BXLLIB.DLL User Manual

1. ConnectPrinter

The ConnectPrinter function connect to instance of printer which is installed in system.

```
BOOL ConnectPrinter(
    LPCS szPrinterName
);
```

Parameters
   szPrinterName
      [in] Name of printer instance to connect

Return Values
   If the function succeeds, the return value is 1 or TRUE.
   If the function fails, the return value is zero or FALSE.

2. DisconnectPrinter

The DisconnectPrinter function disconnect to instance of printer which is connected.

```
BOOL DisconnectPrinter();
```

Parameters
   szPrinterName
      [in] Name of printer instance to connect

Return Values
   If the function succeeds, the return value is 1 or TRUE.
   If the function fails, the return value is zero or FALSE.

3. Print1DBarcode

The Print1DBarcode function print the 1D Barcode.

```
BOOL Print1DBarcode(
    int nHorizontalPos,
    int nVerticalPos,
    int nBarcodeType,
    int nNarrowBarWidth,
    int nBarcodeHeight,
    int nRotation,
    bool bHRI,
    LPCSTR pData
);
```

Parameters
   nHorizontalPos
      [in] Horizontal position
   nVerticalPos
      [in] Vertical position
   nBarcodeType
      [in] Barcode symbol type
   nNarrowBarWidth

[in] Narrow bar width
nBarcodeHeight
    [in] Height of Barcode
nRotation
    [in] Roation type
        0: No rotation
        1: 90 degrees (Clockwise)
        2: 180 degrees (Clockwise)
        3: 270 degrees (Clockwise)
bHRI
    [in] Human Readable Interpretation
        0: Not printed
        1: Below the bar code (FontSize : 1)
        2: Above the bar code (FontSize : 1)
        3: Below the bar code (FontSize : 2)
        4: Above the bar code (FontSize : 2)
        5: Below the bar code (FontSize : 3)
        6: Above the bar code (FontSize : 3)
        7: Below the bar code (FontSize : 4)
        8: Above the bar code (FontSize : 4)
pData
    [in] Barcode data

Return Values
    If the function succeeds, the return value is 1 or TRUE.
    If the function fails, the return value is zero or FALSE.

Remarks
    SLP-T400, SLP-D420, SLP-D220 : 1mm = 8dots
    SLP-T403, SLP-D423, SLP-D223 : 1mm = 12dots

4. PrintDeviceFont

The PrintDeviceFont function print the device font of printer.

```
BOOL PrintDeviceFont(
    int nHorizontalPos,
   int nVerticalPos,
   int nFontName,
   int nHorizontalMulti,
   int nVerticalMulti,
    int nRotation,
   bool bBold,
   LPCSTR szText
);
```

Parameters
    nHorizontalPos
        [in] Horizontal position
    nVerticalPos
        [in] Vertical position
    nFontName
        [in] Font Name
            [0 ~ 9: EnglishFont]
            0: Size 6 (9 x 15)
            1: Size 8 (12 x 20)
            2: Size 10 (16 x 25)
            3: Size 12 (19 x 30)
            4: Size 15 (24 x 38)

5: Size 20 (32 x 50)
6: Size 30 (48 x 76)
7: Size 14 (22 x 34)
8: Size 18 (28 x 44)
9: Size 24 (37 x 587)

[a ~ f] Korean Font or Chinese Font
 a: Size 1 (16 x 16)
b: Size 2 (24 x 24)
c: Size 3 (20 x 20)
d: Size 4 (26 x 26)
e: Size 5 (38 x 38)

m: GB2312 (24 x 24)
n: BIG5 (24 x 24)

nHorizontalMulti
[in] Font width multiplier (1 ~ 4)
nVerticalMulti
[in] Font height multiplier
nRotation
[in] Roation type
0: No rotation
1: 90 degrees (Clockwise)
2: 180 degrees (Clockwise)
3: 270 degrees (Clockwise)
bBold
[in] Bold font
0 or FALSE: Normal
1 or TRUE: Bold
szText
[in] Text to print

Return Values
If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.

Remarks
SLP-T400, SLP-D420, SLP-D220 : 1mm = 8dots
SLP-T403, SLP-D423, SLP-D223 : 1mm = 12dots

5. SetConfigOfPrinter

The SetConfigOfPrinter function set up properties of printer.

```
BOOL SetConfigOfPrinter(
    int nSpeed,
    int nDensity,
    int nOrientation,
    bool bAutoCut,
    int nCuttingPeriod,
    bool bBackFeeding,
);
```

Parameters
nSpeed
[in] Printing Speed
0: 2.5 ips
1: 3.0 ips

2: 4.0 ips
3: 5.0 ips
4: 6.0 ips
5: 7.0 ips
6: 8.0 ips
nDensity
    [in] Printing Density (0 ~ 20)
nOrientation
    [in] Printing Direction
        0: Print from top to bottom
        1: Print from bottom to top
bAutoCut
    [in] Cut paper
        0 or FALSE: Disable Cutter
        1 or TRUE: Enable Cutter
nCuttingPeriod
    [in] Cutting period
bBackFeeding
    [in] Backfeed paper when printing start first
        0 or FALSE: Disable backfeeding
        1 or TRUE: Enable backfeeding

Return Values
    If the function succeeds, the return value is 1 or TRUE.
    If the function fails, the return value is zero or FALSE.

6. Prints

The Prints function start to print.

```
BOOL Prints(
    int nLabelSet,
    int nCopiesOfEachlabel
);
```

Parameters
    nLabelSet
        [in] Number of label sets (1 ~ 65535)
    nCopiesOfEachLabel
        [in] Number of copies of each label.

Return Values
    If the function succeeds, the return value is 1 or TRUE.
    If the function fails, the return value is zero or FALSE.

7. SetPaper

The SetPaper function set up paper of printer.

```
BOOL SetPaper(
    int nHorizontalMargin,
    int nVerticalMargin,
    int nPaperWidth,
    int nPaperLength,
    int nMediaType,
    int nOffSet
    int nGapLength0RThicknessOfBlackLine
);
```

Parameters

nHorizontalMargin

[in] Horizontal margin

nVerticalMargin

[in] Vertical margin

nPaperWidth

[in] Paper width

nPaperHeight

[in] Paper height

nMediaType

[in] Media type

0: Gap

1: Continues

2: Blackmark

nOffset

[in] Offset of gap or blackmark

nGapLengthORThicknessOfBlackLine

[in] Gap length or thickness of black line [dots]

Return Values

If the function succeeds, the return value is 1 or TRUE.

If the function fails, the return value is zero or FALSE.

Remarks

SLP-T400, SLP-D420, SLP-D220 : 1mm = 8dots

SLP-T403, SLP-D423, SLP-D223 : 1mm = 12dots

8. ClearBuffer

The ClearBuffer function clean up memory of printer.

BOOL ClearBuffer();

Return Values

If the function succeeds, the return value is 1 or TRUE.

If the function fails, the return value is zero or FALSE.

9. PrintBlock

The PrintBlock function draw line block.

BOOL PrintBlock(
    int nHorizontalStartPos,
    int nVerticalStartPos,
    int nHorizontalEndPos,
    int nVerticalEndPos,
    int nOption,
    int nThickness
);

Parameters

nHorizontalStartPostion

[in] Horizontal start position of line block

nVerticalStartPosition

[in] Vertical start position of line block

nHorizontalEndPosition

[in] Horizontal end position of line block

nVerticalEndPosition

[in] Vertical end position of line block

nOption

[in] Option of line block
            0: Over
            1: Exclusive
            2: Delete
            3: Slope
            4: Box
    nThickness
        [in] Thickness of line block

Return Values
    If the function succeeds, the return value is 1 or TRUE.
    If the function fails, the return value is zero or FALSE.

Remarks
    SLP-T400, SLP-D420, SLP-D220 : 1mm = 8dots
    SLP-T403, SLP-D423, SLP-D223 : 1mm = 12dots

10. PrintDirect

The PrintDirect function send data to port directly.

```
BOOL PrintDirect(
    LPCSTR pDirectData,
    Int nDataSize
);
```

Parameters
    pDirectData
        [in] Data to send
    nDataSize
        [in] Size of data

Return Values
    If the function succeeds, the return value is 1 or TRUE.
    If the function fails, the return value is zero or FALSE.

11. StartLabel

The StartLabel function stat to make label in printer.

```
BOOL StartLabel();
```

Return Values
    If the function succeeds, the return value is 1 or TRUE.
    If the function fails, the return value is zero or FALSE.

Remarks
    Must be called this function after call "ConnectPrinter" function.

12. EndLabel

The EndLabel function stop to make label in printer.

```
BOOL EndLabel();
```

Remarks
    Must be called this function before call "DisconnectPrinter" function.

13. RFIDSetup

For setting the RFID transponder type, number of coding(write/read) retries, number of labels upon retry, and sending/receiving power.

```
BOOL RFIDSetup(
    Int RFIDType,
    Int NumberOfRetries,
    Int NumberOfLabel,
    Int RadioPower,
);
```

Parameters
RFIDType
[in] RFID Transponder Type
0: none
1: ISO 180000-6 Type A
2: ISO 180000-6 Type B
3: EPC Class 0
4: EPC Class 1
5: EPC Class 1 Generation 2
(Normally set by 5)

NumberOfRetries
[in] Number of Coding Retries Upon Coding Failure (Write/Read Retries)
(Can be set from 1 ~ 10 times. Normally set by 3)
NumberOfLabel
[in] Number of Labels Upon Retry Following RFID Label Writing Failure.
(Number of Labels : 1 ~ 5. Normally set by 2)
RadioPower
[in] Sending/Receiving Power Adjustment (0~30)
0: Maximum Output
30: Minimum Output
(Normally set by 27)

Return Values
If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.

Remarks
Must be executed when modifying the RFID label or using it for the first time.
If reading RFID is failed, please modify RadioPower and NumberOfRetries.

14. RFIDCalibration

For calculating and saving the optimal coding position (read/write position of the transponder) of the RFID label on the printer and printing

```
BOOL RFIDCalibration();
```

Return Values
If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.

Remarks
Must be used only after executing the "＞RFS" command
This process must be repeated each time a different RFID label type is used.

1) Insert RFID label into the printer and turn on the printer.
2) Call RFIDCalibration function.
3) The optimal coding position is automatically calculated and subsequently saved on the printer. The saved value remains even when the printer is turned off, and is permanently stored.

15. RFIDPassword

For setting the RFID access password and kill password

```
BOOL RFIDPassword(
    LPCSTR OldAccessPwd,
    LPCSTR OldKillPwd,
    LPCSTR NewAccessPwd,
    LPCSTR NewKillPwd,
);
```

Parameters
OldAccessPwd
  [in] Old Access Password
      4Byte (Currently Active Access Password)
OldKillPwd
  [in] Old Kill Password (Can be set from 1 ~ 10 times. Normally set by 3)
      4Byte (Currently Active Kill Password)
NewAccessPwd
  [in] New Access Password
      4Byte (Modified Access Password)
NewKillPwd
  [in] New Kill Password
      4Byte (Modified Kill Password)

Return Values
If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.

Remarks
Modification is possible when the 8 bytes of the old access password and the kill password are the same. (The default setting for both passwords is 00 00 00 00.)
The desired passwords must be set each time the printer power is reset.

16. RFIDWrite

For writing RFID labels

```
BOOL RFIDWrite(
    Int DataType,
    Int StartingBlockNumber,
    Int WriteByte,
    LPCSTR Data,
);
```

Parameters
DataType
  [in] DataType
      1 : ASCII
      2 : Hexadecimal

StartingBlockNumber
    [in] Starting Block Number (4~10)
      (Normally set by 4)
WriteByte
    [in] Number of Bytes for Reading or Writing (2~12)
      (Normally set by 12. must be designated in units of 2 bytes.)
Data
    [in] Input data
      ASCII : Enter data in ACSII format.
      Hexadecimal : Enter data in Hex format.

Return Values

If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.

Remarks

For the write command, writing does not begin directly after the function is called but rather after the RFID coding position is reached following the commencement of printing via Prints function.

17. RFIDLock

For locking kill, access and data via the access password
    - Kill Password Read/Write Lock
    - Access Password Read/Write Lock

BOOL RFIDLock();

Return Values

If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.

Remarks

Must be used only RFIDPassword function is called
When Prints function is called, the lock process is executed at the RFID coding position.