# Print development guide

**Document revision history**

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| **V1.0** | **c** | **initial version** | **2021/6/11** | **LinJinXing** |  |  |
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\*Change status: C = created, A = added, M = modified, D = deleted

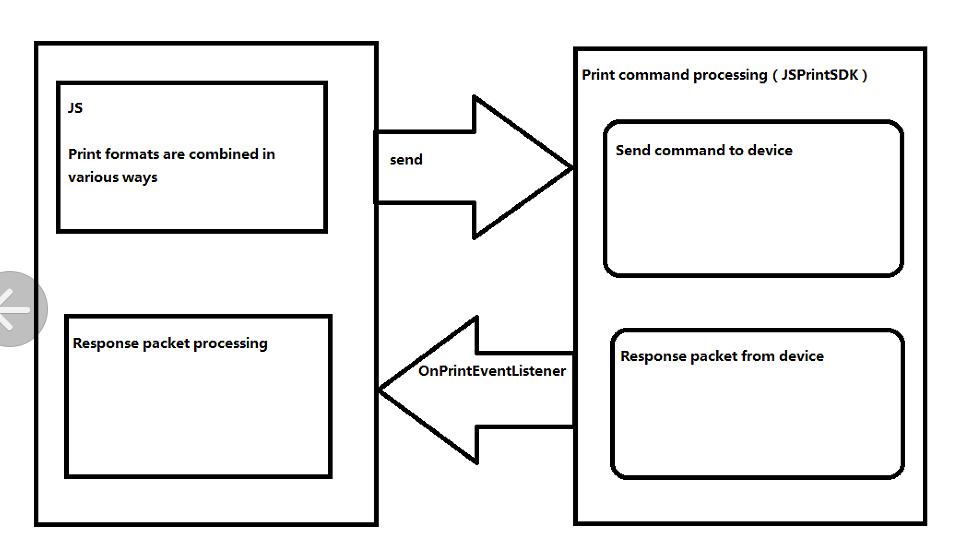
**Document approval record**

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# **1. Introduction**

Print SDK provided for JS.

# **Basic printing process**



# 3.interface

## 3.1 Printer status

|  |  |
| --- | --- |
| Function interface | **void** js\_printState () |
| Function Description | Printer status |
| Parameter Description | none |
| return value | none |

## 3.2 Print language

|  |  |
| --- | --- |
| Function interface | **void** js\_printLanguage (**String parm**) |
| Function Description | language settings |
| Parameter Description | parm={  LANGUAGE: Please refer to Appendix 4.2 Supported Languages  } |
| return value | none |

## 3.3 Print density

|  |  |
| --- | --- |
| Function interface | **void** js\_printConcentration (**String parm**) |
| Function Description | concentration |
| Parameter Description | parm={  FONT\_LEVEl: 25-39  } |
| return value | none |

## 3.4 Printer code

|  |  |
| --- | --- |
| Function interface | **void** js\_printEncode (**String parm**) |
| Function Description | Encoding settings |
| Parameter Description | parm={  ENCODE: refer to Appendix 4.1 encoding type  } |
| return value | none |

## 3.5 Emphasis mode

|  |  |
| --- | --- |
| Function interface | **void** js\_printTextBold (**String parm**) |
| Function Description | Emphasis mode, bold text |
| Parameter Description | parm={  FONT\_BOLD: true open, false close  } |
| return value | none |

## 3.6 Font size

|  |  |
| --- | --- |
| Function interface | **void** js\_printFontSize (**String parm**) |
| Function Description | font size |
| Parameter Description | parm={  FONT\_SIZE: 1 (NORMAL),  2 (HEIGHT\_DOUBLE ),  3 (HEIGHT\_WIDTH\_DOUBLE)  } |
| return value | none |

## 3.7 Multi-line wrapping

|  |  |
| --- | --- |
| Function interface | **void** js\_setLineSpacing(**String parm**) |
| Function Description | Multi-line wrap |
| Parameter Description | parm={  LINE\_SPACING: 1-n  } |
| return value | none |

## 3.8 Single line wrap

|  |  |
| --- | --- |
| Function interface | **void** js\_printLine() |
| Function Description | Single line wrap |
| Parameter Description | none |
| return value | none |

## 3.9 Blank printing

|  |  |
| --- | --- |
| Function interface | **void** js\_printTabSpace(**String parm**) |
| Function Description | Print blank |
| Parameter Description | parm={  TAB\_LENGTH:1-n  } |
| return value | none |

## 3.10Print text

|  |  |
| --- | --- |
| Function interface | **void** js\_printText(**String parm**) |
| Function Description | Print text |
| Parameter Description | parm={  DATATEXT: String  } |
| return value | none |

## 3.11 Alignment

|  |  |
| --- | --- |
| Function interface | **void** js\_printAlignment(**String parm**) |
| Function Description | Alignment |
| Parameter Description | parm={  ALIGN\_MODE: 0(ALIGN\_LEFT),  1(ALIGN\_CENTER),  2(ALIGN\_RIGHT)  } |
| return value | none |

## 3.12 Left margin

|  |  |
| --- | --- |
| Function interface | **void** js\_printMarginLeft(**String parm**) |
| Function Description | Left margin |
| Parameter Description | parm={  MARGINLEFT:0-384  } |
| return value | none |

## 3.13 Title text

|  |  |
| --- | --- |
| Function interface | **void** js\_printLargeText(**String parm**) |
| Function Description | Large text |
| Parameter Description | parm={  TITLE\_TEXT: String  } |
| return value | none |

## 3.14 Enable one vote, one control

|  |  |
| --- | --- |
| Function interface | **void** js\_printEnableCertificate(**String parm**) |
| Function Description | Open one ticket, one control |
| Parameter Description | parm={  CERTIFICATE: true is turned on, false is turned off  } |
| return value | none |

## 3.15 One vote, one control start

|  |  |
| --- | --- |
| Function interface | **void** js\_printStartNumber() |
| Function Description | One vote, one control head |
| Parameter Description | none |
| return value | none |

## 3.16 One vote, one control over

|  |  |
| --- | --- |
| Function interface | **void** js\_printEndNumber() |
| Function Description | One vote, one control ending |
| Parameter Description | none |
| return value | none |

## 3.17 Print barcode

|  |  |
| --- | --- |
| Function interface | **void** js\_printBarcode(**String parm**) |
| Function Description | Print barcode |
| Parameter Description | parm={  BARCODE\_TEXT:Barcode content  QR\_HEIGHT: barcode height  QR\_WIDTH: 1-4  } |
| return value | none |

## 3.18 Through picturesPrint QR code

|  |  |
| --- | --- |
| Function interface | **void** js\_printQR(**String parm**) |
| Function Description | Print QR code |
| Parameter Description | parm={  QR\_TEXT: text;  QR\_WIDTH: Wide; the maximum does not exceed 384  QR\_HEIGHT:high.  } |
| return value | none |

## 3.19 Turn on black mark detection

|  |  |
| --- | --- |
| Function interface | **void** js\_printEnableMark(**String parm**) |
| Function Description | Turn on black mark detection |
| Parameter Description | parm={  MARK\_ENABLE: true is turned on, false is turned off  } |
| return value | none |

## 3.20 Go to the next black mark

|  |  |
| --- | --- |
| Function interface | **void** js\_printGoToNextMark() |
| Function Description | Go to the next black mark |
| Parameter Description | none |
| return value | none |

## 3.21 Print device information

|  |  |
| --- | --- |
| Function interface | **void** js\_printFeatureList() |
| Function Description | List of functions supported by the printing device |
| Parameter Description | none |
| return value | none |

## 3.22Reset printer

|  |  |
| --- | --- |
| Function interface | **void** js\_resetPrint() |
| Function Description | Reset printer |
| Parameter Description | none |
| return value | none |

## 3.23Get the firmware version

|  |  |
| --- | --- |
| Function interface | **void** js\_getVersion() |
| Function Description | Get the printer firmware version |
| Parameter Description | none |
| return value | none |

## 3.24 Two-line splicing of small ticket content

|  |  |
| --- | --- |
| Function interface | **void** js\_printTwoColumn(**String parm**) |
| Function Description | Two-line splicing of small ticket content |
| Parameter Description | parm={  TITLE: Title  CONTENT:content  } |
| return value | none |

## 3.25 Three-line splicing of small ticket content

|  |  |
| --- | --- |
| Function interface | **void** js\_printThreeColumn(**String parm**) |
| Function Description | Three-line splicing of small ticket content |
| Parameter Description | parm={  LEFT\_TEXT: left  CENTER\_TEXT: Medium  RIGHT\_TEXT: right  } |
| return value | none |

## 3.26 dotted line

|  |  |
| --- | --- |
| Function interface | **void** js\_printDashLine() |
| Function Description | dotted line |
| Parameter Description | none |
| return value | none |

## 3.27 Eject paper

|  |  |
| --- | --- |
| Function interface | **void** js\_setBackPaper(**String parm**) |
| Function Description | Print the paper back to the cover, 9030 version firmware does not need this setting |
| Parameter Description | parm={  BACK\_LENGTH: 0-100  } |
| return value | none |

## 3.28 Print picture

|  |  |
| --- | --- |
| Function interface | **void** js\_printBitmap(**String parm**) |
| Function Description | Small picture printing (384x360) |
| Parameter Description | parm={  IMG\_BASE64: String  } |
| return value | none |

## 3.29 Set printer encoding format

|  |  |
| --- | --- |
| Function interface | **void** js\_setEncoding(**String parm**) |
| Function Description | Set encoding (default**GB2312**) |
| Parameter Description | parm={  ENCODING: String  } |
| return value | none |

## 3.30 Whether to open the enrichment mode

|  |  |
| --- | --- |
| Function interface | void js\_printThicken(**String parm**) |
| Function Description | Enrichment mode control (9030 firmware version and above) |
| Parameter Description | parm={  Thicken:true is turned on and thickened,false: turn off and thicken  } |
| return value | void |

## 3.31 Whether to enable automatic paper feed

|  |  |
| --- | --- |
| Function interface | void js\_printAutoEnableMark(**String parm**) |
| Function Description | Control whether to print the last printed content after changing the paper |
| Parameter Description | parm={  AutoEnableMark:true turns on automatic paper feed,  false: Turn off automatic paper feed  } |
| return value | void |

## 3.32 Set text line spacing

|  |  |
| --- | --- |
| Function interface | void js\_setPrintLineSpacing(**String parm**) |
| Function Description | Set the line spacing to [n × vertical or horizontal movement unit] inches, 0 ≤ n ≤ 255 |
| Parameter Description | parm={  LINE\_SPACING: int  } |
| return value | Void |

## 3.33 Restore default line spacing

|  |  |
| --- | --- |
| Function interface | void js\_setPrintDefLineSpacing() |
| Function Description | Set the line spacing to the default value |
| Parameter Description | none |
| return value | void |

## 3.34 Hide the text below the barcode

|  |  |
| --- | --- |
| Function interface | void js\_printNoBarcodeText() |
| Function Description | Hide barcode text, set before printing barcode |
| Parameter Description | none |
| return value | Void |

## 3.35 Print status callback

|  |  |
| --- | --- |
| Function interface | void onPrintStatus(state) |
| Function Description | Print status callback |
| Parameter Description | none |
| return value | state: 0 Successful printing: 1 Out of paper:  2Printing failed: 3Printing and feeding paper to the last one |

## 3.36 Get the version number

|  |  |
| --- | --- |
| Function interface | void onVersion(s) |
| Function Description | version number |
| Parameter Description | none |
| return value | s: version |

## 3.37 Get printer temperature

|  |  |
| --- | --- |
| Function interface | void onTemperature(s) |
| Function Description | Temperature callback |
| Parameter Description | none |
| return value | s: temperature |

# 4 Appendix 1

## 4.1 Printer encoding type

n = 2, UTF-8 encoding; n = 3, CODEPAGE encoding

## 4.2 Printer support languages

|  |  |
| --- | --- |
| n | Code page |
| 0 | PC437[American, European Standard] |
| 3 | PC860 [Spanish], [Portuguese] |
| 7 | PC737 [Greek] |
| 15 | PC936 [Chinese Simplified], PC950 [Traditional Chinese], PC932 [Japanese] |
| 18 | PC852:Latin2 [Latin] |
| 19 | PC858 [Western European] |
| twenty one | PC866 [Slavic/Russian] |
| twenty three | CP857 [Turkish] |
| 32 | CP874 [Thai] |
| 41 | CP1258[Vietnam] |

For specific settings of encoding and language, please refer to the language setting of printer initialization

# 5. Appendix 2

## 5.1 One-vote-one-control on small tickets

For the serial number of one vote, one control, please refer to the one vote one control document.

## 5.2 Matters needing attention

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

2. When performing continuous label printing, please print the next one after the printing is completed. Directly using the loop to send will cause data confusion, and the loop will be adjusted soon. The content of the previous one is not finished yet, and the next one is sent again; Therefore, one ticket and one control are turned on during initialization. After opening, the ticket serial number and ending mark are sent at the head and tail of the printed content. After the printer finishes printing, it will return the serial number sent, and the serial port will print successfully when the serial number sent is received.

3. When the firmware version of the device is 9030, there is no need to call the paper ejection method, this version can automatically eject the paper when the black mark is turned on.

4. When using Thai, please set the printer code to utf-8, otherwise garbled characters will appear.

5. The psam function needs to be matched.

# 6. Interface usage example

var lineparam = {

LINE\_LENGTH: 3

};

var mlineparam = JSON.stringify(lineparam);

Android\_Printer.js\_printLine(mlineparam);

# Get started quickly

1. Initialization

Android\_Printer.js\_initPrinter();

2. Printing

function printText() {

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

var param = {

DATATEXT: strText

};

var strParam = JSON.stringify(param);

var concentparam = {

FONT\_LEVEl: font\_level

};

var mconcentparam = JSON.stringify(concentparam);

var lineparam = {

LINE\_LENGTH: 4

};

var mlineparam = JSON.stringify(lineparam);

Android\_Printer.js\_printStartNumber();

Android\_Printer.js\_printState();

Android\_Printer.js\_printConcentration(mconcentparam);

Android\_Printer.js\_printLine();

Android\_Printer.js\_printText(strParam);

Android\_Printer.js\_printLine();

if (black) {

Android\_Printer.js\_printGoToNextMark();

} else {

Android\_Printer.js\_printLine(mlineparam);

}

Android\_Printer.js\_printEndNumber();

}