

SDK guide

Overview

Describes overview of SDK

Win32 API reference

Describes syntax of API

.net API reference

Describes syntax of API used in .net environment.

Document disclaimer



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 Caution	It indicates the precautions to be observed fully. Disregard of the signs and wrong usage may casue malfunction and inoperative.
 Reference	It indicates supplement description and relevant matters.

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Overview

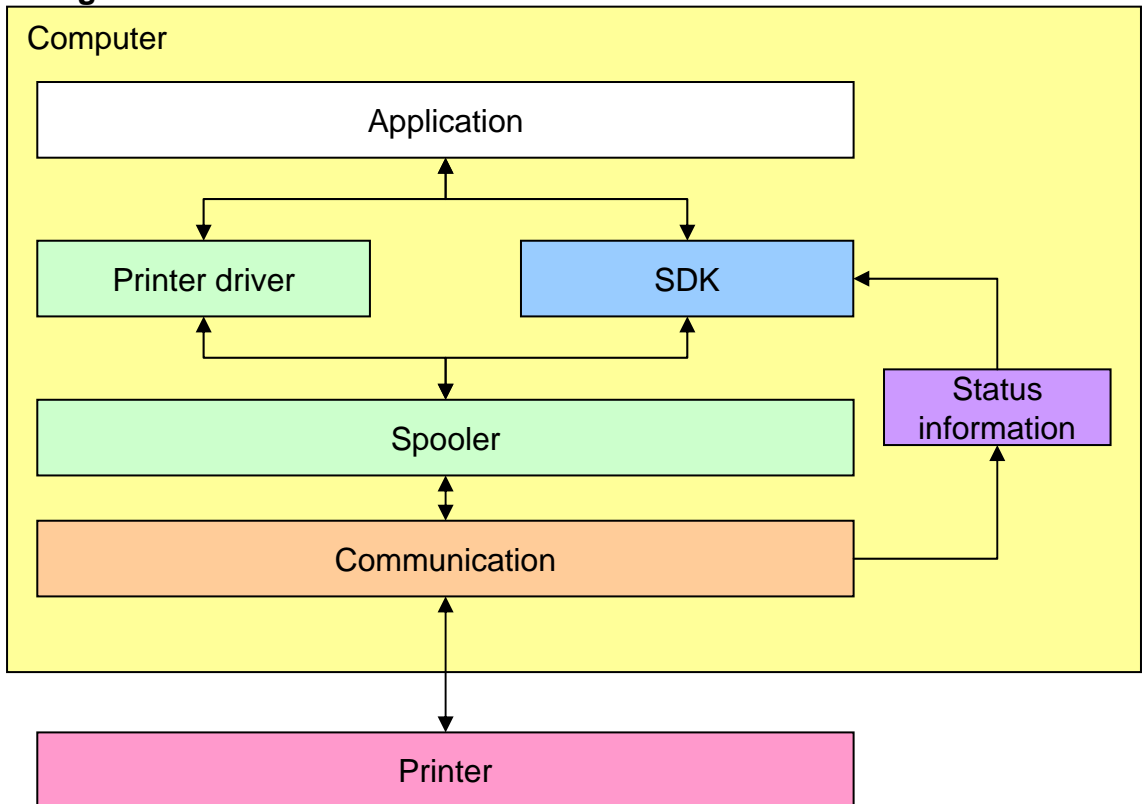
The function of printing and printer monitoring can be installed in targeted application by using SDK.

SDK is distributed as Dynamic Link Library (DLL).

File name: NiiPrinterLib.dll

NiiPrinterCLib.dll

System configuration with SDK



Development language

Win32

- Visual Basic 6.0
- Visual C++

.NET

- Visual Basic .NET
- Visual C#

Install

SDK is installed automatically when NII printer driver is installed.



You can find required files for environment construction in each sample in this manual.

Construction of development environment

Visual Basic 6.0

Following is an example of development environment construction for Visual Basic.

1. Copy API definition file (Module1.bas) from VBSample folder to working folder where you make a project for an application.
2. Run the Microsoft Visual Basic and open project window.
3. Select [Add standard module] from [Project] menu on menu bar.
4. A window to add module will open. Select [Existing file] tab, specify the definition file copied in above step #1 and click [Open] button.
5. [Module1.bas] will be added to project explorer.
6. Select [Reference] from [Project] menu on menu bar.
7. Development environment for Visual Basic 6.0 will be ready.

Visual C++

Following is an example of development environment construction for Visual C++.

1. Run the Microsoft Visual C++ and open project window.
2. Copy API definition file (ImportAPI.h) to working folder where you make a project for an application.
3. Open Source File. Define (ImportAPI.h) by using #include directory.
Definition method: #include "ImportApi.h"
4. Development environment for Visual C++ will be ready.

* Use Module1.bas, ImportAPI.h after the modification of those files depending on your usage since those files are just reference.

Category of API

Following APIs are available.

Application	API	Description
Sending command and data	NiiPrint	Sends specified hexadecimal character data to printer.
Sending command and data	NiiDPrint	Sends specified data to printer
Image output	NiiImagePrint	Sends specified raster image device context to printer.
Image Output	NiiImagePrintF	Sends specified file (BMP) as raster image to printer.
Image output	NiiBitImagePrint	Sends specified bit image device context to printer.
Image output	NiiBitImagePrintF	Sends specified file (BMP) as raster image to printer.
Obtaining status	NiiGetStatus	Returns status obtained from specified printer.
Reset printer	NiiResetPrinter	Reset printer which is used through by USB interface.
Document control	NiiStartDoc	Starts document.
Document control	NiiEndDoc	Ends document.
Document control	NiiCancelDoc	Cancels document.
Obtaining extended information	NiiGetInformation	Obtains information from specified type ID.
Image output	NiiImagePrintEx	Sends specified raster image device context to printer.
Generate barcode	NiiBarcode	Generate barcode image.
Backward compatibility	NiiOpenAPI	Stores target printer name.
Backward compatibility	NiiGetPrinterStatus	Returns status of a printer whose name is stored by function [NiiOpenAPI].
Backward compatibility	NiiCloseAPI	No operation
F/W upgrade	NiiFWDL	Upgrade firmware with the target firmware file.
F/W upgrade	NiiFWCHK	Check if firmware is upgraded correctly.

Win32 API Reference

Function name		NiiPrint / NiiPrintW		
Argument name		IN/OUT	Type	Description
i_prt		I	PCHAR / PWCHAR	Target printer name
i_dat		I	PCHAR	Transmit data (hexadecimal)
i_size		I	DWORD	Number of bytes
o_jobid		O	PDWORD	Print job ID (NULL can be specified)
Return value		INT		
·Error (negative value), Normal end (0)				
Processing Description				
·Sends specified hexadecimal character data to printer				
Error description				
-2 : Printer open error				
-3 : Document starting error				
-4 : Page starting error				
-5 : File acquisition failure				
-6 : Invalid argument error				
-7 : Temporary open error				
-13: Printer output error (spooler)				
-31: Resource shortage				
·Transmit Data				
·Data string has to be hexadecimal characters.				
* "0x" is unnecessary.				
ex;				
ESC → 1B				
0x303132 → 303132				
·Direct assignment of character data can be done by putting the character data between“(double quotations).				
ex;				
ESC @(printerInitializationcommand) → 1B"@"				
12345LF → "12345"0A				
* The output of "(double quotation)" can be done by stating it twice in series.				

Processing Description

Caution

- Sequential print and Batch print

The data is sent to printer sequentially when NiiPrint or NiilImagePrint is executed.

NiiStartDoc and NiiEndDoc enable batch data sending to printer.

Please use sequential print and batch print depending on the purpose.

Function name		NiiDPrint / NiiDPrintW	
Argument name	IN/OUT	Type	Description
i_prt	I	PCHAR / PWCHAR	Target printer name
i_dat	I	PWCHAR	Transmit data (hexadecimal)
i_size	I	PBYTE	Number of bytes
o_jobid	O	DWORD PDWORD	Print job ID (NULL can be specified)
Return value	INT		
-Error (negative value), Normal end (0)			
Processing Description			
-Sends specified data to printer			
Error description			
-2 : Printer open error			
-3 : Document starting error			
-4 : Page starting error			
-6 : Invalid argument error			
-13: Printer output error (spooler)			
-31: Resource shortage			
<div>Caution</div>			
- Sequential print and Batch print			
The data is sent to printer sequentially when NiiPrint or NiiImagePrint is executed.			
NiiStartDoc and NiiEndDoc enable batch data sending to printer.			
Please use sequential print and batch print depending on the purpose.			

Win32 API Reference

Function name	NiImagePrint / NiImagePrintW		
Argument name	IN/OUT	Type	Description
i_prt	I	PCHAR / PWCHAR	Target printer name
i_bmp	I	HDC	Device context handle
i_x	I	int	Width
i_y	I	int	Height
i_file	I	BOOL	Sending type TRUE: by block FALSE: by line
o_jobid	O	PDWORD	Print job ID (NULL can be specified)
Return value	INT		

·Error (negative value), Normal end (0)

Processing Description

·Sends specified device context as a raster image to printer.

Error description

- 1 : Invalid device context handle
- 2 : Printer open error
- 3 : Document starting error
- 4 : Page starting error
- 5 : File acquisition failure
- 6 : Invalid argument error
- 13 : Printer output error (spooler)
- 30 : Invalid image size
- 31 : Resource shortage

Caution

·Sequential print and Batch print

The data is sent to printer sequentially when NiiPrint or NiImagePrint is executed.

NiiStartDoc and NiiEndDoc enable batch data sending to printer.

Please use sequential print and batch print depending on the purpose.

Function name	NiiBitImagePrint / NiiBitImagePrintW		
Argument name	IN/OUT	Type	Description
i_prt	I	PCHAR / PWCHAR	Target printer
i_bmp	I	HDC	Device context handle
i_x	I	int	width
i_y	I	int	height
o_jobid	O	PDWORD	Print job ID (NULL can be specified)
Return value	INT		
·Error (negative value), Normal end (0)			
Processing Description			
·Sends specified device context to printer in bit image.			
Error description			
-1 : Invalid device context handle			
-2 : Printer open error			
-3 : Document starting error			
-4 : Page starting error			
-5 : File acquisition failure			
-6 : Invalid argument error			
-7 : Temporary open error			
-13: Printer output error (spooler)			
-30: Invalid image size			
-31: Resource shortage			
<div>Caution</div>			
·Sequential print and Batch print			
The data is sent to printer sequentially when NiiPrint or NiiImagePrint is executed.			
NiiStartDoc and NiiEndDoc enable batch data sending to printer.			
Please use sequential print and batch print depending on the purpose.			

Function name	NiiGetStatus / NiiGetStatusW		
Argument name	IN/OUT	Type	Description
i_prt	I	PCHAR / PWCHAR	Target printer
o_status	O	LPDWORD	status
Return value	INT		
·Error (negative value), Normal end (0), Warning (positive value)			
Processing Description			
·Returns a status obtained from a specified printer. * See command 《ESC v》 in target printer's specification sheet for return values.			
Error description			
-3 : Printer open error			
-5 : OFFLINE			
-6 : Invalid argument error			
-9 : Printer information acquisition failure			
-11: Status information acquisition failure			
-12: Status information open error			
-31: Resource shortage			
-102: Socket error			
-110: Host unknown			
-105: Connection error			
-106: Transmission error			
-107: Transmission error (Timeout)			
-108: Receipt error			
-109: Receipt error (Timeout)			
-111: Communication error			
1 : Status information open error (recovered)			

Function name	NiiStartDoc / NiiStartDocW		
Argument name	IN/OUT	Type	Description
i_prt	I	PCHAR / PWCHAR	Target printer
o_jobid	O	PDWORD	Print job ID (NULL can be specified)
Return value	INT		
·Error (negative value), Normal end (0), Warning (positive value)			
Processing Description			
·Starts document			
Error description			
-1 : Data expansion error			
-2 : Printer open error			
-3 : Document starting error			
-4 : Page starting error			
-6 : Invalid argument error			
-31: Resource shortage			
1 : Document already started			
2 : Printer is opened.			

Win32 API Reference

Function name	NiiEndDoc / NiiEndDocW		
Argument name	IN/OUT	Type	Description
i_prt	I	PCHAR / PWCHAR	Target printer
Return value	INT		
·Error (negative value), Normal end (0), Warning (positive value)			
Processing Description			
·Ends document			
Error description			
-1 : Data expansion error			
-6 : Invalid argument error			
-31: Resource shortage			
1 : Document not started			
2 : Printer is not opened			

Function name	NiiCancelDoc / NiiCancelDocW		
Argument name	IN/OUT	Type	Description
i_prt	I	PCHAR / PWCHAR	Target printer
Return value	INT		
·Error (negative value), Normal end (0), Warning (positive value)			
Processing Description			
·Cancels document			
Error description			
-1 : Data expansion error			
-6 : Invalid argument error			
-31: Resource shortage			
1 : Document not started			
2 : Printer is not opened			

Win32 API Reference

Function name	NiiGetInformation / NiiGetInformationW		
Argument name	IN/OUT	Type	Description
i_prt	I	PCHAR / PWCHAR	Target printer name
i_id	I	BYTE	Type ID
o_dat	O	PVOID	Extended Information storage area
o_time	O	PDWORD	Update flag (elapsed time since system boots up) (NULL can be specified)
Return value	INT		
·Error (negative value), Normal end (0)			
Processing Description			
·Obtain information reserved in target type ID of Extended Information * Host application should send request for information to printer previously. (Not all require the information as extended status, transfer complete, print complete, etc.) * See command 《ESC v》 in target printer's specification sheet for return values.			
Error description			
-3 : Printer open error			
-6 : Invalid argument error			
-9 : Printer information acquisition failure			
-11 : Extended information acquisition failure			
-12 : Extended information open error			
-31 : Resource shortage			

Extended Information

Type1 : 4 bytes (fixed) : update flag (4bytes) <Extended status> 1 byte: 7~0, 2 bytes: 15~8,
3 bytes: 23~16, 4 bytes: 31~24

Type 2 :32 bytes (delimiter) : update flag (4bytes) <Model name>

Type 3 : 8 bytes (fixed) : update flag (4 bytes) <F/W version>

Type 4 : 8 bytes (fixed) : update flag (4 bytes) <Boot version>

Type 5 : 4 bytes (fixed) : update flag (4 bytes) <Reserved>

Type 6 : 4 bytes (fixed) : update flag (4 bytes) <Number of head current dot line>

Type 7 : 4 bytes (fixed) : update flag (4 bytes) <Number of drive dot line >

Type 8 : 4 bytes (fixed) : update flag (4 bytes) <Number of cut>

Type 9 :16 bytes (fixed) : update flag (4 bytes) <User maintenance counter: >

Number of head current dot line,

Number of drive dot line,

Number of cut,

Reserved>

Type10 :16 bytes (fixed) : update flag (4 bytes) <Reserved>

Type11 :64 bytes (delimiter) : update flag (4 bytes)

Type12 :32 bytes (delimiter) : update flag (4 bytes)

Type13 :32 bytes (fixed) : update flag (4 bytes) <NV registration status>

Type14 :32 bytes (fixed) : update flag (4 bytes) <Reserved>

Type15 :16 bytes (fixed) : update flag (4 bytes)

Type16 :16 bytes (fixed) : update flag (4 bytes)

Type17 :16 bytes (fixed) : update flag (4 bytes)

Type18 :16 bytes (fixed) : update flag (4 bytes)

Type19 : 8 bytes (fixed) : update flag (4 bytes) <End of print notice: arbitrary ID and end status will be described
at proceeding end command by assigning print start/end command.

Type20 : 8 bytes (fixed) : update flag (4 bytes) <Reserved>

Type21 : 8 bytes (fixed) : update flag (4 bytes)

Type22 : 8 bytes (fixed) : update flag (4 bytes)

Type23 : 8 bytes (fixed) : update flag (4 bytes)

Type24 : 4 bytes (fixed) : update flag (4 bytes) <Reserved>

Type25 : 4 bytes (fixed) : update flag (4 bytes) <Notice of transfer completion: transferred job ID will be described>

Type26 : 4 bytes (fixed) : update flag (4 bytes) <Reserved>

Type27 : 4 bytes (fixed) : update flag (4 bytes) <Reserved>

Type28 : 2 bytes (fixed) : update flag (4 bytes) <F/W check sum>

Type29 : 2 bytes (fixed) : update flag (4 bytes)

Type30 : 2 bytes (fixed) : update flag (4 bytes)

Type31 : 2 bytes (fixed) : update flag (4 bytes) <communication status information: USB: 0x0000 fixed

COM: 1st byte=CTS 2nd byte=DSR

* final signal status acquisition time stamp is set to
update flag>

* There is no validity against acquired content with respect to information that is not functionally installed in
printer except for Type25 and Type31.

* Not all descriptions can be used with a printer.

Win32 API Reference

Function name		NiImagePrintEx / NiImagePrintExW		
Argument name		IN/OUT	Type	Description
i_prt	I	PCHAR / PWCHAR	Target printer name	
i_bmp	I	HDC	Device context handle	
i_x	I	int	Width	
i_y	I	int	Height	
i_file	I	BYTE	Sending type 0x00: by line 0x01: by block 0x11: Gray scale description by block	
o_jobid	O	PDWORD	Print job ID (NULL can be specified)	
Return value		INT		
·Error (negative value), Normal end (0)				
Processing Description		·Sends specified device context as a raster image to printer.		
Error description				
-1 : Invalid device context handle				
-2 : Printer open error				
-3 : Document starting error				
-4 : Page starting error				
-5 : File acquisition error				
-6 : Invalid argument error				
-13 : Printer output error (spooler)				
-30 : Invalid image size				
-31 : Resource shortage				

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Processing Description

Caution

·Sequential print and Batch print

The data is sent to printer sequentially when NiiPrint or NiilImagePrint is executed.

NiiStartDoc and NiiEndDoc enable batch data sending to printer.

Please use sequential print and batch print depending on the purpose.

Win32 API Reference

Function name	NiiBarcode / NiiBarcodeW		
Argument name	IN/OUT		
i_prt	I	PCHAR /	Target printer name
i_fname	I	PWCHAR	Font name
i_bmp	IO	PCHAR /	Device context handle
i_x	I	PWCHAR	Left
i_y	I	HDC	Top
i_width	I	DWORD	Width
i_height	I	DWORD	Height
i_dat	I	DWORD	Barcode data
i_size	I	DWORD	Data size
		PBYTE	
		DWORD	
Return value	INT		
·Error (negative value), Normal end (0)			
Processing Description			
·Draw the barcode/2D barcode specified at the barcode font/2D barcode font setting of printer on the device context.			
Error description			
-6 : Invalid argument error			
-31 : Resource shortage			

Function name	NiiResetPrinter / NiiResetPrinterW		
Argument name	IN/OUT	Type	Description
i_prt	I	PCHAR / PWCHAR	Target printer name
Return value	INT		
·Error (negative value), Normal end (0)			
Processing Description			
<p>·Reset printer. Print job during printing is cancelled.</p> <p>·Confirm that the return value of this API and printer is reset and online in order to confirm that the API is executed normally. (Confirm by NiiGetStatus)</p> <p>·Do not receive any print job during 10 seconds after execution of this API. In case of requesting print during that time, a print job is spooled in a spooler and start printing process after being in a receivable status.</p> <p>Error description</p> <ul style="list-style-type: none">-2: Printer open error-6: Invalid argument error-13: Printer output error (spooler)-31: Resource shortage-32: Access denied			

Win32 API Reference

Function name	NiiOpenAPI		
Argument name	IN/OUT	Type	Description
i_prt	I	PCHAR	Target printer name
Return value	INT		
·Error (negative value), Normal end (0)			
Processing Description			
·Stores target printer name			
Error description			
1: Open ready error			
<div>Reference</div>			
This function is provided for compatibility with NIIW2K_XPStatus.dll. Do not use with for new application.			

Function name	NiiGetPrinterStatus		
Argument name	IN/OUT	Type	Description
o_status	I	LPDWORD	Status storage area
Return value	INT		
·Error (negative value), Normal end (0)			
Processing Description			
·Returns status obtained by the printer name reserved set by NiiOpenAPI function. * See 《ESC v》command in target printer's specification sheet for returned value.			
Error description			
5 : Status acquisition failure			
10 : Invalid status storage area error			
<div>Reference</div>			
This function is provided for compatibility with NIIW2K_XPStatus.dll. Do not use with for new application.			

Function name	NiiCloseAPI		
Argument name	IN/OUT	Type	Description
Return value	INT		
·Normal end (0)			
Processing Description	<div>Reference</div> <p>This function is provided for compatibility with NIIW2K_XPStatus.dll. Do not use with for new application.</p>		

Win32 API Reference

Function name		NiImagePrintF / NiImagePrintFW	
Argument name	IN/OUT	Type	Description
i_prt	I	PCHAR / PWCHAR	Target printer name
i_bmp	I	PCHAR	BMP file name
i_file	I	BYTE	Output type
o_jobid	O	PDWORD	Print job ID (NULL can be specified)
Return value	INT		
·Error (negative value), Normal end (0)			
Processing Description			
·Sends specified BMP file as a raster image to printer.			

Please refer to NiImagePrintEx in “Win32 API reference” for more detail

Function name		NiiBitImagePrintF / NiiBitImagePrintFW	
Argument name	IN/OUT	Type	Description
i_prt	I	PCHAR / PWCHAR	Target printer name
i_bmp	I	PCHAR	BMP file name
o_jobid	O	PDWORD	Print job ID (NULL can be specified)
Return value	INT		
·Error (negative value), Normal end (0)			
Processing Description			
·Sends specified BMP file as a raster image to printer.			

Please refer to NiiBitImagePrint in “Win32 API reference” for more detail

Win32 API Reference

Function name		NiiFWDL / NiiFWDLW	
Argument name	IN/OUT	Type	Description
i_prt	I	PCHAR / PWCHAR	Target printer name
i_file	I	PCHAR / PWCHAR	FWF file name
o_flg	O	PBYTE	Monitor flag valid/invalid 0x00: invalid 0x01: valid
o_chksum	O	PWORD	Check sum
o_jobid	O	PDWORD	Print job ID (NULL can be specified)
Return value	INT		
·Error (negative value), Normal end (0)			
Processing Description			
· Sends specified FWF file to printer			
Error description			
-2 : Printer open error -3 : Document starting error			
-4 : Page starting error -5 : File acquisition failure			
-6 : Invalid argument error -13: Printer output error (spooler)			
-31: Resource shortage -33 : Output error(OFFINE)			

Function name		NiiFWCHK / NiiFWCHKW	
Argument name	IN/OUT	Type	Description
i_prt	I	PCHAR / PWCHAR	Target printer name
i_chksum	I	WORD	check sum
Return value	INT		
·Error (Negative value), Mismatch (1), Match (0)			
Processing Description			
·Get the check sum from printer and compare it with the specified check sum.			
Error description			
-2/-3 : Printer open error / Document starting error			
-4 : Page starting error			

Class description

Name space: NiiPrinterCLib

Class name: NiiClassLib

Type	Name	Remarks
Property	PrinterName	Printer name for share
Type	Name	Remarks
Method	NiiClassLib	Win32 API wrapper
Method	NiiPrint	Win32 API wrapper
Method	NiiDPrint	Win32 API wrapper
Method	NiiImagePrint	Win32 API wrapper
Method	NiiBitmapImagePrint	Win32 API wrapper
Method	NiiGetStatus	Win32 API wrapper
Method	NiiStartDoc	Win32 API wrapper
Method	NiiEndDoc	Win32 API wrapper
Method	NiiCancelDoc	Win32 API wrapper
Method	NiiGetInformation	Win32 API wrapper
Method	GetJobEndInf	Obtaining end of print notice
Method	NiiImagePrintEx	Win32 API wrapper
Method	NiiBarcode	Win32 API wrapper
Method	NiiResetPrinter	Win32 API wrapper
Method	NiiImagePrintF	Win32 API wrapper
Method	NiiBitmapImagePrintF	Win32 API wrapper
Method	NiiFWDL	Win32 API wrapper
Method	NiiFWCHK	Win32 API wrapper

Property

Property Name	PrinterName		
Type	string		
Processing Description	Get		
		·Set printer name	
	Set		
		·Get printer name	
Remark			
·The default value is blank("").			

Method

Function name	NIIClassLib		
Argument name	IN/OUT	Type	Description
Return value	void		
Processing Description			
▪ constructor			
Remark			

Function name	NiiPrint		
Argument name	IN/OUT	Type	Description
i_prt	I	[MarshalAs(UnmanagedType.LPStr)] string	Target printer name
i_dat	I	[MarshalAs(UnmanagedType.LPStr)] string	Transmit data (hexadecimal)
i_size	I	uint	Number of output bytes
o_jobid	O	out uint	Print job ID
Return value	int		
Processing Description			
Remark			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiPrint		
Argument name	IN/OUT	Type	Description
i_dat	I	[MarshalAs(UnmanagedType.LPStr)] string	Transmit data (hexadecimal)
i_size	I	uint	Number of output bytes
o_jobid	O	out uint	Print job ID
Return value	int		
Processing Description			
Remark			
·Use after setting PrinterName property.			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiDPrint		
Argument name	IN/OUT	Type	Description
i_prt	I	[MarshalAs(UnmanagedType.LPStr)] string byte[] uint out uint	Target printer name
i_dat	I		Transmit data(Binary)
i_size	I		Number of output bytes
o_jobid	O		Print job ID
Return value	int		
Processing Description			
Remark			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiDPrint		
Argument name	IN/OUT	Type	Description
i_dat	I	byte[]	Transmit data(Binary)
i_size	I	uint	Number of output bytes
o_jobid	O	out uint	Print job ID
Return value	int		
Processing Description			
Remark			
·Use after setting PrinterName property.			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiilImagePrint		
Argument name	IN/OUT	Type	Description
i_prt	I	[MarshalAs(UnmanagedType.LPStr)] string IntPtr int int bool	Target printer name
i_bmp	I		Device context handle
i_x	I		Width
i_y	I		Height
i_file	I		Sending type TRUE: by file FALSE: by line
o_jobid	O	out uint	Print job ID
Return value	int		
Processing Description			
Remark			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiilImagePrint		
Argument name	IN/OUT	Type	Description
i_bmp	I	IntPtr	Device context handle
i_x	I	int	Width
i_y	I	int	Height
i_file	I	bool	Sending type TRUE: by file FALSE: by line
o_jobid	O	out uint	Print job ID
Return value	int		
Processing Description			
Remark			
·Use after setting PrinterName property.			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiBitImagePrint		
Argument name	IN/OUT	Type	Description
i_prt	I	[MarshalAs(UnmanagedType.LPStr)	Target printer name
i_bmp	I] string	Device context handle
i_x	I	IntPtr	Width
i_y	I	int	Height
o_jobid	O	int out uint	Print job ID
戻り値	int		
Processing Description			
Remark			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiBitImagePrint		
Argument name	IN/OUT	Type	Description
i_bmp	I	IntPtr	Device context handle
i_x	I	int	Width
i_y	I	int	Height
o_jobid	O	out uint	Print job ID
Return value	int		
Processing Description			
Remark			
·Use after setting PrinterName property.			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiGetStatus		
Argument name	IN/OUT	Type	Description
i_prt i_file	I O	[MarshalAs(UnmanagedType.LPStr)] string out uint	Target printer name Status
Return value	int		
Processing Description			
Remark			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiGetStatus		
Argument name	IN/OUT	Type	Description
i_file	O	out uint	Status
Return value	int		
Processing Description			
Remark			
·Use after setting PrinterName property.			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiStartDoc		
Argument name	IN/OUT	Type	Description
i_prt o_jobid	I O	[MarshalAs(UnmanagedType.LPStr)] string out uint	Target printer name Print job ID
Return value	int		
Processing Description			
Remark			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiStartDoc		
Argument name	IN/OUT	Type	Description
o_jobid	O	out uint	Print job ID
Return value	int		
Processing Description			
Remark			
·Use after setting PrinterName property.			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiEndDoc		
Argument name	IN/OUT	Type	Description
i_prt	I	[MarshalAs(UnmanagedType.LPStr)] string	Target printer name
Return value	int		
Processing Description			
Remark			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiEndDoc		
Argument name	IN/OUT	Type	Description
Return value	int		
Processing Description			
Remark			
·Use after setting PrinterName property.			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiCancelDoc		
Argument name	IN/OUT	Type	Description
i_prt	I	[MarshalAs(UnmanagedType.LPStr)] string	Target printer name
Return value	int		
Processing Description			
Remark			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiCancelDoc		
Argument name	IN/OUT	Type	Description
Return value	int		
Processing Description			
Remark			
·Use after setting PrinterName property.			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiGetInformation		
Argument name	IN/OUT	Type	Description
i_prt	I	[MarshalAs(UnmanagedType.LPString)] string byte byte[] out uint	Target printer name
i_id	I		Type ID
o_dat	O		Extended Information storage area
o_time	O		Update flag (elapsed time since system boots up)
Return value	int		
Processing Description			
Remark			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiGetInformation		
Argument name	IN/OUT	Type	Description
i_id	I	byte	Type ID
o_dat	O	byte[]	Extended Information storage area
o_time	O	out uint	Update flag (elapsed time since system boots up)
Return value	int		
Processing Description			
Remark			
·Use after setting PrinterName property.			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiGetJobEndInf		
Argument name	IN/OUT	Type	Description
Return value	int		
·Normal end (JOB ID), Error (0)			
Processing Description			
·Get job ID of extended information Type19.			
Remark			
·Use after setting PrinterName property.			

Function name	NiiGetJobEndInf		
Argument name	IN/OUT	Type	Description
o_st	O	out uint	Get the latest status
Return value	int		
·Normal end (JOB ID), Error (0)			
Processing Description			
·Get job ID of extended information Type19.			
Remark			
·Use after setting PrinterName property.			

Function name	NiiGetJobEndInf		
Argument name	IN/OUT	Type	Description
o_st	O	out uint	Get the latest status
o_time	O	out uint	Update flag (elapsed time since system boots up)
Return value	int		
·Normal end (JOB ID), Error (0)			
Processing Description			
·Get job ID of Extended InformationTypeID19			
Remark			
·Use after setting PrinterName property.			

Function name	NiImagePrintEx		
Argument name	IN/OUT	Type	Description
i_prt	I	[MarshalAs(UnmanagedType.LPStr)] string IntPtr int int byte	Target printer name
i_bmp	I		Device context handle
i_x	I		Width
i_y	I		Height
i_file	I		Sending type
			0x00: by line
			0x01: by block
			0x11: Gray scale description by block
o_jobid	O	out uint	Print job ID (NULL can be specified)
Return value	int		
Processing Description			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiImagePrintEx		
Argument name	IN/OUT	Type	Description
i_bmp	I	IntPtr	Device context handle
i_x	I	int	Width
i_y	I	int	Height
i_file	I	byte	Sending type
			0x00: by line
			0x01: by block
			0x11: Gray scale description by block
o_jobid	O	out uint	Print job ID (NULL can be specified)
Return value	int		
Processing Description			
·Use after setting PrinterName property.			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiBarcode		
Argument name	IN/OUT	Type	Description
i_prt	I	[MarshalAs(UnmanagedType.LPStr)] string	Target printer name
i_fname	I	[MarshalAs(UnmanagedType.LPStr)] string	Font name
i_bmp	IO	IntPtr	Device context handle
i_x	I	uint	Left
i_y	I	uint	Top
i_width	I	uint	Width
i_height	I	uint	Height
i_dat	I	byte[]	Barcode data
i_size	I	uint	Data size
Return value	int		
·Error (negative value), Normal end (0)			
Processing Description			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiBarcode		
Argument name	IN/OUT	Type	Description
i_fname	I	MarshalAs(UnmanagedType.LPStr) string	Font name
i_bmp	IO	IntPtr	Device context handle
i_x	I	uint	Left
i_y	I	uint	Top
i_width	I	uint	Width
i_height	I	uint	Height
i_dat	I	byte[]	Barcode data
i_size	I	uint	Data size
Return value	int		
·Error (negative value), Normal end (0)			
Processing Description			
·Use after setting PrinterName property.			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiResetPrinter		
Argument name	IN/OUT	Type	Description
i_prt	I	[MarshalAs(UnmanagedType.LPStr)] string	Target printer name
Return value	int		
Processing Description			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiiResetPrinter		
Argument name	IN/OUT	Type	Description
Return value	int		
Processing Description			
·Use after setting PrinterName property.			

Please refer to “Win32 API reference” for Return value, Processing Description

Function name	NiilImagePrintF		
Argument name	IN/OUT	Type	Description
i_prt	I	[MarshalAs(UnmanagedType.LPStr)] string	Target printer name
i_bmp	I	[MarshalAs(UnmanagedType.LPStr)] string	BMP file name
i_file	I	byte	Output type
o_jobid	O	out long	Print job ID (NULL can be specified)
Return value	INT		
·Error (negative value), Normal end (0)			
Processing Description			

Please refer to “Win32 API reference” for more detail

Function name	NiilImagePrintF		
Argument name	IN/OUT	Type	Description
i_bmp	I	MarshalAs(UnmanagedType.LPStr) string byte out long	BMP file name
i_filg	I		Output type
o_jobid	O		Print job ID (NULL can be specified)
Return value	INT		
·Error (negative value), Normal end (0)			
Processing Description			

Please refer to “Win32 API reference” for more detail

Function name	NiiBitImagePrintF		
Argument name	IN/OUT	Type	Description
i_prt	I	[MarshalAs(UnmanagedType.LPStr)] string	Target printer name
i_file	I	[MarshalAs(UnmanagedType.LPStr)] string	BMP file name
o_jobid	O	out long	Print job ID (NULL can be specified)
Return value	INT		
·Error (negative value), Normal end (0)			
Processing Description			

Please refer to “Win32 API reference” for more detail

Function name	NiiBitImagePrintF		
Argument name	IN/OUT	Type	Description
i_file o_jobid	I O	[MarshalAs(UnmanagedType.LPStr)] string out long	BMP file name Print job ID (NULL can be specified)
Return value	INT		
·Error (negative value), Normal end (0)			
Processing Description			

Please refer to “Win32 API reference” for more detail

Function name	NiiFWDL		
Argument name	IN/OUT	Type	Description
i_prt	I	[MarshalAs(UnmanagedType.LPStr)] string	Target printer name
i_file	I	[MarshalAs(UnmanagedType.LPStr)] string	FWF file name
o_flg	O	out byte	Monitor flag valid/invalid 0x00: invalid 0x01: valid
o_chksum	O	out short	check sum
o_jobid	O	out long	Print job ID (NULL can be specified)
Return value	INT		
·Error (negative value), Normal end (0)			
Processing Description			

Please refer to “Win32 API reference” for more detail

Function name	NiiFWDL		
Argument name	IN/OUT	Type	Description
i_file	I	[MarshalAs(UnmanagedType.LPStr)] string	FWF file name
o_flg	O	out byte	Monitor flag valid/invalid 0x00: invalid 0x01: valid
o_chksum	O	out short	check sum
o_jobid	O	out long	Print job ID (NULL can be specified)
Return value	INT		
·Error (negative value), Normal end (0)			
Processing Description			

Please refer to “Win32 API reference” for more detail

Function name	NiiFWCHK		
Argument name	IN/OUT	Type	Description
i_prt	I	[MarshalAs(UnmanagedType.LPStr)] string	Target printer name
i_chksum	I	short	check sum
Return value	INT		
·Mismatch (Other than 0), Match (0)			
Processing Description			

Please refer to “Win32 API reference” for more detail

Function name	NiiFWCHK		
Argument name	IN/OUT	Type	Description
i_chksum	I	short	check sum
Return value	INT		
·Mismatch (Other than 0), Match (0)			
Processing Description			

Please refer to “Win32 API reference” for more detail