argument]**

key: Key number assigned to the Template.

encode: "SJIS" is specified for printer model with Japanese font.

“GB18030” is specified for printer model with Chinese font.  
null is for the others.

**[Return value]**

true: Success  
false: Failed

**[Reference]**

[Processing Flow of Printing P-touch Template](#)

4.1.2.13. boolean replaceText(String data)

**[Interpretation]**

Replaces text in P-touch Template.  
Texts are replaced in order of small object number.

**[Argument]**

data: Replacing text

**[Return value]**

true: Success  
false: Failed

**[Reference]**

[Processing Flow of Printing P-touch Template](#)

4.1.2.14. boolean replaceTextIndex(String data, int index)

**[Interpretation]**

Replaces text in P-touch Template (specified by the object number).  
The text specified by the object number is replaced.

**[Argument]**

data: Replacing text.  
index: Object number to replace the text.

model	Object number
MW-145BT/MW-260	1 - 50
PJ-663	1 - 200
TD and RJ series	1 - 99
PJ-7xx	1 - 255

**[Return value]**

true: Success



false: Failed

**[Reference]**

[Processing Flow of Printing P-touch Template](#)

4.1.2.15. `boolean replaceTextName(String data, String objectName)`

**[Interpretation]**

Replaces text in P-touch Template (specified by the object name).  
The text specified by the object name is replaced.

**[Argument]**

data: Replacing text.  
objectName: Object name to replace the text.

**[Return value]**

true: Success  
false: Failed

**[Reference]**

[Processing Flow of Printing P-touch Template](#)

4.1.2.16. `PrinterStatus flushPTTPrint()`

**[Interpretation]**

Transmits print data for P-touch Template.

**[Argument]**

None

**[Return value]**

[Printer status](#)

**[Reference]**

[Processing Flow of Printing P-touch Template](#)

4.1.2.17. `NetPrinter[] getNetPrinters(String modelName)`

**[Interpretation]**

Returns the information (model name, node name, serial no., IP address, MAC address) of the printers connected to Wi-Fi access point.

**[Argument]**

modelName: Printer model name

**[Return value]**

Net printer list

4.1.2.18. [NetPrinter\[\]](#) getNetPrinters(String modelName[])

**[Interpretation]**

Returns the information (model name, node name, serial no., IP address, MAC address) of the listed printers connected to Wi-Fi access point.

**[Argument]**

modelName[]: A list of printer model name.

**[Return value]**

Net printer list

4.1.2.19. [PrinterStatus](#) transfer(String filePath)

**[Interpretation]**

Transfers a template file (\*.pdz) to the printer via Bluetooth.

**[Argument]**

filePath: Template file path.

**[Return value]**

[Printer status](#)

**[Reference]**

[Processing Flow of Printing P-touch Template](#)

**[Note]**

Don't use 2-byte characters for the file name of the LBX file for creating a pdz file.

4.1.2.20. [PrinterStatus](#) getTemplateList(List<[TemplateInfo](#)> tmpList)

**[Interpretation]**

Gets the list of templates in the printer.

**[Argument]**

tmpList: List of acquired template information.

**[Return value]**

[Printer status](#)

If the template does not exist in the printer, ERROR\_TEMPLATE\_NOT\_EXIST returns.

**[Note]**

The list may not be acquired by the combination of the number of contents, printer and the

interface. [Refer to 1.2.3. The list of supported model and interface about removing and getting template list.](#)

4.1.2.21. [PrinterStatus](#) removeTemplate(List<Integer> keyList)

**[Interpretation]**

Removes templates in the printer.

**[Argument]**

keyList: List of template IDs to be removed.

**[Return value]**

[Printer status](#)

**[Note]**

The list may not be acquired by the combination of the number of contents, printer and the interface. [Refer to 1.2.3. The list of supported model and interface about removing and getting template list.](#)

4.1.2.22. [LabelParam](#) getLabelParam()

**[Interpretation]**

Returns size information of TD and RJ roll.  
Call it after setCustomPaper().

**[Argument]**

None

**[Return value]**

[LabelParam](#)

**[Reference]**

None

4.1.2.23. [UsbDevice](#) getUsbDevice(UsbManager usbManager)

**[Interpretation]**

Get a connected USB device.

**[Argument]**

usbManager: android.hardware.usb.UsbManager

**[Return value]**

UsbDevice: UsbDevice of Brother printer.

Null means no supported Brother printer is found.

**[Reference]**

None

4.1.2.24. boolean startCommunication()

**[Interpretation]**

Multiple printing or transferring starts. Must be used with endCommunication().

**[Argument]**

None

**[Return value]**

True is always returned.

**[Reference]**

[Processing Flow of Multiple Printing and Cancel](#)

4.1.2.25. boolean endCommunication()

**[Interpretation]**

Multiple printing or transferring ends. Must be used with startCommunication().

**[Argument]**

None

**[Return value]**

True is always returned.

**[Reference]**

[Processing Flow of Multiple Printing and Cancel](#)

4.1.2.26. boolean cancel()

**[Interpretation]**

Cancel printing which is invalid during sending data.

**[Argument]**

None

**[Return value]**

True is always returned.

**[Reference]**

[Processing Flow of Multiple Printing and Cancel](#)

4.1.2.27. [LabelInfo](#).getLabelInfo()

**[Interpretation]**

Get label information (size, background color, print color) in the printer (only for PT).

**[Argument]**

None

**[Return value]**

LabelInfo: LabelInfo class

**[Reference]**

None

## 4.2. com.brother.ptouch.sdk.PrinterInfo Class

### 4.2.1. Member Variable

Field		
Type	Variable Name	Detail
<a href="#">Model</a>	printerModel	Printer model
<a href="#">Port</a>	port	Interface
String	ipAddress	IP address (detail in <a href="#">4.2.2.3</a> )
String	macAddress	Mac address (detail in <a href="#">4.2.2.3</a> )
<a href="#">PaperSize</a>	paperSize	Paper size
int	numberOfCopies	Number of copies to print
<a href="#">Orientation</a>	orientation	Paper orientation of image printing *This option is invalid for PDF printing..
<a href="#">PrintMode</a>	printMode	Print mode of image printing
double	scaleValue	Scale value when printMode is set to [SCALE]
<a href="#">Halftone</a>	halftone	Method of changing monochrome
int	thresholdingValue	The threshold value when halftone is set to [Threshold] Set value: from 0 to 255, 255 if the set value is larger. Default: 127
<a href="#">Align</a>	align	Horizontal alignment of image printing *This option is invalid for PDF printing..
<a href="#">VAlign</a>	valign	Vertical alignment of image printing *This option is invalid for PDF printing..
<a href="#">Margin</a>	margin	Margins of image printing
boolean	pjCarbon	Setting carbonpaper mode for Pocket Jet printer true: carbon, false: not carbon
int	pjDensity	Setting density for Pocket Jet printer(TD-2xxx and RJ series) Set value: from 0 (light) to 10 (dark) Default value: 5
<a href="#">PjFeedmode</a>	pjFeedmode	Setting paper feed mode for Pocket Jet printer
int	customPaperWidth	Setting width of custom paper (Pocket Jet only) Set value: must be multiple of 8 Max: 2464 dots Place to insert paper: by the leftmost line of LTR

int	CustomPaperlength	Setting length of custom paper (Pocket Jet only) Max: 65535 dots Min: 200 dots
int	customFeed	Setting length of feeding paper (Pocket Jet only and PJ_FEED_MODE_FIXEDPAGE only) Available only PJ_FEED_MODE_FIXEDPAGE is set. Max: 65535 dots – print dots Minus will be ignored
int	pjSpeed	Adjusting speed for PJ-7xx Set value: from 0(fast) to 3 (slow), 3 if the set value is more than 4 Default: 2
<a href="#">PjRollCase</a>	rollPrinterCase	Setting roll printer case for PJ-7xx *By setting this option, it automatically feeds the paper to the cut position of the roll printer case.
int	rjDensity	Adjusting density for RJ/TD printer Set value: from -5(light) to 5 (dark)
boolean	rotate180	Rotate 180 degrees (TD-2xxx and RJ-3xxx)
boolean	peelMode	In using label peeler (only for TD with label peeler and RJ-3150)
<a href="#">Align</a>	paperPosition	Feed position of custom paper Valid only custom paper is used with PJ Series
boolean	isAutoCut	Setting auto cut mode (QL/PT/TD-4xxx) True: auto cut valid
boolean	isEndCut	Setting end cut mode (QL/PT/TD-4xxx) True: end cut valid
boolean	isSpecialTape	Setting special tape mode for PT. (only PT series) Cut option is cancelled if special tape mode is enabled. True: special tape valid
boolean	isHalfCut	Setting half cut mode for PT. (only PT series) True: half cut valid
boolean	mode9	Setting mode9 compression of print data for PJ-7xx True: valid, False: invalid
boolean	skipStatusCheck	Skipping status check before printing. True: check, False: skip

String	savePrnPath	Designates the save location of the print data. Printing is carried out when savePrnPath is null, and saving is carried out without being printed when savePrnPat is file path . If there is no folder, print method will return the error. Indicate the absolute path name.
boolean	overwrite	Enabling overwrite for saveFilePath. When you print multiple pages, set this option to false. True: overwrite, False: append
int	labelNameIndex	Index number of label defined by enum type of label (QL/PT)

## 4.2.2. Details of Member Variable

### 4.2.2.1. Model

Printer Model

[Refer to 1.2.1. The list of supported model and interface about file printing.](#)

[Refer to 1.2.2. The list of supported model and interface about P-touch Template printing and transferring](#)

[Refer to 1.2.3. The list of supported model and interface about removing and getting template list.](#)

### 4.2.2.2. Port

Interface

[Refer to 1.2.1. The list of supported model and interface about file printing.](#)

[Refer to 1.2.2. The list of supported model and interface about P-touch Template printing and transferring](#)

[Refer to 1.2.3. The list of supported model and interface about removing and getting template list.](#)

### 4.2.2.3. How to set IP address and MAC address

#### Print by Bluetooth

Search the printer which matches the Mac address from Bluetooth paired printer list to print.  
If there is no match printer, it results in error of no printer found.



Print by Wi-Fi	
Set both MAC address and IP address	Search the printer which matches both Mac address and IP address from printer list connected with Wi-Fi access point to print. If there is no match printer, it results in error of ERROR_NO_MATCH_ADDRESS.
Set IP address and do not set MAC address	Search the printer which matches IP address from printer list connected with Wi-Fi access point to print.
Set MAC address and do not set IP address	Search the printer which matches MAC address from printer list connected with Wi-Fi access point to print.
Do not set both MAC address and IP address	It results in error of ERROR_NO_ADDRESS.

Set address: sets PrinterInfo.macAddress or PrinterInfo.ipAddress by address characters.

Do not set address: sets PrinterInfo.macAddress or PrinterInfo.ipAddress by null characters.

#### 4.2.2.4. PaperSize

Paper size

enum PaperSize	
CUSTOM	CUSTOM
A7	A7
A6	A6
A4	A4
A5	A5
A5_LANDSCAPE	A5 Landscape
LETTER	Letter
LEGAL	Legal

#### 4.2.2.5. Orientation

Paper orientation of image printing

enum Orientation	
PORTRAIT	Portrait
LANDSCAPE	Landscape

This option is invalid for PDF printing.

#### 4.2.2.6. PrintMode

Print mode of image printing

enum PrintMode	
ORIGINAL	Dot by dot *It may be able to insufficient memory error when the image size is large.
FIT_TO_PAGE	Fit to paper size *It is automatically reduced the size of image when the image size is large.
SCALE	Printing scale of the image *It may cause an insufficient memory error when the image size is larger than the print size and margins.

#### 4.2.2.7. Halftone

Method of changing monochrome

enum Halftone	
THRESHOLD	Threshold
PATTERNDITHER	Pattern dither
ERRORDIFFUSION	Error diffusion

#### 4.2.2.8. Align

Horizontal alignment of image printing

enum Align	
LEFT	Aligns to the left
CENTER	Aligns to the center
RIGHT	Aligns to the right

#### 4.2.2.9. VAlign

Vertical alignment of image printing

enum VAlign	
TOP	Aligns to the top
MIDDLE	Aligns to the center

BOTTOM	Aligns to the bottom
--------	----------------------

\*PDF print is invalid. It automatically fit to the paper, and prints it.

#### 4.2.2.10. Margin

Margins of image printing

Field		
public int	left	Light margin (Unit of dot) *Effective when <a href="#">Align</a> is only LEFT
public int	top	Top margin (Unit of dot) *Effective when <a href="#">VAlign</a> is only TOP

\*PDF print is invalid. It automatically fit to the paper, and prints it.

#### 4.2.2.11. PjFeedmode

Set paper feed mode

enum PjFeedmode	
PJ_FEED_MODE_FREE	No feed (Roll paper)
PJ_FEED_MODE_FIXEDPAGE	Fixed page size feed (Roll paper)
PJ_FEED_MODE_ENDOFPAGE	A page feed (Cut paper)
PJ_FEED_MODE_ENDOFPAGERETRACT	A page feed (Roll paper with mark) Latter size only

#### 4.2.2.12. PjRollCase

Set roll printer case

enum PjRollCase	
PJ_ROLLCASE_OFF	OFF (No roll printer case used)
PJ_ROLLCASE_WITHOUT_ANTI_CURL	ON (without Anti Curl)
PJ_ROLLCASE_ON	ON (with Anti Curl)

#### 4.2.2.13. Error Code

enum ErrorCode	
ERROR_NONE	No errors
ERROR_NOT_SAME_MODEL	Error: Found a different type of printer
ERROR_BROTHER_PRINTER_NOT_FO	Error: Cannot find a Brother printer

UND	
ERROR_PAPER_EMPTY	Error: Paper empty
ERROR_BATTERY_EMPTY	Error: Battery weak
ERROR_COMMUNICATION_ERROR	Error: Failed to retrieve printer status
ERROR_OVERHEAT	Error: Overheat error
ERROR_PAPER_JAM	Error: Paper Jam
ERROR_HIGH_VOLTAGE_ADAPTER	Error: High-voltage adaptor
ERROR_CHANGE_CASSETTE	Error: Cassette-change during printing
ERROR_FEED_OR_CASSETTE_EMPTY	Error: Feed error or paper empty
ERROR_SYSTEM_ERROR	Error: System error
ERROR_NO_CASSETTE	Error: No paper-cassette
ERROR_WRONG_CASSETTE_DIRECT	Error: Wrong paper-cassette direction
ERROR_CREATE_SOCKET_FAILED	Error: Failed to create socket
ERROR_CONNECT_SOCKET_FAILED	Error: Failed to connect *1
ERROR_GET_OUTPUT_STREAM_FAILED	Error: Failed to retrieve output stream
ERROR_GET_INPUT_STREAM_FAILED	Error: Failed to retrieve input stream
ERROR_CLOSE_SOCKET_FAILED	Error: Failed to close socket
ERROR_OUT_OF_MEMORY	Error: Insufficient memory *2
ERROR_SET_OVER_MARGIN	Error: Over set margin *3
ERROR_NO_SD_CARD	Error: No SD card
ERROR_FILE_NOT_SUPPORTED	Error: Non supported file
ERROR_EVALUATION_TIMEUP	Error: Expired trial period for PDF printing
ERROR_WRONG_CUSTOM_INFO	Error: Wrong information in custom paper setting file
ERROR_NO_ADDRESS	Error: not set IP and MAC address
ERROR_NO_MATCH_ADDRESS	Error: IP and Mac address is not match for selected printer
ERROR_FILE_NOT_FOUND	Error: File do not exist
ERROR_TEMPLATE_FILE_NOT_MATCH_MODEL	Error: Template file is not a match for selected printer
ERROR_TEMPLATE_NOT_TRANS_MODEL	Error: Selected printer model do not support Template transmission
ERROR_COVER_OPEN	Error: The cover is open (RJ/TD/PT-E550W)
ERROR_WRONG_LABEL	Error: Wrong roll or wrong label

ERROR_PORT_NOT_SUPPORTED	Error: Unsupported interface
ERROR_WRONG_TEMPLATE_KEY	Error: No file specified by the template key exists
ERROR_CANCEL	Error: printing is cancelled
ERROR_TEMPLATE_NOT_PRINT_MODEL,	Error: Selected printer model do not support Template print
ERROR_BUSY	Error: Busy (PT/RJ-3xxx/TD-4xxx)
ERROR_PRINTER_SETTING_NOT_SUPPORTED	Error: Device setting is not supported on the selected printer.
ERROR_INTERNAL_ERROR	Error: Internal error
ERROR_INVALID_PARAMETER	Error: Invalid parameter is set
ERROR_TEMPLATE_NOT_CONTROL_MODEL	Error: Selected model does not support removing templates / getting the template list
ERROR_TEMPLATE_NOT_EXIST	Error: Template in the printer does not exist

\*1 It may be able to resolve when you set disable PIN code for MW-140BT and MW-260.

\*2 Image size as a small when printing image.

\*3 Change margin set value as a small or image size as a small.

#### 4.2.2.14. Msg

##### Message

This library sends following message when performing print process.

Please use the following messages as necessary if you want to display progress situation and so on.

(It is not a problem whether you use the following messages or not.)

enum Msg	
MESSAGE_START_COMMUNICATION	Communication start
MESSAGE_START_CONNECT	Start connecting socket
MESSAGE_END_CONNECTED	Success socket connection
MESSAGE_START_GET_OUTPUT_STREAM	Start retrieving output stream
MESSAGE_END_GET_OUTPUT_STREAM	Finish retrieving output stream
MESSAGE_START_GET_INPUT_STREAM	Start retrieving input stream
MESSAGE_END_GET_INPUT_STREAM	Finish retrieving input stream

MESSAGE_START_SEND_STATUS_REQUEST	Start transmitting status request
MESSAGE_END_SEND_STATUS_REQUEST	Finish transmitting status request
MESSAGE_START_READ_PRINTER_STATUS	Start receiving printer status
MESSAGE_END_READ_PRINTER_STATUS	Finish receiving printer status
MESSAGE_START_CREATE_DATA	Start creating data
MESSAGE_END_CREATE_DATA	Finish creating data
MESSAGE_START_SEND_DATA	Start transmitting data
MESSAGE_END_SEND_DATA	Finish transmitting data
MESSAGE_START_SEND_TEMPLATE	Start transmitting template file
MESSAGE_END_SEND_TEMPLATE	Finish transmitting template file
MESSAGE_START_SOCKET_CLOSE	Start cutting off socket
MESSAGE_END_SOCKET_CLOSE	Finish cutting off socket
MESSAGE_PRINT_COMPLETE	Print success
MESSAGE_PRINT_ERROR	An error occurred
MESSAGE_PAPER_EMPTY	Paper empty
MESSAGE_END_COMMUNICATION	Communication finish
MESSAGE_START_COOLING	Cooling start
MESSAGE_END_COOLING	Cooling end
MESSAGE_WAIT_PEEL	Wait for peeling label
MESSAGE_START_UPDATE_BLUETOOTH_SETTING,	Start updating Bluetooth setting
MESSAGE_END_UPDATE_BLUETOOTH_SETTING,	End updating Bluetooth setting
MESSAGE_START_GET_BLUETOOTH_SETTING,	Start getting Bluetooth setting
MESSAGE_END_GET_BLUETOOTH_SETTING,	End getting Bluetooth setting
MESSAGE_START_GET_TEMPLATE_LIST,	Start getting the template list
MESSAGE_END_GET_TEMPLATE_LIST	End getting the template list
MESSAGE_START_REMOVE_TEMPLAT	Start removing templates

E_LIST,	
MESSAGE_END_REMOVE_TEMPLATE_ LIST	End removing templates

\*For more details, please refer to source code of sample application.

### 4.3. com.brother.ptouch.sdk.PrinterStatus Class

Fields		
Type	Variable Name	Detail
<a href="#">ErrorCode</a>	errorCode	Error code
int	batteryLevel	<a href="#">Battery level</a>

#### 4.3.1. Battery Level

Printer	Detail
MW-140BT TD-4xxx QL Series	-1: Not supported, -1 is always returned.
MW-260	-1: Failed to retrieve battery level 0 (empty) ~ 100 (full)
MW-145BT	-1: Failed to retrieve battery level 1: Battery weak 2: Battery middle 3: Battery full
PJ Series	-1: Failed to retrieve battery level 0: Full charge by lithium-ion battery or connecting AC adapter 1: Battery weak 2: Battery middle 3: Battery full
RJ Series PJ-7xx TD-2xxx PT-E550W PT-P750W	-1: Failed to retrieve battery level 4: AC adapter Dry battery 3: need charge 2: Battery weak 1: Battery middle 0: Battery full

#### 4.4. com.brother.ptouch.sdk.NetPrinter Class

Fields		
Type	Variable Name	Detail
String	modelName	Model name
String	serNo	Serial number
String	ipAddress	IP address
String	macAddress	MAC address “.”(colon) instead of “-”(hyphen) should be used as delimiter of MAC address. Example: 01:23:45:67:89:AB
String	nodeName	Node name

#### 4.5. com.brother.ptouch.sdk.LabelParam Class

Fields		
Type	Variable Name	Detail
float	paperWidth	Width of label (mm)
float	paperLength	Length of label (mm)
int	imageAreaWidth	Width of printable area (dot)
int	imageAreaLength	Length of printable area (dot)

#### 4.6. com.brother.ptouch.sdk.LabelInfo Class

Fields		
Type	Variable Name	Detail
int	labelNameIndex	Index number of label Which is defined by enum type of label
<a href="#">LabelColor</a>	labelColor	Background color of a label for PT (read-only)
<a href="#">LabelColor</a>	labelFontColor	Print color of a label for PT (read-only)

enum QL700	
W17H54	17mm * 54mm
W17H87	17mm * 87mm



W23H23	23mm * 23mm
W29H42	29mm * 42mm
W29H90	29mm * 90mm
W38H90	38mm * 90mm
W39H48	39mm * 48mm
W52H29	52mm * 29mm
W62H29	62mm * 29mm
W62H100	62mm * 100mm
W12	12mm
W29	29mm
W38	38mm
W50	50mm
W54	54mm
W62	62mm
W60H86	60mm * 86mm

enum PT	
W3_5	3.5mm
W6	6mm
W9	9mm
W12	12mm
W18	18mm
W24	24mm
HS_W6	Heat shrink5.8mm
HS_W9	Heat shrink8.8mm
HS_W12	Heat shrink11.7mm
HS_W18	Heat shrink17.7mm
HS_W24	Heat shrink23.6mm

#### 4.6.1.LabelColor

Background color of a label

**enum LabelColor**

WHITE
OTHERS
RED
BLUE
YELLOW
GREEN
BLACK
CLEAR
CLEAR_WHITE
MATTE_WHITE
MATTE_CLEAR
MATTE_SILVER
SATIN_GOLD
SATIN_SILVER
BLUE_WHITE
RED_WHITE
FLOURESCENT_ORANGE
FLOURESCENT_YELLOW
BERRY_PINK
LIGHT_GLAY
LIME_GREEN
FABRIC_YELLOW
FABRIC_PINK
FABRIC_BLUE
TUBE_WHITE
SELF_WHITE
FLEXIBLE_WHITE
FLEXIBLE_YELLOW
STENCIL
CLEANING
UNSUPPORT

Print color of a label for PT

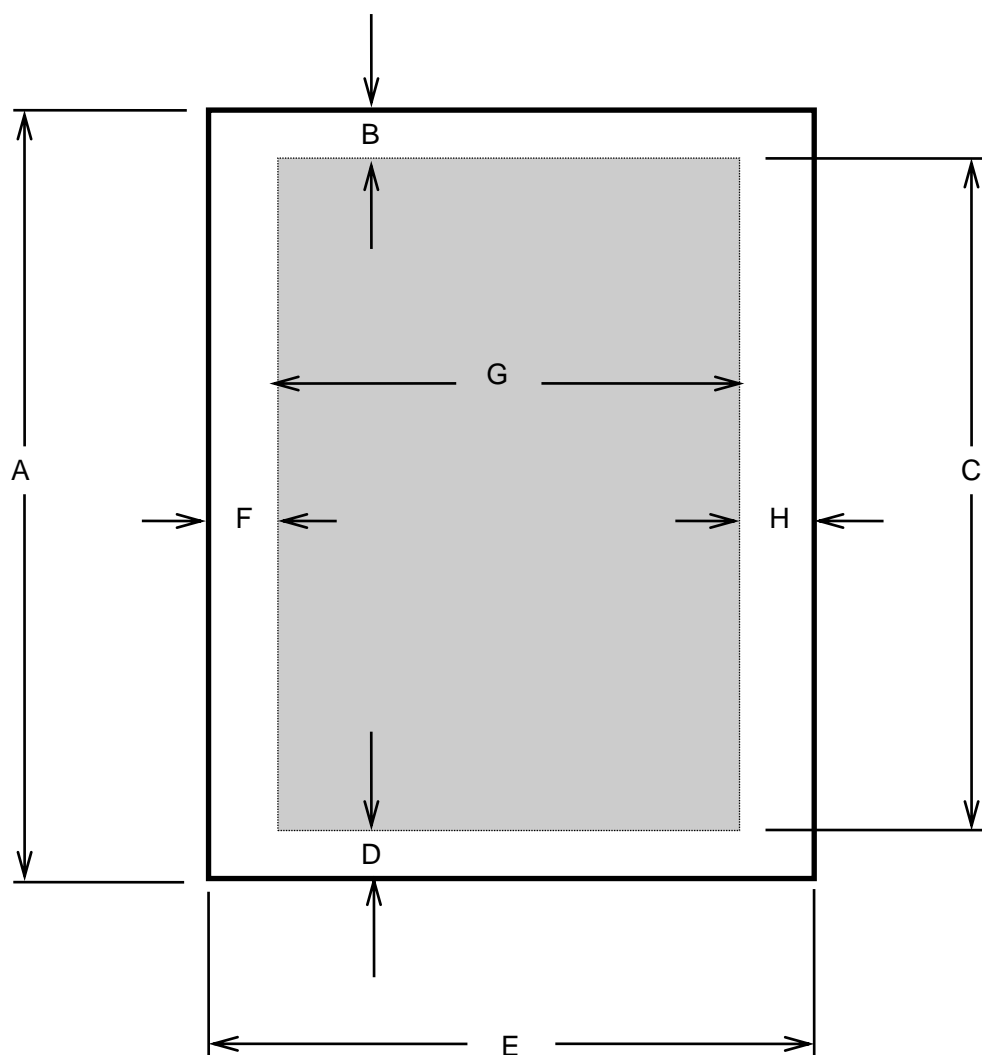
<b>enum LabelColor</b>
WHITE

OTHERS
RED
BLUE
BLACK
GOLD
FABRIC_BLUE
STENCIL
CLEANING
UNSUPPORT

#### 4.7.com.brother.ptouch.sdk.TemplateInfo Class

Fields		
Type	Type	Type
int	key	File key number which saved in printer.
int	fileSize	Template file size
int	checksum	Check sum
Date	modifiedDate	Date modified
String	fileName	Template file name

## 5. Paper Size



A: Length

C: Length of printable area

E: Width

G: Width of printable area

B: Top margin

D: Bottom Margin

F: Left margin

H: Right margin

## 5.1. PJ Series

### 5.2.PJ Series

#### 5.2.1.PJ-723,PJ-763,PJ-763MFi,PJ-773,PJ-663, PJ-560, PJ-563 (300dpi model)

Paper	A	B	C	D	E	F	G	H
A4	297.0 mm 3507 dots	2.5 mm 30 dots PJ-500 6.8 mm 80 dots	279.4 mm 3300 dots	15.0 mm 177 dots PJ-500 10.8 mm 127 dots	210.0 mm 2480 dots	3.4 mm 40 dots	203.2 mm 2400 dots	3.4 mm 40 dots
Legal	355.6 mm 4200 dots	2.5 mm 30 dots PJ-500 6.8 mm 80 dots	347.1 mm 4100 dots	5.9 mm 70 dots PJ-500 1.7 mm 20 dots	215.9 mm 2550 dots	3.6 mm 43 dots	208.6 mm 2464 dots	3.6 mm 43 dots
Letter	279.4 mm 3300 dots	2.5 mm 30 dots PJ-500 6.8 mm 80 dots	270.9 mm 3200 dots	5.9 mm 70 dots PJ-500 1.7 mm 20 dots	215.9 mm 2550 dots	3.6 mm 43 dots	208.6 mm 2464 dots	3.6 mm 43 dots
A5	210.0 mm 2480 dots	2.5 mm 30 dots PJ-500 6.8 mm 80 dots	193.8 mm 2289 dots	13.6 mm 161 dots PJ-500 9.4 mm 111 dots	148.0 mm 1748 dots	3.4 mm 40 dots	141.2 mm 1668 dots	3.4 mm 40 dots
A5 Long Edge	148.0 mm 1748 dots	2.5 mm 30 dots PJ-500 6.8 mm 80 dots	130.2 mm 1538 dots	15.2 mm 180 dots PJ-500 11.0 mm 130 dots	210.0 mm 2480 dots	3.4 mm 40 dots	203.2 mm 2400 dots	43.4 mm 40 dots

#### 5.2.2. PJ-723,PJ-763,PJ-763MFi,PJ-773,PJ-663 (300dpi model) Roll paper with mark

Paper	A	B	C	D	E	F	G	H
Letter	279.4 mm 3300 dots	11.9 mm 140 dots	251.4 mm 2970 dots	16.1 mm 190 dots	215.9 mm 2550 dots	3.6 mm 43 dots	208.6 mm 2464 dots	3.6 mm 43 dots

#### 5.2.3. PJ-722,PJ-762,PJ-662, PJ-562 (200dpi model)

Paper	A	B	C	D	E	F	G	H
A4	297.0 mm 2338 dots	2.5mm 20 dots PJ-500 6.8 mm 54 dots	279.4mm 2200 dots	15.0 mm 118 dots PJ-500 10.8 mm 84 dots	210.0 mm 1654 dots	3.4 mm 27 dots	203.2 mm 1600 dots	3.4 mm 27 dots
Legal	355.6 mm 2800 dots	2.5 mm 20 dots PJ-500 6.8 mm 54 dots	347.1 mm 2733 dots	6.0 mm 47 dots PJ-500 1.7 mm 13 dots	215.9 mm 1700 dots	4.3 mm 34 dots	207.2 mm 1632 dots	4.3 mm 34 dots
Letter	279.4 mm 2200 dots	2.5 mm 20 dots PJ-500 6.8 mm 54 dots	270.9 mm 2133 dots	6.0 mm 47 dots PJ-500 1.7 mm 13 dots	215.9 mm 1700 dots	4.3 mm 34 dots	207.2 mm 1632 dots	4.3 mm 34 dots

A5	210.0 mm 1654 dots	2.5 mm 20 dots PJ-500 6.8 mm 54 dots	193.8 mm 1526 dots	13.6 mm 107 dots PJ-500 9.3 mm 73 dots	148.0 mm 1165 dots	3.4 mm 27 dots	141.0 mm 1111 dots	3.4 mm 27 dots
A5 Long Edge	148.0 mm 1166 dots	2.5 mm 20 dots PJ-500 6.8 mm 54 dots	131.0 mm 1032 dots	14.5 mm 114 dots PJ-500 10.2 mm 80 dots	210.0 mm 1654 dots	3.4 mm 27 dots	203.2 mm 1600 dots	3.4 mm 27 dots

#### 5.2.4. PJ-723,PJ-763,PJ-763MFi,PJ-773,PJ-662(200dpi model) Roll paper with mark

Paper	A	B	C	D	E	F	G	H
Letter	279.4 mm 2200 dots	10.9 mm 86 dots	251.5 mm 1980 dots	17.0 mm 134 dots	215.9 mm 1700 dots	4.3 mm 34 dots	207.2 mm 1632 dots	4.3 mm 34 dots

### 5.3. MW Series

#### 5.3.1. MW-260

Paper	A	B	C	D	E	F	G	H
A6	148 mm 1748 dots	3.75 mm 44 dots	140.5 mm 1660 dots	3.75 mm 44 dots	105 mm 1240 dots	3.75 mm 44 dots	97.5 mm 1152 dots	3.75 mm 44 dots

#### 5.3.2. MW-140BT, MW-145BT

Paper	A	B	C	D	E	F	G	H
A7	105 mm 1240 dots	2.5 mm 30 dots	99.9 mm 1180 dots	2.5 mm 30 dots	74 mm 874 dots	2.5 mm 29 dots	69.1 mm 816 dots	2.5 mm 29 dots

## 6. Sample application

### 6.1. Brother Print SDK Demo

#### 6.1.1. Outline

Application: Brother Print SDK Demo

Content:

- Image (jpg, bmp, png) and prn file print
- PDF print
- P-touch template command print
- Template file (\*.pdz, \*.blf) transfer

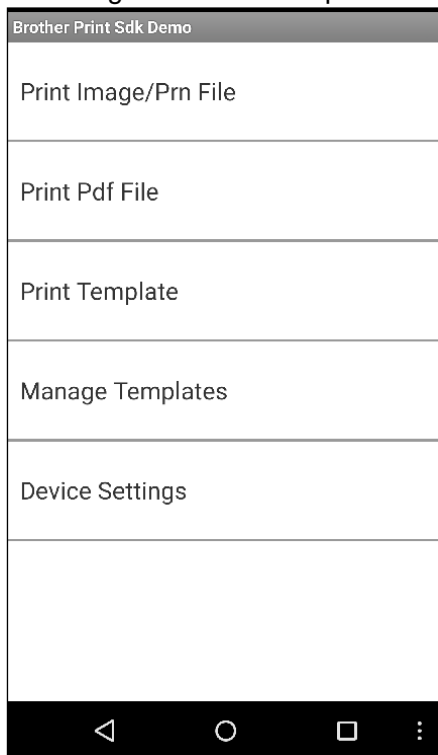
Environment:

- Android OS 2.2 or later (Android OS 3.1 or later for USB)
- SD card
- [About supported model and interface refer to 1.2.1, 1.2.2. and 1.2.3](#)

#### 6.1.2. Usage

##### 6.1.2.1. Start Up Application

Following screen shows up when starting up application.



Print Image/Prn File: Print image file (jpg, bmp, png) and prn file (output file by PC driver).

Print Pdf File: Print pdf file.

Print Template: Print by P-touch Template command.

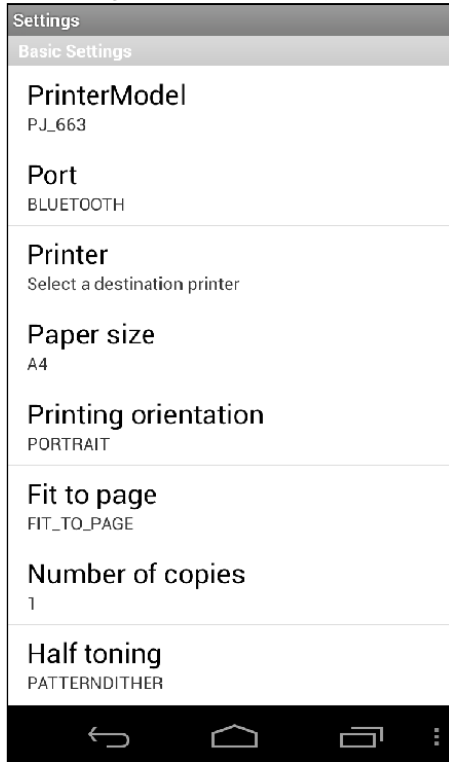
Manage Templates: Transfer template files and remove template files in the printer

Device Settings: Update Bluetooth settings of printer (only for MW-145Bt and MW-260 TypeA).

Close the application when you tap [Back] button on the device.

#### 6.1.2.2. Printer Setting

Following screen is displayed when you tap [Printer Settings] button in the menu.



#### 【Description】

##### Basic Settings

Printer Model: Select printer model (Select paired printer)

Port: BLUETOOTH, NET, USB

Printer: Select printer from printers paired with Bluetooth or printers connected with Wi-Fi access point

Paper Size: A4, A6, A7, CUSTOM(RJ)are automatically selected. Letter, Legal, CUSTOM(PJ) select by yourself.

Paper Orientation: Vertical, Horizontal

Print Size: Fit with original size and paper; numeric values.

(It is impossible to print if the image size is over print area.)

Number of copies: Number of copies

Halftone: Threshold, Pattern dither, Error diffusion

Threshold value: Threshold when Halftone is set to THRESHOLD

Saving Print Data: Designates the save location of the print file for debugging.

Overwrite: Select overwrite or append.

Skip status check: Skip status check before printing.

Horizontal Alignment: Align to the left, right and center

##### Other Settings

IP address (auto set when you select printer)

MAC address (auto set when you select printer)

Left margin value: Left margin

Vertical Alignment: Align to the left, right and center

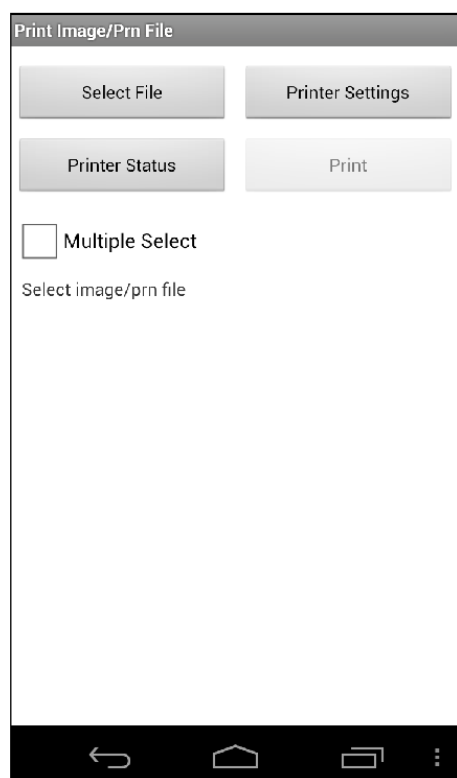
Top Margin value: Top margin



Carbon: Carbon paper or not (PJ)  
 PJ Density: from 0 to 10 (PJ)  
 Feed mode: Select the type of paper for feeding mode after a page of print (PJ)  
 Custom Paper Width (PJ)  
 Custom Paper Length (PJ)  
 Feed Paper Setting (PJ)  
 Mode9 (PJ)  
 PJSPEED: from 0 to 3 (PJ-7xx)  
 roll printer case: settings with roll printer case used (PJ-7xx)  
 Paper position: Select feed position of the custom paper (PJ)  
 Custom Setting: Select RJ and TD custom paper setting file.  
     **Restriction:** Refer to [6.3 How to add custom paper setting files.](#)  
 RJ and TD Density: from -5 to 5  
 Rotate 180: Print by 180 degree rotated (TD/RJ-3xxx)  
 PeelMode: Set peeler (TD/RJ-3150)  
 Auto cut: Set auto cut (PT/QL)  
 End cut: Set auto cut (PT/QL)  
 Half cut: Set half cut (PT/QL)  
 Special Tape :Set special tape model (PT)

Return to the main screen when you tap [Back] button on device after finish setting.

#### 6.1.2.3. Print Image/Prn File



Multiple Select: Check it when print several files at a time (also clear selected files by checking or unchecking).

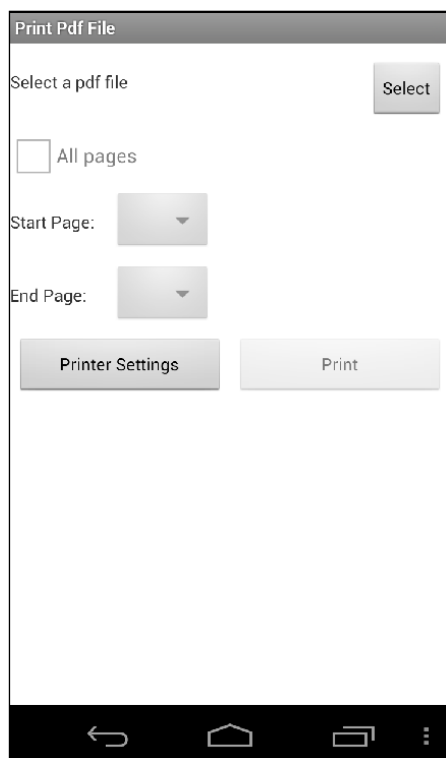
Select File: Select files in SD card.

Printer Settings: Select printer and set printing information.

Printer Status: Get printer status.

Print: Printing start.

#### 6.1.2.4. Print Pdf File



Select File: Select files in SD card.

All pages: Check it when print all pages in the PDF file.

Start Page: Specify the first print page number.

End Page: Specify the last print page number.

Printer Settings: Select printer and set printing information.

Print: Printing start.

#### 6.1.2.5. Print Template

Template Key: File key number which saved in printer.

Encoding: Select character code in printer (English, Japanese, Chinese).

Text: Replace text in template by index order

Index: Replace text in template by index number of Text object.

ObjectName: Replace text in template by object name.

Text: The content to replace by

Add: Add a line of template command of Text, Index or ObjectName.

Delete: Delete a line of template command.

Next Template: Add a next new page.

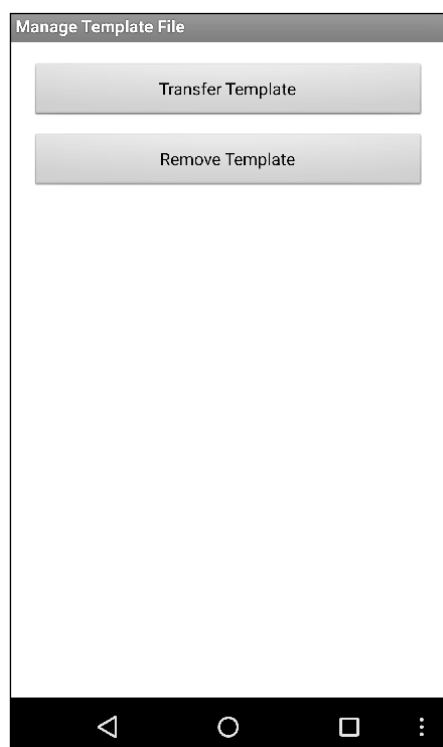
Printer Settings: Select printer and set printing information.

Print: Printing start.

Template file is necessary to save the printer previously.

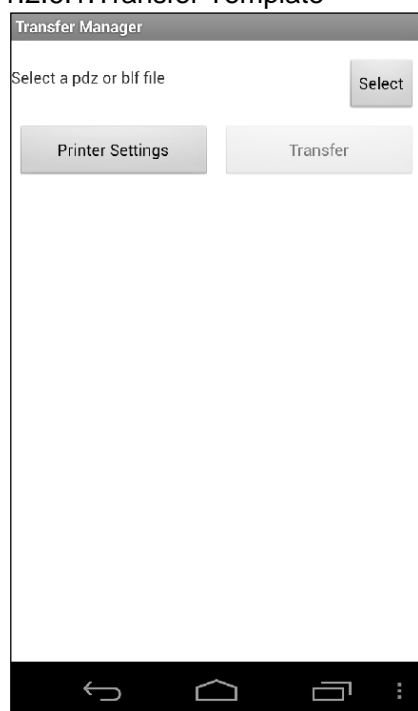
For saving method, please refer to [3.5. About P-touch Template Print.](#)

#### 6.1.2.6. Manage Templates



Transfer Template: Transfer template file(\*.pdz, \*.blf) from Android to the printer.  
Remove Template: Get the list of templates and remove templates in the printer.

##### 6.1.2.6.1. Transfer Template

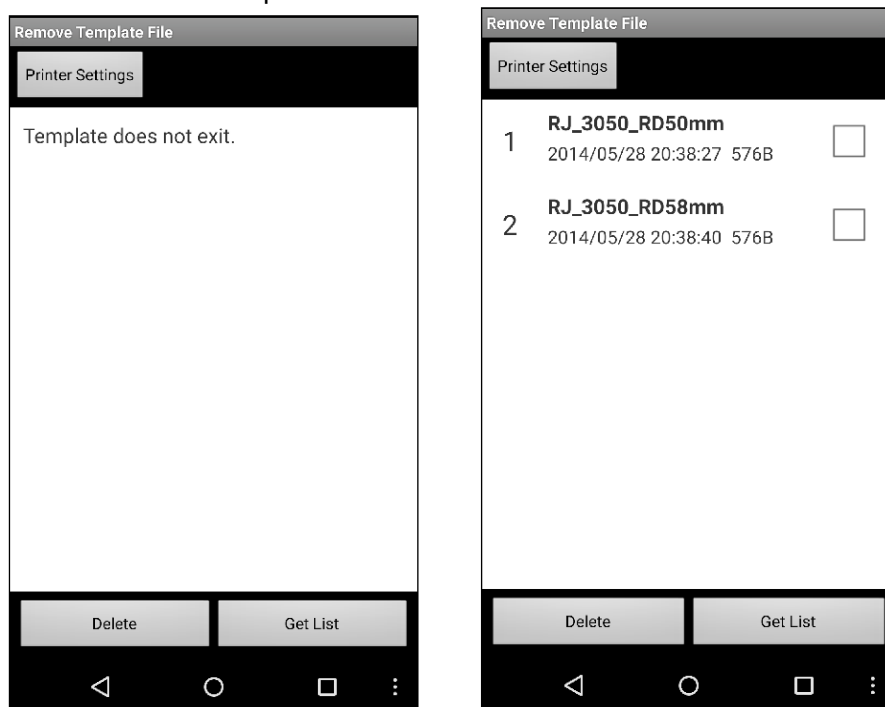


Select File: Select files in SD card.

Printer Settings: Select printer and set printing information.

Transfer: Transferring start. The pdz file is for USB and Bluetooth, and the blf file is for Wi-Fi.

#### 6.1.2.6.2.Remove Template



Printer Settings: Select printer and set printing information.

Template Information: Template key number, file name, modified date and file size.

Get Template List: Get the list of templates in the printer.

Remove Template: Remove specified templates in the printer.

## 6.2.How to add custom paper setting files

Put the custom paper setting files (made by Custom Label Tool on Windows PC) in "customPaperFileSet" folder in the root folder of SD memory card.

## 7.Others

### 7.1.Deal with unstable connection for Bluetooth

[Bluetooth] check box to be OFF at Bluetooth setting screen, and then ON again.  
Return to the main screen to press [Back] button, and restart application  
OFF/ON printer power.

### 7.2. Background and print color

When displaying the background color and print color of a label on a display, it displays with the following RGB values.

#### Background color of label

LabelColor	R	G	B
WHITE	255	255	255
OTHERS	255	254	254
RED	255	62	74
BLUE	102	153	255
YELLOW	255	237	0
GREEN	67	209	173
BLACK	0	0	0
CLEAR	238	251	254
CLEAR_WHITE	225	236	238
MATTE_WHITE	255	255	254
MATTE_CLEAR	238	251	253
MATTE_SILVER	139	139	139
SATIN_GOLD	253	220	119
SATIN_SILVER	138	139	139
BLUE_WHITE	47	78	167
RED_WHITE	196	15	15
FLOURESCENT_ORANGE	255	97	0
FLOURESCENT_YELLOW	215	232	22
BERRY_PINK	242	90	184
LIGHT_GLAY	195	195	195
LIME_GREEN	122	193	67
FABRIC_YELLOW	255	255	179
FABRIC_PINK	255	231	235
FABRIC_BLUE	186	219	255
TUBE_WHITE	255	254	255
SELF_WHITE	254	255	255
FLEXIBLE_WHITE	254	254	255
FLEXIBLE_YELLOW	254	237	0
STENCIL	249	249	249
CLEANING	—	—	—
UNSUPPORT	—	—	—

#### Print color of label

LabelColor	R	G	B
WHITE	255	255	255
OTHERS	0	0	1
RED	255	0	0
BLUE	0	51	255
BLACK	0	0	0
GOLD	242	183	6
FABRIC_BLUE	18	70	136
STENCIL	0	1	0
CLEANING	—	—	—
UNSUPPORT	—	—	—

### 7.3. Note for Android6

Users are allowed to change the access function (Permissions) from Android 6.0.  
But the permissions must be enabled (ON) to execute the APIs here that require the access to the storage in Android device.

#### 7.3.1. Settings in development

Permission description is required in Manifest file.  
Describe android.permission.WRITE\_EXTERNAL\_STORAGE there.

#### 7.3.2. How to Display the permission dialog within the application

When the accelerator to the storage is not allowed, you can indicate the authorization dialog of Android standard in the application to ask permissions enabled to the user. Refer to the sample application.

#### 7.3.3. How to set permissions manually after the application installed.

1. Select [Settings].
2. Select the [Apps] or [Application Manager], depending on the device.
3. Select the application.
4. Select [Permissions] and change the permissions enabled.