# Print development guide

**Document revision record**

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\*Change status: C = created, a = added, M = modified, d = deleted

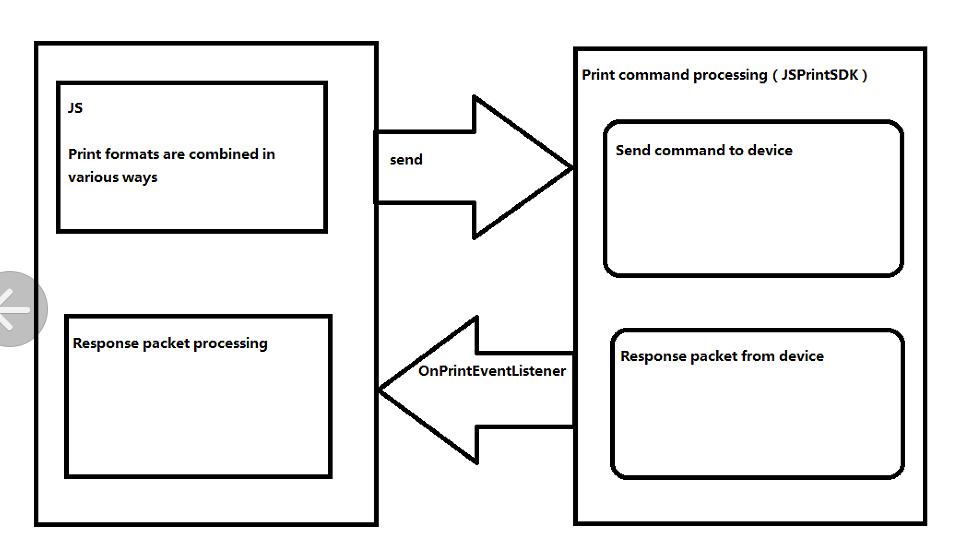
**Document approval record**

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# **1.** **brief introduction**

Print SDK provided for JS.

# **2.** **Basic printing process**



# 3. Interface

## 3.1 Get old and new printer modules

|  |  |
| --- | --- |
| Function interface | **void** js\_getsupportprint () |
| Function description | Get old and new printer modules |
| Parameter description | nothing |
| Return value | Callback method, method name: getsupportprint,  For example, refer to Chapter 8. Callback class example |

## 3.2 Initialize printer

|  |  |
| --- | --- |
| Function interface | **void** js\_initPrinter () |
| Function description | Initialize printer |
| Parameter description | nothing |
| Return value | nothing |

## 3.3 Print density

|  |  |
| --- | --- |
| Function interface | **void** js\_printConcentration (String parm) |
| Function description | concentration |
| Parameter description | parm={  density：0-39  } |
| Return value | nothing |

## 3.4 Text bold

|  |  |
| --- | --- |
| Function interface | **void** js\_printTextBold (String parm) |
| Function description | Emphasis mode, text bold |
| Parameter description | parm={  FONT\_BOLD：true open，false close  } |
| Return value | nothing |

## 3.5 Set font size

|  |  |
| --- | --- |
| Function interface | **void** js\_printFontSize (String parm) |
| Function description | Set font size |
| Parameter description | parm={fontSize：int }  Refer to Chapter 7. Constant class for parameters |
| Return value | nothing |

## 3.6 Get font size

|  |  |
| --- | --- |
| Function interface | **void** js\_getFontSize () |
| Function description | Get font size |
| Parameter description | nothing |
| Return value | Callback method, method name: getfontsize,  For example, refer to Chapter 8. Callback class example |

## 3.7 Set font weight

|  |  |
| --- | --- |
| Function interface | **void** js\_setTextBold (String parm) |
| Function description | Set font weight |
| Parameter description | parm={fontBold： true Bold /false No bold } |
| Return value | nothing |

## 3.8 Get font weight

|  |  |
| --- | --- |
| Function interface | **void** js\_isFontBold () |
| Function description | Get font weight |
| Parameter description | nothing |
| Return value | Callback method, method name: isfontbold,  For example, refer to Chapter 8. Callback class example |

## 3.9 Set underline

|  |  |
| --- | --- |
| Function interface | **void** js\_setUnderLine (String parm) |
| Function description | Set underline |
| Parameter description | parm={enable： true Underline /false Do not underline } |
| Return value | nothing |

## 3.10 Get underline status

|  |  |
| --- | --- |
| Function interface | **void** js\_isUnderLine () |
| Function description | Get underline status |
| Parameter description | nothing |
| Return value | Callback method, method name: isunderline,  For example, refer to Chapter 8. Callback class example |

## 3.11 Set text line spacing

|  |  |
| --- | --- |
| Function interface | **void** js\_setLineSpacing(String parm) |
| Function description | Set text line spacing |
| Parameter description | parm={  lineSpacing：1-n  } |
| Return value | nothing |

## 3.12 Get text line spacing

|  |  |
| --- | --- |
| Function interface | **void** js\_getLineSpacing () |
| Function description | Get text line spacing |
| Parameter description | nothing |
| Return value | Callback method, method name: getlinespacing,  For example, refer to Chapter 8. Callback class example |

## 3.13 Print blank lines

|  |  |
| --- | --- |
| Function interface | **void** js\_printLine(String parm) |
| Function description | Print blank lines |
| Parameter description | parm={  line：int（Number of rows）  } |
| Return value | nothing |

## 3.14 Print text

|  |  |
| --- | --- |
| Function interface | **void** js\_printText(String parm) |
| Function description | Print text |
| Parameter description | parm={  text：String  } |
| Return value | nothing |

## 3.15 Print text

|  |  |
| --- | --- |
| Function interface | **void** js\_printText1(String parm) |
| Function description | Print text |
| Parameter description | parm={  offset：int,  fontSize：int,  isBold：boolean,  isUnderLine：boolean,  text：String,  }  Refer to Chapter 7 constant class for parameter details |
| Return value | nothing |

## 3.16 Print barcode

|  |  |
| --- | --- |
| Function interface | **void** js\_printBarcode(String parm) |
| Function description | Print barcode |
| Parameter description | parm={  text：String，  height：int，  barcodetype：int  }  Refer to Chapter 7 constant class for parameter details |
| Return value | nothing |

## 3.17 Print barcode

|  |  |
| --- | --- |
| Function interface | **void** js\_printBarcode1(String parm) |
| Function description | Print barcode |
| Parameter description | parm={  offset：int，  text：String，  height：int，  barcodetype：int ，  hriPosition：int  }  Refer to Chapter 7 constant class for parameter details |
| Return value | nothing |

## 3.18 Print QR code

|  |  |
| --- | --- |
| Function interface | **void** js\_printQR(String parm) |
| Function description | Print QR code |
| Parameter description | parm={  text：String  } |
| Return value | nothing |

## 3.19 Print QR code

|  |  |
| --- | --- |
| Function interface | **void** js\_printQR1(String parm) |
| Function description | Print QR code |
| Parameter description | parm={  text：String；  offset：int  height：int；（Up to 384）  }  Refer to Chapter 7 constant class for parameter details |
| Return value | nothing |

## 3.20 Turn on black mark detection

|  |  |
| --- | --- |
| Function interface | **void** js\_printEnableMark(String parm) |
| Function description | Turn on black mark detection |
| Parameter description | parm={  enable：true open，false close  } |
| Return value | nothing |

## 3.21 Detect black mark status

|  |  |
| --- | --- |
| Function interface | **void** js\_isBlackLabel () |
| Function description | Detect black mark status |
| Parameter description | nothing |
| Return value | Callback method, method name: isblacklabel,  For example, refer to Chapter 8. Callback class example |

## 3.22 Start moving paper

|  |  |
| --- | --- |
| Function interface | **void** js\_start () |
| Function description | Start moving paper |
| Parameter description | nothing |
| Return value | nothing |

## 3.23 Start moving paper

|  |  |
| --- | --- |
| Function interface | **void** js\_printGoToNextMark() |
| Function description | Start moving paper |
| Parameter description | nothing |
| Return value | nothing |

## 3.24 Start paper feeding (set paper feeding distance)

|  |  |
| --- | --- |
| Function interface | **void** js\_printGoToNextMark1(String parm) |
| Function description | Start paper feeding (set paper feeding distance) |
| Parameter description | parm={  distance：int  } |
| Return value | nothing |

## 3.25 Reset printer

|  |  |
| --- | --- |
| Function interface | **void** js\_resetPrint() |
| Function description | Reset printer |
| Parameter description | nothing |
| Return value | nothing |

## 3.26 Get firmware version

|  |  |
| --- | --- |
| Function interface | **void** js\_getVersion() |
| Function description | Get firmware version |
| Parameter description | nothing |
| Return value | Callback method, method name: onversion,  For example, refer to Chapter 8. Callback class example |

## 3.27 print pictures

|  |  |
| --- | --- |
| Function interface | **void** js\_printBitmap(String parm) |
| Function description | print pictures（384x360） |
| Parameter description | parm={  base64：String  } |
| Return value | nothing |

## 3.28 print pictures

|  |  |
| --- | --- |
| Function interface | **void** js\_printBitmap1(String parm) |
| Function description | print pictures（384x360） |
| Parameter description | parm={  offset：int，  base64：String  } |
| Return value | nothing |

## 3.29 Set paper feed distance

|  |  |
| --- | --- |
| Function interface | **void** js\_setFeedPaperSpace (String parm) |
| Function description | Set paper feed distance |
| Parameter description | parm={  space：int  } |
| Return value | nothing |

## 3.30 Get paper distance

|  |  |
| --- | --- |
| Function interface | **void** js\_getFeedPaperSpace () |
| Function description | Get paper distance |
| Parameter description | nothing |
| Return value | Callback method, method name: getfeedpaperspace,  For example, refer to Chapter 8. Callback class example |

## 3.31 Set paper return distance

|  |  |
| --- | --- |
| Function interface | **void** js\_setUnwindPaperLen (String parm) |
| Function description | Set paper return distance |
| Parameter description | parm={  length：int  } |
| Return value | nothing |

## 3.32 Get paper return distance

|  |  |
| --- | --- |
| Function interface | **void** js\_getUnwindPaperLen () |
| Function description | Get paper return distance |
| Parameter description | nothing |
| Return value | Callback method, method name: getunwindpaperlen,  For example, refer to Chapter 8. Callback class example |

## 3.33 Print status callback

|  |  |
| --- | --- |
| Function interface | void onPrintStatus(state) |
| Function description | Print status callback |
| Parameter description | nothing |
| Return value | State: 0 printing succeeded  Refer to Chapter 7. Constant class for parameter details |

## 3.34 Get version number

|  |  |
| --- | --- |
| Function interface | void onVersion(s) |
| Function description | Get version number |
| Parameter description | nothing |
| Return value | s：edition |

## 3.35 Set black and white reversal

|  |  |
| --- | --- |
| Function interface | **void** js\_setReverse (String parm) |
| Function description | Set black and white reversal |
| Parameter description | parm={  reverse：boolean  } |
| Return value | nothing |

## 3.36 Get black and white inversion

|  |  |
| --- | --- |
| Function interface | **void** js\_isReverse () |
| Function description | Get black and white inversion |
| Parameter description | nothing |
| Return value | Callback method, method name: isreverse,  For example, refer to Chapter 8. Callback class example |

## 3.37 Screen capture printing

|  |  |
| --- | --- |
| Function interface | **void** js\_screenshot () |
| Function description | Screen capture printing |
| Parameter description | nothing |
| Return value | nothing |

# 4 matters needing attention

1、At present, the printer does not support horizontal layout, such as QR code on the left and text on the right. This format needs to generate pictures for printing. The maximum width of the pictures is 384.

2、During continuous label printing, direct circular transmission will lead to data disorder. The cycle will adjust quickly. The content of the previous one has not been typed, and the next one is sent again. Please print the next one after successful printing and callback.

# 5. Interface usage example

var barcodeparam = {

text: '1234567890',

height: 80,

barcodetype: 73,

};

var mbarcodeparam = JSON.stringify(barcodeparam);

Android\_LcPrinter.js\_printBarcode(mbarcodeparam);

# 6. Get started quickly

1、initialization

Android\_LcPrinter.js\_initPrinter();

2、Print

function printText() {

var strText = document.getElementById("printtext").value;

var param = {

text: strText

};

var strParam = JSON.stringify(param);

Android\_LcPrinter.js\_printText(strParam);

if (black) {

Android\_LcPrinter.js\_printGoToNextMark();

} else {

Android\_LcPrinter.js\_start();

}

}

# 7. Constant class

Constant class：android.bld.print.configuration.PrintConfig

//IErrorCode：Error code

public class IErrorCode {

public static final int ERROR\_CMD = 19;// Instruction error

public static final int ERROR\_DATA\_INPUT = 165;// Input parameter error

public static final int ERROR\_DATA\_INVALID = 18;// data is invalid

public static final int ERROR\_DEV\_BMARK = 7;// Abnormal black mark detection

public static final int ERROR\_DEV\_FEED = 5;// Moving paper

public static final int ERROR\_DEV\_IS\_BUSY = 1;// Device busy

public static final int ERROR\_DEV\_NOT\_OPEN = 16;// The device is not turned on

public static final int ERROR\_DEV\_NO\_BATTERY = 4;// Low electricity

public static final int ERROR\_DEV\_PRINT = 6;// print now

public static final int ERROR\_GRAY\_INVALID = 20;// Illegal concentration

public static final int ERROR\_NO\_DATA = 17;// Print data cannot be empty

public static final int ERROR\_NO\_ERROR = 0;// Printing succeeded

public static final int ERROR\_PRINT\_BARCODE = 162;// Error printing barcode

public static final int ERROR\_PRINT\_BITMAP = 161;// Error printing bitmap

public static final int ERROR\_PRINT\_BITMAP\_WIDTH\_OVERFLOW = 164;// Print bitmap width overflow

public static final int ERROR\_PRINT\_DATA\_MAC = 167;// Mac check error

public static final int ERROR\_PRINT\_HOT = 2;// high temperature

public static final int ERROR\_PRINT\_ILLEGAL\_ARGUMENT = 166;// Parameter error

public static final int ERROR\_PRINT\_NOPAPER = 3;// Paper shortage

public static final int ERROR\_PRINT\_QRCODE = 163;// Error printing QR code

public static final int ERROR\_PRINT\_TEXT = 160;// Print text error

public static final int ERROR\_PRINT\_UNKNOWN = 255;// unknown error

public static final int ERROR\_RESULT\_EXIST = 168;// Result already exists

public static final int ERROR\_TIME\_OUT = 169;// overtime

}

//StateType：Status type

public class StateType {

public static final int CHECK\_ALL = 1;

public static final int CHECK\_BMASK = 7;

public static final int CHECK\_BUSY = 2;

public static final int CHECK\_FEED = 5;

public static final int CHECK\_PAPER = 4;

public static final int CHECK\_PRINT = 6;

public static final int CHECK\_TEMP = 3;

}

//HRIPosition：One dimensional code text position

public static class HRIPosition {

public static final int POSITION\_ABOVE = 2;

public static final int POSITION\_BELOW = 3;

public static final int POSITION\_BOTH = 4;

public static final int POSITION\_NONE = 1;

}

//BarCodeType：Barcode Type

public static class BarCodeType {

public static final int TOP\_TYPE\_CODABAR = 71;

public static final int TOP\_TYPE\_CODE128 = 73;

public static final int TOP\_TYPE\_CODE39 = 69;

public static final int TOP\_TYPE\_CODE93 = 72;

public static final int TOP\_TYPE\_EAN13 = 67;

public static final int TOP\_TYPE\_EAN8 = 68;

public static final int TOP\_TYPE\_ITF = 70;

public static final int TOP\_TYPE\_UPCA = 65;

public static final int TOP\_TYPE\_UPCE = 66;

}

//ALIGN：Alignment

public static class Align {

public static final int ALIGN\_CENTER = 2;// Center

public static final int ALIGN\_LEFT = 1;// be at the left side

public static final int ALIGN\_RIGHT = 3;// be at the right

}

//FontSize：Character font

public static class FontSize {

public static final int TOP\_FONT\_SIZE\_LARGE = 5;

public static final int TOP\_FONT\_SIZE\_MIDDLE = 3;

public static final int TOP\_FONT\_SIZE\_SMALL = 1;

public static final int TOP\_FONT\_SIZE\_SUPER = 7;

public static final int TOP\_FONT\_SIZE\_XLARGE = 6;

public static final int TOP\_FONT\_SIZE\_XMIDDLE = 4;

public static final int TOP\_FONT\_SIZE\_XSMALL = 2;

public static final int TOP\_FONT\_SIZE\_XSUPER = 8;

}

# 8. Callback class example

function onPrintStatus(msg) {

//0 printing succeeded 1 paper shortage 2 printing failed 3 printing paper to the last one

if (msg === '0') {

alert("Printing succeeded ");

}

console.log(msg)

}

function onVersion(msg) {

alert("Version number：" + msg);

console.log(msg)

}