ZQ110
Mobile Printer iOS SDK API Reference Guide
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<td>checkPrinter</td>
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<td>msrGetTrack</td>
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<td>msrReadFullTrack</td>
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<td>nvImageList</td>
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<td>downloadNVImage (Diffusion)</td>
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<tr>
<td>downloadNVImage (Normal)</td>
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<td>printNVImage</td>
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<td>removeNVImage</td>
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<td>removeAllNVImages</td>
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<td>isSupport_LSB</td>
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<tr>
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<td>didStop</td>
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<td>didFindPrinter</td>
<td>39</td>
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<tr>
<td>didConnect</td>
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<td>didNotConnect</td>
<td>39</td>
</tr>
<tr>
<td>willLookupPrinters</td>
<td>40</td>
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<td>didLookupPrinters</td>
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<td>didNotLookup</td>
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<td>didBeBrokenConnection</td>
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• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and the receiver.
• Connect the equipment to an outlet or circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.
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1. Manual Information

This iOS SDK API Reference Guide contains the descriptions of the Library required for the applications program development.

1-1 Supported Platform & Development Environment

- Platform
  - iOS 5.1.1 or higher

1-2 Supported Platform & Supported Devices

Compatibility of the following devices was verified:
  - iPhone 4G / 5G / 5GS
  - iPad2 / iPad mini

1-3 Supported Properties List

<table>
<thead>
<tr>
<th>Method/Property</th>
<th>Mobile Printer (ZQ110)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>Supported</td>
</tr>
<tr>
<td>delegate</td>
<td>Supported</td>
</tr>
<tr>
<td>Target</td>
<td>Supported</td>
</tr>
<tr>
<td>lookupDuration</td>
<td>Supported</td>
</tr>
<tr>
<td>lookupCount</td>
<td>Supported</td>
</tr>
<tr>
<td>alignment</td>
<td>Supported</td>
</tr>
<tr>
<td>attribute</td>
<td>Supported</td>
</tr>
<tr>
<td>textSize</td>
<td>Not supported</td>
</tr>
<tr>
<td>characterSet</td>
<td>Supported</td>
</tr>
<tr>
<td>internationalCharacterSet</td>
<td>Supported</td>
</tr>
<tr>
<td>State</td>
<td>Supported</td>
</tr>
<tr>
<td>Power</td>
<td>Supported</td>
</tr>
<tr>
<td>AutoConnection</td>
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</table>
## 1-4 Supported Properties List

<table>
<thead>
<tr>
<th>Method/Property</th>
<th>Mobile Printer (ZQ110)</th>
</tr>
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<tbody>
<tr>
<td>getInstance</td>
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</tr>
<tr>
<td>open</td>
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<tr>
<td>close</td>
<td>Supported</td>
</tr>
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<td>connect</td>
<td>Supported</td>
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<tr>
<td>disconnect</td>
<td>Supported</td>
</tr>
<tr>
<td>disconnectWithTimeout</td>
<td>Supported</td>
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<tr>
<td>isConnected</td>
<td>Supported</td>
</tr>
<tr>
<td>enableLSB</td>
<td>Not supported</td>
</tr>
<tr>
<td>printText</td>
<td>Supported</td>
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<tr>
<td>printBox</td>
<td>Supported</td>
</tr>
<tr>
<td>lineFeed</td>
<td>Supported</td>
</tr>
<tr>
<td>nextPrintPos</td>
<td>Supported</td>
</tr>
<tr>
<td>printBarcode</td>
<td>Supported</td>
</tr>
<tr>
<td>printBitmap</td>
<td>Supported</td>
</tr>
<tr>
<td>checkPrinter</td>
<td>Supported</td>
</tr>
<tr>
<td>msrReadReady</td>
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<td>msrReadCancel</td>
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<tr>
<td>msrReadCancelEx</td>
<td>Supported</td>
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<tr>
<td>msrReadTrack</td>
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<td>msrGetTrack</td>
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<td>msrReadFullTrack</td>
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<td>directIO</td>
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<td>nvImageList</td>
<td>Supported</td>
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<tr>
<td>downloadNVImage (Diffusion)</td>
<td>Supported</td>
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<tr>
<td>downloadNVImage (Normal)</td>
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<td>printNVImage</td>
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<td>removeNVImage</td>
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<td>removeAllNVImages</td>
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<td>isSupport_MSR</td>
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<tr>
<td>isSupport_Barcode</td>
<td>Supported</td>
</tr>
<tr>
<td>getBarcodeSupportTable</td>
<td>Supported</td>
</tr>
</tbody>
</table>
## 2. Constant Definition

Constants used in the SDK are defined in the “BXCode.h” file.

### 2-1 Character Set

The following table defines the available code page values. The default value is set to BXL_CS_437.

<table>
<thead>
<tr>
<th>Code</th>
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<th>Description</th>
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<td>Code page PC437</td>
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<tr>
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<tr>
<td>BXL_CS_PC850</td>
<td>2</td>
<td>Code page PC850(Multilingual)</td>
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<td>BXL_CS_PC860</td>
<td>3</td>
<td>Code page PC860(Portuguese)</td>
</tr>
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<td>BXL_CS_PC863</td>
<td>4</td>
<td>Code page PC863(Canadial-French)</td>
</tr>
<tr>
<td>BXL_CS_PC865</td>
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<td>Code page PC865(Nordic)</td>
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<tr>
<td>BXL_CS_PC1252</td>
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<td>Code page PC1252 (Latin 1)</td>
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<tr>
<td>BXL_CS_PC866</td>
<td>17</td>
<td>Code page PC866(Cyrillic #2)</td>
</tr>
<tr>
<td>BXL_CS_PC852</td>
<td>18</td>
<td>Code page PC852 (Latin 2)</td>
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<td>BXL_CS_PC858</td>
<td>19</td>
<td>Code page PC858 (Euro)</td>
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<td>BXL_CS_PC864</td>
<td>22</td>
<td>Code page PC864 (Hebrew DOS code)</td>
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<td>BXL_CS_PC862</td>
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<td>Code page PC862(Hebrew Old code)</td>
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<td>Code page PC737(Greek)</td>
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<td>BXL_CS_THAI14</td>
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<td>Code page THAI14</td>
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<td>BXL_CS_HEBREW</td>
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<td>Code page Hebrew Old code</td>
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<td>Code page PC1255(Hebrew New code)</td>
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<td>Code page PC855 (Cyrillic)</td>
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<td>Code page THAI16</td>
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<td>Code page WPC1256 (Arabic)</td>
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<td>BXL_CS_PC857</td>
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<td>Code page WPC1258(Vietnam)</td>
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<td>Code page Khmer(Cambodia)</td>
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<td>BXL_CS_THAI16</td>
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<td>Code page WPC1250(Czech)</td>
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<tr>
<td>BXL_CS_WPC1252</td>
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<td>Code page WPC1252(Latin 9)</td>
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<tr>
<td>BXL_CS_USER</td>
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<td>User set page</td>
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2-2 International Character Set

The following table defines the available international character set. The default value is set to BXL_ICS_USA.

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<th>Description</th>
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<td>Denmark I</td>
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<td>Korea</td>
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</table>

2-3 Barcode/Image/Text Alignment

The following table defines the available bar code/image/text alignment. The default value is set to BXL_ALIGNMENT_LEFT.

<table>
<thead>
<tr>
<th>Code</th>
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<td>Left align</td>
</tr>
<tr>
<td>BXL_ALIGNMENT_CENTER</td>
<td>1</td>
<td>Center align</td>
</tr>
<tr>
<td>BXL_ALIGNMENT_RIGHT</td>
<td>2</td>
<td>Right align</td>
</tr>
</tbody>
</table>

2-4 Text Size

The following table defines the available settings for the text size, and horizontal and vertical ratio can be defined simultaneously with the OR operation.

<table>
<thead>
<tr>
<th>Code</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXL_TS_0WIDTH</td>
<td>0</td>
<td>Set the ratio of horizontal width to X1</td>
</tr>
<tr>
<td>BXL_TS_1WIDTH</td>
<td>16</td>
<td>Set the ratio of horizontal width to X2</td>
</tr>
<tr>
<td>BXL_TS_2WIDTH</td>
<td>32</td>
<td>Set the ratio of horizontal width to X3</td>
</tr>
<tr>
<td>BXL_TS_3WIDTH</td>
<td>48</td>
<td>Set the ratio of horizontal width to X4</td>
</tr>
<tr>
<td>BXL_TS_4WIDTH</td>
<td>64</td>
<td>Set the ratio of horizontal width to X5</td>
</tr>
<tr>
<td>BXL_TS_5WIDTH</td>
<td>80</td>
<td>Set the ratio of horizontal width to X6</td>
</tr>
<tr>
<td>BXL_TS_6WIDTH</td>
<td>96</td>
<td>Set the ratio of horizontal width to X7</td>
</tr>
<tr>
<td>BXL_TS_7WIDTH</td>
<td>112</td>
<td>Set the ratio of horizontal width to X8</td>
</tr>
<tr>
<td>Code</td>
<td>Value</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>-------</td>
<td>-------------------------------------------------</td>
</tr>
<tr>
<td>BXL_TS_0HEIGHT</td>
<td>0</td>
<td>Set the ratio of vertical height to X1</td>
</tr>
<tr>
<td>BXL_TS_1HEIGHT</td>
<td>16</td>
<td>Set the ratio of vertical height to X2</td>
</tr>
<tr>
<td>BXL_TS_2HEIGHT</td>
<td>32</td>
<td>Set the ratio of vertical height to X3</td>
</tr>
<tr>
<td>BXL_TS_3HEIGHT</td>
<td>48</td>
<td>Set the ratio of vertical height to X4</td>
</tr>
<tr>
<td>BXL_TS_4HEIGHT</td>
<td>64</td>
<td>Set the ratio of vertical height to X5</td>
</tr>
<tr>
<td>BXL_TS_5HEIGHT</td>
<td>80</td>
<td>Set the ratio of vertical height to X6</td>
</tr>
<tr>
<td>BXL_TS_6HEIGHT</td>
<td>96</td>
<td>Set the ratio of vertical height to X7</td>
</tr>
<tr>
<td>BXL_TS_7HEIGHT</td>
<td>112</td>
<td>Set the ratio of vertical height to X8</td>
</tr>
</tbody>
</table>

**2-5 Text Attribute**

The following table defines available text properties. Each property can be combined with the OR operation.

<table>
<thead>
<tr>
<th>Code</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXL_FT_DEFAULT</td>
<td>0</td>
<td>Default setting</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NOT BOLD, FONTA, NOT UNDERLINE, NOT REVERSE</td>
</tr>
<tr>
<td>BXL_FT_FONTB</td>
<td>1</td>
<td>Use FONTB</td>
</tr>
<tr>
<td>BXL_FT_FONTC</td>
<td>16</td>
<td>Use FONTC</td>
</tr>
<tr>
<td>BXL_FT_BOLD</td>
<td>2</td>
<td>Use Bold font</td>
</tr>
<tr>
<td>BXL_FT_UNDERLINE</td>
<td>4</td>
<td>Set Underline property</td>
</tr>
<tr>
<td>BXL_FT_REVERSE</td>
<td>8</td>
<td>Set Reverse property</td>
</tr>
</tbody>
</table>

**2-6 Barcode Text Position**

The following table defines the available barcode text positions (the position where barcode data is printed in relation to the barcode).

<table>
<thead>
<tr>
<th>Code</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXL_BC_TEXT_NONE</td>
<td>0</td>
<td>Do not print barcode data</td>
</tr>
<tr>
<td>BXL_BC_TEXT_ABOVE</td>
<td>1</td>
<td>Print bar code data above barcode</td>
</tr>
<tr>
<td>BXL_BC_TEXT_BELOW</td>
<td>2</td>
<td>Print bar code data below barcode</td>
</tr>
</tbody>
</table>
2-7 Barcode Symbology

The following table defines the available bar code types.

<table>
<thead>
<tr>
<th>Code</th>
<th>Value</th>
<th>Number of data</th>
<th>Range of data</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXL_BCS_UPCA</td>
<td>101</td>
<td>11 &lt;= n &lt;= 12</td>
<td>48 &lt;= data &lt;= 57</td>
</tr>
<tr>
<td>BXL_BCS_UPCE</td>
<td>102</td>
<td>11 &lt;= n &lt;= 12</td>
<td>48 &lt;= data &lt;= 57</td>
</tr>
<tr>
<td>BXL_BCS_EAN13</td>
<td>103</td>
<td>12 &lt;= n &lt;= 13</td>
<td>48 &lt;= data &lt;= 47</td>
</tr>
<tr>
<td>BXL_BCS_JAN13</td>
<td>104</td>
<td>7 &lt;= n &lt;= 8</td>
<td>48 &lt;= data &lt;= 57</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>data = 32,36,37,43,45,46,47</td>
</tr>
<tr>
<td>BXL_BCS_EAN8</td>
<td>105</td>
<td>7 &lt;= n &lt;= 8</td>
<td>48 &lt;= data &lt;= 57</td>
</tr>
<tr>
<td>BXL_BCS_JAN8</td>
<td>106</td>
<td>7 &lt;= n &lt;= 8</td>
<td>48 &lt;= data &lt;= 57</td>
</tr>
<tr>
<td>BXL_BCS_Code39</td>
<td>107</td>
<td>1 &lt;= n &lt;= 255</td>
<td>48 &lt;= data &lt;= 57</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>data = 32,36,37,43,45,46,47</td>
</tr>
<tr>
<td>BXL_BCS_ITF</td>
<td>108</td>
<td>1 &lt;= n &lt;= 255</td>
<td>48 &lt;= data &lt;= 57</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(Even)</td>
</tr>
<tr>
<td>BXL_BCS_Codabar</td>
<td>109</td>
<td>1 &lt;= n &lt;= 255</td>
<td>48 &lt;= data &lt;= 57</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>data = 36,43,45,46,47,58</td>
</tr>
<tr>
<td>BXL_BCS_Code93</td>
<td>110</td>
<td>1 &lt;= n &lt;= 255</td>
<td>0 &lt;= data &lt;= 127</td>
</tr>
<tr>
<td>BXL_BCS_Code128</td>
<td>111</td>
<td>2 &lt;= n &lt;= 255</td>
<td>0 &lt;= data &lt;= 127</td>
</tr>
<tr>
<td>BXL_BCS_PDF417</td>
<td>200</td>
<td>2 &lt;= n &lt;= 928</td>
<td>0 &lt;= data &lt;= 255</td>
</tr>
<tr>
<td>BXL_BCS_QRCODE_MODEL1</td>
<td>202</td>
<td>2 &lt;= n &lt;= 928</td>
<td>0 &lt;= data &lt;= 255</td>
</tr>
<tr>
<td>BXL_BCS_QRCODE_MODEL2</td>
<td>203</td>
<td>2 &lt;= n &lt;= 928</td>
<td>0 &lt;= data &lt;= 255</td>
</tr>
<tr>
<td>BXL_BCS_DATAMATRIX</td>
<td>204</td>
<td>2 &lt;= n &lt;= 928</td>
<td>0 &lt;= data &lt;= 255</td>
</tr>
<tr>
<td>BXL_BCS_GS1_RSS14</td>
<td>208</td>
<td>0 &lt;= GTINn &lt;= 13</td>
<td>48 &lt;= GTIN &lt;= 57</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 &lt;= AIn &lt;= 164</td>
<td>0 &lt;= Al &lt;= 255</td>
</tr>
<tr>
<td>BXL_BCS_GS1_RSS14TRUNCATED</td>
<td>209</td>
<td>0 &lt;= GTINn &lt;= 13</td>
<td>48 &lt;= GTIN &lt;= 57</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 &lt;= AIn &lt;= 164</td>
<td>0 &lt;= Al &lt;= 255</td>
</tr>
<tr>
<td>BXL_BCS_GS1_RSS14STACKED</td>
<td>210</td>
<td>0 &lt;= GTINn &lt;= 13</td>
<td>48 &lt;= GTIN &lt;= 57</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 &lt;= AIn &lt;= 45</td>
<td>0 &lt;= Al &lt;= 255</td>
</tr>
<tr>
<td>BXL_BCS_GS1_RSS14STACKED_OMNIDIRECTIONAL</td>
<td>211</td>
<td>0 &lt;= GTINn &lt;= 13</td>
<td>48 &lt;= GTIN &lt;= 57</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 &lt;= AIn &lt;= 45</td>
<td>0 &lt;= Al &lt;= 255</td>
</tr>
<tr>
<td>BXL_BCS_GS1_UPCA</td>
<td>214</td>
<td>0 &lt;= GTINn &lt;= 12</td>
<td>48 &lt;= GTIN &lt;= 57</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 &lt;= AIn &lt;= 164</td>
<td>0 &lt;= Al &lt;= 255</td>
</tr>
<tr>
<td>BXL_BCS_GS1_UPCE</td>
<td>215</td>
<td>0 &lt;= GTINn &lt;= 13</td>
<td>48 &lt;= GTIN &lt;= 57</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 &lt;= AIn &lt;= 46</td>
<td>0 &lt;= Al &lt;= 255</td>
</tr>
<tr>
<td>BXL_BCS_GS1_EAN13</td>
<td>216</td>
<td>0 &lt;= GTINn &lt;= 12</td>
<td>48 &lt;= GTIN &lt;= 57</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 &lt;= AIn &lt;= 164</td>
<td>0 &lt;= Al &lt;= 255</td>
</tr>
<tr>
<td>BXL_BCS_GS1_EAN8</td>
<td>217</td>
<td>0 &lt;= GTINn &lt;= 12</td>
<td>48 &lt;= GTIN &lt;= 57</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 &lt;= AIn &lt;= 106</td>
<td>0 &lt;= Al &lt;= 255</td>
</tr>
<tr>
<td>BXL_BCS_GS1_EAN128CC_AB</td>
<td>218</td>
<td>0 &lt;= GTINn &lt;= 48</td>
<td>48 &lt;= GTIN &lt;= 57</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 &lt;= AIn &lt;= 164</td>
<td>0 &lt;= Al &lt;= 255</td>
</tr>
<tr>
<td>BXL_BCS_GS1_EAN128CC_C</td>
<td>219</td>
<td>0 &lt;= GTINn &lt;= 48</td>
<td>48 &lt;= GTIN &lt;= 57</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 &lt;= AIn &lt;= 164</td>
<td>0 &lt;= Al &lt;= 255</td>
</tr>
<tr>
<td>BXL_BCS_AZTEC_DATA</td>
<td>220</td>
<td>0 &lt;= AIn &lt;= 300</td>
<td>0 &lt;= data &lt;= 255</td>
</tr>
<tr>
<td>BXL_BCS_AZTEC_GS1</td>
<td>221</td>
<td>0 &lt;= AIn &lt;= 300</td>
<td>0 &lt;= data &lt;= 255</td>
</tr>
<tr>
<td>BXL_BCS_AZTEC_LATIN1</td>
<td>222</td>
<td>0 &lt;= AIn &lt;= 300</td>
<td>0 &lt;= data &lt;= 255</td>
</tr>
</tbody>
</table>
2-8 Image Width

The following table defines the available settings for resizing the width of an image. The valid range is 0 to maximum width.

<table>
<thead>
<tr>
<th>Code</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXL_WIDTH_FULL</td>
<td>-1</td>
<td>Value is set to max width and the image is resized to the full paper size</td>
</tr>
<tr>
<td>BXL_WIDTH_NONE</td>
<td>-2</td>
<td>Image is not resized</td>
</tr>
</tbody>
</table>

2-9 Power

The read-only Power setting indicates the remaining battery capacity of the printer. A change of battery status is shown automatically.

Supported Device: Mobile Printer (ZQ110)

The remaining battery capacity status values are as follows.

<table>
<thead>
<tr>
<th>Code</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXL_PWR_HIGH</td>
<td>0</td>
<td>Remaining battery capacity is 95%</td>
</tr>
<tr>
<td>BXL_PWR_MIDDLE</td>
<td>1</td>
<td>Remaining battery capacity is 85%</td>
</tr>
<tr>
<td>BXL_PWR_LOW</td>
<td>2</td>
<td>Remaining battery capacity is 50%</td>
</tr>
<tr>
<td>BXL_PWR_SMALL</td>
<td>3</td>
<td>Remaining battery capacity is 25%</td>
</tr>
<tr>
<td>BXL_PWR_NOT</td>
<td>4</td>
<td>Remaining battery capacity is less than 25%</td>
</tr>
</tbody>
</table>

2-10 State

The read-only Status setting indicates the status of the printer. The status of the printer is shown automatically when printer status is checked by calling the CheckPrinter function. Status values can be combined, and each setting can be checked through bit operation.

Printer status settings are as follows.

<table>
<thead>
<tr>
<th>Code</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXL_STS_NORMAL</td>
<td>0</td>
<td>Normal</td>
</tr>
<tr>
<td>BXL_STS_PAPEREMPTY</td>
<td>1</td>
<td>No paper</td>
</tr>
<tr>
<td>BXL_STS_COVEROPEN</td>
<td>2</td>
<td>Printer cover open</td>
</tr>
<tr>
<td>BXL_STS_POWEROVER</td>
<td>4</td>
<td>Not enough remaining battery of printer</td>
</tr>
<tr>
<td>BXL_STS_MSR_READY</td>
<td>8</td>
<td>No printing MSR read only mode</td>
</tr>
<tr>
<td>BXL_STS_PRINTING</td>
<td>16</td>
<td>Printer is printing or receiving data</td>
</tr>
<tr>
<td>BXL_STS_ERROR</td>
<td>32</td>
<td>Error in communication with printer</td>
</tr>
<tr>
<td>BXL_STS_NOT_OPEN</td>
<td>64</td>
<td>Open method of BXPrinterControl was not called</td>
</tr>
<tr>
<td>BXL_STS_ERROR_OCCUR</td>
<td>128</td>
<td>Printer internal error</td>
</tr>
<tr>
<td>BXL_STS_NOT_CONNECTED</td>
<td>-1</td>
<td>Currently printer is not connected</td>
</tr>
</tbody>
</table>
2-11 Connection Control

The following table defines the type of printer connection.

<table>
<thead>
<tr>
<th>Code</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXL_CONNECTIONMODE_AUTO</td>
<td>0</td>
<td>Automatic connect mode</td>
</tr>
<tr>
<td>BXL_CONNECTIONMODE_NOAUTO</td>
<td>100</td>
<td>Not automatic connect mode</td>
</tr>
</tbody>
</table>

2-12 Model ID

The model ID defines the type of printer.

Available settings are as follows.

<table>
<thead>
<tr>
<th>Code</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXL_MODEL_ID_ZQ110</td>
<td>0x12001003</td>
<td>ZQ110</td>
</tr>
</tbody>
</table>

2-13 Connection Class

When the method 'didFindPrinter' is called, this value is updated to connectionClass in BXPrinter class.

Refer to 6-2-3 didFindPrinter for more information.

<table>
<thead>
<tr>
<th>Code</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXL_CONNECTIONCLASS_WIFI</td>
<td>0x0000</td>
<td>WIFI Connection</td>
</tr>
<tr>
<td>BXL_CONNECTIONCLASS_Ethernet</td>
<td>0x0001</td>
<td>Ethernet Connection</td>
</tr>
<tr>
<td>BXL_CONNECTIONCLASS_BT</td>
<td>0x0002</td>
<td>Bluetooth Connection</td>
</tr>
</tbody>
</table>
### 2-14 Result Code

The following table defines the possible result codes.

<table>
<thead>
<tr>
<th>Code DEFINE</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXL_SUCCESS</td>
<td>0</td>
<td>Success</td>
</tr>
<tr>
<td>BXL_NOT_CONNECTED</td>
<td>-1</td>
<td>Printer is not connected</td>
</tr>
<tr>
<td>BXL_NOT_OPENED</td>
<td>101</td>
<td>SDK is not open</td>
</tr>
<tr>
<td>BXL_STATUS_ERROR</td>
<td>103</td>
<td>Error in status check</td>
</tr>
<tr>
<td>BXL_CONNECT_ERROR</td>
<td>105</td>
<td>Connection failure</td>
</tr>
<tr>
<td>BXL_NOT_SUPPORT</td>
<td>107</td>
<td>Not supported</td>
</tr>
<tr>
<td>BXL_BAD_ARGUMENT</td>
<td>108</td>
<td>Wrong function arguments</td>
</tr>
<tr>
<td>BXL_BUFFER_ERROR</td>
<td>109</td>
<td>Error in MSR buffer</td>
</tr>
<tr>
<td>BXL_NOT_CONNECTED</td>
<td>110</td>
<td>Printer is not connected</td>
</tr>
<tr>
<td>BXL_RGBA_ERROR</td>
<td>111</td>
<td>Error while converting image file to RGBA data</td>
</tr>
<tr>
<td>BXL_MEMORY_ERROR</td>
<td>112</td>
<td>Memory allocation failure</td>
</tr>
<tr>
<td>BXL_TOO_LARGE_IMAGE</td>
<td>113</td>
<td>Size of image file is too big while downloading image to NV area</td>
</tr>
<tr>
<td>BXL_NOT_SUPPORT_DEVICE</td>
<td>114</td>
<td>The printer device does not support</td>
</tr>
<tr>
<td>BXL_READ_ERROR</td>
<td>301</td>
<td>Failure in data reception</td>
</tr>
<tr>
<td>BXL_WRITE_ERROR</td>
<td>300</td>
<td>Failure in data transmission</td>
</tr>
<tr>
<td>BXL_BITMAPLOAD_ERROR</td>
<td>400</td>
<td>Fail to read image file</td>
</tr>
<tr>
<td>BXL_BC_DATA_ERROR</td>
<td>500</td>
<td>Error in bar code data</td>
</tr>
<tr>
<td>BXL_BC_NOT_SUPPORT</td>
<td>501</td>
<td>Unsupported bar code type</td>
</tr>
<tr>
<td>BXLMSR_NOTREADY</td>
<td>602</td>
<td>Not MSR READY state</td>
</tr>
<tr>
<td>BXLMSR_FAILEDMODE</td>
<td>601</td>
<td>Not automatic read mode</td>
</tr>
<tr>
<td>BXLMSR_DATAEMPTY</td>
<td>603</td>
<td>No data read from MSR</td>
</tr>
</tbody>
</table>
3. BXBarcode Class Reference

<table>
<thead>
<tr>
<th>Inherits from</th>
<th>NSObject</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirms to</td>
<td></td>
</tr>
<tr>
<td>Framework</td>
<td>BXPrinter.a</td>
</tr>
<tr>
<td>[Availability]</td>
<td>iOS Printer SDK 1.0.0 and later</td>
</tr>
<tr>
<td>Declared</td>
<td>BXBarcodeInfo.h</td>
</tr>
</tbody>
</table>

3-1 Overview
BXBarcode class is an object that contains information about which barcode types are supported for each printer to control.

3-2 Properties

3-2-1 barNumber
Define Barcode Number

@property int barNumber

[Discussion]
The ‘barNumber’ is saved automatically by collecting information from the connected printer.

[Availability]
SDK 1.0.0 and later

3-2-2 name
Barcode Name

@property(readwrite) NSString * name

[Discussion]
The ‘name’ is saved automatically by collecting information from the connected printer.

[Availability]
SDK 1.0.0 and later

3-2-3 support
Barcode Availability

@property BOOL support

[Discussion]
The ‘support’ is saved automatically by collecting information from the connected printer.

[Availability]
SDK 1.0.0 and later
4. BXPrinter Class Reference

<table>
<thead>
<tr>
<th>Inherits from</th>
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</tr>
<tr>
<td>Declared</td>
<td>BXPrinterObject.h</td>
</tr>
</tbody>
</table>

4-1 Overview
BXPrinter Class contains the information of the control target printer (name/network address/port).

4-2 Properties

4-2-1 name
Printer Name

@property(readonly) NSString * name

[Discussion]
The ‘name’ is saved automatically by collecting information from the connected printer.

[Availability]
SDK 1.0.0 and later

4-2-2 address
For Wifi Printer, The ‘address’ is ip address of Printer
For Bluetooth Printer, The ‘address’ is ConnectionID of Printer

@property(readwrite) NSString * address

[Discussion]
Target Printer should be assigned first before making a connection
Refer to 5-3-6 connect regarding connection

[Availability]
SDK 1.0.0 and later

4-2-3 port
For ZQ110 Wifi model, 9100 port is usually used

@property(readwrite) unsigned short port

[Availability]
SDK 1.0.0 and later
4-2-4 modelStr
Model Name of Printer
The model name is provided by the firmware. For the ZQ110 printer, _ZQ110 is returned.
@property(readwrite) NSString * modelStr

[Discussion]
This value is updated by the checkPrinter method of BXPrinterController.

[Availability]
SDK 1.0.0 and later

4-2-5 versionStr
Firmware Version of Printer
The version name is provided by the firmware. For the ZQ110, it is in the form of _V01.00 STOB 040711.
@property(readwrite) NSString * versionStr

[Discussion]
This value is updated by the checkPrinter method of BXPrinterController.

[Availability]
SDK 1.0.0 and later

4-2-6 macAddress
Mac Address of Printer
@property(readwrite) NSString * macAddress

[Availability]
SDK 1.0.0 and later

4-2-7 connectionClass
Printer interface type.
This value represents the way that the printer is connected. Refer to 2-13 Connection Class.
@property(readwrite) unsigned short * connectionClass

[Availability]
SDK 1.0.0 and later

4-2-8 bluetoothDeviceName
Bluetooth Device Name.
The ‘name’ is saved automatically by collecting information from the connected printer.
@property(readOnly) NSString * bluetoothDeviceName

[Availability]
SDK 1.0.0 and later
5. BXPrinterController Class Reference

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</table>

5-1 Overview
BXPrinterController Class is the main object for printer control.

5-2 Properties

5-2-1 version
SDK Version

@property(readonly) NSString * version

[Discussion]
SDK Version is a read-only string in the form of “1.0.0”.

[Availability]
SDK 1.0.0 and later

5-2-2 delegate
Assign the Object to Apply BXPrinterControlDelegate Method

@property(readwrite) id<BXPrinterControlDelegate> delegate

[Availability]
SDK 1.0.0 and later

5-2-3 target
Control Target Printer Object

@property(readwrite) BXPrinter * target

[Discussion]
The control target printer object should be assigned before starting printer control.

[Availability]
SDK 1.0.0 and later
5-2-4 lookupDuration
Printer Lookup Time (unit: second)

@property(readwrite) CGFloat lookupDuration

[Discussion]
The value could be a fractional number such as 0.5.

[Availability]
SDK 1.0.0 and later

5-2-5 lookupCount
Number of Repeats on Signal Transmission for Printer Search

@property(readwrite) unsigned lookupCount

[Discussion]
The default value is set to 1. When this value is set to a number larger than 1, the printer search signal transmission is repeated by this number at intervals of 0.2 seconds.

[Availability]
SDK 1.0.0 and later

5-2-6 alignment
Horizontal Alignment Setting

@property(readwrite) int alignment

[Discussion]
The default value is set to left alignment. This setting affects all output printing, including text and bar code.

[Availability]
SDK 1.0.0 and later

5-2-7 attribute
Text Printing Property

@property(readwrite) int attribute

[Discussion]
Refer to 2-5 Text Attribute

[Availability]
SDK 1.0.0 and later
5-2-8 **textSize**  
Size of the Printed Text

```
@property(readwrite) int textSize
```

**[Discussion]**  
Refer to 2-4 Text Size

**[Availability]**  
SDK 1.0.0 and later

5-2-9 **characterSet**  
Printer Code Page

```
@property(readwrite) CGFloat characterSet
```

**[Discussion]**  
Refer to 2-1 Character Set. Default value is set to BXL_CS_437.

**[Availability]**  
SDK 1.0.0 and later

5-2-10 **internationalCharacterSet**  
International Character Set

```
@property(readwrite) char internationalCharacterSet
```

**[Discussion]**  
Refer to 2-2 International Character Set. Default value is set to BXL_CS_USA.

**[Availability]**  
SDK 1.0.0 and later

5-2-11 **textEncoding**  
Type of Text Encoding.

```
@property(readwrite) long textEncoding
```

**[Discussion]**  
Refer to NSStringEncoding in NSString.h


**[Availability]**  
SDK 1.0.0 and later
5-2-12 state
Printer State Code

This value is updated when checkPrinter method of BXPrinterController is called.

@property(readonly) long state

[Discussion]
Refer to 2-10 State

[Availability]
SDK 1.0.0 and later

5-2-13 power
Printer Power

@property(readonly) long state

[Discussion]
Refer to 2-9 Power

[Availability]
SDK 1.0.0 and later

5-2-14 AutoConnection
Printer Connection

@property(assign) int AutoConnection

[Discussion]
Refer to 2-11 Connection Control

[Availability]
SDK 1.0.0 and later

>Note>
※ Printer connection is controlled automatically without using connect/disconnect function in the automatic connection mode.
※ Consecutive use of printText function may slow down the printing speed because most functions have a connect/disconnect job at the beginning and end of it. Use the manual connection mode to address this issue.

5-2-15 errorCorrection
Sets the error correction level of the QR code

@property(assign) int errorCorrection

[Discussion]
Refer to 2-11 Connection Control

[Availability]
SDK 1.0.0 and later
5-3 Instance Methods

5-3-1 getInstance
Obtain the BXPrinterController Class Instance

[Function prototype]
- (BXPrinterController)getInstance

[Return Value]
BXPrinterController class is created and returned automatically the first time that this method is called. The existing BXPrinterController class is returned thereafter.

[Discussion]
Because BXPrinterController class uses only one instance in one process, it is recommended that you allow the class instance to be created automatically instead of creating it manually.

[Availability]
SDK 1.0.0 and later

5-3-2 open
Initialization Task for Using BXPrinterController Class (memory allocation and background thread operation)

[Function prototype]
- (void)open

[Discussion]
- This task should be performed before calling the main delegate of applications such as (void)applicationDidBecomeActive:(UIApplication *)

[Availability]
SDK 1.0.0 and later

5-3-3 close
Deallocate Resources

Resources are deallocated while stopping or terminating the use of BXPrinterController class.

[Discussion]
- This task should be performed before calling the main delegate of applications such as (void)applicationWillResignActive:(UIApplication *).
When the close method is not called and applications using BXPrinterController are running in the background, simultaneous use of BXPrinterController by other applications could be restricted.

[Availability]
SDK 1.0.0 and later
5-3-4 lookup
Wireless Lookup

The following printers are searched:
- Paired Bluetooth printers with iPhone
- Printers in the same WiFi network where iPhone is connected

[Function prototype]
- (void)lookup

[Discussion]
Start/End of search and searched printers can be obtained through BXPrinter ControlDelegate. Each iPhone has two network adaptors including 3G and WiFi networks, and the lookup method searches WiFi only. No operation takes place when there is no connected WiFi.

[Availability]
SDK 1.0.0 and later

5-3-5 selectTarget
Initialization Task for Object of Specified Target

[Function prototype]
- (long)selectTarget
- (long)selectTarget : (int) modelID

[Parameters]
modelID
- Select the type of printer.
- You do not need to input it but it will be automatically allocated.
Refer to 2-12 Model ID.

[Return Value]
Refer to 2-14 Result Code

[Discussion]
The target of BXPrinterController should be set in advance.

[Availability]
SDK 1.0.0 and later
5-3-6 connect
Connect to Target Printer

[Function prototype]
- (BOOL)connect

[Discussion]
This method does not work when AutoConnection is set using BXL_CONNECTIONMODE_AUTO(default, == 0)
The target of BXPrinterController should be set in advance.

[Availability]
SDK 1.0.0 and later

5-3-7 disconnect
Disconnect from the Connected Printer

[Function prototype]
- (void)disconnect

[Discussion]
This method does not work when AutoConnection is set using BXL_CONNECTIONMODE_AUTO(default, == 0).

[Availability]
SDK 1.0.0 and later

5-3-8 disconnectWithTimeout
Disconnect from the Connected Printer with Timeout

If data remains in the buffer, this remaining data will be transmitted to the printer.

[Function prototype]
- (void)disconnectWithTimeout:(int)timeout

[Parameters]
int timeout

(timeout == 0)
The timeout is not used. Disconnects the connected printer immediately even if data exist in the buffer.
(timeout < 0)
The connection is not disconnected until the data remaining in the buffer have been transmitted to the printer. This transmission can take a long time if the data-size is large.
(timeout > 0)
If data remains in the buffer, this remaining data will be transmitted to the printer for the duration specified by the timeout value, and then the connected printer is disconnected.

[Availability]
SDK 1.0.0 and later
5-3-9 isConnected
Returns the Connection State of the Printer

[Return Value]
TRUE if the printer is connected.
FALSE if the printer is not connected.

[Function prototype]
- (BOOL)isConnected

[Availability]
SDK 1.0.0 and later

5-3-10 enableLSB
Enable Last sStatus Back

[Function prototype]
- (long)enableLSB:(BOOL)bEnable

[Parameters]
bEnable
LSB Enable.
FALSE : LSB Disable
TRUE : LSB Enable

[Return Value]
Refer to 2-14 Result Code

[Availability]
SDK 1.0.0 and later

5-3-11 printText
Print Text

No action takes place if no printer is connected.

[Function prototype]
- (long)printText:(NSString *)string

[Parameters]
string
Unicode data with null terminator. Print target text string.

[Return Value]
Refer to 2-14 Result Code

[Discussion]
Text alignment property should be set in advance.

[Availability]
SDK 1.0.0 and later
5-3-12 printBox
Print Box Shape for Text

No action takes place if no printer is connected.

[Function prototype]
(long)printText:(int)width height: (int)height;

[Parameters]
int
   Specify the width of the box.
   1 == width equivalent to that of one character

int
   Specify the length of the box.
   1 == length equivalent to that of one character

[Return Value]
Refer to 2-14 Result Code

[Discussion]
Alignment and properties of the text should be defined in advance.

[Availability]
SDK 1.0.0 and later

5-3-13 lineFeed
Perform Line Feed

[Function prototype]
- (void)linefeed:(int)lines

[Parameters]
lines
   Number of lines to advance.

[Return Value]
Refer to 2-14 Result Code

[Availability]
SDK 1.0.0 and later
5-3-14 nextPrintPos
Feed Paper to Beginning of Next Label

[Function prototype]
- (long)nextPrintPos

[Return Value]
Refer to 2-14 Result Code

[Discussion]
This method works only when in label mode.

[Availability]
SDK 1.0.0 and later

5-3-15 printBarcode
Print One-Dimensional and Two-Dimensional Barcode

[Function prototype]
- (long)printBarcode:(char *)data
  symbology:(long)symbology
  width:(long)width
  height:(long)height
  alignment:(long)alignment
  textPosition:(long)textPosition

[Parameters]

data
ANSI code data with null terminator. Transfer barcode data to print.

symbology
Define barcode type.

width
Width of barcode. Valid range is 2 to 7.
Barcode printing may not work properly if the width of the barcode print exceeds
the printer paper width.
This setting does not affect 2-dimensional barcodes.

height
Height of barcode in number of dots. Range is 1 to 255.
This setting does not affect 2-dimensional barcodes.

alignment
Barcode alignment setting
Refer to 2-3 Barcode/Text Alignment

textPosition
Barcode text position setting
Refer to 2-6 Barcode Text Position

[Return Value]
Refer to 2-14 Result Code

[Availability]
SDK 1.0.0 and later
5-3-16 printBitmap
Print Image File

[Function prototype]
- (long)printBitmap:(NSString *)path
  width:(long)width
  alignment:(long)alignment
  level:(long)level

[Parameters]
path
  Path of image file
width
  Width of image file to convert. Valid setting range is 0 to maximum width.
  Image is resized with the given condition when the value is less than 0.
  Refer to 2-8 Image Width
alignment
  Image alignment setting
  Refer to 2-3 Image Alignment
level
  Color level and diffusion processing option of image

<table>
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<tr>
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<th>Description</th>
</tr>
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<td>0 ~ 100</td>
<td>Color level value</td>
</tr>
<tr>
<td>If fourth digit is 1</td>
<td>Enable diffusion processing</td>
</tr>
<tr>
<td>If fifth digit is 1</td>
<td>Image print using ESC * command</td>
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Note: What is Error Diffusion?
Error Diffusion is a method to present the color image or black-and-white image with fewer bits/pixel, which may produce few visible patterns (such as a snake-like pattern for a certain type of image) but in general, the capability of sharp representation is excellent. The disadvantage to this method is a long processing time because errors are measured and an amount of computing is required for distributing the errors to neighboring pixels.

It is recommended that you use the diffusion algorithm with this SDK.

[Return Value]
Refer to 2-14 Result Code

[Availability]
SDK 1.0.0 and later
5-3-17 checkPrinter
Check the Printer States and Update the Printer State Property

[Function prototype]
- (long)checkPrinter

[Return Value]
Refer to 2-14 Result Code

[Availability]
SDK 1.0.0 and later

5-3-18 msrReadReady
Switch the Printer to MSR Ready state

[Function prototype]
- (long)msrReadReady

[Return Value]
Refer to 2-14 Result Code

[Availability]
SDK 1.0.0 and later

5-3-19 msrReadCancel
Release the MSR Ready State of the Printer

[Function prototype]
- (long)msrReadCancel

[Return Value]
Refer to 2-14 Result Code

[Availability]
SDK 1.0.0 and later

5-3-20 msrReadCancelEx
Release the MSR Ready State of the Printer
The delegate "msrTerminated" below can be invoked after this method has been finished.
Refer To 6-2-11 msrTerminated

[Function prototype]
- (long)msrReadCancelEx

[Return Value]
Refer to 2-14 Result Code

[Availability]
SDK 1.0.0 and later
5-3-21 msrReadTrack
Read MSR Data on the track 1,2 and 3

In MSR read mode, if BXLMSR_DATAEMPTY is returned, the card is not read in MSR. Scan the card with MSR again, or use the msrReadCancel method to cancel the read mode.

[Function prototype]
-(long)msrReadTrack:(NSData **)data1
data2:(NSData **)data2
data3:(NSData **)data3

[Parameters]
data1
Read MSR Data Track 1 and save it.
data2
Read MSR Data Track 2 and save it.
data3
Read MSR Data Track 3 and save it.

[Return Value]
Refer to 2-14 Result Code

[Discussion]
All of data1, data2, and data3 carry unallocated NSData *data. The NSData object is allocated inside the method. The allocated data1, data2, and data3 are auto released, and users do not have to release them explicitly.

[Availability]
SDK 1.0.0 and later

5-3-22 msrGetTrack
Read MSR data on the specific track

In MSR read mode, if BXLMSR_DATAEMPTY is returned, the card is not read in MSR. Scan the card with MSR again, or use the msrReadCancel method to cancel the read mode.

[Function prototype]
-(long)msrGetTrack:(int)track
response:(NSData **)response

[Parameters]

track
MSR Data Track number 1 to 3
response
MSR Data Track value

[Return Value]
Refer to 2-14 Result Code
[Discussion]
The response carries unallocated NSData *data. The NSData object is allocated inside the method. The response is auto released, and users do not have to release it explicitly.

[Availability]
SDK 1.0.0 and later

5-3-23 msrReadFullTrack
Read Entire MSR Data

In MSR read mode, if BXLMSR_DATAEMPTY is returned, the card is not read in MSR. Scan the card with MSR again, or use the msrReadCancel method to cancel the read mode.

[Function prototype]
- (long)msrReadFullTrack:(NSData **)response

[Parameters]
response
MSR Data Track value

[Return Value]
Refer to 2-14 Result Code

[Discussion]
The response carries unallocated NSData *data. The NSData object is allocated inside the method. The response is auto released, and users do not have to release it explicitly.

[Availability]
SDK 1.0.0 and later

5-3-24 directIO
Send or Read User Defined Data.

[Function prototype]
- (long)directIO:(NSData *)request
  requiredSize:(NSInteger)requiredSize
  response:(NSData **)response

[Parameters]
request
Data to be sent to printer, ANSI CODE data
requiredSize
It contains the expected size of the response from the printer.
response
Response sent from printer is returned

[Return Value]
Refer to 2-14 Result Code

[Availability]
SDK 1.0.0 and later
5-3-25 `nvImageList`
Read List of Image Addresses Saved in the NV Area

**Function prototype**

```
- (long)nvImageList:(NSArray **)images
```

**Parameters**

`images`

The address list is provided. Each address is saved in the form of NSNumber *. The images are autorelease, and users do not have to release them explicitly.

**Return Value**

Refer to 2-14 Result Code

**Discussion**

```c
<Example>
NSArray *images;
[[BXPrinterController getInstance()] nvImageList:&images];
for( NSNumber *n in images)
{
    NSLog(@"%d", [NSNumber intValue]);
}
```

**Availability**

SDK 1.0.0 and later
5-3-26 downloadNVImage (Diffusion)
Download Image Data Corresponding to the Address Saved in the NV Area

[Function prototype]
- (long)downloadNVImage:(int)address
  withImage:(UIImage *)image
  width:(long)width
  level:(long)level

[Parameters]
address
Image address in the range of 0 to 99. If there is an image saved for the corresponding address, the existing image is replaced by the new image.

download target image object

width
Width of the image to print
The image will be printed with the maximum width that can be supported by the printer when BXL_WIDTH_FULL is input or input value of width is invalid.

The image will be enlarged if the input value of width is larger than the width of actual image.
Then the image will be reduced if the input value of width is smaller than the width of actual image.

level
Color level and diffusion processing option of image

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Note: What is Error Diffusion?
Error Diffusion is a method to present the color image or black-and-white image with fewer bits/pixel, which may produce few visible patterns (such as a snake-like pattern for a certain type of image) but in general, the capability of sharp representation is excellent. The disadvantage to this method is a long processing time because errors are measured and an amount of computing is required for distributing the errors to neighboring pixels.

It is recommended that you use the diffusion algorithm with this SDK.

[Return Value]
Refer to 2-14 Result Code

[Discussion]
When the width of the image is wider than the width of printer, the image is resized automatically.

[Availability]
SDK 1.0.0 and later
5-3-27 downloadNVImage (Normal)
Download Image Data to the Designated Address in the NV Area.

[Function prototype]
- (long)downloadNVImage:(int)address
  withImage:(UIImage *)image

[Parameters]
  address
  Image address in the range of 0 to 99. If there is an image saved for the
  corresponding address, the existing image is replaced by a new image.
  images
  Download target image object

[Return Value]
Refer to 2-14 Result Code

[Discussion]
When the width of the image is wider than the width of the printer, the image is resized
automatically.
The width value is set to BXL_WIDTH_FULL and the image data is processed with a
level of 1050, 50% of brightness, and the error diffusion algorithm enable settings are
downloaded.

[Availability]
SDK 1.0.0 and later

5-3-28 printNVImage
Print Image Data to the Designated Address in the NV Area

[Function prototype]
- (long)printNVImage:(int)address

[Parameters]
  address
  Image address in the range of 0 to 9

[Return Value]
Refer to 2-14 Result Code.

[Discussion]
The image is not printed if the image does not exist in the corresponding address.

[Availability]
SDK 1.0.0 and later
5-3-29 removeNVImage
Delete Image Data from the Designated Address in the NV Area.

[Function prototype]
- (long)removeNVImage:(int)address

[Parameters]
address
Image address in the range of 0 to 99

[Return Value]
Refer to 2-14 Result Code

[Discussion]
No action takes place if the image does not exist in the corresponding address.

[Availability]
SDK 1.0.0 and later

5-3-30 removeAllNVImages
Delete All Image Data from the Designated Address in the NV Area

[Function prototype]
- (long)removeAllNVImages

[Return Value]
Refer to 2-14 Result Code

[Availability]
SDK 1.0.0 and later

5-3-31 isSupport_MSR
Check Whether a Specific Feature of the MSR is Supported

[Function prototype]
- (BOOL)isSupport_MSR

[Return Value]
If the feature of the MSR is supported, the value returned is TRUE.

[Availability]
SDK 1.0.0 and later
5-3-32 isSupport_LSB
Check Whether a Specific Feature of the LSB is Supported

[Function prototype]
- (BOOL)isSupport_LSB

[Return Value]
If the feature of the LSB is supported, the value returned is TRUE

[Availability]
SDK 1.0.0 and later

5-3-33 isSupportBarcode
Checks whether the printer can print barcodes.

[Function prototype]
- (BOOL)isSupportBarcode

[Return Value]
TRUE if printing barcodes is supported.
FALSE if printing barcodes is not supported.

[Availability]
SDK 1.0.0 and later

5-3-34 getBarcodeSupportTable
Check that the Barcode Print Function is Supported

[Function prototype]
- (NSMutableArray*)getBarcodeSupportTable

[Return Value]
A NSMutableArray that contains BXBarcode is returned.

[Availability]
SDK 1.0.0 and later
6. BXPrinterControllerDelegate Protocol Reference

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6-1 Overview
This receives events occurring in the BXPrinterController class.

6-2 Instance Methods

6-2-1 didStart
Called When Class Use is Started Using Open Method of BXPrinterController

It is called after printer connection is completed.

[Function prototype]
- (void) didStart

[Parameters]
controller
BXPrinterController object that generates events

[Discussion]
Used to indicate the beginning of the use of printer class to users.

[Availability]
SDK 1.0.0 and later

6-2-2 didStop
Called When Class Use is Stopped Using Open Method of BXPrinterController

[Function prototype]
- (void) didStop

[Parameters]
controller
BXPrinterController object that generates events

[Discussion]
Used to indicate the termination of the use of printer class.

[Availability]
SDK 1.0.0 and later
6-2-3 didFindPrinter
Called for Each Printer When Another Printer is Discovered from the Same Network.

[Function prototype]
- (void)didFindPrinter:(BXPrinterController *)controller
  printer:(BXPrinter *)printer

[Parameters]
controller
  BXPrinterController object that generates events
printer
  Information of discovered printer

[Discussion]
If same printer responds multiple times during the printer lookup process, this method is called only once the first time.

[Availability]
SDK 1.0.0 and late

6-2-4 didConnect
Called When a Connection to a Printer is Finished.

[Function prototype]
- (void)didConnect:(BXPrinterController *)controller

[Discussion]
If you need to have more information about target printers, please refer to target properties in BXPrinterController.

[Availability]
SDK 1.0.0 and later

6-2-5 didNotConnect
Called when connection to printer cannot be made.

[Function prototype]
- (void)didNotConnect:(BXPrinterController *)controller
  withError:(NSError *)error

[Parameters]
controller
  BXPrinterController object that generates events
error
  Information regarding the cause of failure

[Discussion]
Used when there is an error during the printer connection stage.

[Availability]
SDK 1.0.0 and later
6-2-6 willLookupPrinters
Called Before Starting Printer Search

[Function prototype]
- (void)willLookupPrinters:(BXPrinterController *)controller

[Parameters]
controller
BXPrinterController object that generates events

[Discussion]
Used to indicate the start of the printer search.

[Availability]
SDK 1.0.0 and later

6-2-7 didLookupPrinters
Called When Printer Search is Completed

[Function prototype]
- (void)didLookupPrinters:(BXPrinterController *)controller

[Parameters]
controller
BXPrinterController object that generates events

[Discussion]
Used to indicate the search status to users.

[Availability]
SDK 1.0.0 and later

6-2-8 didNotLookup
Called When Printer Search Cannot be Performed

[Function prototype]
- (void)didNotLookup:(BXPrinterController *)controller
  withError:(NSError *)error

[Parameters]
controller
BXPrinterController object that generates events
error
Information regarding the cause of failure

[Discussion]
Used when lookup fails when the printer is connected to WiFi or Bluetooth.

[Availability]
SDK 1.0.0 and later
6-2-9 didBeBrokenConnection
Called When the Connection to Printer is Broken

[Function prototype]
- (void)didBeBrokenConnection:(BXPrinterController *)controller
  withError:(NSError *)error

[Parameters]
controller
  BXPrinterController object that generates events
error
  Information regarding the cause of failure

[Discussion]
This method is called only when the connection is interrupted by external problem other than user intervention. It is not called when a user breaks the connection by calling the close method of BXPrinterController.
Refer to the target property of BXPrinterController for the information of target printer.

[Availability]
SDK 1.0.0 and later

6-2-10 msrArrived
Called When MSR Data Arrives Correctly in MSR Read Mode

[Function prototype]
- (void)msrArrived:(BXPrinterController *)controller
  track:(NSNumber *)track

[Parameters]
controller
  BXPrinterController object that generates events
track
  Track number 1 to 3 for MSR data

[Discussion]
After this method is called, the MSR data of the corresponding track can be obtained through the getTrack: method of BXPrinterController.

[Availability]
SDK 1.0.0 and later
6-2-11 msrTerminated
Called When MSR Read Mode to Terminated

[Function prototype]
- (void)msrTerminated:(BXPrinterController *)controller

[Parameters]
controller
BXPrinterController object that generates events

[Availability]
SDK 1.0.0 and later

6-2-12 didUpdateStatus
Called When Printer Status Variable has Changed

[Function prototype]
- (void)didUpdateStatus:(BXPrinterController *)controller
  Status(NSNumber*) status

[Parameters]
controller
BXPrinterController object that generates events
status
Information regarding the current status of the printer

[Availability]
SDK 1.0.0 and later