



# **Application Programming Guide JavaPOS Driver**

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**Rev. 1.04**

**SPP-R200**

**SPP-R200II**

**SPP-R200III**

**SPP-R210**

**SPP-R220**

**SPP-R300**

**SPP-R310**

**SPP-R400**

## ■ Table of Contents

<b>1. Manual Information .....</b>	<b>3</b>
<b>2. Development environment.....</b>	<b>4</b>
2-1 Communication Configuration.....	4
<b>3. Property / Method.....</b>	<b>5</b>
3-1 MSR Type.....	5
3-2 Property Range / Default Value.....	5
3-2-1 Capability property setting value.....	5
3-2-2 MSR Method .....	5
<b>4. Error Information.....</b>	<b>6</b>
4-1 ResultCode List.....	6
<b>5. Precautions .....</b>	<b>7</b>

## **1. Manual Information**

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

The following are terms contained in this manual.

- JDK : Java Development Kit
- JRE : Java Runtime Enviroment
- 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.

## 2. Development environment

### 2-1 Communication Configuration

#### 1) Communication Configuration for serial interface

You will set communication configuration in BIXOLON JavaPOS Configuration Utility.

Printer Model	Baud Rate	Product Type
SPP-R200	9600/19200/38400/57600/115200	Optional built-in Type
SPP-R200II	9600/19200/38400/57600/115200	Optional built-in Type
SPP-R200III	9600/19200/38400/57600/115200	Optional built-in Type
SPP-R210	Not supported	Optional built-in Type
SPP-R220	Not supported	Optional built-in Type
SPP-R300	9600/19200/38400/57600/115200	Optional built-in Type
SPP-R310	9600/19200/38400/57600/115200	Optional built-in Type
SPP-R400	9600/19200/38400/57600/115200	Optional built-in Type

\* Check the default communication setting. For more details refer to the user manual included in the printer package.

### 3. Property / Method

#### 3-1 MSR Type

Property value will be determined by the MSR type, as shown in the below table.

#### 3-2 Property Range / Default Value

##### 3-2-1 Capability property setting value

Capability Property	SPP-R200_MSR / SPP-R200II_MSR SPP-R200III_MSR / SPP-R210_MSR SPP-R220_MSR SPP-R300_MSR / SPP-R310_MSR SPP-R400_MSR
CapCompareFirmwareVersion	FALSE
CapPowerReporting	TRUE
CapStatisticsReporting	FALSE
CapUpdateFirmware	FALSE
CapUpdateStatistics	FALSE
CapCardAuthentication	FALSE
CapDataEncryption	FALSE
CapDeviceAuthentication	FALSE
CapISO	TRUE
CapJISOne	FALSE
CapJISTwo	FALSE
CapTrackDataMasking	FALSE
CapTransmitSentinels	TRUE
CapWritableTracks	FALSE

##### 3-2-2 MSR Method

Method	SPP-R200_MSR / SPP-R200II_MSR SPP-R200III_MSR / SPP-R210_MSR SPP-R220_MSR SPP-R300_MSR / SPP-R310_MSR SPP-R400_MSR
authenticateDevice	X
deauthenticateDevice	X
retrieveCardProperty	X
retrieveDeviceAuthenticationData	X
updateKey	X
writeTracks	X

O: Supported    X: Not supported

## 4. Error Information

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

### 4-1 ResultCode List

#### ClaimDevice

Method	Result Code	ResultCodeExtended
ClaimDevice	JPOS_E_ILLEGAL	0

#### CheckHealth

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_OFFLINE	0

#### ClearOutput

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

## **5. Precautions**

- 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) BIXOLON will not be responsible for any consequences resulting from the use of any information in this documentation.
- 6) BIXOLON JavaPOS driver is designed to operate properly with the latest firmware of each model. If the printer doesn't operate properly, please check the firmware version and contact the manufacturer.