

Advanced Printer Driver Ver.4

Devmode API / PRINTERINFO Manual

Overview

Outline of Devmode API and PRINTERINFO.

How to Use Devmode API

How to use the Devmode API.

Reference for Win32

About Devmode API in Win32 environment and the functions of each printer.

Reference for .NET

About Devmode API used under .NET environment.

PRINTERINFO

About PRINTERINFO.



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ESC/POS® Command System

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For Safety

Key to Symbols

The symbols in this manual are identified by their level of importance, as defined below. Read the following carefully before handling the product.

CAUTION

Provides information that must be observed to avoid damage to your equipment or a malfunction.

NOTE

Provides important information and useful tips.

Restriction of Use

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About this Manual

Aim of the Manual

This manual is aimed to provide all the necessary information for development engineers to develop, design, and install POS system, or to develop and design printer applications.

Manual Content

The manual is made up of the following sections:

- Chapter 1 [Overview](#)
- Chapter 2 [How to Use Devmode API](#)
- Chapter 3 [Reference for Win32](#)
- Chapter 4 [Reference for .NET](#)
- Chapter 5 [PRINTERINFO](#)



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Overview

This manual describes Devmode API and PrinterInfo.

Devmode API for APD provides a function to acquire/set up device-unique Devmode from user's application. Parameters and setting range of command IDs (functions of Devmode API) are acquired from the device, and the parameter is set to the device by the application.

PRINTERINFO is one of Windows structures. In addition to Status API provided by EPSON to acquire TM printer status by the user application, Windows functions can be used for that purpose. For PRINTERINFO information, refer to [“Acquiring TM Printer Status Using PRINTERINFO_2” on page 29](#). For details, refer to the Microsoft website.

Contents of This Manual

Install manual

Descriptions of the procedures from installing the APD to performing test print, adding printer drivers, changing port, and the silent installation that is an automated APD installation.

TM Printer Manual

Descriptions of how to use the APD and its functions.

Printer Specification

Descriptions of the specifications of each printer driver.

TM-C100 Manual

Descriptions of how to use the printer driver for TM-C100 and its functions.

Customer Display Manual

Descriptions of how to use the printer driver for customer display and its functions.

Status API Manual

Descriptions of how to acquire the status of the TM printer from the user application by using the Status API.

Devmode API / PRINTERINFO Manual

This manual. Descriptions of how to set some functions of printer from the user application by using Devmode API. Descriptions of the PRINTERINFO Function of Windows.

Devmode API Overview

This section explains the functions of Devmode API and applicable devices.

Devmode API Functions

Devmode API provides the following functions (command IDs). (Available functions differ depending on the printer driver. See ["Functions for Each Model" on page 17.](#))

- Changing paper size
- Changing print direction
- Changing margin setting
- Changing input unit
- Changing paper feeding mode
- Changing print speed
- Setting back-feed after cutting
- TrueType font substitution

Applicable Device

Customer display and TM-C100 are not supported.

For functions of each TM printer driver, refer to ["Functions for Each Model" on page 17.](#)

Provided File

EPSON provides the following files:

Type	File Name	Description
Header File for API Win32	APDDM_API.H	In this file, API is defined during creation of Win32 32-bit application. <destination of the header file> C:\Program Files\EPSON \EPSON Advanced Printer Driver 4\Sample\US \Src\C++\SingleFunction\Program13\Program13
Devmode API module	EAPDM32.DLL	This executable file is called by the Win32 32-bit application in Windows\System32.
.NET Wrapper module	EAPDM32W.DLL	This executable file is called by the application in Windows\assembly.

Sample Program

Devmode API is used for "Changing paper feeding mode" in the sample program.

Operational Environment

OS

Conforming to the APD environment. Refer to "Install Manual".

On Windows XP, no .NET modules are installed without .NET Framework 2.0 during APD installation. If .NET Framework 2.0 was installed later, install Devmode API .NET using custom installation of APD.

CAUTION

In Terminal Service / Citrix XenApp environment, the status of TM printers cannot be acquired using PRINTER_INFO_2.

.NET Framework Version

Conforming to the APD environment. Refer to "Install Manual".

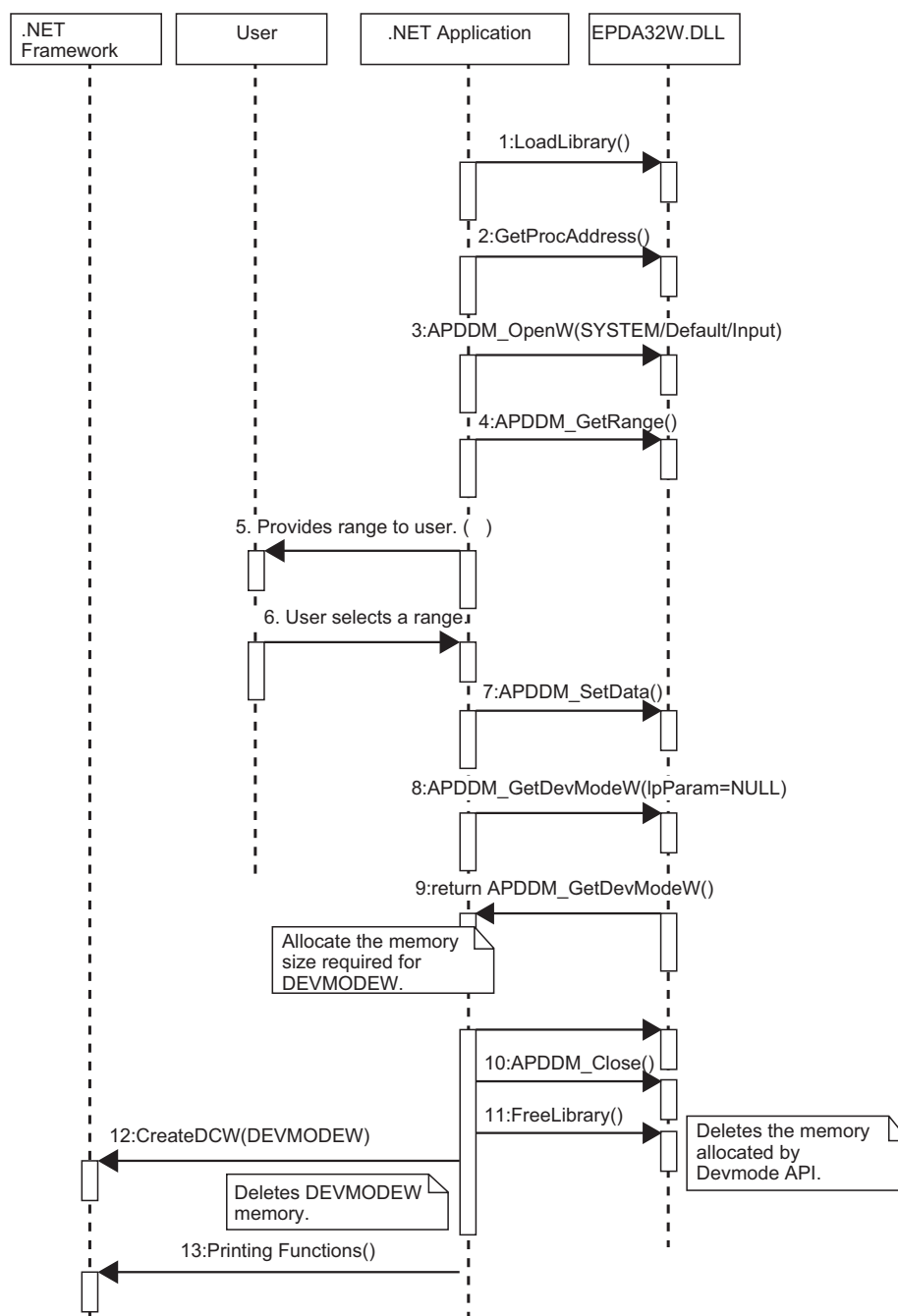
If you use Devmode API .NET Wrapper in Windows XP, install .NET Framework 2.0 or later before installing APD.

How to Use Devmode API

This chapter describes how to use Devmode API.

Sequence

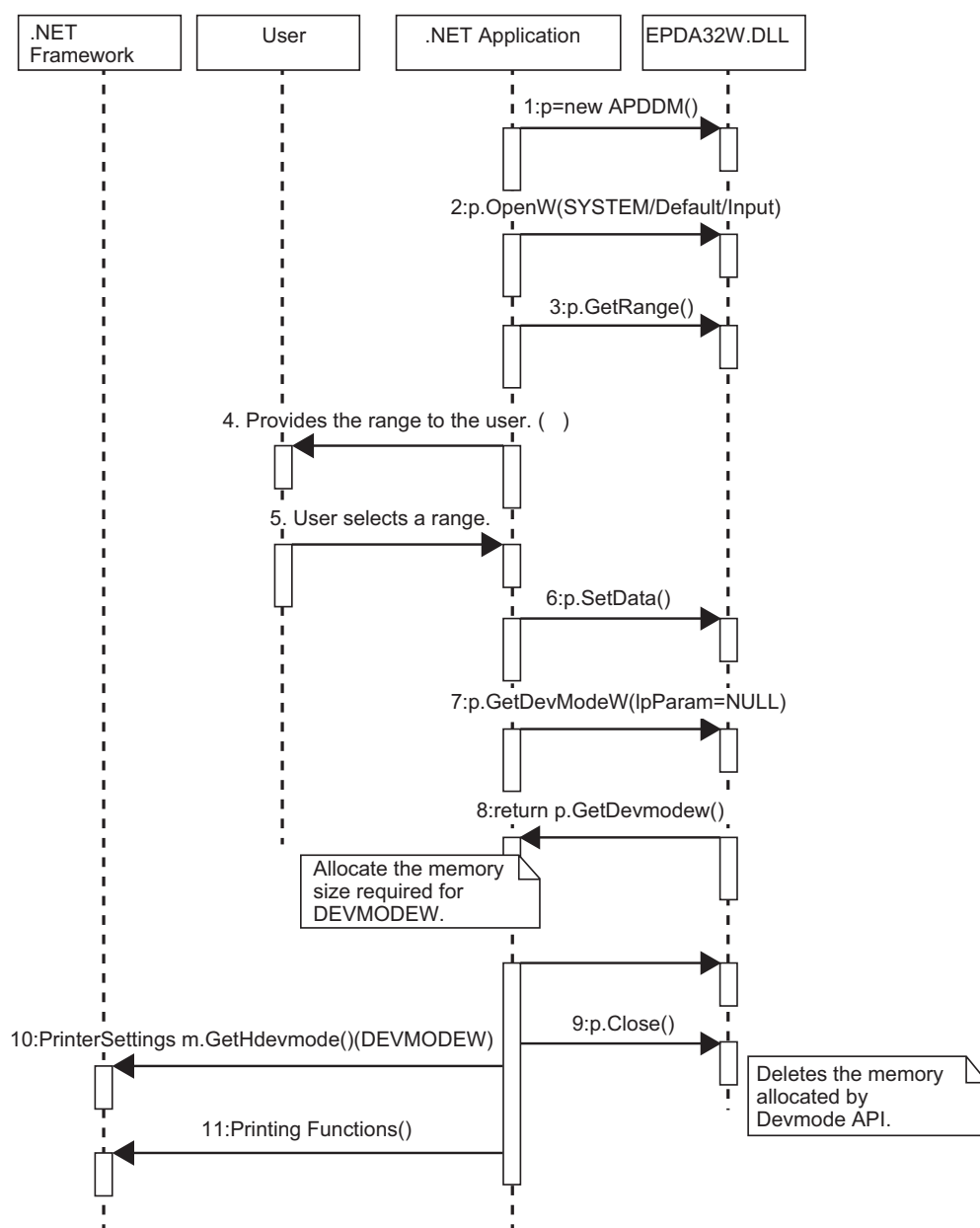
Recommended sequence for Win32 is as shown below.



Explanation

- 1** LoadLibrary()
- 2** GetProcAddress()
- 3** APDDM_OpenW(SYSTEM/Default/Input)
Opens Devmode API. When using Devmode API of the device, use "System Devmode" to open.
- 4** APDDM_GetRange()
Specifies a command ID and acquires the setting range that can be set for the ID from the device.
- 5** Provides the acquired command ID range to the user.
- 6** The user makes selection from the range.
- 7** APDDM_SetData()
Sets a value to the device.
- 8** APDDM_GetDevModeW()
Acquires the set value of the device. It is recommended that the application acquire/store this value.
- 9** return APDDM_GetDevModeW()
Acquires the memory size required for DEVMODEW. The application allocates memory.
- 10** APDDM_Close()
Closes Devmode API.
- 11** FreeLibrary()
Deletes the memory allocated by Devmode API.
- 12** CreateDCW(DEVMODEW)
Deletes DEVMODEW memory.
- 13** Printing Functions()
Printing with the set contents is available.

Recommended sequence for .NET is as shown below.



Devmode API Development Information

This section describes the information required for application development.

Character Code

Unicode is used for all strings.

Unicode is used for all strings. It is required to set `UNI_CODE` and `_UNICODE` in the compiler macro definition. Use Wide-character for all Windows APIs.

Devmode Type

The following three Devmode types are available when opened:

- **System DEVMODE**
DEVMODE set in the printer driver is used as the input parameter. In this case, set `NULL` because `DEVMODEW` address is not used for input.
- **Default DEVMODE**
The default DEVMODE for the printer driver is used as the input parameter. In this case, set `NULL` because `DEVMODEW` address is not used for input.
- **Specified DEVMODE**
DEVMODE acquired independently by the application is used as the input parameter.
Can be acquired from `DocumentPropertySheet` and Windows API.
The `DEVMODEW` area that is allocated by the application needs to be released by the application.

Memory Allocation

The Devmode API module does not need to release the memory area that returns as a parameter. `FreeLibrary ()` of the Devmode API module releases the memory area. That is why you should copy the memory area in advance when the data needs to be stored.

`DEVMODEW` acquired by `GetDevmodeW(.NET)` or `APDDM_GetDevModeW(Win32)` is used in a later printing process and is not released by the Devmode API module. So, release it by the application.

Multi-process/Multi-thread/Multi-user

Because the Devmode API can handle the instances of DEVMODEW at the same time, it supports multi-process/multi-thread/multi-user.

For applications, .NET version can distinguish the instances with the object, and Win32 version can distinguish the instances with the printer device information handle. The Devmode API module does not need to release the memory area that returns as a parameter.

Error Code

The error codes returned by each API are identical to the Windows error codes (defined in WinError.h).



Reference for Win32

This chapter describes the functions of each printer, API reference and command ID.

Functions for Each Model

Functions supported by each model are as follows:

Command	Paper Size	Rotate	Paper Conservation	Size Unit	PaperSource	Printing Speed	The cutsheet reverse eject	True Type Font Substitution
Printer Driver								
EPSON BA-T500 ReceiptE4	✓	✓	✓	✓	✓	✓	-	✓
EPSON DM-D110/120/210E4	✓	✓	-	-	-	-	-	✓
EPSON DM-D50X 20x2E4	✓	✓	-	-	-	-	-	✓
EPSON DM-D50X 32x2E4	✓	✓	-	-	-	-	-	✓
EPSON DM-D50X 32x3E4	✓	✓	-	-	-	-	-	✓
EPSON DM-D50X 32x4E4	✓	✓	-	-	-	-	-	✓
EPSON DM-D50X 48x8E4	✓	✓	-	-	-	-	-	✓
EPSON DM-D50X GraphicsE4	✓	✓	-	-	-	-	-	✓
EPSON EU-T300 ReceiptE4	✓	✓	✓	✓	✓	✓	-	✓
EPSON EU-T400 ReceiptE4	✓	✓	✓	✓	✓	✓	-	✓
EPSON EU-T500 ReceiptE4	✓	✓	✓	✓	✓	✓	-	✓
EPSON TM-H5000II ReceiptE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-H5000II SlipE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-H5200 ReceiptE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-H5200 SlipE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-H6000II ReceiptE4	✓	✓	✓	✓	✓	✓	-	✓
EPSON TM-H6000II SlipE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-H6000II EndorseE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-H6000II ValidationE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-H6000III ReceiptE4	✓	✓	✓	✓	✓	✓	-	✓
EPSON TM-H6000III SlipE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-H6000III EndorseE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-H6000III ValidationE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-J7000/7100 ReceiptE4	✓	✓	✓	✓	✓	✓	-	✓

Command	Paper Size	Rotate	Paper Conservation	Size Unit	PaperSource	Printing Speed	The cutsheet reverse eject	True Type Font Substitution
Printer Driver								
EPSON TM-J7000/7100 SlipE4	✓	✓	✓	✓	✓	✓	-	✓
EPSON TM-J7000/7100 EndorseE4	✓	✓	✓	✓	✓	✓	-	✓
EPSON TM-J7500/7600 ReceiptE4	✓	✓	✓	✓	✓	✓	-	✓
EPSON TM-J7500/7600 SlipE4	✓	✓	✓	✓	✓	✓	-	✓
EPSON TM-L60II ReceiptE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-L60II LabelE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-L90 ReceiptE4	✓	✓	✓	✓	✓	✓	✓	✓
EPSON TM-L90 LabelE4	✓	✓	✓	✓	✓	✓	-	✓
EPSON TM-L90Peeler ReceiptE4	✓	✓	✓	✓	✓	✓	-	✓
EPSON TM-L90Peeler LabelE4	✓	✓	✓	✓	✓	✓	-	✓
EPSON TM-P60 ReceiptE4	✓	✓	✓	✓	✓	✓	-	✓
EPSON TM-P60 Peeler ReceiptE4	✓	✓	✓	✓	✓	✓	-	✓
EPSON TM-P60 Peeler LabelE4	✓	✓	✓	✓	✓	✓	-	✓
EPSON TM-T70 ReceiptE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-T88III ReceiptE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-T88IV ReceiptE4	✓	✓	✓	✓	✓	✓	-	✓
EPSON TM-T88IV ReStickE4	✓	✓	✓	✓	✓	✓	-	✓
EPSON TM-T90 ReceiptE4	✓	✓	✓	✓	✓	✓	-	✓
EPSON TM-U120 ReceiptE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-U120II ReceiptE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-U220 ReceiptE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-U230 ReceiptE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-U295 SlipE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-U375 ReceiptE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-U375 SlipE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-U375 ValidationE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-U590 SlipE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-U675 ReceiptE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-U675 SlipE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-U675 ValidationE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-U950 ReceiptE4	✓	✓	✓	✓	✓	-	-	✓
EPSON TM-U950 SlipE4	✓	✓	✓	✓	✓	-	-	✓

APDDM_OpenW

Opens the specified printer device and enables device information acquisition/setting.
lphAPDDM for the specified DEVMODE, it is required to allocate and delete memory by the application.

Syntax

```
DWORD APDDM_OpenW ( LPCWSTR lpwDevName,  
                     DWORD dwType, LPDEVMODEW lpDM,  
                     LPHANDLE lphAPDDM)
```

Argument

lpwDevName :	Printer device name address. This is LPCWSTR type.
dwType:	DEVMODE type when opened. Select among the following: System DEVMODE/Default DEVMODE/Specified DEVMODE. This is DWORD type.
lpDM :	DEVMODEW address. This is LPDEVMODEW type.
lphAPDDM :	Printer device information handle address. This is LPHANDLE type.

APDDM_GetRange

Acquires the setting range of the specified command ID from the device.

Syntax

```
DWORD APDDM_GetRange ( HANDLE hAPDDM,  
                       DWORD nCommad,  
                       LPVOID* lpParam,  
                       LPDWORD pdwCount,  
                       LPDWORD pdwSize)
```

Argument

hAPDDM :	Printer device information handle. This is Handle.
n Commad	Command ID (function) to acquire the execution level. This is DWORD type.
lpParam:	The setting range storage parameter. This is LPVOID* type.
pdwCount:	The number of elements. This is LPDWORD type.
pdwSize:	The parameter size. The number of parameters divided by the number of elements indicates the number of arrays of Param. This is LPDWORD type.

APDDM_GetData

Acquires the data of the specified command ID from the device.

Syntax

```
DWORD APDDM_GetData ( HANDLE hAPDDM,  
                      DWORD nCommad,  
                      LPVOID* lpParam, LPDWORD pdwSize)
```

Argument

hAPDDM :	Printer device information handle. This is Handle.
n Commad	Command ID (function) to acquire the execution level. This is DWORD type.
lpParam:	Obtained data storage parameter. This is LPVOID* type.
pdwSize:	Obtained data size. This is LPDWORD type.

APDDM_SetData

Configures the specified data to the device.

Syntax

```
DWORD APDDM_SetData ( HANDLE hAPDDM, DWORD nCommad,  
                      LPVOID lpParam, LPDWORD pdwSize)
```

Argument

hAPDDM :	Printer device information handle. This is Handle.
n Commad	Command ID (function) to configure the data. This is DWORD type.
lpParam:	Configured data storage parameter. This is LPVOID type.
pdwSize:	Configured data size. This is LPDWORD type.

APDDM_GetDevModeW

Acquires DEVMODE information, to which the printer device information is applied, to the specified area. For lpDM of the obtained DEVMODE, it is required to allocate and delete memory by the application.

Syntax

```
DWORD APDDM_GetDevModeW ( HANDLE hAPDDM,
                             LPDEVMODE lpDM,
                             LPDWORD pdwSize)
```

Argument

hAPDDM :	Printer device information handle. This is Handle.
lpDM	DEVMODE address. This is LPDEVMODE type.
pdwSize:	Obtained DEVMODEW size. This is LPDWORD type.

APDDM_Close

Closes the specified printer device.

Syntax

```
DWORD APDDM_Close ( HANDLE hAPDDM)
```

Argument

hAPDDM :	Printer device information handle. This is Handle.
----------	--

Command ID

APD_DM_PAPER_SIZE

Acquires or changes the paper size. User-defined papers are not supported.

For paper size name acquisition, the following two methods are available:

- Enumeration type:Enumerates the paper size names. The paper size names correspond to the array of paper sizes.

The command ID can be specified with the following macro:

GET_ENUM_STRING_COMMAND_ID(COMMAND)

- Single type:Acquires a paper name by specifying a single paper size.

The command ID can be specified with the following macro:

GET_STRING_COMMAND_ID(COMMAND, ID)

APD_DM_ORIENTATION

Acquires or changes the print direction. Select the print direction among the following: 0 degree, 90 degree, 180 degree, and 270 degree.

To change the direction to any option other than 0 degree, it is required to set "Yes" to "Print all documents as image" in formatting.

APD_DM_PAPERSAVE

Acquires or changes the margin reduction setting. Select the setting among the following: No margin reduction/Upper margin reduction/Bottom margin reduction/Upper and bottom margin reduction. Available options depend on the printer model.

APD_DM_INPUT_UNIT

Acquires or changes the driver input unit. Specify either mm or inch.

APD_DM_PAPER_BIN

Acquires or changes the paper feeder. Available options depend on the printer model. For acquisition of paper feeder name, enumeration-type and single-type macros are available as with changing paper size.

APD_DM_SPEED_DEVICE

Acquires or changes the print speed. Available options depend on the printer model.

APD_DM_FEED_AFTER_CUT

Specifies whether or not to enable back-feed after cutting.

APD_DM_REPLACEFONT

Specifies whether or not to substitute TrueType fonts to device fonts. It is required to assign TrueType fonts to device fonts manually in advance.



Reference for .NET

This chapter describes the API reference in .NET environment. For the functions of each printer and command ID, refer to [“Reference for Win32” on page 17](#).

OpenW

Calls APDDM_OpenW for Win32.

Opens the specified printer device and enables device information acquisition/setting.

The printer information handle retained by the wrapper.

To acquire the DEVMODE structure pointer, acquire the handle to the DEVMODE structure pointer from the application first and then acquire the pointer using GlobalLock which is an unmanaged method. After use, call GlobalUnlock, GlobalFree which are unmanaged methods, and release the pointer by the application.

Syntax

OpenW (String strDevName, UInt32 un32Type, IntPtr npDM)

Argument

strDevName :	Printer device name string. This is String type.
un32Type	DEVMODE type when opened. Select among the following: System DEVMODE/Default DEVMODE/Specified DEVMODE. This is UInt32 type.
npDM :	DEVMODE structure pointer. This is IntPtr type.

GetRange

Calls APDDM_GetRange for Win32.

Acquires the setting range of the specified command ID from the device.

Syntax

GetRange (UInt32 un32Commad, out IntPtr npParam,
out UInt32 un32Count, out UInt32 un32Size)

Argument

un32Commad	Command ID (function) to acquire the execution level. This is UInt32 type.
npParam:	The setting range storage parameter. Contents differ depending on the command ID. This is IntPtr type.
un32Count:	The number of elements. This is UInt32 type.
un32Size	The parameter size. The number of parameters divided by the number of elements indicates the number of arrays of Param. This is UInt32 type.

GetData

Calls APDDM_GetData for Win32.

Acquires the data of the specified command ID from the device.

Syntax

GetData (UInt32 un32Commad, out IntPtr npParam,
out UInt32 un32Size)

Argument

un32Commad	Command ID (function) to acquire the execution level. This is UInt32 type.
npParam:	Obtained data storage parameter. This is IntPtr type.
un32Size:	Data size of the obtained parameter. This is UInt32 type.

SetData

Calls APDDM_SetData for Win32.

Configures the specified data to the device.

Syntax

SetData (UInt32 un32Commad, IntPtr npParam, UInt32 un32Size)

Argument

un32Commad	Command ID (function) to acquire the execution level. This is UInt32 type.
npParam:	Configured data storage parameter. This is IntPtr type.
un32Size:	Specifies the parameter data size. This is UInt32 type.

GetDevModeW

Calls APDDM_GetDevModeW for Win32.

Acquires DEVMODE information, to which the printer device information is applied, to the specified area.

To acquire the DEVMODE structure pointer, acquire the handle to the DEVMODE structure pointer from the application first and then acquire the pointer using GlobalLock which is an unmanaged method. After use, call GlobalUnlock,GlobalFree which are unmanaged methods, and release the pointer by the application.

Syntax

GetDevModeW (IntPtr npDM, out UInt32 un32Size)

Argument

npDM	DEVMODEW structure pointer. This is IntPtr type.
un32Size	DEVMODEW structure size. This is UInt32 type.



Close

Calls APDDM_Close for Win32.

Closes the specified printer device.

Syntax

Close ()

PRINTERINFO

Acquiring TM Printer Status Using PRINTERINFO_2

Status API is provided for your applications to obtain the status of the TM printer. The status can be obtained also using Windows functions.

The status of PRINTER_INFO_2 structure can be obtained using GetPrinter function. For details, refer to Microsoft homepage.

CAUTION

In Terminal Service / Citrix XenApp environment, the status of TM printers cannot be acquired using PRINTER_INFO_2.

The statuses of PRINTER_INFO_2 structure and the TM printer are shown below.

PRINTERINFO_2 Status	TM Printer
PRINTER_STATUS_BUSY	Not supported.
PRINTER_STATUS_DOOR_OPEN	Printer cover is open.
PRINTER_STATUS_ERROR	Not supported.
PRINTER_STATUS_INITIALIZING	Initializing the TM printer.
PRINTER_STATUS_IO_ACTIVE	Not supported.
PRINTER_STATUS_MANUAL_FEED	Feeding paper with the Feed switch.
PRINTER_STATUS_NO_TONER	Ink cartridge is not installed/requires replacement.
PRINTER_STATUS_NOT_AVAILABLE	Unable to access the TM printer. (TM printer is not powered on/Cables are disconnected)
PRINTER_STATUS_OFFLINE	TM printer is off-line.
PRINTER_STATUS_OUT_OF_MEMORY	Not supported.
PRINTER_STATUS_OUTPUT_BIN_FULL	Not supported.
PRINTER_STATUS_PAGE_PUNT	Not supported.
PRINTER_STATUS_PAPER_JAM	Not supported.
PRINTER_STATUS_PAPER_OUT	No roll paper.
PRINTER_STATUS_PAPER_PROBLEM	Not supported.
PRINTER_STATUS_PAUSED	Not supported.
PRINTER_STATUS_PENDING_DELETION	Not supported.
PRINTER_STATUS_POWER_SAVE	Not supported.
PRINTER_STATUS_PRINTING	Printing.
PRINTER_STATUS_PROCESSING	Not supported.
PRINTER_STATUS_SERVER_UNKNOWN	Not supported.
PRINTER_STATUS_TONER_LOW	Low ink level.

