Windows SDK Program Manual

LK-Pxx(CPCL)

Mobile Label Printer

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1. Instruction.

This Windows SDK Program Manual describes the function which is exposed from DLL file needed in developing Desktop Windows application.

2. Method.

- Functions for using in dll are defined in CPCLAPI.h file.
  Development environment is based on VC++ and .NET.

2.1. OpenPort

This function is used for opening ports in order to use Muldule(DLL).

```
long
OpenPort(
        LPCTSTR PortName,
        long BaudRate
)
```

[Parameter]

* PortName

- String which has a null-terminated string. It receives virtual port name currently connected device. When connecting Wi-Fi it receives IP of connected device as a factor.

* BaudRate

- In order to set up the transmission speed of connected device, it receives as a factor. When connecting Wi-Fi it receives port No. of the connected device as a factor.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.
LK_FAIL : When a function fails it returns.

2.2. ClosePort

This function is used for closing ports to cancel the use of Module(DLL).

```
long
ClosePort()
```

[Return Values]

LK_SUCCESS : When a function succeeds it returns.
LK_FAIL : When a function fails it returns.

2.3. SetForm

This function is used for defining paper form.

```
long
SetFormLabel(
        LPCTSTR HorizonOffset,
        long XResol,
        long YResol,
        LPCTSTR LabelHeight,
        long Quantity
)
```

[Parameter]

* HorizonOffset

- String which has a null-terminated string. It receives the horizontal offset of the total label as a factor. You can understand it as an absolute location value of left printing.

* XResol

- It receives the horizontal resolution as a factor.

* YResol

- It receives vertical resolution.

* LabelHeight

- It receives the value of label height for printing as a factor.

* Quantity

- It receives label q'ty to print as a factor.[Max. =< 1024]

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.4. PrintForm

This function is used for setting the paper at the top of the form after printing.

```
long
PrintForm()
```

[Parameter]

Nothing.

[Return Values]
LK_SUCCESS : When a function succeeds it returns.
LK_FAIL : When a function fails it returns.

2.5. PrinterCheck

This function is used for printer status checking.

```
long
PrinterCheck()
```

[Return Values]
LK_SUCCESS : This value returns when a function succeeds.
LK_FAIL : This value returns when a function fails.

2.6. status

This function is used for getting the printer status.

```
long  status()
```

[Return Values]
LK_STS_NORMAL: Printer Status is No Error and MSR is not Ready.
LK_STS_BUSY : Printer Status is busy.
LK_STS_PAPER_EMPTY : Printer Status is no paper.
LK_STS_COVER_OPEN : Printer Cover is open.
LK_STS_BATTERY_LOW : Printer battery capacity is low.

2.7. UserString

This function is used to send string command to printer directly.

```
long
UserString (
        LPCTSTR Data
)
```

[Parameter]

* Data
It sets the user's command as string

[Return Values]
LK_SUCCESS : When a function succeeds it returns.
LK_FAIL : When a function fails it returns.

2.8. SetMedia

This function is used for setting media type of label.

long

SetMedia (

long Mode

)

[Parameter]

* Mode

- It receives as a factor for setting media type of label.

Variable	Description
LK_CPCL_LABEL	Label with gap
LK_CPCL_BLACKMARK	Blackmark
LK_CPCL_CONTINUOUS	Continuous

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.9. SetSpeed

This function is used for defining printing speed.

long

SetSpeed(

long Speed

)

[Parameter]

* Speed

- It receives the printing speed as a factor. [0 =< Speed =<5]

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.10. CPCLPrintText

This function is used for printing text in a specified location on the form.

long
PrintText or
CPCLPrintText(long
Rotation,
long FontType,
long FontSize,
LPCTSTRPrintX,
LPCTSTRPrintY,
LPCTSTR Data,
long count
)

[Parameter]

* Rotation

- It received the printing direction value of the text for printing as a factor.

Variable	Description
LK_CPCL_NO_ROTATION	Print text with no rotation.
LK_CPCL_90_ROTATION	Print text with 90 rotation.(counterclockwise)
LK_CPCL_180_ROTATION	Print text with 180 rotation.(counterclockwise)
LK_CPCL_270_ROTATION	Print text with 270 rotation.(counterclockwise)

* FontType

- It receives the font type of the text toprint as a factor.

* FontSize

- It receives the font size value of the text to print as a factor.

* PrintX

- It receives the x-coordinates value of the text to print as a factor.

* PrintY

- It receives the y-coordinates value of the text to print as a factor.

* Data

- String which has a null-terminated string. It receives text to print as a factor.

* count

- It receives the count function of the text to print as afactor.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.
LK_FAIL : When a function fails it returns.

2.11. CPCLSetBarCode

This function is used for printing HRI character of barcode.

```
Long
CPCLSetBarCode(
        long FontNum,
        long FontSize,
        LPCTSTR Offset
)
```

[Parameter]

* FontNum
- It receives the font type of the text toprint as a factor.
* FontSize
- It receives the font size value of the text to print as a factor.
* Offset
- It set the gap between barcode and HRI Character.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.
LK_FAIL : When a function fails it returns.

2.12. CPCLPrintBarCode

This function is used for printing barcode.

```
long
PrintBarCode or
        CPCLPrintBarCode( long
        Rotation,
        long BarCodeType, long
        NB,
        long Ratio,
        long BarHeight,
        LPCTSTRPrintX,
        LPCTSTRPrintY,
        LPCTSTR Data,
        long count
)
```

[Parameter]

* Rotation

- It receives the printing direction value of the barcode to print as a factor.

Variable	Description
LK_CPCL_NO_ROTATION	Print barcode with no rotation.
LK_CPCL_90_ROTATION	Print barcode with 90 rotation.(counterclockwise)
LK_CPCL_180_ROTATION	Print barcode with 180 rotation. (counterclockwise)
LK_CPCL_270_ROTATION	Print text with 270 rotation.(counterclockwise)

* BarCodeType

- It receives the barcode type to print as a factor.

Variable	Description
LK_CPCL_BCS_39	Barcode 3 of 9 Standard.
LK_CPCL_BCS_39C	Barcode 3 of 9 Standard with Check Digit.
LK_CPCL_BCS_39F	Barcode 3 of 9 Full ASCII.
LK_CPCL_BCS_39FC	Barcode 3 of 9 Full ASCII with Check Digit.
LK_CPCL_BCS_93	Barcode Code 93.
LK_CPCL_BCS_128	Barcode Code 128.
LK_CPCL_BCS_EAN128	Barcode UCC-128.
LK_CPCL_BCS_CODABAR	Barcode Codabar.
LK_CPCL_BCS_CODABARC	Barcode Codabar with CheckDigit.
LK_CPCL_BCS_EAN8	Barcode EAN8.
LK_CPCL_BCS_EAN82	Barcode EAN8 2-Digit Add-On.
LK_CPCL_BCS_EAN85	Barcode EAN8 5-Digit Add-On.
LK_CPCL_BCS_EAN13	Barcode EAN13.
LK_CPCL_BCS_EAN132	Barcode EAN13 2-Digit Add-On.
LK_CPCL_BCS_EAN135	Barcode EAN13 5-Digit Add-On.
LK_CPCL_BCS_I2OF5	Barcode Interleaved 2 of 5.
LK_CPCL_BCS_POSTNET	Barcode Postnet
LK_CPCL_BCS_UPCA	Barcode UPCA.
LK_CPCL_BCS_UPCA2	Barcode UPCA 2-Digit Add-On.
LK_CPCL_BCS_UPCA5	Barcode UPCA 5-Digit Add-On.
LK_CPCL_BCS_UPCE	Barcode UPCE.
LK_CPCL_BCS_UPCE2	Barcode UPCE 2-Digit Add-On.
LK_CPCL_BCS_UPCE5	Barcode UPCE 5-Digit Add-On.
LK_CPCL_BCS_MSI	Barcode Plessey(MSI-1).
LK_CPCL_BCS_MSI1C	Barcode Plessey(MSI-1) with Check Digit.
LK_CPCL_BCS_MSI2C	Barcode Plessey(MSI-2) with Check Digit.
LK_CPCL_BCS_MSI11C	Barcode Plessey(MSI-11) with Check Digit.
LK_CPCL_BCS_PLUS2	Plus 2 Extension.
LK_CPCL_BCS_PLUS5	Plus 5 Extension.

* NB

- It receives the width of the little bar of barcode as a factor.

* Ratio

- It receives the ratio value of the barcode as afactor.

Variable	Description
LK_CPCL_BCS_0RATIO	Set up the barcode ratio as 1.5 : 1.
LK_CPCL_BCS_1RATIO	Set up the barcode ratio as 2.0 : 1.
LK_CPCL_BCS_2RATIO	Set up the barcode ratio as 2.5 : 1.
LK_CPCL_BCS_3RATIO	Set up the barcode ratio as 3.0 : 1.
LK_CPCL_BCS_4RATIO	Set up the barcode ratio as 3.5 : 1.
LK_CPCL_BCS_20RATIO	Set up the barcode ratio as 2.0 : 1.
LK_CPCL_BCS_21RATIO	Set up the barcode ratio as 2.1 : 1.
LK_CPCL_BCS_22RATIO	Set up the barcode ratio as 2.2 : 1.
LK_CPCL_BCS_23RATIO	Set up the barcode ratio as 2.3 : 1.
LK_CPCL_BCS_24RATIO	Set up the barcode ratio as 2.4 : 1.
LK_CPCL_BCS_25RATIO	Set up the barcode ratio as 2.5 : 1.
LK_CPCL_BCS_26RATIO	Set up the barcode ratio as 2.6 : 1.
LK_CPCL_BCS_27RATIO	Set up the barcode ratio as 2.7 : 1.
LK_CPCL_BCS_28RATIO	Set up the barcode ratio as 2.8 : 1.
LK_CPCL_BCS_29RATIO	Set up the barcode ratio as 2.9 : 1.
LK_CPCL_BCS_30RATIO	Set up the barcode ratio as 3.0 : 1.

* BarHeight

- It receives the height value of the barcode to print as a factor.

* PrintX

- It receives the starting point of x-coordinates of the barcode to print as a factor.

* PrintY

- It receives the starting point of y-coordinates of the barcode to print as a factor.

* Data

- It receives the barcode data to print as a factor.

* Count

- It receives the count function of the barcode to print as a factor.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.13. CPCL2DPrintBarCode

This function is used for printing two-dimension barcode.

```
Long
CPCL2DPrintBarCode(
        long Rotation,
        long BarCodeType,
        LPCTSTR PrintX,
        LPCTSTR PrintY,
        long UnitWidth,
        long UnitHeight,
        long Column,
        long SecurityLevel,
        LPCTSTR Data
)
```

[Parameter]

* Rotation

- It receives the printing direction value of the barcode to print as a factor.

Variable	Description
LK_CPCL_NO_ROTATION	Print text with no rotation.
LK_CPCL_90_ROTATION	Print text with 90 rotation.(counterclockwise)
LK_CPCL_180_ROTATION	Print text with 180 rotation.(counterclockwise)
LK_CPCL_270_ROTATION	Print text with 270 rotation.(counterclockwise)

* BarCodeType

- It receives the barcode type to print as a factor.

Variable	Description
LK_CPCL_BCS_PDF417	PDF417 Barcode.
LK_CPCL_BCS_QRCODE	QR Code Barcode.
LK_CPCL_BCS_DATAMATRIX	DataMatrix Barcode.

* PrintX

- It receives the x-coordinates value of the barcode to print as a factor.

* PrintY

- It receives the x-coordinates value of the barcode to print as a factor.

* UnitWidth

- It receives the Cell width value of the barcode to print as a factor.

* UnitHeight

- It receives the Cell height value of the barcode to print as a factor.

* Column

- It receives the Column value of the barcode to print as a factor.

* SecurityLevel

- It receives the Security Level value of the barcode to print as a factor.

* Data

- String which has a null-terminated string.
  It receives text to print as a factor.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.14. CPCLPrintBitmap

This function is used to supporting bitmap file printing.

```
Long
 CPCLPrintBitmap(
        LPCTSTR     BitmapName,
        LPCTSTR     PrintX,
        LPCTSTR     PrintY
);
```

[Parameter]

* BitmapName

- It sets the Bitmap file name.

* PrintX

- It receives the x-coordinates value of the barcode to print as a factor.

* PrintY

- It receives the y-coordinates value of the barcode to print as a factor.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.15. CPCLPrintText2Image

This function is used to supporting True-Type Font printing.

```
Long
 CPCLPrintText2Image(
        long Orientation,
        LPCTSTR PrintX,
        LPCTSTR PrintY,
        LPCTSTR FontFace,
        long FontStyle,
        int FontSize,
        LPCTSTR TextData,
        int ReversePrint
);
```

[Parameter]

* Orientation

- It receives the printing direction value of the TTF Font to print as a factor.

Variable	Description
LK_CPCL_NO_ROTATION	Print TTF font with no rotation.
LK_CPCL_90_ROTATION	Print TTF font with 90 rotation.(counterclockwise)
LK_CPCL_180_ROTATION	Print TTF font with 180 rotation.(counterclockwise)
LK_CPCL_270_ROTATION	Print TTF font with 270 rotation.(counterclockwise)

* PrintX

- It receives the x-coordinates value of the barcode to print as a factor.

* PrintY

- It receives the y-coordinates value of the barcode to print as a factor.

* FontFace

- It sets the True-Type Font name.

* FontStyle

- It sets the True-Type Font characteristics.

Variable	Description
LK_TTF_THIN	Weight of True-Type Font is THIN.
LK_TTF_NORMAL	Weight of True-Type Font is NORMAL.
LK_TTF_BOLD	Weight of True-Type Font is BOLD.
LK_TTF_ITALIC	Style of True-Type Font is italic.
LK_TTF_UNDERLINE	Style of True-Type Font is underline.

* FontSize

- It sets the True-Type Font size.(Dot Size).

* TextData

- Unicode which has a null-terminated string.
  It receives text to print as a factor.

* ReversePrint

- It sets the value of reverse printing.

Variable	Description
LK_TTF_REVERSE_NO	Not Reverse Printing.
LK_TTF_REVERSE_YES	Reverse Printing.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.16. SetMeasure

This function is used for setting measure of command.

```
long
SetMeasure(
        long Measure
)
```

[Parameter]

* Measure

- It receives measure set command as a factor.

Variable	Description
LK_CPCL_INCH	Set up measure as inch.
LK_CPCL_CENTI	Set up measure as centimeter
LK_CPCL_MILLI	Set up measure as millimeter
LK_CPCL_DOTS	Set up measure as dot(Default)

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.17. SetJustification

This function is used for setting justification of fields.

```
long
SetJustification (
        long Justify
)
```

[Parameter]

* Justify

- It receives as a factor for setting justification of fields.

Variable	Description
LK_CPCL_LEFT	Left justification
LK_CPCL_CENTER	Center justification
LK_CPCL_RIGHT	Right justification

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.18. SetConcat

This function is used for defining the start of the text concatenation and the printing position.

```
long
SetConcat(
        long ConcatMode,
        long PrintX,
        long PrintY
)
```

[Parameter]

* ConcatMode

- It receives the concatenation method of the text to concatenate as a factor.

Variable	Description
LK_CPCL_CONCAT	It concatenates text as horizontal
LK_CPCL_VCONCAT	It concatenates text as vertical

* PrintX

- It receives the x-coordinates value of the text to print as a factor.

* PrintY

- It receives the y-coordinates value of the text to print as a factor.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.19. ConcatText

This function is used for defining the font to concatenate.

```
long
ConcatText(
        long FontType,
        long FontSize, long
        Offset, LPCTSTR
        Data
)
```

[Parameter]

* FontType
- It receives the font type of the text toprint as a factor.
* FontSize
- It receives the font size value of the text to print as a factor.
* Offset
- It receives Unit-value at the starting point.
* Data
- String which has a null-terminated string. It receives the text to print as a factor.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.20. ResetConcat

This function is used for canceling text concatenation. long

ResetConcat()

[Parameter]

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.21. SetMultiLine

This function is used for defining multi-line printing with same line length and same font.

```
long
SetMultiLine(
        long LineHeight
)
```

[Parameter]

* LineHeight

- It receives the line height value of the text to print as a factor.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.22. MultiLineText

This function is used for printing text which is defined as SetMultiLine().

It received the font, the size and the printing location of the text to print as a factor.

```
long
MultiLineText(
        long Rotation,
        long FontType,
        long FontSize,
        long PrintX, long
        PrintY
)
```

[Parameter]

* Rotation

- It receives the printing direction value of the text to print as a factor.

Variable	Description
LK_CPCL_NO_ROTATION	Print text with no rotation.
LK_CPCL_90_ROTATION	Print text with 90 rotation.(counterclockwise)
LK_CPCL_180_ROTATION	Print text with 180 rotation.(counterclockwise)
LK_CPCL_270_ROTATION	Print text with 270 rotation.(counterclockwise)

* FontType

- It receives the font type of the text toprint as a factor.

* FontSize

- It receives the font size value of the text to print as a factor.

* PrintX

- It receives the x-coordinates value of the text to print as a factor.

* PrintY

- It receives the y-coordinates value of the text to print as a factor.

* Data

- String which has a null-terminated string. It receives text to print as a factor.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.23. MultiLineData

This function is used for printing text to print the value which is defined in MultiLineText().

```
long
MultiLineData(
        LPCTSTR Data
)
```

[Parameter]

* Data

- String which has a null-terminated string. It receives text to print as a factor.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.24 ResetMultiLine

This function is used for canceling the defined function in SetMultiLine().

long
ResetMultiLine()

[Parameter]

[Return Values]
LK_SUCCESS : When a function succeeds it returns.
LK_FAIL : When a function fails it returns.

2.25. SetMagnify

This function is used for setting the magnification of text.

long
SetMagnify(
long Width,
long Height
)

[Parameter]
* Width
- It received the width ratio of text as a factor.

Variable (Set up width ratio)	Description
LK_CPCL_TXT_1WIDTH	Set up width ratio as x1
LK_CPCL_TXT_2WIDTH	Set up width ratio as x2
LK_CPCL_TXT_3WIDTH	Set up width ratio as x3
LK_CPCL_TXT_4WIDTH	Set up width ratio as x4
LK_CPCL_TXT_5WIDTH	Set up width ratio as x5
LK_CPCL_TXT_6WIDTH	Set up width ratio as x6
LK_CPCL_TXT_7WIDTH	Set up width ratio as x7
LK_CPCL_TXT_8WIDTH	Set up width ratio as x8
LK_CPCL_TXT_9WIDTH	Set up width ratio as x9
LK_CPCL_TXT_10WIDTH	Set up width ratio as x10
LK_CPCL_TXT_11WIDTH	Set up width ratio as x11
LK_CPCL_TXT_12WIDTH	Set up width ratio as x12
LK_CPCL_TXT_13WIDTH	Set up width ratio as x13
LK_CPCL_TXT_14WIDTH	Set up width ratio as x14
LK_CPCL_TXT_15WIDTH	Set up width ratio as x15
LK_CPCL_TXT_16WIDTH	Set up width ratio as x16

* Height

- It received the height ratio of text as a factor.

Variable (Set up height ratio)	Description
LK_CPCL_TXT_1HEIGHT	Set up height ratio as x1
LK_CPCL_TXT_2HEIGHT	Set up height ratio as x2
LK_CPCL_TXT_3HEIGHT	Set up height ratio as x3
LK_CPCL_TXT_4HEIGHT	Set up height ratio as x4
LK_CPCL_TXT_5HEIGHT	Set up height ratio as x5
LK_CPCL_TXT_6HEIGHT	Set up height ratio as x6
LK_CPCL_TXT_7HEIGHT	Set up height ratio as x7
LK_CPCL)TXT_8HEIGHT	Set up height ratio as x8
LK_CPCL_TXT_9HEIGHT	Set up height ratio as x9
LK_CPCL_TXT_10HEIGHT	Set up height ratio as x10
LK_CPCL_TXT_11HEIGHT	Set up height ratio as x11
LK_CPCL_TXT_12HEIGHT	Set up height ratio as x12
LK_CPCL_TXT_13HEIGHT	Set up height ratio as x13
LK_CPCL_TXT_14HEIGHT	Set up height ratio as x14
LK_CPCL_TXT_15HEIGHT	Set up height ratio as x15
LK_CPCL)TXT_16HEIGHT	Set up height ratio as x16

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.26. ResetMagnify

This function is used for canceling the defined function in SetMagnify().

long

ResetMagnify()

[Parameter]

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.27. PrintBox

This function is used for printing box image. long

PrintBox(

```
        long  xs,
        long  ys,
        long  xx,
        long yx,
        long Thickness
)
```

[Parameter]

* xs
- It receives the starting point of x-coordinates for box printing as a factor.
* ys
- It receives the starting point of y-coordinates for box printing as a factor.
* xx
- It receives the ending point of x-coordinates for box printing as a factor.
* yx
- It receives the ending point of y-coordinates for box printing as a factor.
* Thickness
- It receives the thickness of the box line to print as a factor.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.
LK_FAIL : When a function fails it returns.

2.28. PrintLine

This function is used for printing line image.

```
long
PrintLine(
        long  xs,
        long  ys,
        long  xx,
        long yx,
        long Thickness
)
```

[Parameter]

* xs
- It receives the starting point of x-coordinates for line printing as a factor.
* ys
- It receives the starting point of y-coordinates for line printing as a factor.
* xx
- It receives the ending point of x-coordinates for line printing as a factor.

* yx
- It receives the ending point of y-coordinates for line printing as a factor.
* Thickness
- It receives the thickness of the line to print as a factor.

[Return Values]
LK_SUCCESS : When a function succeeds it returns.
LK_FAIL : When a function fails it returns.

2.29. InverseLine

This function is used for the inverse image in special area. It has Syntax like PrintLine() Method.

```
long
InverseLine(
        long  xs,
        long  ys,
        long  xx,
        long yx,
        long Thickness
)
```

[Parameter]
* xs
- It receives the starting point of x-coordinates for inverse image printing as a factor.
* ys
- It receives the starting point of y-coordinates for inverse image printing as a factor.
* xx
- It receives the ending point of x-coordinates for inverse image printing as a factor.
* yx
- It receives the ending point of y-coordinates for inverse image printing as a factor.
* Thickness
- It receives the thickness of the line for inverse image printing as a factor.

[Return Values]
LK_SUCCESS : When a function succeeds it returns.
LK_FAIL : When a function fails it returns.

2.30. SetPattern

This function is used for pattern printing.

long
SetPattern(
long PatternNum
)

[Parameter]

* PatternNum

- It receives the value of the pattern to print as a factor.

Variable	Description
LK_CPCL_DEFAULT_PATTERN	Filled(Black/default value)
LK_CPCL_HORIZON_PATTERN	It prints the pattern as a horizontalline.
LK_CPCL_VERTICAL_PATTERN	It prints the pattern as a vertical line.
LK_CPCL_RDIAGON_PATTERN	It prints the diagonal pattern to the right.
LK_CPCL_LDIAGON_PATTERN	It prints the diagonal pattern to the left.
LK_CPCL_SQUARE_PATTERN	It prints the pattern as a square.
LK_CPCL_CROSS_PATTERN	It prints the pattern as a diagonal line to right and left.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.31. PrintGraphic

This function is used for Bit-mapped image printing.

long
PrintGraphic(
long BytesWidth,
long DotHeight,
long PrintX,
long PrintY,
PCHAR Data
)

[Parameter]

* BytesWidth

- It receives the byte width of the image to print as a factor.

* DotHeight

- It receives the dot height of the image to print as a factor.

* PrintX

- It receives the starting point of x-coordinates on the image to print as a factor.

* PrintY

- It receives the starting point of y-coordinates on the image to print as a factor.

* Data

- It receives the image data to print as afactor.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.32. SetContrast

This function is used for adjusting contrast of the whole label to print.

```
long
SetContrast(
        long Darkness
)
```

[Parameter]

* Darkness

- It receives the contrast value of the whole label to print as a factor. [0 <= Darkness <=3]

Variable	Description
LK_CPCL_CONT_DEFAULT	Set up as default
LK_CPCL_CONT_MEDIUM	Print as middle brightness
LK_CPCL_CONT_DARK	Print as dark
LK_CPCL_CONT_VERY_DARK	Print as very dark.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.33. SetPageWidth

This function is used for defining the width of the paper form.

```
long
SetPageWidth(
        long PageWidth
)
```

[Parameter]

* PageWidth

- It receives the page width value of the label to print as a factor.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.34. CPCLPrintImage

This function is used for printing pcx image stored in flash file system of the printer.
Reference to Desktop Application Manual.

```
long
CPCLPrintImage (
        LPCTSTR ImageName,
        LPCTSTR PrintX,
        LPCTSTR PrintY
)
```

[Parameter]

* ImageName

- String which has a null-terminated string.

It receives the pcx file name stored in flash file system as a factor.

* PrintX

- It receives the starting point of x-coordinates to print as a factor.

* PrintY

- It receives the starting point of y-coordinates to print as a factor.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.35. SetTone

This function is the Method which is used instead of SetContrast() and it is used for adjusting the darkness of the whole label to print

```
long
SetTone(
        long Tone
)
```

[Parameter]

* Tone

- It receives the tone of darkness of the whole label as a factor. [-99 =< Tone =< 200]

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.36. CPCLPrintBitmapAlign

This function is used to supporting bitmap file printing with justification.

```
Long
 CPCLPrintBitmapAlign(
        LPCTSTR     BitmapName,
        long        Alignment,
        LPCTSTR     PrintY
);
```

[Parameter]

* BitmapName

- It sets the Bitmap file name.

* Alignment

- It receives the alignment of Bitmap image as a factor.

Variable	Description
LK_CPCL_LEFT	Left justification
LK_CPCL_CENTER	Center justification
LK_CPCL_RIGHT	Right justification

* PrintY

- It receives the y-coordinates value of the barcode to print as a factor.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.37. CPCLPrintText2ImageAlgin

This function is used to supporting True-Type Font printing with justification.

```
Long
CPCLPrintText2ImageAlign(
        long Orientation,
        long Alignment,
        LPCTSTR PrintY,
        LPCTSTR FontFace,
        long FontStyle,
        int FontSize,
        LPCTSTR TextData,
        int ReversePrint
);
```

[Parameter]

* Orientation

- It receives the printing direction value of the TTF Font to print as a factor.

Variable	Description
LK_CPCL_NO_ROTATION	Print TTF font with no rotation.
LK_CPCL_90_ROTATION	Print TTF font with 90 rotation.(counterclockwise)
LK_CPCL_180_ROTATION	Print TTF font with 180 rotation.(counterclockwise)
LK_CPCL_270_ROTATION	Print TTF font with 270 rotation.(counterclockwise)

* Alignment

- It receives the alignment of Bitmap image as a factor.

Variable	Description
LK_CPCL_LEFT	Left justification
LK_CPCL_CENTER	Center justification
LK_CPCL_RIGHT	Right justification

* PrintY

- It receives the y-coordinates value of the barcode to print as a factor.

* FontFace

- It sets the True-Type Font name.

* FontStyle

- It sets the True-Type Font characteristics.

Variable	Description
LK_TTF_THIN	Weight of True-Type Font is THIN.
LK_TTF_NORMAL	Weight of True-Type Font is NORMAL.
LK_TTF_BOLD	Weight of True-Type Font is BOLD.
LK_TTF_ITALIC	Style of True-Type Font is italic.
LK_TTF_UNDERLINE	Style of True-Type Font is underline.

* FontSize

- It sets the True-Type Font size.(Dot Size).

* TextData

- Unicode which has a null-terminated string.

  It receives text to print as a factor.

* ReversePrint

- It sets the value of reverse printing.

Variable	Description
LK_TTF_REVERSE_NO	Not Reverse Printing.
LK_TTF_REVERSE_YES	Reverse Printing.

[Return Values]

LK_SUCCESS : When a function succeeds it returns.

LK_FAIL : When a function fails it returns.

2.38. OutputCompletePrinting

This function is used to get the printing results.

Long

OutputCompletePrinting();

[Return Values]

LK_STS_NORMAL: Printing results success.

LK_STS_BUSY : Printer connection is disconnected or power off stauts.

LK_STS_PAPER_EMPTY : Printer Status is no paper.

LK_STS_COVER_OPEN : Printer Cover is open.

LK_STS_BATTERY_LOW : Printer battery capacity is low.