

**BIXOLON**

**Application Programming Guide**

# **OPOS Driver**

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**Ver. 3.07**

<http://www.bixolon.com>

# **Introduction**

This is a manual about how to set and configure device and to develop applications For BIXOLON POS printer with BIXOLON OPOS driver.

Before use BIXOLON POS printer, set and configure printer by using BIXOLON OPOS driver Setup Utility.

Throughout this manual, "OLE for Retail POS" is called "OPOS".

Throughout this manual, "Unified for Retail POS" is called "UPOS".

[Further Source]

OLE for Retail POS committee available from <http://monroecs.com/opos.htm>

Driver Update from <http://www.bixolon.com>

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## 1. Development environment

### 1-1 Communication Configuration

- Communication Configuration for serial interface.
- You will set communication configuration in BIXOLON OPOS Setup Utility.

Printer Model	Baud Rate	Printer Type	etc
STP-103 / STP-103II STP-103III / STP-131	9600/19200/38400/57600/115200	Mono Thermal	
SRP-270 / SRP-275 SRP-275II / SRP-275III	9600/19200	2 Color Dot	
SRP-280	9600/19200	Mono Dot	
SRP-350 / SRP-350N	9600/19200/38400/57600	Mono Thermal	
SRP-500	9600/19200	2 Color Inkjet	
SRP-330 / SRP-330II SRP-340 / SRP-340II SRP-350III / SRP-350plusIII SRP-350plus / SRP-350plusF SRP-350II / SRP-350IIK SRP-350plusII SRP-370 / SRP-380 SRP-F310 / SRP-F310II SRP-S300 / SRP-E300	9600/19200/38400/57600/115200	Mono Thermal	
SRP-332II / SRP-342II SRP-352plus / SRP-352plusII SRP-352III / SRP-352plusIII SRP-F312 / SRP-F312II SRP-F313II / SRP-372 SRP-382 / SRP-E302 SRP-Q200 / SRP-B300 SRP-S320 / SRP-S3000 SRP-S200	9600/19200/38400/57600/115200	Mono Thermal	203 dpi
SRP-383	9600/19200/38400/57600/115200	Mono Thermal	300 dpi
SPP-R200 / SPP-R200II SPP-R200III SPP-R300 / SPP-R310 SPP-R400 / SPP-R410	9600/19200/38400/57600/115200	Mono Thermal	203 dpi
BK3-3 / BK3-2	9600/19200/38400/57600/115200	Mono Thermal	203 dpi

#### Caution

- Check the default communication setting.  
For more details refer to the user manual included in the printer package.
- A printer which does not support Serial Interface is not indicated.

## 2. Properties / Methods

### 2-1 Printer Type

- Property value will be determined by the printer type, as shown in the below table.  
(Some property values related to Receipt may be different depending on printer model.)

1 Color Dot printer list	SRP-280
2 Color Dot printer list	SRP-270, SRP-275, SRP-275II, SRP-275III
Thermal printer list	STP-103, STP-103II, STP-103III, STP-131, SRP-330, SRP-330II, SRP-332II, SRP-340, SRP-350II, SRP-350IIC, SRP-340II, SRP-342II, SRP-350, SRP-350N, SRP-350III, SRP-352III, SRP-350plus, SRP-350plusF, SRP-352plus, SRP-350plusII, SRP-352plusII, SRP-350plusIII, SRP-352plusIII, SRP-370, SRP-372, SRP-F310, SRP-F312, SRP-380, SRP-382, SRP-383, SRP-F310II, SRP-F312II, SRP-F313II, SRP-S300, SRP-Q300, SRP-Q302, SRP-QE300, SRP-QE302, SRP-Q200, SRP-E300, SRP-E302, SPP-R200, SPP-R200II, SPP-R200III, SPP-R210, SPP-R220, SPP-R300, SPP-R310, SPP-R400, SPP-R410, BK3-3, BK3-2, SRP-B300, SRP-S320, SRP-S3000, SRP-S200
Ink printer list	SRP-500

## 2-2 Properties Range / Default Value

### 2-2-1 Capability properties setting value

Capability property	1 Color Dot	2 Color Dot	Thermal	Ink
CapCompareFirmwareVersion	FALSE	FALSE	FALSE	FALSE
CapPowerReporting	TRUE	TRUE	TRUE	TRUE
CapStatisticsReporting	FALSE	FALSE	FALSE	FALSE
CapUpdateFirmware	FALSE	FALSE	FALSE	FALSE
CapUpdateStatistics	FALSE	FALSE	FALSE	FALSE
CapTransaction	TRUE	TRUE	TRUE	TRUE
CapCoverSensor	FALSE	TRUE	TRUE	TRUE
CapConcurrentRecSlp	FALSE	FALSE	FALSE	FALSE
CapConcurrentJrnSlp	FALSE	FALSE	FALSE	FALSE
CapConcurrentJrnRec	FALSE	FALSE	FALSE	FALSE
CapCharacterSet	TRUE	TRUE	TRUE	TRUE
CapRecUnderline	TRUE	TRUE	TRUE	TRUE
CapRecPageMode	FALSE	FALSE	TRUE	FALSE
CapCuncurrentPageMode	FALSE	FALSE	FALSE	FALSE
CapRecStamp	FALSE	FALSE	FALSE	FALSE
CapRecRotate180	TRUE	TRUE	TRUE	TRUE
CapRecRight90	FALSE	FALSE	TRUE	FALSE
CapRecPapercut	TRUE	TRUE	TRUE	TRUE
CapRecNearEndSensor	TRUE	FALSE	TRUE	FALSE
CapRecMarkFeed	FALSE	FALSE	FALSE	FALSE
CapRecLeft90	FALSE	FALSE	TRUE	FALSE
CapRecItalic	FALSE	FALSE	FALSE	FALSE
CapRecEmptySensor	TRUE	TRUE	TRUE	TRUE
CapRecDwideDhigh	TRUE	TRUE	TRUE	TRUE
CapRecDwide	TRUE	TRUE	TRUE	TRUE
CapRecDhigh	TRUE	TRUE	TRUE	TRUE
CapRecColor	FALSE	TRUE	FALSE	TRUE
CapRecCartridgeSensor	FALSE	FALSE	FALSE	TRUE
CapRecBold	TRUE	TRUE	TRUE	TRUE
CapRecBitmap	TRUE	TRUE	TRUE	TRUE
CapRecBarCode	FALSE	FALSE	TRUE	TRUE
CapRec2Color	FALSE	TRUE	FALSE	TRUE
CapRecPresent	TRUE	TRUE	TRUE	TRUE

#### Caution

- May be capability setting values are different depending on the printer model.

## 2-2-2 Properties default value / range

### 1) List Property

Model	RecLineChars List	RecBarCode RotationList	FontTypeface List	RecBitmap List
STP-103 / STP-103II STP-103III	"24,32"	""	""	0,L90,R90,180
STP-131	"42,56"	""	""	0,L90,R90,180
SRP-270 / SRP-275 SRP-275II / SRP-275III	"33,40"	""	""	0,L90,R90,180
SRP-280	"35,42"	""	""	0,L90,R90,180
SRP-370	"42,56"	""	""	0,L90,R90,180
SRP-372	"47,63"	""	""	0,L90,R90,180
SRP-500	"36,42"	""	""	0,L90,R90,180
SRP-350N	"32,42"	""	""	0,L90,R90,180
SRP-330 / SRP-340 SRP-330II / SRP-340II SRP-350 / SRP-370 SRP-350plus SRP-350plusF SRP-350II / SRP-350IIK SRP-350plusII SRP-350III SRP-350plusIII SRP-380 / SRP-F310 SRP-F310II / SRP-Q300 SRP-QE300 / SRP-E300	"42,56"	""	""	0,L90,R90,180
SRP-332II / SRP-342II SRP-352plus SRP-352plusII SRP-352III SRP-352plusIII SRP-382 SRP-F312 / SRP-F312II SRP-S300 / SRP-Q302 SRP-QE302 / SRP-E302 SRP-B300 / SRP-S320 SRP-S3000	"48,64"	""	""	0,L90,R90,180
SRP-B300(42CPL)	"42,60"	""	""	0,L90,R90,180
SRP-383	"48,72"	""	""	0,L90,R90,180
SRP-F313II	"53,71"	""	""	0,L90,R90,180
SRP-Q200 / BK3-2 SRP-S200	"36,48"	""	""	0,L90,R90,180
SPP-R200 / SPP-R200II SPP-R200III SPP-R210 / SPP-R220	"32,42"	""	""	0,L90,R90,180
SPP-R300 / SPP-R310	"48,64"	""	""	0,L90,R90,180
SPP-R400 / SPP-R410	"69,92"	""	""	0,L90,R90,180
BK3-3	"48,64"			0,L90,R90,180

**2) CharacterSetList Property**

Model	Value
STP-103 / STP-103II / STP-103III	437,850,1(Katakana),860,863,865,858,255
STP-131	437,850,1(Katakana),860,863,865,255
SRP-270	437,850,860,863,865,858,255
SRP-275 / SRP-275II SRP-275III	437,850,860,863,1(Katakana),865,866,1252,852, 858,862,864,23(Thai42),1253,1254,1257,27(Farsi), 1251,737,775,255
SRP-280	Only china
SRP-350 / SRP-350N	437,850,1(Katakana),860,863,865,858,255
SRP-370 / SRP-372	437,850,1(Katakana),860,863,865,858.855,857,864, 23(Thai42),1253,1251,737,39(Thai16),1255,255
SRP-500	437,850,860,863,865,1252,866,255
SRP-330 SRP-350plus / SRP-350plusF SRP-352plus	437,1(Katakana),850,860,863,865,1252,866,852, 858,862,864,23(Thai42),1253,1254,1257,27(Farsi), 1251,737,775,31(Thai14),32(Hebrew Old),1255, 34(Thai11),35(Thai18),855,857,928,39(Thai16), 1256,255
SRP-330II / SRP-332II SRP-340 / SRP-340II / SRP-342II SRP-350II / SRP-350IIC SRP-350III / SRP-352III SRP-350plusII / SRP-352plusII SRP-350plusIII / SRP-352plusIII SRP-F310 / SRP-F312 SRP F310II / SRP-F312II SRP-F313II / SRP-S300 SRP-QE300 / SRP-QE302 SRP-E300 / SRP-E302 SRP-Q200 SPP-R200 / SPP-R200II SPP-R200III SPP-R210 / SPP-R220 SPP-R300 / SPP-R310 SPP-R400 / SPP-R410 BK3-3 / BK3-2 SRP-B300 / SRP-S320 SRP-S3000 / SRP-S200	437,1(Katakana),850,860,863,865,1252,866,852, 858,862,864,23(Thai42),1253,1254,1257,27(Farsi), 1251,737,775,31(Thai14),32(Hebrew Old),1255, 34(Thai11),35(Thai18),855,857,928,39(Thai16), 1256,1258,42(Khmer),1250,255,949,932,950,936
SRP-Q300 / SRP-Q302 SRP-380 / SRP-382 / SRP-383	997,437,1(Katakana),850,860,863,865,1252,866,852, 858,862,864,23(Thai42),1253,1254,1257,27(Farsi),12 51,737,775,31(Thai14),1255,34(Thai11),874,35(Thai1 8),855,857,928,39(Thai16),1256,1258,42(KHMER),12 50,255,949,932,950,936



## 3) Receipt Width and Height Property

Model	RecLineHeight	RecLineWidth	RecLinePaperCut
STP-103 / STP-103II / STP-103III	24	342	5
STP-131	24	512	5
SRP-270 / SRP-275 SRP-275II / SRP-275III	9	512	9
SRP-280	9	512	9
SRP-500	12	512	10
SRP-350N	24	342	5
SRP-330 / SRP-340 SRP-350 / SRP-370 SRP-350plus / SRP-350plusF SRP-330II / SRP-340II SRP-350II / SRP-350IIK SRP-350plusII SRP-350III / SRP-350plusIII SRP-F310 / SRP-F310II SRP-380 / SRP-Q300 SRP-QE300 / SRP-E300	24	512	5
SRP-372 / SRP-352plus SRP-332II / SRP-342II SRP-352plusII SRP-352III / SRP-352plusIII SRP-F312 / SRP-F312II SRP-382 / SRP-S300 SRP-Q302 / SRP-QE302 SRP-E302 / SRP-B300 SRP-S320 / SRP-S3000	24	576	5
SRP-B300(42CPL)	24	546	5
SRP-383	34	864	5
SRP-F313II	24	640	5
SRP-Q200, BK3-2	24	432	3
SRP-S200	24	432	5
SPP-R200 / SPP-R200II SPP-R200III / SPP-R210 SPP-R220	24	384	5
SPP-R300 / SPP-R310	24	576	5
SPP-R400 / SPP-R410	24	832	5
BK3-3	24	576	3

## 4) RecLineSpacing Property

Property	Range		
	Default	Max	Min
RecLineSpacing	16	127	0

**2-2-3 POSPrinter Methods**

Method	Value
beginInsertion	X
beginRemoval	X
changePrintSide	X
clearPrintArea	O
cutPaper	O
drawRuledLine	X
endInsertion	X
endRemoval	X
markFeed	X
pageModePrint	O (Dot, Ink type printer unsupported)
printBarCode	O
printBitmap	O
printImmediate	O
printMemoryBitmap	O
printNormal	O
printTwoNormal	X
rotatePrint	O
setBitmap	O
setLogo	O
transactionPrint	O
validateData	O

O: Supported    X: Not supported

## 2-2-4 POSPrinter Escape Sequences

Escape Sequence	Value
[#]P	O (Value range: 0~100)
[#]fP	O (Value range: 0~100)
[#]sP	X
sL	X
[#]B	O (Value range: 1~20)
tL	O
bL	O
[#]lF	O (Value range: 0~9999)
[#]uF Base Pitch [inch]	O
[#]rF Maximum [inch]	X
#E	O
#R	O
#dL	X
#fT	O
[!]bC	O
[!][#]uC	O
[!]iC	X
[#]rC	O
[!]rvC	O
[#]sC	X
1C	O
2C	O
3C	O
4C	O
#hC	O
#vC	O
[#]fC	X
[!]tbC	X
[!]tpC	X
cA	O
rA	O
lA	O
[!][#]stC	X
N	O

O: Supported    X: Not supported

### Caution

- To know more about Escape Sequence, please refer to UPOS 1.14.

### **2-2-5 Color bitmap printing support**

BIXOLON OPOS Driver supports following image formats.

- GIF, JPG, BMP Image Format.

The image will be converted into Mono color or 2 Colors depending on printer model.

### **2-2-6 PageMode printing support**

BIXOLON Thermal printers support page mode printing.

(BIXOLON Dot Matrix Printer and Ink Jet printer don't support this feature.)

\* Methods used with Page Mode Printing

Method	Value
printNormal	O
printBitmap	X
printBarcode	O
PrintMemoryBitmap	X

O: Supported    X: Not supported

## 3. Extended Functions

- This section is to explain DirectIO method.  
This method will operate properly only with BIXOLON POS printer.

### 3-1 DirectIO Method

Argument	Explanation	Type
Command	Pre-define constant	Long
pData	Number of output data / Value defined by command	Long
pString	Output Data	String

#### 3-1-1 BIXOLON OPOS DirectIO Commands Description

Command	Constant	Description
PTR_DI_OUTPUT	1	Output the pString data
PTR_DI_INTERNATIONAL_CHAR	2	Define the international charset
PTR_DI_350NV_PRINT	3	Print the Mono Color NV image
PTR_DI_370NV_PRINT	4	Print the 2 Color NV image
PTR_DI_275500NV_PRINT	5	Print the NV image for the dot printer
PTR_DI_MOBILE_MSR_READ	6	Read the data of MSR
PTR_DI_MOBILE_MSR_READ_TRACK1	7	Get the Track 1 information from MSR data
PTR_DI_MOBILE_MSR_READ_TRACK2	8	Get the Track 2 information from MSR data
PTR_DI_MOBILE_MSR_READ_TRACK3	9	Get the Track 3 information from MSR data
PTR_DI_MOBILE_MSR_READ_CLEAR	10	Clear the MSR Data
PTR_DI_MOBILE_MSR_INIT	13	Initialize the MSR Device
PTR_DI_MOBILE_BEEP	14	Play a beep sound (Mobile printer only)
PTR_DI_GET_PRESENTER_STATUS	15	Check BK3-3 Presenter's status

\* The constant of Command can be set at inf file of Printer model in BIXOLON OPOS Driver installation folder.

\* Example of setting the constant of command (inf file of Printer model)

```
[DIRECTIO]
PREDEFINE    = 0
GETPRESENTERSTATUS = 15
```

## 3-2 DirectIO Command

### 3-2-1 Direct Output

Argument	Command	PTR_DI_OUTPUT
	pData	Null
	pString	Output data
Description	Sends data without any process after checking printer status. "pString" is not affected by "BinaryConversion"	
Return	Result Code	ResultCodeExtended
	OPOS_SUCCESS	0
	OPOS_E_CLOSED	0
	OPOS_E_CLAIMED	0
	OPOS_E_NOTCLAIMED	0
	OPOS_E_DISABLED	0
	OPOS_E_BUSY	0
	OPOS_E_ILLEGAL	0
	OPOS_E_OFFLINE	0
	OPOS_E_FAILURE	0

### 3-2-2 International charset setting

Argument	Command	PTR_DI_INTERNATIONAL_CHAR
	pData	constant value which pre-defined PRN_DI_CHAR_USA: 0 PRN_DI_CHAR_FRANCE: 1 PRN_DI_CHAR_GERMANY: 2 PRN_DI_CHAR_UK: 3 PRN_DI_CHAR_DENMARK1: 4 PRN_DI_CHAR_SWEDEN: 5 PRN_DI_CHAR_ITALY: 6 PRN_DI_CHAR_SPAIN: 7 PRN_DI_CHAR_JAPAN: 8 PRN_DI_CHAR_NORWAY: 9 PRN_DI_CHAR_DENMARK2: 10
	pString	Empty string
Description	Sets International character set. If CharacterSet property value is changed, International character set will be reset.	
Return	Result Code	ResultCodeExtended
	OPOS_SUCCESS	0
	OPOS_E_CLOSED	0
	OPOS_E_CLAIMED	0
	OPOS_E_NOTCLAIMED	0
	OPOS_E_DISABLED	0
	OPOS_E_BUSY	0
	OPOS_E_ILLEGAL	0
	OPOS_E_OFFLINE	0
	OPOS_E_FAILURE	0

**3-2-3 NV Image printing**

Argument	Command	PTR_DI_350NV_PRINT PTR_DI_370NV_PRINT PTR_DI_275500NV_PRINT
	pData	Null
	pString	Sequence data
Description	Print the NV image corresponding to the sequence.	
Return	Result Code	ResultCodeExtended
	OPOS_SUCCESS	0
	OPOS_E_CLOSED	0
	OPOS_E_CLAIMED	0
	OPOS_E_NOTCLAIMED	0
	OPOS_E_DISABLED	0
	OPOS_E_BUSY	0
	OPOS_E_ILLEGAL	0
	OPOS_E_OFFLINE	0
	OPOS_E_FAILURE	0

**3-2-4 Read the MSR data of mobile printer**

Argument	Command	PTR_DI_MOBILE_MSR_READ
	pData	Null
	pString	Null
Description	Read the MSR data. Track information is read using PTR_DI_MOBILE_MSR_READ_TRACK command.	
Return	Result Code	ResultCodeExtended
	OPOS_SUCCESS	0
	OPOS_E_ILLEGAL	0

**3-2-5 Get the track information of MSR Data**

Argument	Command	PTR_DI_MOBILE_MSR_READ_TRACK1 PTR_DI_MOBILE_MSR_READ_TRACK2 PTR_DI_MOBILE_MSR_READ_TRACK3
	pData	Null
	pString	Appropriate Track information
Description	Get the Track information from MSR data.	
Return	Result Code	ResultCodeExtended
	OPOS_SUCCESS	0
	OPOS_E_ILLEGAL	0

**3-2-6 Clear the MSR data**

Argument	Command	PTR_DI_MOBILE_MSR_READ_CLEAR
	PData	Null
	PString	Null
Description	Clear the MSR data.	
Return	Result Code	ResultCodeExtended
	OPOS_SUCCESS	0
	OPOS_E_ILLEGAL	0

**3-2-7 Initialize the MSR of mobile printer**

Argument	Command	PTR_DI_MOBILE_MSR_INIT
	pData	Null
	pString	Null
Description	Initialize the MSR device.	
Return	Result Code	ResultCodeExtended
	OPOS_SUCCESS	0
	OPOS_E_ILLEGAL	0

**3-2-8 Check BK3-3 Presenter's status**

Argument	Command	PTR_DI_GET_PRESENT_STATUS
	pData	Input buffer
	pString	Null
Description	Check BK3-3 Presenter's status. The status value is saved in pData after executing DirectIO command. status : Paper near end(0x01), Paper Empty(0x04), Paper in(0x08), Paper jam(0x80)	
Return	Result Code	ResultCodeExtended
	OPOS_SUCCESS	0
	OPOS_E_FAILURE	0



### \* Example (POS Application)

```
#define PRT_STS_NORMAL          0
#define PRT_STS_PAPER_NEAR_END  1
#define PRT_STS_PAPEREMPTY     4
#define PRT_STS_PAPER_IN       8
#define PRT_STS_PAPER_JAM      128

LONG pData=0;
BSTR pString;
const int PTR_DI_GET_PRESENTER_STATUS = 15;
LONG ret = posPrinter.DirectIO(PTR_DI_GET_PRESENTER_STATUS, &pData, &pString);

if(ret == OPOS_SUCCESS)
{
    if(pData == 0x00)
        printf("Presenter Normal\n");

    else
    {
        if (pData & PRT_STS_PAPER_NEAR_END)
            printf("Presenter : Near end\n");

        if (pData & PRT_STS_PAPEREMPTY)
            printf("Presenter : Paper empty\n");

        if (pData & PRT_STS_PAPER_IN)
            printf("Presenter : Paper in\n");

        if (pData & PRT_STS_PAPER_JAM)
            printf("Presenter : Paper jam\n");
    }
}
```

### 3-3 DirectIOEvent

- Not used.

## 4. Error Information

This section is to explain returned error information when use POSPrinter methods. For more details, please refer to the UPOS specifications.

### 4-1 ResultCode List

#### 4-1-1 ClaimDevice method

Method	Result Code	ResultCodeExtended
ClaimDevice	OPOS_E_ILLEGAL	OPOS_EPTR_UNRECOVERABLE
		OPOS_EPTR_MECHANICAL
		OPOS_EPTR_CUTTER
		OPOS_EPTR_OVERHEAT
		OPOS_EPTR_REC_EMPTY
		OPOS_EPTR_JRN_EMPTY

#### 4-1-2 CheckHealth method

Method	Result Code	ResultCodeExtended
CheckHealth	OPOS_SUCCESS	0
	OPOS_E_CLOSED	0
	OPOS_E_CLAIMED	0
	OPOS_E_DISABLED	0
	OPOS_E_ILLEGAL	0
	OPOS_E_OFFLINE	0
	OPOS_E_FAILURE	OPOS_EPTR_UNRECOVERABLE
		OPOS_EPTR_CUTTER
		OPOS_EPTR_MECHANICAL
		OPOS_EPTR_OVERHEAT

#### 4-1-3 ClearOutput method

Method	Result Code	ResultCodeExtended
ClearOutput	OPOS_SUCCESS	0
	OPOS_E_CLOSED	0
	OPOS_E_CLAIMED	0
	OPOS_E_NOTCLAIMED	0

**4-1-4 DirectIO method**

Method	Result Code	ResultCodeExtended
DirectIO	OPOS_SUCCESS	0
	OPOS_E_CLOSED	0
	OPOS_E_CLAIMED	0
	OPOS_E_NOTCLAIMED	0
	OPOS_E_DISABLED	0
	OPOS_E_ILLEGAL	0
	OPOS_E_OFFLINE	0
	OPOS_E_FAILURE	OPOS_EPTR_COVER_OPEN
		OPOS_EPTR_UNRECOVERABLE
		OPOS_EPTR_CUTTER
		OPOS_EPTR_MECHANICAL
		OPOS_EPTR_OVERHEAT
	OPOS_E_EXTENDED	OPOS_EPTR_COVER_OPEN
		OPOS_EPTR_JRN_EMPTY
		OPOS_EPTR_REC_EMPTY

**4-1-5 PrintNormal method**

Method	Result Code	ResultCodeExtended
PrintNormal	OPOS_SUCCESS	0
	OPOS_E_CLOSED	0
	OPOS_E_CLAIMED	0
	OPOS_E_NOTCLAIMED	0
	OPOS_E_DISABLED	0
	OPOS_E_ILLEGAL	0
	OPOS_E_OFFLINE	0
	OPOS_E_FAILURE	OPOS_EPTR_UNRECOVERABLE
		OPOS_EPTR_CUTTER
		OPOS_EPTR_MECHANICAL
		OPOS_EPTR_OVERHEAT
	OPOS_E_EXTENDED	OPOS_EPTR_COVER_OPEN
		OPOS_EPTR_JRN_EMPTY
		OPOS_EPTR_REC_EMPTY

**4-1-6 PrintImmediate method**

Method	Result Code	ResultCodeExtended
PrintImmediate	OPOS_SUCCESS	0
	OPOS_E_CLOSED	0
	OPOS_E_CLAIMED	0
	OPOS_E_NOTCLAIMED	0
	OPOS_E_DISABLED	0
	OPOS_E_ILLEGAL	0
	OPOS_E_OFFLINE	0
	OPOS_E_FAILURE	OPOS_EPTR_UNRECOVERABLE
		OPOS_EPTR_CUTTER
		OPOS_EPTR_MECHANICAL
		OPOS_EPTR_OVERHEAT
	OPOS_E_EXTENDED	OPOS_EPTR_COVER_OPEN
		OPOS_EPTR_JRN_EMPTY
		OPOS_EPTR_REC_EMPTY

**4-1-7 CutPaper method**

Method	Result Code	ResultCodeExtended
CutPaper	OPOS_SUCCESS	0
	OPOS_E_CLOSED	0
	OPOS_E_CLAIMED	0
	OPOS_E_NOTCLAIMED	0
	OPOS_E_DISABLED	0
	OPOS_E_ILLEGAL	0
	OPOS_E_OFFLINE	0
	OPOS_E_FAILURE	OPOS_EPTR_UNRECOVERABLE
		OPOS_EPTR_CUTTER
		OPOS_EPTR_MECHANICAL
		OPOS_EPTR_OVERHEAT
	OPOS_E_EXTENDED	OPOS_EPTR_COVER_OPEN
		OPOS_EPTR_JRN_EMPTY
		OPOS_EPTR_REC_EMPTY

**4-1-8 RotatePrint method**

Method	Result Code	ResultCodeExtended
RotatePrint	OPOS_SUCCESS	0
	OPOS_E_CLOSED	0
	OPOS_E_CLAIMED	0
	OPOS_E_NOTCLAIMED	0
	OPOS_E_DISABLED	0
	OPOS_E_ILLEGAL	0
	OPOS_E_OFFLINE	0
	OPOS_E_FAILURE	OPOS_EPTR_UNRECOVERABLE
		OPOS_EPTR_CUTTER
		OPOS_EPTR_MECHANICAL
		OPOS_EPTR_OVERHEAT
	OPOS_E_EXTENDED	OPOS_EPTR_COVER_OPEN
		OPOS_EPTR_JRN_EMPTY
		OPOS_EPTR_REC_EMPTY

**4-1-9 PrintBitmap method**

Method	Result Code	ResultCodeExtended
PrintBitmap	OPOS_SUCCESS	0
	OPOS_E_CLOSED	0
	OPOS_E_CLAIMED	0
	OPOS_E_NOTCLAIMED	0
	OPOS_E_DISABLED	0
	OPOS_E_ILLEGAL	0
	OPOS_E_OFFLINE	0
	OPOS_E_FAILURE	OPOS_EPTR_UNRECOVERABLE
		OPOS_EPTR_CUTTER
		OPOS_EPTR_MECHANICAL
		OPOS_EPTR_OVERHEAT
	OPOS_E_NOEXIST	0
	OPOS_E_EXTENDED	OPOS_EPTR_COVER_OPEN
		OPOS_EPTR_JRN_EMPTY
		OPOS_EPTR_REC_EMPTY
		OPOS_EPTR_SLP_EMPTY
		OPOS_EPTR_TOOBIG
		OPOS_EPTR_BADFORMAT

**4-1-10 SetBitmap method**

Method	Result Code	ResultCodeExtended
SetBitmap	OPOS_SUCCESS	0
	OPOS_E_CLOSED	0
	OPOS_E_CLAIMED	0
	OPOS_E_NOTCLAIMED	0
	OPOS_E_DISABLED	0
	OPOS_E_ILLEGAL	0
	OPOS_E_OFFLINE	0
	OPOS_E_FAILURE	OPOS_EPTR_UNRECOVERABLE
		OPOS_EPTR_CUTTER
		OPOS_EPTR_MECHANICAL
		OPOS_EPTR_OVERHEAT
	OPOS_E_NOEXIST	0
	OPOS_E_EXTENDED	OPOS_EPTR_COVER_OPEN
		OPOS_EPTR_JRN_EMPTY
		OPOS_EPTR_REC_EMPTY
		OPOS_EPTR_SLP_EMPTY
		OPOS_EPTR_TOOBIG
		OPOS_EPTR_BADFORMAT

**4-1-11 SetLogo method**

Method	Result Code	ResultCodeExtended
SetLogo	OPOS_SUCCESS	0
	OPOS_E_CLOSED	0
	OPOS_E_CLAIMED	0
	OPOS_E_NOTCLAIMED	0
	OPOS_E_DISABLED	0
	OPOS_E_ILLEGAL	0

**4-1-12 TransactionPrint method**

Method	Result Code	ResultCodeExtended
TransactionPrint	OPOS_SUCCESS	0
	OPOS_E_CLOSED	0
	OPOS_E_CLAIMED	0
	OPOS_E_NOTCLAIMED	0
	OPOS_E_DISABLED	0
	OPOS_E_ILLEGAL	0
	OPOS_E_OFFLINE	0
	OPOS_E_FAILURE	OPOS_EPTR_UNRECOVERABLE
		OPOS_EPTR_CUTTER
		OPOS_EPTR_MECHANICAL
		OPOS_EPTR_OVERHEAT
	OPOS_E_NOEXIST	0
	OPOS_E_EXTENDED	OPOS_EPTR_COVER_OPEN
		OPOS_EPTR_JRN_EMPTY
		OPOS_EPTR_REC_EMPTY
		OPOS_EPTR_SLP_EMPTY

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# **Caution**

Some semiconductor devices are easily damaged by static electricity. You should turn the printer "OFF", before you connect or remove the cables on the rear side, in order to guard the printer against the static electricity. If the printer is damaged by the static electricity, you should turn the printer "OFF".



## Revision history

[illegible]