

EPSON OPOS ADK for .NET Manual

Application Development Guide

Electronic Journal

TM-H6000III
TM-H6000IV
TM-H6000V
TM-T88IV
TM-T88V
TM-T88VI
TM-T20
TM-T20-42C
TM-T20II
TM-T20II-42C

Version 1.14.6 Dec. 2017

Note

- (1) Reproduction of any part of this documentation by any means is prohibited.
- (2) The contents of this documentation are subject to change without notice.
- (3) Comments and notification of any mistakes in this documentation are gratefully accepted.
- (4) This software cannot be used with other equipment than the specified.
- (5) EPSON will not be responsible for any consequences resulting from the use of any information in this documentation.

Trademarks

Microsoft®, Windows®, Windows Server® and Windows Vista® are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries. IBM® and PC/AT® are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both. Epson® and ESC/POS® are registered trademarks of Seiko Epson Corporation. Other product and company names used herein are for identification purposes only and may be trademarks or registered trademarks of their respective companies. Epson disclaims any and all rights in those marks.

Copyright (c) 2007-2017 Seiko Epson Corporation

Contents

Chapter 1 Introduction	1
1.1 Terminology	1
Chapter 2 Before Using Electronic Journal.....	2
2.1 Device Setup	2
2.2 Precautions and Restrictions.....	2
Chapter 3 Properties, Methods, and Events.....	4
3.1 Properties	4
3.2 Methods	6
3.3 Events	16
Appendix–A Revision History.....	18
A.1 EPSON OPOS ADK for .NET 1.14.6	18
A.2 EPSON OPOS ADK for .NET 1.12.23	18
A.3 EPSON OPOS ADK for .NET 1.12.13	18
A.4 EPSON OPOS ADK for .NET 1.12	18
A.5 EPSON OPOS ADK for .NET 1.11.14	18
A.6 EPSON OPOS ADK for .NET 1.11.12	18
A.7 EPSON OPOS ADK for .NET 1.11.11	18
A.8 EPSON OPOS ADK for .NET 1.11	18
Appendix–B SetupPOS.....	19
B.1 Drop-Down Combo Box - List of Available Disk Drive	19
B.2 Text Box – Directory to Store Electronic Journal.....	20
B.3 Text Box - Free Disk Drive Space.....	20
B.4 Text Box – Disk Near-Full Notify Size	20
B.5 Text Box – Maximum File Size.....	20
Appendix–C Additional Information.....	21
C.1 Electronic Journal Initialization.....	21
Appendix–D Default Values of Properties	22
Appendix–E DeviceStatistics.....	24

Chapter 1 Introduction

This manual includes explanations on how to use the Electronic Journal with EPSON OPOS ADK for .NET, as well as related items and device-specific precautions.

For details on the POS for .NET API, refer to the "UnifiedPOS Retail Peripheral Architecture Version 1.14.1" specification and the MSDN "POS for .NET v1.14.1 SDK Documentation": Refer to the release notes for information on where to find the latest information.

1.1 Terminology

- "UnifiedPOS Retail Peripheral Architecture Version 1.14.1" may be abbreviated to "UPOS"
- "Microsoft POS for .NET" may be abbreviated to "POS.NET"
- "EPSON OPOS ADK for .NET 1.14.6" may be abbreviated to "OPOS.NET"
- "Electronic Journal" may be abbreviated to "Device"
- "ServiceObject of Electronic Journal provided by OPOS.NET may be abbreviated to "ServiceObject"
- "ErrorCode properties of PosControlException" may be abbreviated to "ErrorCode"
- "ErrorCodeExtended properties of PosControlException" may be abbreviated to "ErrorCodeExtended"
- "Exception" indicates "PosControlException"
- EPSON's original device constant values used with ServiceObject are defined in
 "jp.co.epson.uposcommon.EpsonUPOSConst" and
 "jp.co.epson.uposcommon.EpsonElectronicJournalConst"
- "Store Data File" indicates a file accumulates output data of POSPrinter
 "Transaction" indicates a unit for writing output data of POSPrinter to a store data file
- "Marker Maintain File" indicates a file writes marker information added by executing the **AddMarker** method
- "Extraction File" indicates a file created by executing the **QueryContent** method

Chapter 2 Before Using Electronic Journal

This chapter includes explanations on how to setup Electronic Journal, as well as precautions and restrictions on use.

2.1 Device Setup

Use the SetupPOS to select a correct device.

Refer to “[Appendix-C Additional Explanation](#)” for additional limitations of Electronic Journal. For details on how to use the SetupPOS utility, refer to the User’s Reference Guide and “[Appendix-B SetupPOS Settings](#)”.

2.2 Precautions and Restrictions

Flow control of the device support only DTR/DSR

When POSPrinter is turned off and on, or the cover is opened, garbage characters may be printed.

When POSPrinter is turned off, wait at least 5 seconds before turning on.

When Electronic Journal is used, depending on how to use, data may be lost.

Under the situation below, output data is not written:

- StorageEnabled property is true and DeviceEnabled property is false (As the same for when the properties is set to false automatically by AutoDisable property)
- When initialization of Electronic Journal file is not completed
- When a process for writing output data from the printer is failed

When data is written while a bitmap image is registered to the printer, the bitmap image will not be printed unless the bitmap image is registered to the printer when re-outputting. In this case, DeviceStatistics of POSPrinter is counted based on output when writing.

If a bitmap image registered to the printer when writing data and the bitmap image registered to the printer when re-outputting differs, the bitmap image registered to the printer when re-outputting will be printed. In this case, Device Statistics of POSPrinter is counted based on output when writing.

When data in a file used by Electronic Journal is insufficient, output may not be printed correctly

When HDD is not selected for saving Electronic Journal files, EPSON will not be responsible for any consequences. Please be aware of this matter.

To save Electronic Journal files, write-access is required. Otherwise setting a write-access is recommended.

When settings of POSPrinter at time of writing and printing are different, output may not be printed correctly

When printing from the Electronic Journal, the units of data that were printed on the receipt POSPrinter are sent synchronously. As a result, sometimes the printer will stop printing while it is waiting for more data. The end result is that the Electronic Journal data will not always be printed smoothly. In order to minimize this effect, it is recommended that TransactionPrint be used when printing receipt data from the POSPrinter.

Chapter 3 Properties, Methods, and Events

3.1 Properties

The properties listed below differ from the functions described in UPOS.

Refer to the “Appendix-D Properties Initial Value” for properties’ initial values.

3.1.1 CapPowerReporting Property

Description

ServiceObject of Electronic Journal notifies only power status of POSPrinter.

The Property identifies reporting capability of the device.

One of the following values is set:

Value	Detail
PowerReporting.Standard	<p>The value is set when a serial connection is used.</p> <p>ServiceObject distinguishes and reports two types of the power statuses: OFF_OFFLINE (power Off or Offline) and ONLINE.</p>
PowerReporting.Advanced	<p>The value is set when a parallel, USB and network connections are used.</p> <p>ServiceObject distinguishes and reports three types of the power statuses: OFF, OFFLINE and ONLINE.</p>

3.1.2 DeviceEnabled Property

Description

When the property is set to true, Electronic Journal files and POSPrinter will be initialized non-simultaneously.

Exception will not be reported even the initialization fails

3.1.3 MediumIsAvailable Property

Description

Only HDD media, which is fixed to the system, is supported to save Electronic Journal controlled by ServiceObject. Any situation the media become unavailable during the system operation is not concerned. Therefore the property is always set to “true”.

Even a removal media is specified for saving the files through the SetupPOS setting, when the media is disconnected, it can not be reported.

3.1.4 PowerNotify Property

Description

When the property is set to “Enabled”, a power status of POSPrinter will be reported as long as **DeviceEnabled** property is set to “true”.

ServiceObject of Electronic Journal reports only a power status of POSPrinter. Reportable power status is depending on POSPrinter connection I/F.

3.1.5 PowerState Property

Description

Sets power status of POSPrinter.

Power status differs depending on POSPrinter connection I/F

3.1.6 StorageEnabled Property

Description

When the property is set to “true”, ServiceObject of Electronic Journal enables output data of POSPrinter writeable.

Even POSPrinter ServiceObject is not printable, the property can be set to “true”. When initialization of Electronic Journal file is not completed, writing output data of POSPrinter will be error and error event queuing.

3.1.7 Suspended Property

Description

When the Release method is executed, the property will be changed to “false” and Suspend mode lifted.

3.2 Methods

Methods that are different from UPOS are described in this chapter.

3.2.1 claim Method

Description

Performs the processes below. When one of the processes is failed, exception is notified.

- Confirms whether a destination for saving files set in SetupPOS is valid or not
- Acquires mutual access authority of a port POSPrinter is connected
- Confirms connection and power statuses of POSPrinter

3.2.2 DirectIO Method

Description

The **DirectIO** method can be used when **DeviceEnabled** property is set to "true".

The **DirectIO** method support only EJ_DI_RECOVER_ERROR function.

Value	Description
EJ_DI_RECOVER_ERROR	Lifts POSPrinter error

EJ_DI_RECOVER_ERROR Command

Parameter	
<i>command</i>	EJ_DI_RECOVER_ERROR
<i>data</i>	Unused
<i>object</i> (byte[])	Unused

Description

Recovers from POSPrinter recoverable error by using a real-time command.

When data can not be sent without flow control, error can not be lifted.

When there is no error occurrence, returns ErrorCode.Success

3.2.3 CheckHealth Method

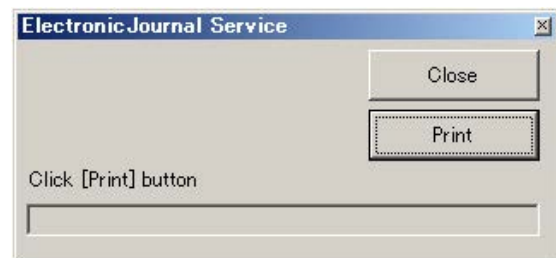
Description

Supports functions of all the **CheckHealth** methods.

Confirms status of Electronic Journal write and print functions.

If the status is near-full, notifies exception of ExtendedErrorNotEnoughSpace

Level	Function Description
HealthCheckLevel.Internal	Confirms status of Electronic Journal file, capacity of drive where file is saved, and POSPrinter. Does not write to HDD or send command to POSPrinter.
HealthCheckLevel.External	Confirms status of Electronic Journal file and capacity of drive where file is saved. Performs test for writing a file and outputting data to POSPrinter. Confirms an output result.
HealthCheckLevel.Interactive	Displays the dialog box below.



Click [Print] to execute a test. The strings below should be outputted.

Interactive HCheck !!

EPSON UPOS ADK

Service Version = Service Object

Device Name = Device Name

Click [Close] to close.

The execution result will be saved in **CheckHealthText** property.

Also as a return value of the method, the following values will be acquired:

Level	Value	Description
HealthCheckLevel.Internal		
	Internal HCheck: Successful	CheckHealth method is completed successfully.
	Internal HCheck: Error-<Message>	CheckHealth method is shut down. Error information is included in message.
HealthCheckLevel.External		
	External HCheck: Successful	CheckHealth method is completed successfully.
	External HCheck: Error-<Message>	CheckHealth method is shut down. Error information is included in message.
HealthCheckLevel.Interactive		
	Interactive HCheck: Canceled	CheckHealth method is closed without performing any operation.
	Interactive HCheck: Complete	CheckHealth method is closed after the last operation is completed.
	Interactive HCheck: Error-<Message>	CheckHealth method is closed after the last operation is completed. Error information is included in message.

3.2.4 ClearOutput Method

Description

When printing transaction is completed, interrupts printing. Regardless of **Suspended** property value, performs the following processes:

- Cancels writing process of POSPrinter output data that is not written.
- Cancels printing jobs that are not processed by the **PrintContent** and **PrintContentFile** methods.
- Cancels file deletion process that are not processed by **EraseMedium** method
- Clears error event relates to output
- When POSPrinter's error is recoverable, sends the buffer clear command

3.2.5 ResetStatistics Method

- **Parameter Type : Microsoft.PointOfService.StatisticCategories**
Parameter

Microsoft.PointOfService.StatisticCategories

Specifies one of the followings:

- *StatisticCategories.Upas*
- *StatisticCategories.Manufacturer*
- *StatisticCategories.All*

Description

Item that is included in the specified category and specified as resetting is selectable in [Appendix-E DeviceStatistics](#), will be reset.

Statistics supported by ServiceObject is defined in UPOS.

When *StatisticCategories.Manufacturer* is specified, no item is reset.

- **Parameter Type : String[]**
Parameter

String[] Array of item name to be reset

Description

When "U_" , "M_" or blank is specified to an item name, item that is included in the specified category and specified as resetting is selectable in [Appendix-E DeviceStatistics](#), will be reset.

When an item name includes an invalid value or a name that can not be reset is specified, exception will be notified. At this time, other items specified correctly will not be reset.

Statistics supported by ServiceObject is defined in UPOS. Therefore when "M_" is specified, no item is reset.

3.2.6 ResetStatistic Method

Description

When "U_" , "M_" or blank is specified to an item name, item that is included in the specified category and specified as resetting is selectable in [Appendix-E DeviceStatistics](#), will be reset.

When an item name includes an invalid value or a name that can not be reset is specified, exception will be notified.

Statistics supported by ServiceObject is defined in UPOS. Therefore, when "M_" is specified, any item is reset.

3.2.7 RetrieveStatistics Method

- Parameter: Microsoft.PointOfService.StatisticCategories

Parameter

Microsoft.PointOfService.StatisticCategories

Specifies one of the followings:

- StatisticCategories.Upas
- StatisticCategories.Manufacturer
- StatisticCategories.All

Description

Statistics supported by ServiceObject is defined in UPOS. Therefore when StatisticCategories.Manufacturer is specified, the lease information (UPOS version, manufacture and device names, and device category) will be acquired.

- Parameter Type: String[]

Parameter

String[]

Array of item name to be acquired

Description

When an invalid item name is included, this method notifies exception.

Statistics supported by ServiceObject is defined in UPOS. Therefore when StatisticCategories.Manufacturer is specified, the lease information (UPOS version, manufacture and device names, and device category) will be acquired.

- Parameter Type: None

Description

Information entire items that are defined will be acquired.

3.2.8 RetrieveStatistic Method

Description

This method notifies exception when: an invalid item name is specified and multiple item names are separated by commas and specified.

Statistics supported by ServiceObject is defined in UPOS. Therefore when StatisticCategories.Manufacturer is specified, the lease information (UPOS version, manufacture and device names, and device category) will be acquired.

3.2.9 UpdateStatistics Method

- Parameter Type: Microsoft.PointOfService.Statistic[]

Parameter

Microsoft.PointOfService.Statistic[]

Specifies *Microsoft.PointOfService.Statistic* array that a new item name and value are set.

Description

When “U_”, “M_” or blank is specified to an item name, item that is included in the specified category and specified as updatable in [Appendix-E DeviceStatistics](#), will be updated.

When an item name includes an invalid value or an updatable name is specified, exception will be notified. At this time, other items specified correctly will not be reset.

Statistics supported by ServiceObject is defined in UPOS. Therefore, when “M_” is specified, any item is reset.

- Parameter Type: Microsoft.PointOfService.StatisticCategories

Parameter

Microsoft.PointOfService.StatisticCategories

Specified one of the followings:

- StatisticCategories.Upas
- StatisticCategories.Manufacturer
- StatisticCategories.All

Object

Specifies a new value after update

Description

Item that is included in the specified category and specified as updatable in [Appendix-E DeviceStatistics](#), will be updated.

Statistics supported by ServiceObject is defined in UPOS. When StatisticCategories.Manufacturer is specified to category, any item is updated.

3.2.10 UpdateStatistic Method

Description

When “U_”, “M_” or blank is specified to an item name, item that is included in the specified category and specified as updatable in [Appendix-E DeviceStatistics](#), will be updated. When an item name includes an invalid value or an updatable name is specified, exception will be notified. At this time, other items specified correctly will not be reset.

Statistics supported by ServiceObject is defined in UPOS. Therefore, when “M_” is specified, any item is reset.

3.2.11 AddMarker Method

Description

This method specifies marker. Strings can be specified as a marker name is as follows:

- Strings exclude ASCII code (0x00~0x1F, 0x3A and 0x7F)
- Maximum string size: 512 characters

3.2.12 CancelPrintContent Method

Description

When **Suspended** property is set to “false” and executed, this method only returns ErrorCode.Success.

When **Suspended** property is set to “true” and executed, this method performs the following processes:

- Cancels writing process of POSPrinter output data that is not written.
- Cancels printing jobs that are not processed by the **PrintContent** and **PrintContentFile** Methods
- Cancels deleting process of files that are not deleted by the **EraseMedium** Method.

This method does not clear error event related to output that is queuing already.

3.2.13 EraseMedium Method

Description

When **EraseMedium** method is executed non-simultaneously even no write data is stored in the media, the method notifies **OutputCompleteEvent**. When a method, which uses the media, is called non-simultaneously after the **EraseMedium** method is called non-simultaneously and until the process starts, `ErrorCode.Success` is returned.

However, when the **EraseMedium** method is executed, written data inside the media is deleted. Therefore error event is notified to any non-simultaneous method execution.

3.2.14 PrintContent Method

Description

When start and end positions that are specified as a marker range are invalid, this method notifies exception.

When a specified range is empty, ends without printing any data.

When printing is performed, `DeviceStatistics` is counted in POSPrinter side.

3.2.15 PrintContentFile Method

Description

This method confirms header information of an extract file that is specified.

Notifies exception in the following cases:

- When a file is not created by **QueryContent** method
- When an extract file is created by different model

When printing is performed, `DeviceStatistics` is counted in POSPrinter side.

3.2.16 QueryContent Method

Description

When the following strings are specified for a file name, this method notifies exception:

- Invalid path
- No write access to the path

When the following settings are performed to specify a marker range, this method notifies exception:

- Invalid start and end positions
- Range exceeds the maximum file size of file system

When an invalid directory, such as does not exist, is specified for a file name, if possible, this method creates a directory and saves the file. When a specified range is empty, an empty extract file will be created. When print the created extract file, the same model as when it is written should be used.

3.2.17 SuspendPrintContent Method

Description

Sets a flag for stop printing and saves a print restarting position to ServiceObject. This method returns ErrorCode.Success immediately.

Property values of **Suspended** and **State** are not updated when process of the **SuspendPrintContent** method is returned. When printing process is actually stopped, this method sets **Suspend** property to “true” and queuing StatusUpdateEvent StatusMediumSuspended. When suspend mode is set, all the non-simultaneous output processes will be suspended. Suspend mode is for posing printing process when event error is issued during non-simultaneous outputs, and executable process is limited during the time. While printing is suspended, ControlState.Busy is set to the **State** property.

When the method is executed while State property is ControlState.Error

A command is sent to clear data in the device buffer in case there is any because printing process is suspended due to error.

After printing is restarted, transaction being sent when the **SuspendPrintContent** method is executed will also be restarted.

When the method is executed while State property is ControlState.Busy

When **Suspended** property is set to “true”, ErrorCode.Success is returned.

After transaction being sent when the method is executed is completed, non-simultaneous print process will be stopped.

When print error occurs after the **SuspendPrintContent** method is executed, a result will be the same as when the **State** property is executed while ControlState.Error occurs.

When printing is suspended correctly, output data will be printed after a transaction being sent when the **SuspendPrintContent** method is executed.

3.2.18 ResumePrintContent Method**Description**

When **Suspended** property is set to “false”, the method only returns ErrorCode.Success.

Restarts printing non-simultaneously from a printing start position saved in ServiceObject by the **SuspendPrintContent** method.

Non-simultaneously restarted printing process will be the same as the **PrintContent** and **PrintContentFile** methods' operation that are executed non-simultaneously.

Operation Detail:

- Notifies **OutputCompleteEvent**
- Notifies **ErrorEvent**
- Print process can be suspended by the **SuspendPrintContent** method

3.3 Events

3.3.1 DirectIOEvent

Description

In this ServiceObject, this event never is issued.

3.3.2 ErrorEvent

3.3.2.1 ErrorEvent for printing acquired data.

Description

When fails to print acquired written data, queuing is performed.

This ErrorEvent is not distinguished from any ErrorEvent for writing output data. Restart operation of data output differs depending on ErrorEvent response and a method called inside the handler.

ErrorResponse	Method	Print Restart Position
		Print Restart Timing
ErrorResponse. Retry	None	Top of Print Range ^{*1}
		Immediately after ErrorEvent Handler is completed.
	SuspendPrintContent ^{*2}	Top of transaction being sent when error occurs.
		When the ResumePrintContent method is executed ^{*3}
	ClearOutput	Print is not restarted
ErrorResponse. Clear	None	Print is not restarted
	SuspendPrintContent ^{*2}	Print is not restarted
	ClearOutput	Print is not restarted

^{*1} **PrintContent** Method : Transaction immediately after start marker
PrintContentFile Method : Transaction top of extract file

^{*2} When the **ClearOutput** and **SuspendPrintContent** methods are executed, **ClearOutput** is prioritized regardless of transaction order.

^{*3} When the **ResumePrintContent** is method called inside the event handler, it can not be executed because **Suspended** property is set to "false". ErrorResponse should be returned by ErrorResponse.Retry and receive **StatusUpdateEvent** StatusMediumSuspended, then executes.

3.3.2.2 ErrorEvent for writing output data

Description

When fails to write POSPrinter's output data, queuing is performed.

This ErrorEvent is not distinguished from any ErrorEvent for printing acquired data. When ErrorResponse.Clear is set to ErrorResponse, non-simultaneous printing and non-simultaneous file deletion processes and any ErrorEvent for these processes are cleared at the same time.

3.3.3 OutputCompleteEvent

3.3.3.1 Event for printing method

Description

When data within a range specified by the **PrintContent** or the **PrintContentFile** method executed non-simultaneously is printed completed, queuing is performed. When the **SuspendPrintContent** or the **ClearOutput** method is executed while printing is performed non-simultaneously, printing process is not suspended until current transaction is completed.

For the reason, even after the **SuspendPrintContent** or the **ClearOutput** method is executed, **OutputCompleteEvent** can be queuing.

3.3.3.2 Event for deleting stored data file

Description

When fails to write POSPrinter's output data, queuing is performed.

When deletion process of stored and marker maintain files is completed, queuing is performed.

Even there is no file to delete or the deletion process was not performed, queuing is still performed.

3.3.4 StatusUpdateEvent

3.3.4.1 Power Status Notification

Description

When power status of POSPrinter is changed, queuing is performed.

3.3.4.2 State Property Status Notification

Description

When **FlagWhenIdle** property is set to "true" and **State** property is changed to **ControlState.Idle**, queuing is performed.

When **FlagWhenIdle** property is set to "true", if **State** property is already **ControlState.Idle**, queuing is performed to the event immediately.

3.3.4.3 Suspended Property Status Notification

Description

When **Suspended** property is set to "true", queuing is performed.

Appendix–A Revision History

A.1 EPSON OPOS ADK for .NET 1.14.6

(1) Microsoft POS for .NET 1.14.1 is supported.

A.2 EPSON OPOS ADK for .NET 1.12.23

(1) TM-T88VI is supported.

A.3 EPSON OPOS ADK for .NET 1.12.13

(1) TM-T20II and TM-T20II-42C is supported.

A.4 EPSON OPOS ADK for .NET 1.12

(1) Microsoft POS for .NET 1.12 is supported.

A.5 EPSON OPOS ADK for .NET 1.11.14

(1) TM-H6000IV is supported.

A.6 EPSON OPOS ADK for .NET 1.11.12

(1) TM-T20 and TM-T20-42C is supported.

A.7 EPSON OPOS ADK for .NET 1.11.11

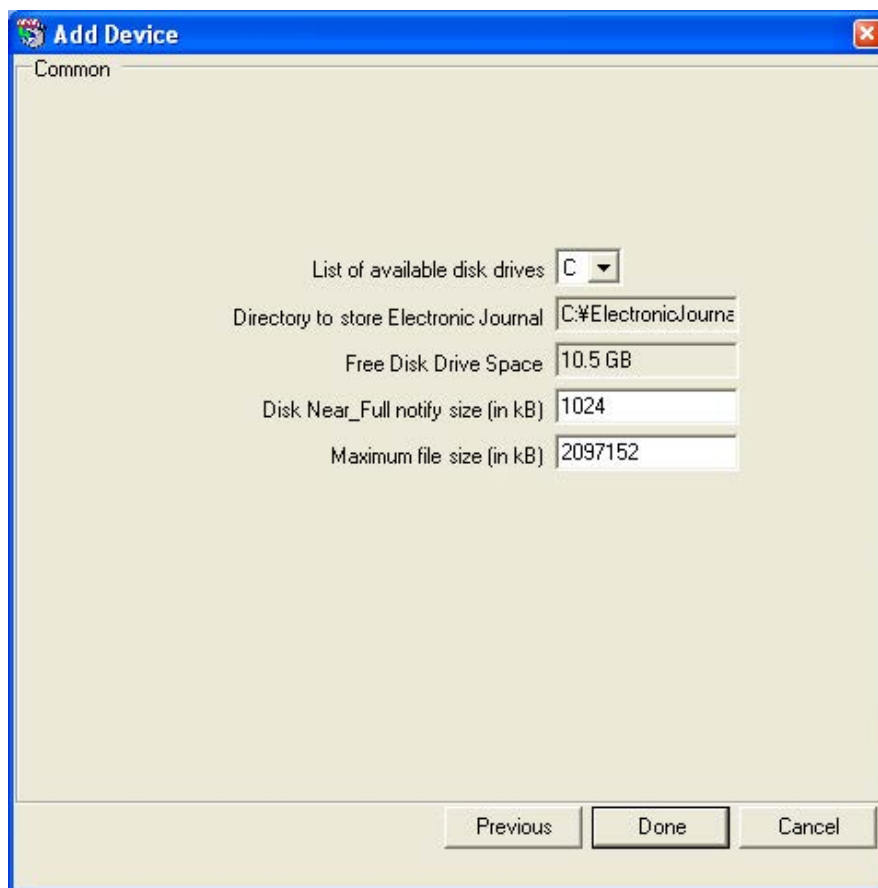
(1) TM-T88V is supported.

A.8 EPSON OPOS ADK for .NET 1.11

(1) Microsoft POS for .NET 1.11 is supported.

(2) TM-H6000III and TM-T88IV are supported.

Appendix–B SetupPOS



B.1 Drop-Down Combo Box - List of Available Disk Drive

Description

Sets a drive to store stored data and marker maintain files. Available drives^{*1} in the system are displayed. When setting a disk drive, refer to **Chapter 2.2 Precautions and Restrictions**.

Initial Setting : It differs depending on operation system ^{*2}

^{*1} FD and CD-ROM are excluded.

^{*2} Drive found at first is selected. At that time, partition that OS is not installed is prioritized.

B.2 Text Box – Directory to Store Electronic Journal

Description

Locations to store stored data and marker maintenance files are displayed automatically.

Initial Value: (Selected Drive) ¥ElectronicJournal

B.3 Text Box - Free Disk Drive Space

Description

Free disk space of drive specified as a location to store data is displayed automatically.

Initial Value: Free disk space of drive selected.

B.4 Text Box – Disk Near-Full Notify Size

Description

Sets a threshold value that determines as HDD disk space is near-full. Value unit is in KB. Settable range is as follows:

Minimum: 1

Maximum: $2097152 - 1n$ (n = Cluster size)

When a free disk size reaches to a set value, StatusMediumNearFull **StatusUpdateEvent** will be notified.

Initial Value: 1024 KB

B.5 Text Box – Maximum File Size

Description

Sets a maximum size of stored data file. Value unit is in KB. Settable range is as follows:

Minimum: 1

Maximum: $2097152 - 1n$ (n = Cluster size)

When a maximum file size value is exceeded, a new stored data file will be created.

Initial Value: Settable maximum size.

Appendix–C Additional Information

Settings for Electronic Journal and additional items are explained.

C.1 Electronic Journal Initialization

When **DeviceEnabled** property is set to “true”, Electronic Journal file and POSPrinter will be initialized.

Electronic Journal File Initialization

Electronic Journal file initialization performs the processes below to stored data and marker maintains files:

- Creates (when there is no file)
- Opens with read & write mode
- Compares with header information

When file initialization had not been successfully performed, file initialization is attempted each time a process that uses the files is executed.

Until it is finished, processes the require file initialization cannot be used.

POSPrinter Initialization

For POSPrinter initialization, the following processes are executed.

- POSPrinter initial settings
- Retrival of data from the POSPrinter

If POSPrinter initialization cannot be successfully performed, it is repeatedly attempted until it has completed successfully.

Until it is completed, processes the require communication with the POSPrinter cannot be used.

If initialization has already been completed on the POSPrinter side, initialization from the Electronic Journal side is not executed.

Appendix–D Default Values of Properties

Property initial values of this device are as follows:

Property Value	Initial and Standard Values	Settable Value
AutoDisable	False	true false
CapCompareFirmwareVersion	False	-
CapPowerReporting	(Serial connection) PowerReporting.Standard (Other connection) PowerReporting.Advanced	-
CapStatisticsReporting	true	-
CapUpdateFirmware	false	-
CapUpdateStatistics	true	-
CapAddMarker	true	-
CapErasableMedium	true	-
CapInitializeMedium	false	-
CapMediumIsAvailable	false	-
CapPrintContent	true	-
CapPrintContentFile	true	-
CapRetrieveCurrentMarker	false	-
CapRetrieveMarker	false	-
CapRetrieveMarkerByDateTime	false	-
CapRetrieveMarkersDateTime	false	-
CapStation	ElectronicJournalStations.Receipt	-
CapStorageEnabled	true	-
CapSuspendPrintContent	true	-
CapSuspendQueryContent	false	-
CapWaterMark	false	-
CheckHealthText	""	-
Claimed	false	-
DataCount	0	-

Property Value	Initial and Standard Values	Settable Value
DataEventEnabled	false	true false
DeviceDescription	The value is different depending on the device.	-
DeviceEnabled	false	true false
DeviceName	The value is different depending on the device.	-
FreezeEvents	false	true false
MediumFreeSpace	0	-
MediumID	""	-
MediumIsAvailable	true	-
MediumSize	0	-
OutputID	0	-
PowerNotify	PowerNotification.Disabled	PowerNotification.Disabled PowerNotification.Enabled
PowerState	PowerState.Unknown	-
State	ControlState.Closed	-
Station	ElectronicJournalStations.Receipt	ElectronicJournalStations.Receipt
StorageEnabled	false	true false
Suspended	false	-
WaterMark	false	false
AsyncMode	false	true false
FlagWhenIdle	false	true false

Appendix–E DeviceStatistics

Statistics functions of this device are listed as follows:

XML Definition Name	Detail	Reset Y/N	Update Y/N
UnifiedPOSVersion	UPOS Version	×	×
DeviceCategory	Device Category	×	×
ManufactureName	Manufacture Name	×	×
ModelName	Device Name	×	×
SerialNumber	Serial Number	×	×
ManufactureDate	Manufacture Date	×	×
MechanicalRevision	Device Revision	×	×
FirmwareRevision	Firmware Version	×	×
Interface	Interface	×	×
InstallationDate	Installation Date	×	×
HoursPoweredCount	Power Hour	○	×
CommunicationErrorCount	Communication Error Count	○	○
WriteCount	Write Process Succeeded Count	○	○
FailedWriteCount	Write Process Failed Count	○	○
EraseCount	Erase Process Succeeded Count	○	○
MediumRemovedCount	Media Removal Count	×	×
MediumSize	Partition Size	×	×
MediumFreeSpace	Partition Remaining Area	×	×