



Application Programming Guide

JavaPOS Driver

Rev. 4.02

<http://www.bixolon.com>

Introduction

This manual provides information on the BIXOLON JavaPOS driver as well as on the usage POS printer products offered by BIXOLON.

The following are terms contained in this manual.

- JDK : Java Development Kit
- JRE : Java Runtime Environment
- JavaPOS : Java Point of Sale
- JCL Utility : JavaPOS Configuration Loader Utility

[Reference Websites]

<http://www.javapos.com> : Java POS committee website

<http://java.com> : Official Java website

<http://www.bixolon.com> : BIXOLON printers website

We at BIXOLON maintain ongoing efforts to enhance and upgrade the functions and quality of all our products. In following, product specifications and/or user manual content may be changed without prior notice.

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1. Development environment

1-1 Communication Configuration

- Communication Configuration for serial interface
You will set communication configuration in JCL Utility.

Printer Model	Baud rate	Printer Type	etc
STP-103III	9600/19200/38400/57600/115200	Mono Thermal	
SRP-275 / SRP-275II SRP-275III	9600/19200	2 Color Dot	
SRP-350plus / SRP-350II SRP-350plusII / SRP-F310	9600/19200/38400/57600/115200	2 Color Thermal	
SRP-352plus SRP-352plusII / SRP-F312	9600/19200/38400/57600/115200	2 Color Thermal	203dpi
SRP-330 SRP-330II / SRP-340II SRP-350 / SRP-350III SRP-350plusIII / SRP-380 SRP-F310II / SRP-E300	9600/19200/38400/57600/115200	Mono Thermal	
SRP-332II / SRP-342II SRP-352III / SRP-352plusIII SRP-382 / SRP-S300 SRP-F312II / SRP-F313II SRP-E302 / SRP-Q200	9600/19200/38400/57600/115200	Mono Thermal	203dpi
SRP-383	9600/19200/38400/57600/115200	Mono Thermal	300dpi
SPP-R200 SPP-R200II / SPP-R200III SPP-R300 / SPP-R310 SPP-R400 / SPP-R410	9600/19200/38400/57600/115200	Mono Thermal	203dpi

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. Property / Method

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.)

2 Color Dot printer list	SRP-275, SRP-275II, SRP-275III
1 Color Thermal printer list	STP-103III, SRP-330, SRP-350, SRP-330II, SRP-332II, SRP-340II, SRP-342II, SRP-350III, SRP-352III, SRP-350plusIII, SRP-352plusIII, SRP-380, SRP-382, SRP-383, SRP-S300, SRP-F310II, SRP-F312II, SRP-F313II, 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
2 Color Thermal printer list	SRP-350plus, SRP-352plus, SRP-350II, SRP-350plusII, SRP-352plusII, SRP-F310, SRP-F312

2-2 Property Range / Default Value

2-2-1 Capability property setting value

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

Caution

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

2-2-2 Property default value / Range

1) List Property

Model	RecLineChars List	RecBarCode RotationList	FontTypeface List	RecBitmap List
STP-103III	"24,32"	"0"	"0"	0,L90,R90,180
SRP-275 / SRP-275II SRP-275III	"33,40"	"0"	"0"	0,L90,R90,180
SRP-330 SRP-330II / SRP-340II SRP-350 / SRP-350plus SRP-350II / SRP-350plusII SRP-350III SRP-350plusIII / SRP-380 SRP-F310 / SRP-F310II SRP-Q300 / SRP-QE300 SRP-E300	"42,56"	"0"	"0"	0,L90,R90,180
SRP-332II / SRP-342II SRP-352III / SRP-352plus SRP-352plusII SRP-352plusIII SRP-382 / SRP-S300 SRP-F312 / SRP-F312II SRP-Q302 / SRP-QE302 SRP-E302	"48,64"	"0"	"0"	0,L90,R90,180
SRP-383	"48,72"	"0"	"0"	0,L90,R90,180
SRP-F313II	"53,71"	"0"	"0"	0,L90,R90,180
SRP-Q200	"36,48"	"0"	"0"	0,L90,R90,180
SPP-R200 / SPP-R200II SPP-R200III SPP-R210 / SPP-R220	"32,42"	"0"	"0"	0,L90,R90,180
SPP-R300 / SPP-R310	"48,64"	"0"	"0"	0,L90,R90,180
SPP-R400 / SPP-R410	"69,92"	"0"	"0"	0,L90,R90,180

2) CharacterSetList Property

Model	Value
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
STP-103III / SRP-350	437,850,1(Katakana),860,863,865,858,255
SRP-330 SRP-350plus / 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-340II / SRP-342II SRP-350II SRP-350plusII / SRP-352plusII SRP-350III / SRP-352III SRP-350plusIII / SRP-352plusIII SRP-F310 / SRP-F312 SRP-F310II / SRP-F312II SRP-F313II / SRP-S300 SRP-QE300 / SRP-QE302 SRP-E300 / SRP-E302 SPP-R200 SPP-R200II / SPP-R200III SPP-R210 / SPP-R220 SPP-R300 / SPP-R310 SPP-R400 / SPP-R410 SRP-Q200	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
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), 1251,737,775,31(Thai14),1255,34(Thai11),874, 35(Thai18),855,857,928,39(Thai16),1256,1258, 42(KHMER),1250,255,949,932,950,936

3) Receipt Width and Height Property

Model	RecLineHeight	RecLineWidth	RecLinePaperCut
STP-103III	24	342	5
SRP-275 SRP-275II / SRP-275III	9	512	9
SRP-330 / SRP-330II / SRP-340II SRP-350 / SRP-350plus SRP-350II / SRP-350plusII SRP-350III / SRP-350plusIII SRP-380 SRP-F310 / SRP-F310II SRP-Q300 / SRP-QE300 SRP-E300	24	512	5
SRP-332II / SRP-342II SRP-352plus / SRP-352plusII SRP-352III / SRP-352plusIII SRP-382 / SRP-S300 SRP-F312 / SRP-F312II SRP-Q302 / SRP-QE302 SRP-E302	24	576	5
SRP-383	34	864	5
SRP-F313II	24	640	5
SRP-Q200	24	432	3
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

4) RecLineSpacing Property

Property	Range		
	Default	Max	Min
RecLineSpacing	16	127	0

2-2-3 POSPrinter Method

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	X
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
[#]IF	O (value range: 0~9999)
[#]uF Base Pitch [inch]	O
[#]rF Maximum [inch]	X
#E	X
#R	X
#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

2-2-5 Color bitmap printing support

- BIXOLON JavaPOS 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.

3. Extended Functions

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

3-1 DirectIO Method / Commands Description

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

Command	Constantvalue	Description
PTR_DI_OUTPUT	0	Output defined pString data
PTR_DI_INTERNATIONAL_CHAR	1	International charset define
PTR_DI_MOBILE_MSR_READ	2	Read the MSR data
PTR_DI_MOBILE_MSR_READ_TRACK1	3	Get the Track 1 information from MSR data
PTR_DI_MOBILE_MSR_READ_TRACK2	4	Get the Track 2 information from MSR data
PTR_DI_MOBILE_MSR_READ_TRACK3	5	Get the Track 3 information from MSR data
PTR_DI_MOBILE_MSR_READ_CLEAR	6	Clear the MSR Data

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
	JPOS_SUCCESS	0
	JPOS_E_CLOSED	0
	JPOS_E_CLAIMED	0
	JPOS_E_NOTCLAIMED	0
	JPOS_E_DISABLED	0
	JPOS_E_BUSY	0
	JPOS_E_ILLEGAL	0
	JPOS_E_OFFLINE	0
	JPOS_E_FAILURE	0

3-2-2 International charset setting

Argument	Command	PTR_DI_INTERNATIONAL_CHAR
	pData	pre-defined constant 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_SPAIN1: 7 PRN_DI_CHAR_JAPAN: 8 PRN_DI_CHAR_NORWAY: 9 PRN_DI_CHAR_DENMARK2: 10
	pString	Null
Description	Sets International character set. If CharSet property value is changed, International character set will be reset.	
Return	Result Code	ResultCodeExtended
	JPOS_SUCCESS	0
	JPOS_E_CLOSED	0
	JPOS_E_CLAIMED	0
	JPOS_E_NOTCLAIMED	0
	JPOS_E_DISABLED	0
	JPOS_E_BUSY	0
	JPOS_E_ILLEGAL	0
	JPOS_E_OFFLINE	0
	JPOS_E_FAILURE	0

3-2-3 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
	JPOS_SUCCESS	0
	JPOS_E_ILLEGAL	0

3-2-4 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
	JPOS_SUCCESS	0
	JPOS_E_ILLEGAL	0

3-2-5 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
	JPOS_SUCCESS	0
	JPOS_E_ILLEGAL	0

3-3 DirectIOEvent Event

- 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 Claim method

Method	Result Code	ResultCodeExtended
Claim	JPOS_SUCCESS	0
	JPOS_E_ILLEGAL	JPOS_EPTR_UNRECOVERABLE
		JPOS_EPTR_MECHANICAL
		JPOS_EPTR_CUTTER
		JPOS_EPTR_OVERHEAT
		JPOS_EPTR_REC_EMPTY
		JPOS_EPTR_JRN_EMPTY

4-1-2 CheckHealth method

Method	Result Code	ResultCodeExtended
CheckHealth	JPOS_SUCCESS	0
	JPOS_E_CLOSED	0
	JPOS_E_CLAIMED	0
	JPOS_E_DISABLED	0
	JPOS_E_ILLEGAL	0
	JPOS_E_OFFLINE	0
	JPOS_E_FAILURE	JPOS_EPTR_UNRECOVERABLE
		JPOS_EPTR_CUTTER
		JPOS_EPTR_MECHANICAL
		JPOS_EPTR_OVERHEAT

4-1-3 ClearOutput method

Method	Result Code	ResultCodeExtended
ClearOutput	JPOS_SUCCESS	0
	JPOS_E_CLOSED	0
	JPOS_E_CLAIMED	0
	JPOS_E_NOTCLAIMED	0

4-1-4 DirectIO method

Method	Result Code	ResultCodeExtended
DirectIO	JPOS_SUCCESS	0
	JPOS_E_CLOSED	0
	JPOS_E_CLAIMED	0
	JPOS_E_NOTCLAIMED	0
	JPOS_E_DISABLED	0
	JPOS_E_ILLEGAL	0
	JPOS_E_OFFLINE	0
	JPOS_E_FAILURE	JPOS_EPTR_UNRECOVERABLE
		JPOS_EPTR_CUTTER
		JPOS_EPTR_MECHANICAL
		JPOS_EPTR_OVERHEAT
	JPOS_E_EXTENDED	JPOS_EPTR_COVER_OPEN
		JPOS_EPTR_JRN_EMPTY
		JPOS_EPTR_REC_EMPTY

4-1-5 PrintNormal method

Method	Result Code	ResultCodeExtended
PrintNormal	JPOS_SUCCESS	0
	JPOS_E_CLOSED	0
	JPOS_E_CLAIMED	0
	JPOS_E_NOTCLAIMED	0
	JPOS_E_DISABLED	0
	JPOS_E_ILLEGAL	0
	JPOS_E_OFFLINE	0
	JPOS_E_FAILURE	JPOS_EPTR_UNRECOVERABLE
		JPOS_EPTR_CUTTER
		JPOS_EPTR_MECHANICAL
		JPOS_EPTR_OVERHEAT
	JPOS_E_EXTENDED	JPOS_EPTR_COVER_OPEN
		JPOS_EPTR_JRN_EMPTY
		JPOS_EPTR_REC_EMPTY

4-1-6 PrintImmediate method

Method	Result Code	ResultCodeExtended
PrintImmediate	JPOS_SUCCESS	0
	JPOS_E_CLOSED	0
	JPOS_E_CLAIMED	0
	JPOS_E_NOTCLAIMED	0
	JPOS_E_DISABLED	0
	JPOS_E_ILLEGAL	0
	JPOS_E_OFFLINE	0
	JPOS_E_FAILURE	JPOS_EPTR_UNRECOVERABLE
		JPOS_EPTR_CUTTER
		JPOS_EPTR_MECHANICAL
		JPOS_EPTR_OVERHEAT
	JPOS_E_EXTENDED	JPOS_EPTR_COVER_OPEN
		JPOS_EPTR_JRN_EMPTY
		JPOS_EPTR_REC_EMPTY

4-1-7 CutPaper method

Method	Result Code	ResultCodeExtended
CutPaper	JPOS_SUCCESS	0
	JPOS_E_CLOSED	0
	JPOS_E_CLAIMED	0
	JPOS_E_NOTCLAIMED	0
	JPOS_E_DISABLED	0
	JPOS_E_ILLEGAL	0
	JPOS_E_OFFLINE	0
	JPOS_E_FAILURE	JPOS_EPTR_UNRECOVERABLE
		JPOS_EPTR_CUTTER
		JPOS_EPTR_MECHANICAL
		JPOS_EPTR_OVERHEAT
	JPOS_E_EXTENDED	JPOS_EPTR_COVER_OPEN
		JPOS_EPTR_JRN_EMPTY
		JPOS_EPTR_REC_EMPTY

4-1-8 RotatePrint method

Method	Result Code	ResultCodeExtended
RotatePrint	JPOS_SUCCESS	0
	JPOS_E_CLOSED	0
	JPOS_E_CLAIMED	0
	JPOS_E_NOTCLAIMED	0
	JPOS_E_DISABLED	0
	JPOS_E_ILLEGAL	0
	JPOS_E_OFFLINE	0
	JPOS_E_FAILURE	JPOS_EPTR_UNRECOVERABLE
		JPOS_EPTR_CUTTER
		JPOS_EPTR_MECHANICAL
		JPOS_EPTR_OVERHEAT
	JPOS_E_EXTENDED	JPOS_EPTR_COVER_OPEN
		JPOS_EPTR_JRN_EMPTY
		JPOS_EPTR_REC_EMPTY

4-1-9 PrintBitmap method

Method	Result Code	ResultCodeExtended
PrintBitmap	JPOS_SUCCESS	0
	JPOS_E_CLOSED	0
	JPOS_E_CLAIMED	0
	JPOS_E_NOTCLAIMED	0
	JPOS_E_DISABLED	0
	JPOS_E_ILLEGAL	0
	JPOS_E_OFFLINE	0
	JPOS_E_FAILURE	JPOS_EPTR_UNRECOVERABLE
		JPOS_EPTR_CUTTER
		JPOS_EPTR_MECHANICAL
		JPOS_EPTR_OVERHEAT
	JPOS_E_NOEXIST	0
	JPOS_E_EXTENDED	JPOS_EPTR_COVER_OPEN
		JPOS_EPTR_JRN_EMPTY
		JPOS_EPTR_REC_EMPTY
		JPOS_EPTR_SLP_EMPTY
		JPOS_EPTR_TOOBIG
		JPOS_EPTR_BADFORMAT

4-1-10 SetBitmap method

Method	Result Code	ResultCodeExtended
SetBitmap	JPOS_SUCCESS	0
	JPOS_E_CLOSED	0
	JPOS_E_CLAIMED	0
	JPOS_E_NOTCLAIMED	0
	JPOS_E_DISABLED	0
	JPOS_E_ILLEGAL	0
	JPOS_E_OFFLINE	0
	JPOS_E_FAILURE	JPOS_EPTR_UNRECOVERABLE
		JPOS_EPTR_CUTTER
		JPOS_EPTR_MECHANICAL
		JPOS_EPTR_OVERHEAT
	JPOS_E_NOEXIST	0
	JPOS_E_EXTENDED	JPOS_EPTR_COVER_OPEN
		JPOS_EPTR_JRN_EMPTY
		JPOS_EPTR_REC_EMPTY
		JPOS_EPTR_SLP_EMPTY
		JPOS_EPTR_TOOBIG
		JPOS_EPTR_BADFORMAT

4-1-11 SetLogo method

Method	Result Code	ResultCodeExtended
SetLogo	JPOS_SUCCESS	0
	JPOS_E_CLOSED	0
	JPOS_E_CLAIMED	0
	JPOS_E_NOTCLAIMED	0
	JPOS_E_DISABLED	0
	JPOS_E_ILLEGAL	0

4-1-12 TransactionPrint method

Method	Result Code	ResultCodeExtended
TransactionPrint	JPOS_SUCCESS	0
	JPOS_E_CLOSED	0
	JPOS_E_CLAIMED	0
	JPOS_E_NOTCLAIMED	0
	JPOS_E_DISABLED	0
	JPOS_E_ILLEGAL	0
	JPOS_E_OFFLINE	0
	JPOS_E_FAILURE	JPOS_EPTR_UNRECOVERABLE
		JPOS_EPTR_CUTTER
		JPOS_EPTR_MECHANICAL
		JPOS_EPTR_OVERHEAT
	JPOS_E_NOEXIST	0
	JPOS_E_EXTENDED	JPOS_EPTR_COVER_OPEN
		JPOS_EPTR_JRN_EMPTY
		JPOS_EPTR_REC_EMPTY
		JPOS_EPTR_SLP_EMPTY

5. Precautions

- The BIXOLON JavaPOS software package that is installed supports devices offered by BIXOLON. Normal operation is not guaranteed when used with other devices.
- Errors in operation may occur if installed with another JavaPOS Driver.
- If an unknown issue occurs, either contact the dealer or submit an inquiry at the website below for fast response. www.bixolon.com

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BIXOLON Co., Ltd. maintains ongoing efforts to enhance and upgrade the functions and quality of all our products.

In the following, product specifications and/or user manual content may be changed without prior notice.

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]