

API Reference Guide

Windows POS SDK

Ver. 1.01

AP3

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1. Operating System (OS) Environment

The following operating systems are supported for usage.

Microsoft® Windows XP SP3 (32bit)
Microsoft® Windows XP SP1 or later (64bit)
Microsoft Windows Server 2003 SP1 or later (32bit/64bit)
Microsoft Windows VISTA (32bit/64bit)
Microsoft Windows Server 2008 (32bit/64bit)
Microsoft Windows Server 2008R2 (64bit)
Microsoft Windows 7 (32bit/64bit)
Microsoft Windows 8 (32bit/64bit)
Microsoft Windows Server 2012 (64bit)
Microsoft Windows 10 (32bit/64bit)

2. Supported Printers

Product	Model	DPI	Max Printable Width
Thermal Printer	AP3	180 dpi	512 dots
Thermal Printer	AP3-3	203 dpi	576 dots

3. Sample Program

Sample source files using the Windows POS SDK below are provided.

Visual C# (Visual Studio 2008)
Visual C++ (Visual Studio 2008)

4. Printer Methods

This manual is based on the C ++ development environment and describes the various APIs needed to develop Windows applications that can control the printer. The methods and constant values disclosed in the provided are declared in the PrnAPIs.h and PrnConstants.h file.

4-1 PrinterOpen

- Establishes a communication connection with the printer.



Note

- This method must be called first, than any other methods in this manual.
- Only 1:1 communication with PC and a printer is supported. If multiple printers are connected to the PC, communication may not be performed normally.

[Syntax]

```
long PrinterOpen(
    int nInterface,
    LPCSTR szPortName,
    nBaudRate,
    nDataBits,
    nParity,
    nStopBits
);
```

[Parameters]

nInterface	The printer communication interface.		
	Code	Value	Description
	_IF_SERIAL	0	Serial Printer
	_IF_PARALLEL	1	Parallel Printer
	_IF_USB	3	USB Printer
	_IF_LAN	4	Ethernet Printer
szPortName	Port name for Serial and Parallel, or IP address for network. * This parameter is only valid for Serial, parallel or network communication.		
nBaudRate	The baud rate for Serial communication, or port number for network. * This parameter is only valid for Serial, parallel or network communication.		
nDataBits	The number of bits in the bytes transmitted and received * This parameter is only valid for Serial communication.		
nParity	The parity scheme to be used for Serial communication. * This parameter is only valid for Serial communication.		
nStopBits	The number of stop bits to be used for Serial communication. * This parameter is only valid for Serial communication.		

[Return Values]

If the method succeeds, the return value is 0. Other cases, returns negative values.

* Example

```
long lResult = PrinterOpen(_IF_SERIAL, "COM1", 9600, 8, 0, 0);
//long lResult = PrinterOpen(_IF_USB, "", 0, 0, 0, 0);
//long lResult = PrinterOpen(_IF_LAN, "192.168.1.1", 9100, 0, 0, 0); // Network
```

4-2 PrinterClose

- Disconnects the communication with the printer.

**Note**

Call this method if you no longer need to communicate with the printer.

[Syntax]

long **PrinterClose**();

[Parameters]

None

[Return Values]

If the method succeeds, the return value is 0. Other cases, returns negative values.

* Example

```
long IResult = PrinterOpen("portinfo...", 1000);  
.....  
PrinterClose();  
.....
```

4-3 LineFeed

- Sends line-feeds commands to the printer.

[Syntax]

long **LineFeed** (
 int nFeed,
);

[Parameters]

nFeed	Paper feed amount in lines. (Range: $1 \leq nFeed \leq 255$)
-------	---

[Return Values]

If the method succeeds, the return value is 0. Other cases, returns negative values.

* Example

```
long IResult = PrinterOpen("portinfo...", 1000);  
.....  
IResult = LineFeed(10);  
.....
```

4-4 SetCharacterSet

- Sets the code table used for printing characters.

[Syntax]

```
long SetCharacterSet (
    long Codpage
);
```

[Parameters]

Codepage	Code page used for encoding characters.		
	Code	Value	Description
	_CS_PC437	0	USA, Standard Europe
	_CS_PC850	2	Multilingual Latin 1
	_CS_PC860	3	Portuguese
	_CS_PC863	4	Canadian-French
	_CS_PC865	5	Nordic
	_CS_WPC1252	16	Latin 1
	_CS_PC866	17	Cyrillic #2
	_CS_PC852	18	Latin 2
	_CS_PC858	19	Euro
	_CS_PC862	21	Hebrew DOS code
	_CS_THAI42	23	THAI 42
	_CS_WPC1253	24	Greek
	_CS_WPC1254	25	Turkish
	_CS_WPC1257	26	Baltic
	_CS_WPC1251	28	Cyrillic
	_CS_PC737	29	Greek
	_CS_PC775	30	Baltic
	_CS_THAI14	31	THAI 14
	_CS_WPC1255	33	Hebrew New Code
	_CS_THAI11	34	THAI 11
	_CS_THAI18	35	THAI 18
	_CS_PC855	36	Cyrillic
	_CS_PC857	37	Turkish
	_CS_PC928	38	Greek
	_CS_THAI16	39	THAI 16
	_CS_PC1258	41	Vietnamese
	_CS_PC1250	47	Czech
	_CS_LATIN9	48	Latin 9
	_CS_TCVN	49	Vietnamese (TCVN)
	_CS_TCVN_CAPITAL	50	Vietnamese (TCVN CAPITAL)
	_CS_TCVN_VISCII	51	Vietnamese (VISCII)

[Return Values]

If the method succeeds, the return value is 0. Other cases, returns negative values.

*** Example**

```
long lResult = PrinterOpen("portinfo...", 1000);
.....
SetCharacterSet(_CS_WPC1252);
.....
```

4-5 SetInterChrSet

- Sets the character set used for printing some of international characters.

[Syntax]

```
long SetInterChrSet (  
    long nInternationalCharacterSet  
);
```

[Parameters]

nInternational CharacterSet	International character set.		
	Code	Value	Description
	_ICS_USA	0	USA code setting
	_ICS_FRANCE	1	FRANCE code setting
	_ICS_GERMANY	2	GERMANY code setting
	_ICS_UK	3	UK code setting
	_ICS_DENMARK1	4	DENMARK1 code setting
	_ICS_SWEDEN	5	SWEDEN code setting
	_ICS_ITALY	6	ITALY code setting
	_ICS_SPAIN	7	SPAIN code setting
	_ICS_NORWAY	9	NORWAY code setting
	_ICS_DENMARK2	10	DENMARK 2 code setting
	_ICS_SPAIN2	11	SPAIN 2 code setting
	_ICS_LATIN	12	LATIN AMERICA code setting
	_ICS_KOREA	13	KOREA code setting
	_ICS_SLOVENIA	14	SLOVENIA code setting
	_ICS_CHINA	15	CHINA code setting

[Return Values]

If the method succeeds, the return value is 0. Other cases, returns negative values.

* Example

```
long lResult = PrinterOpen("portinfo...", 1000);  
.....  
SetInterChrSet(_ICS_SPAIN);  
.....
```

4-6 PrintText

- Sends a character print command to the printer.

[Syntax]

```
long PrintText(
    LPCSTR Data,
    long Alignment,
    long Attribute,
    long TextSize
);
```

[Parameters]

Data	Text data to be printed. * Text data are encoded with the system default code page.		
Alignment	Alignment		
	Code	Value	Description
	_ALIGNMENT_LEFT	0	Left-aligned
	_ALIGNMENT_CENTER	1	Centered
	_ALIGNMENT_RIGHT	2	Right-aligned
Attribute	Text properties		
	Code	Value	Description
	_FT_DEFAULT	0	Font A (default font)
	_FT_FONTB	1	Set to Font B
	_FT_FONTC	2	Set to Font C
	_FT_BOLD	2	Add Bold lettering attribute
	_FT_UNDERLINE	4	Add Underline (1-dot thick)
	_FT_UNDERTHICK	6	Add Underline (2-dot thick)
	_FT_REVERSE	8	Add Reverse lettering attribute
TextSize	Text size		
	Code	Value	Description
	_TS_0WIDTH	0	Width magnification set to x 1
	_TS_1WIDTH	16	Width magnification set to x 2
	_TS_2WIDTH	32	Width magnification set to x 3
	_TS_3WIDTH	48	Width magnification set to x 4
	_TS_4WIDTH	64	Width magnification set to x 5
	_TS_5WIDTH	80	Width magnification set to x 6
	_TS_6WIDTH	96	Width magnification set to x 7
	_TS_7WIDTH	112	Width magnification set to x 8
	Code	Value	Description
	_TS_0HEIGHT	0	Height magnification set to x 1
	_TS_1HEIGHT	1	Height magnification set to x 2
	_TS_2HEIGHT	2	Height magnification set to x 3
	_TS_3HEIGHT	3	Height magnification set to x 4
	_TS_4HEIGHT	4	Height magnification set to x 5
	_TS_5HEIGHT	5	Height magnification set to x 6
	_TS_6HEIGHT	6	Height magnification set to x 7
	_TS_7HEIGHT	7	Height magnification set to x 8

[Return Values]

If the method succeeds, the return value is 0. Other cases, returns negative values.

* Example

```
long lResult = PrinterOpen("portinfo...", 1000);
.....
PrintText("TEXT\n", _ALIGNMENT_LEFT, _FT_DEFAULT, _TS_0WIDTH | _TS_0HEIGHT);
.....
```

4-7 PrintTextW

- Sends a character print command to the printer.

[Syntax]

```
long PrintTextW(
    LPCWSTR Data,
    long Alignment,
    long Attribute,
    long TextSize,
    long CodePage
);
```

[Parameters]

Data	Text data in UNICODE format to be printed.		
Alignment	Alignment		
	Code	Value	Description
	_ALIGNMENT_LEFT	0	Left-aligned
	_ALIGNMENT_CENTER	1	Centered
	_ALIGNMENT_RIGHT	2	Right-aligned
Attribute	Text properties		
	Code	Value	Description
	_FT_DEFAULT	0	Font A (default font)
	_FT_FONTB	1	Set to Font B
	_FT_FONTC	2	Set to Font C
	_FT_BOLD	2	Add Bold lettering attribute
	_FT_UNDERLINE	4	Add Underline (1-dot thick)
	_FT_UNDERTHICK	6	Add Underline (2-dot thick)
	_FT_REVERSE	8	Add Reverse lettering attribute
Size	Text size		
	Code	Value	Description
	_TS_0WIDTH	0	Width magnification set to x 1
	_TS_1WIDTH	16	Width magnification set to x 2
	_TS_2WIDTH	32	Width magnification set to x 3
	_TS_3WIDTH	48	Width magnification set to x 4
	_TS_4WIDTH	64	Width magnification set to x 5
	_TS_5WIDTH	80	Width magnification set to x 6
	_TS_6WIDTH	96	Width magnification set to x 7
	_TS_7WIDTH	112	Width magnification set to x 8
	Code	Value	Description
	_TS_0HEIGHT	0	Height magnification set to x 1
	_TS_1HEIGHT	1	Height magnification set to x 2
	_TS_2HEIGHT	2	Height magnification set to x 3
	_TS_3HEIGHT	3	Height magnification set to x 4
	_TS_4HEIGHT	4	Height magnification set to x 5
	_TS_5HEIGHT	5	Height magnification set to x 6
	_TS_6HEIGHT	6	Height magnification set to x 7
	_TS_7HEIGHT	7	Height magnification set to x 8

CodePage	Code page for encoding text data.		
	Code	Value	Description
	_CS_PC437	0	USA, Standard Europe
	_CS_PC850	2	Multilingual Latin 1
	_CS_PC860	3	Portuguese
	_CS_PC863	4	Canadian-French
	_CS_PC865	5	Nordic
	_CS_WPC1252	16	Latin 1
	_CS_PC866	17	Cyrillic #2
	_CS_PC852	18	Latin 2
	_CS_PC858	19	Euro
	_CS_PC862	21	Hebrew DOS code
	_CS_THAI42	23	THAI 42
	_CS_WPC1253	24	Greek
	_CS_WPC1254	25	Turkish
	_CS_WPC1257	26	Baltic
	_CS_WPC1251	28	Cyrillic
	_CS_PC737	29	Greek
	_CS_PC775	30	Baltic
	_CS_THAI14	31	THAI 14
	_CS_WPC1255	33	Hebrew New Code
	_CS_THAI11	34	THAI 11
	_CS_THAI18	35	THAI 18
	_CS_PC855	36	Cyrillic
	_CS_PC857	37	Turkish
	_CS_PC928	38	Greek
	_CS_THAI16	39	THAI 16
	_CS_PC1258	41	Vietnamese
	_CS_PC1250	47	Czech
	_CS_LATIN9	48	Latin 9
	_CS_TCVN	49	Vietnamese (TCVN)
	_CS_TCVN_CAPITAL	50	Vietnamese (TCVN CAPITAL)
	_CS_VISCII	51	Vietnamese (VISCII)
	_CS_KS5601	949	Korean
	_CS_BIG5	950	Chinese (BIG5)
	_CS_GB2312	936	Chinese (GB2312)
	_CS_SHIFT_JIS	932	Japanese (Shift JIS)

[Return Values]

If the method succeeds, the return value is 0. Other cases, returns negative values.

* Example

```
long lResult = PrinterOpen("portinfo...", 1000);
.....
PrintTextW(L"TEXT\n", _ALIGNMENT_LEFT, _FT_DEFAULT, _TS_0WIDTH |
_TS_0HEIGHT, _CS_PC437);
.....
```

4-8 PrintBarcode

- Sends a 1d barcode print command to the printer.

[Syntax]

```
long PrintBarcode(
    PCHAR Data,
    long Symbology,
    long Height,
    long Width,
    long Alignment,
    long TextPosition
);
```

[Parameters]

Data	Data in ASCII format.			
Symbology	Code Symbology.			
	Symbology	Value	Length Limit	Value Range
	_BCS_UPCA	101	11 ≤ n ≤12	48 ≤ data ≤ 57
	_BCS_UPCE	102	11 ≤ n ≤12	48 ≤ data ≤ 57
	_BCS_EAN13	104	12 ≤ n ≤13	48 ≤ data ≤ 57
	_BCS_JAN13	106		
	_BCS_EAN8	103	7 ≤ n ≤ 8	48 ≤ data ≤ 57
	_BCS_JAN8	105		
	_BCS_ITF	107	1 ≤ n ≤ 255 (even)	48 ≤ data ≤ 57
	_BCS_CODABAR	108	1 ≤ n ≤ 255	48 ≤ data ≤ 57, 65 ≤ data ≤ 68, Data = 36,43,45,46,47,58
_BCS_CODE39	109	1 ≤ n ≤ 255	48 ≤ data ≤ 57, 65 ≤ data ≤ 90, data = 32,36,37,43, 45,46,47	
_BCS_CODE93	110	1 ≤ n ≤ 255	0 ≤ data ≤ 127	
_BCS_CODE128	111	2 ≤ n ≤ 255	0 ≤ data ≤ 127	
Height	The barcode height. (Range: 1 ≤ Height ≤ 255)			
Width	The width or size of a 1d barcode. If the print width of the barcode exceeds the printing paper, barcodes may not be printed properly. * The range of 1d barcode width is from 2 to 6.			
Alignment	Alignment.			
	Code	Value	Description	
	_ALIGNMENT_LEFT	0	Left-aligned	
	_ALIGNMENT_CENTER	1	Centered	
	_ALIGNMENT_RIGHT	2	Right-aligned	
TextPosition	The HRI (Human Readable Interpretation) printing position of the 1d barcode.			
	Code	Value	Description	
	_BC_TEXT_NONE	0	Not Printed	
	_BC_TEXT_ABOVE	1	Above the barcode	
	_BC_TEXT_BELOW	2	Below the barcode	
	BC TEXT BOTH	3	Above and Below the barcode	

[Return Values]

If the method succeeds, the return value is 0. Other cases, returns negative values.

* Example

```
long lResult = PrinterOpen("portinfo...", 1000);  
.....  
PrintBarcode("123456789012", _BCS_CODE128, 50, 2, _ALIGNMENT_LEFT,  
_BC_TEXT_BELOW);  
;.....
```

4-9 PrintQRCode

- Sends a QR Code print command to the printer.

[Syntax]

```
long PrintQRCode(
    PCHAR Data,
    long Model,
    long Size,
    long EccLevel,
    long Alignment
);
```

[Parameters]

Data	Code data in ASCII format.		
Model	Model type of QR Code		
	Code	Value	Description
	_QRCODE_MODEL_1	49	MODEL 1
	_QRCODE_MODEL_2	50	MODEL 2
Size	Module size (Range: $1 \leq \text{Size} \leq 8$)		
EccLevel	Error Correction Level		
	Code	Value	Description
	_QRCODE_ECC_LEVEL_L	48	LEVEL L
	_QRCODE_ECC_LEVEL_M	49	LEVEL M
	_QRCODE_ECC_LEVEL_Q	50	LEVEL Q
Alignment	Alignment		
	Code	Value	Description
	_ALIGNMENT_LEFT	0	Left-aligned
	_ALIGNMENT_CENTER	1	Centered
	_ALIGNMENT_RIGHT	2	Right-aligned

[Return Values]

If the method succeeds, the return value is 0. Other cases, returns negative values.

*** Example**

```
long IResult = PrinterOpen("portinfo...", 1000);
.....
PrintQRCode("123456789012", _QRCODE_MODEL_1, 4, _QRCODE_LEVEL_L,
_ALIGNMENT_LEFT);
.....
```

4-10 PrintPDF417

- Sends a PDF417 print command to the printer.

[Syntax]

```
long PrintPDF417(
    PCHAR Data,
    long Type,
    long ColumnNumber,
    long RowNumber,
    long Width,
    long Height,
    long EccLevel,
    long Alignment
);
```

[Parameters]

Data	Code data in ASCII format.		
Type	PDF417 Type		
	Code	Value	Description
	_PDF417_TYPE_1	49	PDF417 Standard
	_PDF417_TYPE_2	50	PDF417 Simplified
ColumnNumber	Number of columns (Range: $0 \leq \text{ColumnNumber} \leq 30$)		
RowNumber	Number of rows (Range: $3 \leq \text{RowNumber} \leq 90$)		
ModuleWidth	Module width (Range: $1 \leq \text{Width} \leq 4$)		
ModuleHeight	Module height (Range: $2 \leq \text{Height} \leq 8$)		
EccLevel	Error Correction Level		
	Code	Value	Description
	_PDF417_ECC_LEVEL_0	48	Error Correction Level 0
	_PDF417_ECC_LEVEL_1	49	Error Correction Level 1
	_PDF417_ECC_LEVEL_2	50	Error Correction Level 2
	_PDF417_ECC_LEVEL_3	51	Error Correction Level 3
	_PDF417_ECC_LEVEL_4	52	Error Correction Level 4
	_PDF417_ECC_LEVEL_5	53	Error Correction Level 5
	_PDF417_ECC_LEVEL_6	54	Error Correction Level 6
	_PDF417_ECC_LEVEL_7	55	Error Correction Level 7
	_PDF417_ECC_LEVEL_8	56	Error Correction Level 8
Alignment	Alignment		
	Code	Value	Description
	_ALIGNMENT_LEFT	0	Left-aligned
	_ALIGNMENT_CENTER	1	Centered
	_ALIGNMENT_RIGHT	2	Right-aligned

[Return Values]

If the method succeeds, the return value is 0. Other cases, returns negative values.

*** Example**

```
long IResult = PrinterOpen("portinfo...", 1000);
.....
PrintPDF417("123456789012", _PDF417_TYPE_1, 0, 0, 2, 2, _PDF417_LEVEL_L,
_ALIGNMENT_LEFT);
.....
```

4-11 PrintDataMatrix

- Sends a Data Matrix print command to the printer.

[Syntax]

```
long PrintPDF417(
    PCHAR Data,
    long Size,
    long Alignment
);
```

[Parameters]

Data	Code data in ASCII format.		
Size	Module size (Range: $2 \leq \text{Size} \leq 3$)		
Alignment	Alignment		
	Code	Value	Description
	_ALIGNMENT_LEFT	0	Left-aligned
	_ALIGNMENT_CENTER	1	Centered
	_ALIGNMENT_RIGHT	2	Right-aligned

[Return Values]

If the method succeeds, the return value is 0. Other cases, returns negative values.

*** Example**

```
long IResult = PrinterOpen("portinfo...", 1000);
.....
PrintDataMatrix("123456789012", 2, _ALIGNMENT_LEFT);
.....
```

4-12 PrintBitmap

- Sends a graphic image command to the printer.

**Note**

Only BMP file format can be printed.

[Syntax]

```
long PrintBitmap (
    LPCSTR FileName,
    long Width,
    long Alignment,
    long Level,
    BOOL Dithering
);
```

[Parameters]

FileName	The full path of the image file.		
Width	The width of the image to be printed.		
	Code	Value	Description
	_WIDTH_FULL	-1	Maximum width the printer can print.
	_WIDTH_NONE	-2	No variation given to image size
Alignment	Alignment		
	Code	Value	Description
	_ALIGNMENT_LEFT	0	Left-aligned
	_ALIGNMENT_CENTER	1	Centered
	_ALIGNMENT_RIGHT	2	Right-aligned
Level	The brightness level. (Range: $0 \leq \text{Level} \leq 100$)		
Dithering	Whether apply the dither option or not.		

[Return Values]

If the method succeeds, the return value is 0. Other cases, returns negative values.

*** Example**

```
long IResult = PrinterOpen("portinfo...", 1000);
.....
PrintBitmap(strDirBmp, 300, _ALIGNMENT_CENTER, 50, TRUE);
.....
```


4-13 GetPrinterCurrentStatus

- Gets the printer's current status value.

[Syntax]

long **GetPrinterCurrentStatus** ();

[Parameters]

None

[Return Values]

If the method succeeds, the return value is one of the following. Other cases, returns negative values.

Printer Status	Value	Description
_STS_NORMAL	0	Normal. (No errors)
_STS_PAPEREMPTY	1	Paper Empty
_STS_COVEROPEN	2	Printer cover is open
_STS_CASHDRAWER_HIGH	16	Cash drawer Pin is in high state.
_STS_ERROR	32	Offline (Printer is disconnected with HOST)

*** Example**

```
long IResult = PrinterOpen("portinfo...", 1000);
.....
int status = GetPrinterCurrentStatus();
.....
if ((status & _STS_PAPEREMPTY) == _STS_PAPEREMPTY) { ... }
if ((status & _STS_COVEROPEN) == _STS_COVEROPEN) { ... }
if ((status & _STS_CASHDRAWER_HIGH) == _STS_CASHDRAWER_HIGH) { ... }
.....
```

4-14 InitializePrinter

- Reset all printer settings to the state they were in when the printer was powered on.

[Syntax]

long **InitializePrinter**();

[Parameters]

None.

[Return Values]

If the method succeeds, the return value is 0. Other cases, returns negative values.

*** Example**

```
long IResult = PrinterOpen(3, "192.168.1.1", 9100);
.....
InitializePrinter();
.....
```

4-15 DirectIO

- Sends user-defined data and receive a response from the printer.

**Note**

If there are no methods you want to use, this method is useful to send custom data to the printer. For the information about the commands recognized by the printer, refer to the ESC/POS Programming manual.

[Syntax]

```
long DirectIO (
    PCHAR Data,
    UINT DataSize,
    PCHAR RecvBuffer,
    UINT& RecvBufferSize
);
```

[Parameters]

Data	The data to be sent.
DataSize	The size of buffer specified by the parameter 'Data'.
RecvBuffer	The buffer, which receives a response from the printer. * set this parameter as NULL if no need to receive a response.
RecvBufferSize	The size of the buffer specified by the parameter 'RecvBuffer'. * This value also used as the size of a response.

[Return Values]

If the method succeeds, the return value is 0. Other cases, returns negative values.

*** Example**

```
long IResult = PrinterOpen("portinfo...", 1000);
.....
CHAR cmd[3] = {0x10, 0x04, 0x02};
CHAR * readData;
UINT readLen = 0;
.....
IResult = DirectIO(cmd, sizeof(cmd), readData, readLen);
.....
```

4-16 CutPaper

- Sends a paper cut commands with line feeds to the printer.

[Syntax]

```
long CutPaper ( );
```

[Parameters]

None

[Return Values]

If the method succeeds, the return value is 0. Other cases, returns negative values.

4-17 OpenDrawer

- Sends a cash drawer open command to the printer.

[Syntax]

long **OpenDrawer** (int pinNumber);



Note

Depending on the cash drawer type, the PIN number for opening the cash drawer is different.

[Parameters]

pinNumber	PIN Number.		
	Code	Value	Description
	_CASHDRAWER_PIN2	0	PIN Number 2
	_CASHDRAWER_PIN5	1	PIN Number 5

[Return Values]

If the method succeeds, the return value is 0. Other cases, returns negative values.

* Example

```
.....
OpenDrawer(_CASHDRAWER_PIN2);
OpenDrawer(_CASHDRAWER_PIN5);
.....
```

4-18 BidiSetCallback

- Sets the callback function which receives a status value of the printer.
The callback function is called whenever the status value of the printer changes.
The printer status value is one of the followings.

Printer Status	Value	Description
_STS_NORMAL	0	Normal. (No errors)
_STS_PAPEREMPTY	1	Paper Empty
_STS_COVEROPEN	2	Printer cover is open
_STS_CASHDRAWER_HIGH	16	Cash drawer Pin is in high state.
_STS_ERROR	32	Offline (Printer is disconnected with HOST)

[Syntax]

long **BidiSetCallback**(fnStatusCallback pBidiCallbackFn);

[Parameters]

pBidiCallbackFn	A call back function pointer which receives printer status. * typedef int (CALLBACK *fnStatusCallback)(int nStatus)
-----------------	--

[Return Values]

If the method succeeds, the return value is 0. Other cases, returns negative values.

*** Example**

```
long lResult = PrinterOpen(3, "192.168.1.1", 9100);
.....
int CALLBACK StatusCallbackMethod(int status){
    if ((status & _STS_PAPEREMPTY) == _STS_PAPEREMPTY) { ... }
    if ((status & _STS_COVEROPEN) == _STS_COVEROPEN) { ... }
    if ((status & _STS_CASHDRAWER_HIGH) == _STS_CASHDRAWER_HIGH) { ... }
    if ((status & _STS_ERROR) == _STS_ERROR) { ... }
}
.....
BidiSetCallback (StatusCallbackMethod);
.....
```

4-19 BidiCancelCallback

- Cancels notification of printer status values.

[Syntax]

```
long BidiCancelCallback();
```

[Parameters]

None.

[Return Values]

If the method succeeds, the return value is 0. Other cases, returns negative values.

*** Example**

```
.....
BidiCancelCallback();
.....
```

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Caution

Some semiconductor devices are easily damaged by static electricity. You should turn the printer "OFF", before you connect or remove the cables on the rear side, in order to guard the printer against the static electricity. If the printer is damaged by the static electricity, you should turn the printer "OFF".

Revision history

[illegible]