

Printer Driver Status API Development Guide

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Overview

Posiflex Printer Driver not only supported Windows printer driver function, but also can monitor the status of the Aura printer with this "PFXAPI.dll". Before to use this API, please install Posiflex printer driver first. This manual will guide how to control all the functions in "PFXAPI.dll".

Please note that all the description is based on the VB6 language.

PFXAPI.DLL FUNCTION

ppstOPEN

To OPEN printer driver port of the assigned printer name.
This function needs to execute before to get cash drawer status.

```
Declare Function ppstOPEN Lib "PFXAPI.DLL" (  
    ByVal ppNAME As String           '// printer name  
    ) As Long
```

Parameters

ppNAME

The printer name of printer driver.

Return Values

0 -- If the function succeeds, the return value is zero.
3 – Spooler operation error.
5 – Re-opened error.
Else - If the function fails, the return value is nonzero.

ppstCLOSE

To CLOSE printer driver port of the opened printer name.
This function needs to execute before the end of application.

```
Declare Function ppstCLOSE Lib "PFXAPI.DLL" (  
    ) As Long
```

Parameters

Return Values

- 0 -- If the function succeeds, the return value is zero.
- 2 – The error of printer doesn't OPEN yet.
- Else - If the function fails, the return value is nonzero.

ppstGet

To get OPEN ED or CLOSED status of cash drawer that connected to opened printer name.

```
Declare Function ppstGET Lib "PFXAPI.DLL" (  
    ) As Long
```

Parameters

Return Values

0 -- If the cash drawer CLOSED, the return value is zero.

1 -- If the cash drawer OPENED, the return value is one.

2 – The error of printer doesn't OPEN yet.

3 – Spooler operation error.

Else - If the function fails, the return value is nonzero.

ppstZxGet

To get all the printer status for example cover open, cutter error, paper end etc.

```
Declare Function ppstZxGet Lib "PFXAPI.DLL" (  
    ByRef ReturnBuffer As Byte,  
    ByVal SequenceIndex As Integer,  
    ) As Long
```

Parameters

ReturnBuffer

The returned data buffer of status back code for printer.

SequenceIndex

The index of status sequence. (n1, n2, n3, n4)

Please refer to Return Code Table.

Return Values

There is one byte status back code normally.

Please refer to Return Code Table for the detail of return values.

Return Code Table

There are four bytes status back code normally.

There are two kind status back code.

One kind is “Real-Time Status Transmission”. (For Virtual COM interface only)

The other one is “Automatic Status Back”. (For USB/Serial/LAN interface)

“Real-Time Status Transmission”

If there is no error occurred, printer will feed back four bytes:

<16> <12> <12><12>.

The code table below is the common error of printer.

For detail, please refer to the description of index of status sequence.

Sequence	Return code			
	Printer ready	Cover Open	Paper End	Cutter Error
n1	<16>h	1E	1E	1E
n2	<12>h	16	12	52
n3	<12>h	12	12	3A
n4	<12>h	72 or 12	72	12

[Description of Sequence Index]

The parameter *n1*, *n2*, *n3*, *n4* specifies the status items as follows:

n1: Transmit printer status.

n2: Transmit off-line status.

n3: Transmit error status,.

n4: Transmit paper sensor status.

n1: Printer status

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	Not used. Fixed to Off
1	On	02	2	Not used. Fixed to On
2	Off	00	0	Drawer open/close signal is LOW (connector pin 3)
	On	04	4	Drawer open/close signal is HIGH (connector pin 3)
3	Off	00	0	On-line
	On	08	8	Off-line
4	On	10	16	Not used. Fixed to On
5,6	-	-	-	Undefined
7	Off	00	00	Not used. Fixed to Off

n2: off-line status

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	Not used. Fixed to Off
1	On	02	2	Not used. Fixed to On
2	Off	00	0	Cover is closed
	On	04	4	Cover is open
3	Off	00	0	FEED button is used for macro execution
	On	08	8	FEED button is used to feed the paper
4	On	10	16	Not used. Fixed to On
5	Off	00	0	Not used Fixed to Off
6	Off	00	0	No error
	On	40	64	Error occurs
7	Off	00	0	Not used Fixed to Off

n3: error status

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	Not used. Fixed to Off
1	On	02	2	Not used. Fixed to On
2	-	-	-	Undefined
3	Off	00	0	No auto-cutter error
	On	08	8	Auto-cutter error occurs
4	On	10	16	Not used. Fixed to On
5	Off	00	0	No unrecoverable error
	On	20	32	Unrecoverable error occurs
6	Off	00	0	No auto-recoverable error
	On	40	64	Auto recoverable error occurs
7	Off	00	0	Not used. Fixed to Off

n4: paper sensor status

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	Not used. Fixed to Off
1	On	02	2	Not used. Fixed to On
2,3	Off	00	0	Paper roll near-end sensor: paper adequate
	On	0C	12	Paper roll near-end sensor: paper near-end
4	On	10	16	Not used. Fixed to On
5,6	Off	00	0	Paper end sensor: paper present
	On	60	96	Paper end sensor: paper end
7	Off	00	0	Not used. Fixed to Off

“Automatic Status Back”

If there is no error occurred, printer will feed back four bytes as below.

<14> <0> <0><F>.

The code table below is the common error of printer.

For detail, please refer to the description of index of status sequence.

Sequence	Return code			
	Printer ready	Cover Open	Paper End	Paper Near End
n1	<14>h	<3C>h	<1C>h	<14>h
n2	<0>h	<0>h	<0>h	<0>h
n3	<0>h	<0>h or <3>h	<C>h or <F>	<3>h
n4	<F>h	<F>h	<F>h	<F>h

[Description of Sequence Index]

The parameter *n1*, *n2*, *n3*, *n4* specifies the status items as follows:

Bit	Off/On	Hex	Decimal	Status for ASB
0	Off	00	0	Drawer kick-out connector pin 3 status disabled.
	On	01	1	Drawer kick-out connector pin 3 status enabled.
1	Off	00	0	On-line/off-line status disabled.
	On	02	2	On-line/off-line status enabled.
2	Off	00	0	Error status disabled.
	On	04	4	Error status disabled.
3	Off	00	0	Paper roll sensor status disabled.
	On	08	8	Paper roll sensor status enabled.
4-7	-	-	-	Undefined.

First bytes (printer information)

Bit	Off/On	Hex	Decimal	Status for ASB
0	Off	00	0	Not used. Fixed to Off
1	Off	00	0	Not used. Fixed to Off
2	Off	00	0	Drawer kick-out connector pin 3 is LOW
	On	04	4	Drawer kick-out connector pin 3 is HIGH
3	Off	00	0	On-line
	On	08	8	Off-line
4	On	10	16	Not used. Fixed to On
5	Off	00	0	Cover is closed
	On	20	32	Cover is open
6	Off	00	0	Paper is not being fed by using the PAPER FEED button
	On	40	64	Paper is being fed by using the PAPER FEED button
7	Off	00	0	Not used. Fixed to Off

Second byte (printer information)

Bit	Off/On	Hex	Decimal	Status for ASB
0	-	-	-	Undefined
1	-	-	-	Undefined
2	-	-	-	Undefined
3	Off	00	0	No auto cutter error
	On	08	8	Auto cutter error occurred
4	Off	00	0	Not used. Fixed to Off
5	Off	00	0	No unrecoverable error
	On	20	32	Unrecoverable error occurred
6	Off	00	0	No automatically recoverable error
	On	40	64	Automatically recoverable error occurred
7	Off	00	0	Not used. Fixed to Off

Third byte (paper sensor information)

Bit	Off/On	Hex	Decimal	Status for ASB
0,1	Off	00	0	Paper roll near-end sensor: paper adequate
	On	03	3	Paper roll near-end sensor: paper near end
2,3	Off	00	0	Paper out sensor: paper present
	On	0C	12	Paper out sensor: paper not present
4	Off	00	0	Not used. Fixed to Off
5,6	-	-	-	Undefined
7	Off	00	0	Not used. Fixed to Off

Fourth byte (paper sensor information)

Bit	Off/On	Hex	Decimal	Status for ASB
0-3	-	-	-	Undefined
4	Off	00	0	Not used. Fixed to Off
5,6	-	-	-	Undefined
7	Off	00	0	Not used Fixed to Off