

Software Manual Net Configuration Tool

Rev. 4.08

http://www.bixolon.com

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1. About this manual

This Net Configuration Tool Manual explains how to install and configure the Net Configuration Tool on Windows OS on PC.

It is advisable to read the contents of this manual carefully before using "Net Configuration Tool" utility for the first time.

2. Supported Operating Systems

The following operating systems are supported:

Microsoft® Windows XP SP3 (32bit) Microsoft® Windows XP SP1 or later (64bit) Microsoft Windows Server 2003 SP1 or later (32bit/64bit) Microsoft Windows VISTA (32bit/64bit) Microsoft Windows Server 2008 (32bit/64bit) Microsoft Windows Server 2008R2 (64bit) Microsoft Windows 7 (32bit/64bit) Microsoft Windows 8 (32bit/64bit) Microsoft Windows 8 (32bit/64bit) Microsoft Windows 10 (32bit/64bit)

3. Supported Printers

"Net Configuration Tool" is available for the following BIXOLON printers.

SPP-R20011 SPP-R310 SPP-L3000	SPP-R200III SPP-R318 SPP-L310	SPP-R210 SPP-R400 SPP-L410	SPP-R220 SPP-R410	SPP-R300 SPP-R418
SRP-350plus SRP-352III SRP-332II SRP-F312 SRP-Q300 SRP-275II SRP-E300	SRP-350II SRP-350plusIII SRP-380 SRP-F310II SRP-Q302 SRP-275III SRP-E302	SRP-350plusII SRP-352plusIII SRP-382 SRP-F312II SRP-QE300 SRP-770II	SRP-352plusII SRP-330 SRP-383 SRP-F313II SRP-QE302 SRP-770III	SRP-350III SRP-330II SRP-F310 SRP-S300 SRP-Q200 SRP-E770III
SLP-T400 SLP-TX423 SLP-DX220 SLP-DL413	SLP-T403 SLP-TX220 SLP-DX223	SLP-TX400 SLP-TX223 SLP-D220	SLP-TX403 SLP-DX420 SLP-D223	SLP-TX420 SLP-DX423 SLP-DL410
XT5-40	XT5-43	XT5-46		

Note	The models below have a dedicated setting utility able to change network information. Use for that utility. BGT-100P, BGT-102P, SRP-Q300H, SRP-Q302H, IFJ-BGT (B-gate interface type)
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4. Before Startup

The Net Configuration Tool can be found in the bundled CD and the latest version is available for download at our website (<u>www.bixolon.com</u>).

5. Installation & Uninstallation

5-1 Installation on Windows XP / Server 2003

- 1) Double-click the file "Software_NetConfigurationTool_V3.x.x.exe".
- 2) Follow the instructions on the screen to complete the installation process.

5-2 Installation on Windows Visa / Server 2008 / 7 / 8 / Server 2012 / 10

- Double-click Net Configuration Setup_Vx.x.x.exe.
 Administrator privilege may be required to run the installation file.
- 2) Follow the instructions on the screen to complete the installation process.

5-3 Uninstallation

- 1) Open "Add or Remove Programs" or "Remove Programs" in the Control Panel.
 - * XP or Server 2003: Control Panel Add or Remove Programs
 - * Vista or higher OS: Control Panel Remove Programs
- 2) Select "Net Configuration Tool" and click the "Remove" button to uninstall the Net Configuration Tool on your PC.

6. Configuration

To configure the **LAN settings**, the Ethernet cable should be connected to the printer while the host (PC) and printer are connected to the same network. For configuring the **WLAN settings**, the host and printer should be connected to the same Wi-Fi Access Point or connected to each other using Wi-Fi Direct (P2P).

Note

"Connected to the same network" means that the host and printer are connected to the same router or Wi-Fi Access Point.

To configure the **advanced settings of the printer's wireless network** (all configurable WLAN settings), the printer must be connected through a serial port cable or USB cable.

ingura	tion Tool			BIX
LAN/1	WLAN 🗾 🗾 WLA	N (Advanced)		
AN/WLA	AN Configuration —			
<u> </u>	Configuration	Launch Brow	/ser 😥	Refresh
#	IP Address	Mac Address	System Name	Туре
1 2 3	192, 168, 100, 101 192, 168, 1, 10 192, 168, 192, 123	00, 15, 94, C0, A0, 07 00, 15, 94, C0, FE, 16 00, 15, 94, 00, 00, 00		Wired Wired Wired
4	192, 168, 0, 59	CC, 7A, 30, 02, 00, C9	-	Wireles
Printer	Network Informatio			
	Address:	CC, 7A, 30, 02, 00, C9		
	dress:	192, 168, 0, 59 (DHCP))	
Subne	et Mask:	255, 255, 255, 0		
Gatev	vay:	192, 168, 0, 1		
Port N	lumber:	9100		
	Language		×	Close

6-1 LAN/WLAN Basic Configuration

The **LAN/WLAN tab** allows you to search printers connected to the same LAN/WLAN network and configure the printer's network settings required to enable communication between the printer and host. You can also configure the printer's network settings using a web browser.

The following settings can be configured using the Net Configuration Tool. For WLAN, there are other settings beyond those listed below and the available WLAN settings may vary depending on the functions supported by the printer's WLAN module.

Settings	Description		
IP Address Assignment Method	Assign IP address manually or automatically through DHCP. If the network does not support DHCP, you must assign the IP address manually.		
IP Address	This information is required for LAN/WLAN		
Subnet Mask	communication and a unique IP address must be		
Gateway	entered. The communication port is set to 9100 by		
Port Number	default. You have to change the port number to use another port.		
Inactivity Time	If there is no communication between the host and printer during the set period of time, the connection will be closed automatically. The value can be set between 0 and 3600 seconds (1 hour). If set to 0, this function is disabled.		
System Name	A string that indicates the WLAN printer. A maximum of 64 characters can be entered.		

6-1-1 Configuration of LAN/WLAN Settings Using the Configuration Button

- 1. Check to make sure the printer is switched on.
- 2. Click the Search button to search for printers on the network



- 3. If the Security Alert message pops up, click either "Unblock" or "Allow access".
- 4. From the search results, click the MAC address (Media Access Control Address) or IP address (Internet Protocol Address) of the printer you want to configure.
- 5. Click either Configuration button or double-click the item you want to configure.

LAN/WLAN 🗾 WLAN (Advanced)					
- LAI	V/WLAN Configuration				
C C	Configuration) 🤶 Launch Brows	ser 😥 Ref	fresh	
#	IP Address	Mac Address	System Name	Туре	
1	192, 168, 100, 101	00, 15, 94, C0, A0, 07	-	Wired	
2	192, 168, 192, 123	00, 15, 94, 00, 00, 00	-	Wired	
3	192, 168, 100, 153	00, 15, 94, 60, 4F, 31	_	Wired	

6. Configure the network settings of the printer and click the Save button.

IP Address:	192 . 168 . 100 . 153
Subnet Mask:	255 , 255 , 255 , 0
GateWay:	192 . 168 . 100 . 254
Port Number: 9100	[0 - 32767]

Note If DHCP server is not supported, you have to assign IP address manually. Contact your network administrator for the assignable IP address.

When the network settings are configured, it will automatically search for printers connected to the network.

7. Use a ping test to check the connection with the printer.

Note Ping test command: ping <printer's IP address>

Administrator: C:\Windows\system32\cmd.exe	x
Microsoft Windows [Version 6.1.7600] Copyright (c) 2009 Microsoft Corporation. All rights reserved.	* E
C:\Users\Matthe ping 192.168.1.1	
Pinging 192.168.1.1 with 32 bytes of data:	
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64 Reply from 192.168.1.1: bytes=32 time<1ms TTL=64 Reply from 192.168.1.1: bytes=32 time<1ms TTL=64 Reply from 192.168.1.1: bytes=32 time<1ms TTL=64	
Ping statistics for 192.168.1.1: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = Oms, Maximum = Oms, Average = Oms	

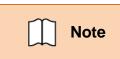
6-1-2 Configuration of LAN/WLAN Settings Using the Launch Browser Button

- 1. Check to make sure the printer is switched on.
- 2. Click the Search button to search for printers on the network



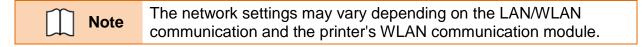
- 3. If the Security Alert message pops up, click either "Unblock" or "Allow access".
- 4. From the search results, click the MAC address (Media Access Control Address) or IP address (Internet Protocol Address) of the printer you want to configure.
- 5. Click the Launch Brower button.

	V/WLAN 🗾 🏂 WLAI	N (Advanced)		
LAN/W	/LAN Configuration —		_	
Ê	Configuration	Launch Brows	ser 😥 Re	efresh
#	IP Address	Mac Address	System Name	Туре
1	192, 168, 100, 101	00, 15, 94, C0, A0, 07	-	Wired
2	192, 168, 192, 123	00, 15, 94, 00, 00, 00	-	Wired
3	192, 168, 100, 153	00, 15, 94, 60, 4F, 31	_	Wired



If the printer failed to get an IP address from DHCP Server, or invalid IP address was assigned by users, you cannot access the web page for network configuration from the printer.

6. Check and configure the LAN/WLAN network settings of the printer on the web browser.



- 7. You may have to login to change the WLAN settings on the web browser. Login using the ID and password. The default ID and passwords are as follows:
 - User ID: "admin"
 - Password: "password"

Home	Sign in with your
öystem	
Protocol	
Network	
Authentication Wizard	ID admin
	Password

8. Click either Apply or Submit to save the changes.

WLAN Configuration		
Home	Network Information	
System Protocol	Function	Set-up
Network Authentication	Network Mode	InfraNetwork V
Wizard	SSID	BXLSW
	Inactivity Time	0
	IP Assignment Method	Automatic Allocation(DHCP) V
	IP Address	192 168 0 164
	Subnet Mask	255 255 0
	Gateway	192 168 0 1

<u>System</u> Wireless	System Please use the left navigation to property configure and maintain your configuration.		
Network	Firmware	38.47	
Traffic	MAC Address	84:72:07:19:b0:2b	
Security	Operation Mode	AP	
Etc	SSID	PRINTER_19B02B	
	Channel	6 [2437 MHz]	
	IP Address	192.168.1.1	
	Subnet Mask	255.255.255.0	
	Gateway	192.168.1.2	

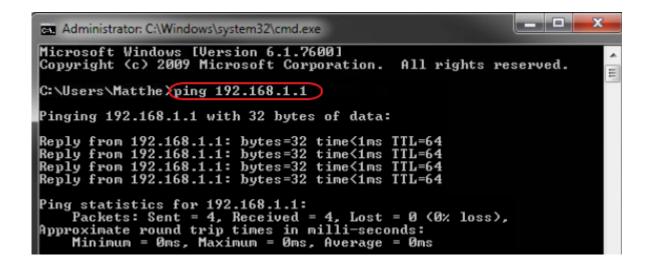
<Configurable WLAN Settings on Web Browser>

F/Wver.	2,2
MAC	00:15:94:51:16:70
Source IP	192,168,100,192
Subnet Mask	255,255,255,0
Gateway IP	192,168,100,254
Local Port	9100
Inactivity Time	0
DHCP mode	

- < Configurable LAN Settings on Web Browser>
- 9. Use a ping test to check the connection with the printer.

```
Note
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Ping test command: ping <printer's IP address>



6-2 WLAN Advanced Configuration

Note

The WLAN (Advanced) tab allows you to configure the printer's WLAN settings by connecting to the printer with a cable (serial or USB).

WLAN setting for printers with a WiFi dongle can only be configured by Web Browser. Mobile printers support **either serial or USB connection**, or **both of them**. Using the wired connection, network information can be also configured.

_ 2
2
_ 2
2

The following WLAN settings can be configured. Tab 1 includes the settings frequently configured while Tab 2 includes the rest of the settings.

NetConfiguration Tool	BIXOLO	N
LAN/WLAN 🗾 WLAN (Advanced)		
WLAN Configuration	1 2	
WLAN Basic Configuration		

WLAN Basic Configuration	Description
SSID (Service Set Identifier)	A unique identifier that is included in all data header sent via WLAN. A maximum of 32 characters can be entered.
WLAN Mode	 Choose one of the following WLAN connection methods: Infrastructure Ad-Hoc Wi-Fi Direct Soft AP(Access Point) ※ Certain models do not support Wi-Fi Direct and Soft AP.
Ad-Hoc Channel	Choose between 1 and 14.
Wi-Fi Direct Channel	Choose 1, 6 or 11.
Wi-Fi Direct PIN Code	Enter 4 or 8 digit number.

WLAN Security Configuration	Description
Authentication	Choose one of the following authentication methods: - Open System - Shared Key - WPA-PSK - WPA2-PSK - WPA-EAP - WPA2-EAP
Encryption	Choose one of the following encryption methods: - None - WEP-64 - WEP-128 - TKIP - AES - AES + TKIP
WEP-64 Key	Enter 5-letter key or 10-digit hexadecimal number. More Constant
WEP-128 Key	 Enter 13-letter key or 26-digit hexadecimal number. Only characters that can be entered on the ASCII code table are allowed.
PSK Key	 Enter at least 8-letter key. Only characters that can be entered on the ASCII code table are allowed. A maximum of 63 characters can be entered.
EAP Mode	Choose one of the following EAP Modes: - EAP-PEAP - EAP-TTLS - EAP-TLS - EAP-LEAP - EAP-FAST
EAP ID	Enter a maximum of 32 characters for EAP ID.
EAP Password	Enter a maximum of 32 characters for EAP password.

IP Address Configuration	Description
IP Address Assignment	Assign the IP address manually or automatically through DHCP. If the network does not support DHCP, you have to assign IP address manually.
IP Address	This information is required for LAN/WLAN
Subnet mask	communication and unique IP address must be entered.
Gateway	The communication port is set to 9100 by default. You
Port Number	have to change the port number to use another port.

System Configuration		Description
System Name	 This string indicates the WLAN printer. A maximum of 64 characters can be entered. * This string may not be shown in certain printers. 	
User ID	User ID and Password are used to access a printer from a	
User Password	web browser. A maximum of 32 characters can be entered.	
Inactivity Time	If there is no communication between the host and printer during the set period of time, the connection will be closed automatically. The value can be set between 0 and 3600 seconds (1 hour) by a unit of second. If set to 0, this function is disabled.	
	2.4GHz	2.4GHz is used for frequency.
	5.0GHz	5.0GHz is used for frequency.
Wireless Frequency	2.4GHz/5.0GHz	Both 2.4GHz/5.0GHz are used.
	(Priority: 2.4GHz)	(2.4GHz has a higher priority.)
	2.4GHz/5.0GHz	Both 2.4GHz/5.0GHz are used.
	(Priority: 5.0GHz)	(5.0GHz has a higher priority.)
	You may not be ab printers.	le to choose frequency in certain

Protocol	Description
HTTPS	 HTTPS (Hypertext Transfer Protocol over Secure Socket Layer) is a security enhanced version of HTTP. You can configure WLAN settings using the HTTPS protocol on a web browser. This may not be supported by certain printers.
TELNET	Using the TELNET protocol, you can configure WLAN settings by TELNET interaction.
FTP	Using the FTP protocol, you can configure WLAN settings by editing the file related to WLAN information. This may not be supported by certain printers.
SNMP	 MIB-2 (management information base-2) information can be read and written. This may not be supported by certain printers.

Net Configuration Tool

SNMP	Description
SNMP Community Name (Read)	This string indicates the name for trap reading.
SNMP Community Name (Write)	This string indicates the name for trap writing.
SNMP Trap Community	This string indicates the name for trap community.
SNMP Trap IP Address	This string indicates IP address for trap Server.

Certificate Upload	Description
Certificate Type	Select the type of certificate to download to the printer. - CA (Certificate Authority) - Client Key - Client PEM
Certificate File	Start downloading by selecting the type of certificate to download to the printer.

Certificate Name	Description
CA	A string representing the name of each downloaded certificate.
Client Key	Each certificate name is a file name used to download the
Client PEM	certificate.

6-3 Configuration

1. Check to make sure the printer is switched on. Connect the host to the printer using a serial or USB cable.

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Note
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If another device or application is using the port the printer is going to use, connection may fail. Therefore, make sure they use other ports temporarily.

- 2. Click the Connect button in the WLAN (Advanced) tab.
- 3. Choose the Interface Type on the Device Connection window and click the Connect button.

When using a serial cable, check the serial communication settings on the printer and change them to the settings as shown in the image. It takes up to 15 seconds to receive WLAN settings on the printer.

evice Connect	ion			
Interface Type				
O USB		l	Connect	
© SERIAL			Cancel	
-Communication Se	tting			
Port:	COM1:	7		
Baud Rate:	115200	-		
Data Bits:	8	-		
Parity:	None	-		
Stop Bits:	1	-		
Flow Control:	Hardware			

<Serial Interface>

Device Connection		
Interface Type		
⊙ USB		Connect
O SERIAL		Cancel
Communication Setting		
Port:	\\?\usb#vid_1504&pid_005b#000000	•

<USB Interface>

- 4. Check the WLAN settings imported from the printer and make necessary changes according to your operating environment.
- 5. Click the Save button to apply the WLAN settings. The message will show up on the screen when the WLAN settings are changed successfully.

System Configuration	
System Name	SPP-L3000
User ID	admin
User Password	*****
Inactivity Time (Sec,)	10
Wireless frequency	2,4GHz/5GHz (Priority: 2,4GHz)
Save 🛛 🞻	🗸 Disconnect
Save as a file	File Open

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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

Rev.	Date	Page	Description
4.00	15.01.17	-	New
4.01	07.08.17	4	New document style applied. Information for the supported Printer models added.
4.02	22.11.17	4,14	Information for the supported Printer models updated.
4.03	24.11.17	14,19	Screen shot images are changed.
4.04	04.01.18	4,10	Information for the supported Printer models added. Information about network setting using web browser added.
4.05	12.03.18	4,6,14	Information for the supported Printer models added. Screen shot image is changed.
4.06	16.05.18	4	Information for the supported Printer models modified.
4.07	28.08.18	4,9,10,12	Information for the supported Printer models modified. Some description moved into "note" tables.
4.08	18.01.19	4,13,16,18	Information for the supported Printer models modified. Information about factory reset and certificate name added.
	<u> </u>		