BIXOLON

Software Manual Net Configuration Tool

Ver. 4.18

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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".

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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 7 (32bit/64bit)

Microsoft Windows 8 (32bit/64bit)

Microsoft Windows 8.1 (32bit/64bit)

Microsoft Windows 10 (32bit/64bit)

Microsoft Windows Server 2008 (32bit/64bit)

Microsoft Windows Server 2008R2 (64bit)

Microsoft Windows Server 2012/2012R2 (64bit)

Microsoft Windows Server 2016 (64bit)

Microsoft Windows Server 2019 (64bit)

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3. Supported Printers

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

SPP-R200II 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-350III SRP-330II SRP-F310 SRP-S200 SRP-Q300 SRP-Q300 SRP-275II SRP-E300	SRP-352plus SRP-352III SRP-332II SRP-F312 SRP-S300 SRP-Q302 SRP-275III SRP-E302	SRP-350II SRP-350plusIII SRP-380 SRP-F310II SRP-S320 SRP-QE300 SRP-770II SRP-B300	SRP-350plusII SRP-352plusIII SRP-382 SRP-F312II SRP-S3000 SRP-QE302 SRP-770III	SRP-352plusII SRP-330 SRP-383 SRP-F313II SRP-S3000_LABEL SRP-Q200 SRP-E770III
SLP-T400 SLP-TX423 SLP-DX220 SLP-DL413	SLP-T403 SLP-TX220 SLP-DX223	SLP-TX400 SLP-TX223 SLP-D220 XT5-46	SLP-TX403 SLP-DX420 SLP-D223 XD5-40d	SLP-TX420 SLP-DX423 SLP-DL410 XD5-43d
XT5-40 XD5-40t XL5-43CT	XT5-43 XD5-43t XM7-20	XD3-40d XM7-40	XD3-40t XT3-40	XD5-43d XL5-40CT XT3-43



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, SRP-S320Hi

(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 (www.bixolon.com).

5. Installation & Uninstallation

5-1 Installation

- 1) 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.

5-2 Uninstallation

- 1) Open "Add or Remove Programs" or "Remove Programs" in the Control Panel.
 - XP or Server 2003: Control Panel Add or Remove Programs
 - W 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.

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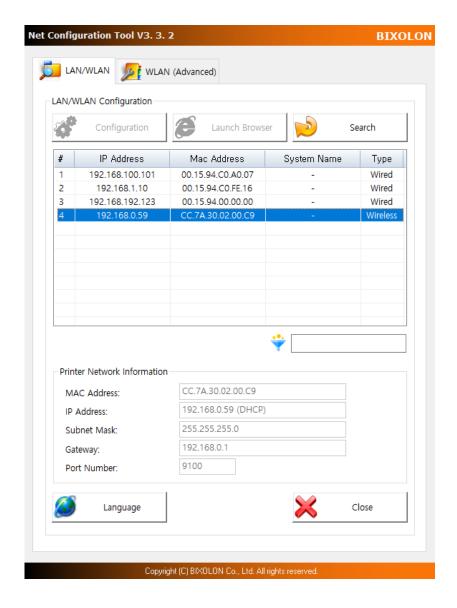
6. Configuration

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).



"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.



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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.

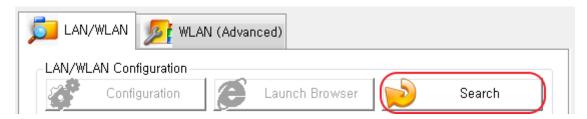
The following settings can be configured using the Net Configuration Tool. For WLAN, there are other settings beyond those listed below and the available WLAN settings may vary depending on the functions supported by the printer's WLAN module.

Settings		Descrip	tion	
IP Address	Assign IP address manually or automatically through DHCP. If the			
Assignment	network does not s	upport DHCP, yo	ou must ass	ign the IP address
Method	manually.			
IP Address	This information is	required for LAN	N/WLAN cor	nmunication and a
Subnet Mask	unique IP address r	nust be entered	. The comm	unication port is
Gateway	set to 9100 by defa	ult. You have to	change the	port number via
	reference below tak	ole to use anoth	er port.	
	Port Number	Description	TCP/UDP	Notes
Port Number	9100, 6101, 9300	Printing	TCP	Used for printing
Port Number	80	HTTP	TCP	Web page
	3337, 9000	Device	UDP	Bixolon Device
	3337, 9000	Management	UDP	Discovery/Setting
	If there is no comm	unication betwe	en the host	and printer during
In activity Time	the set period of tir	ne, the connecti	on will be cl	osed automatically.
Inactivity Time	The value can be set between 0 and 3600 seconds (1 hour). If set			
	to 0, this function is disabled.			
	A string that indicates the WLAN printer. A maximum of 64			
System Name	characters can be entered.			
	* This string does	not display on c	ertain print	ers.

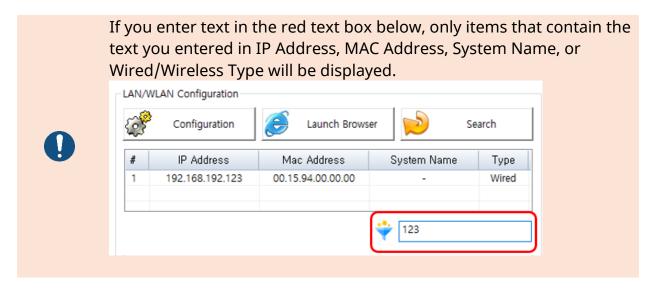
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6-1-1 Configuration of LAN/WLAN Settings Using the Configuration Button

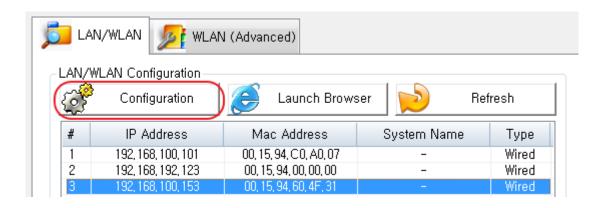
- 1. Check to make sure the printer is switched on.
- 2. Click the Search button to search for printers on the network



- 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.

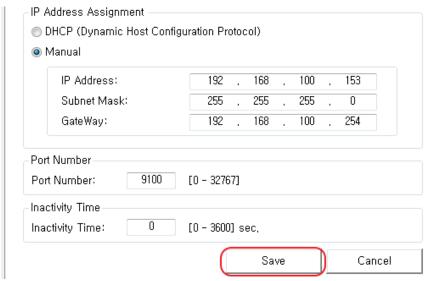


5. Click either Configuration button or double-click the item you want to configure.



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



<Network Settings on the Net Configuration Tool>



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.



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

```
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

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
Ring statistics for 192.168.1.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

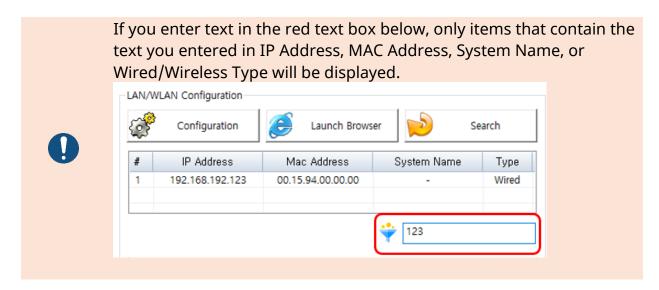
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6-1-2 Configuration of LAN/WLAN Settings Using the Launch Browser Button

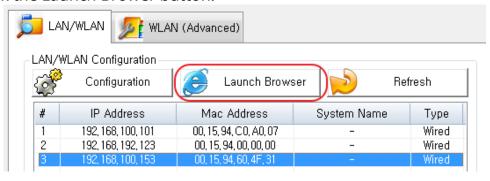
- 1. Check to make sure the printer is switched on.
- 2. Click the Search button to search for printers on the network



- 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.



0

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.

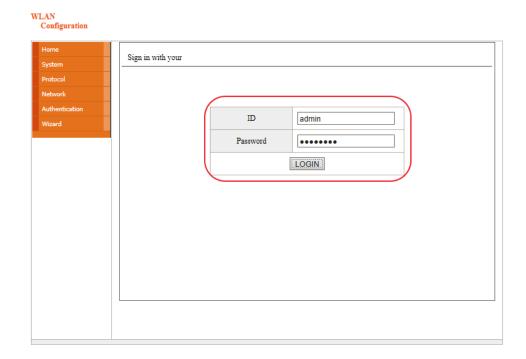
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6. Check and configure the LAN/WLAN network settings of the printer on the web browser.



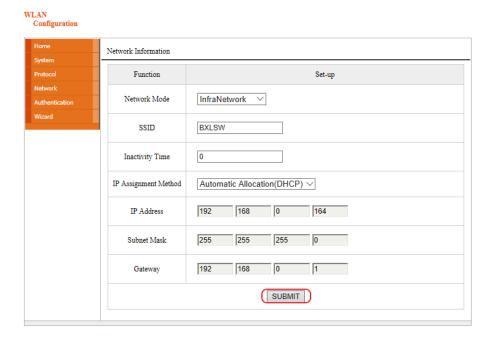
The network settings may vary depending on the LAN/WLAN communication and the printer's WLAN communication module.

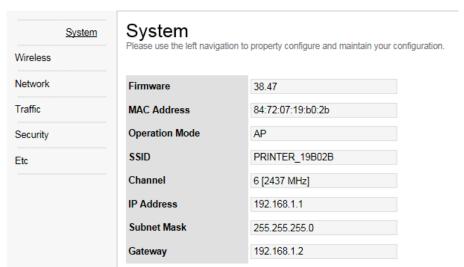
- 7. You may have to login to change the WLAN settings on the web browser. Login using the ID and password. The default ID and passwords are as follows:
 - User ID: "admin"
 - Password: "password"



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





<Configurable WLAN Settings on Web Browser>

	Configuration
F/W ver.	2,2
MAC	00:15:94:51:16:70
Source IP	192,168,100,192
Subnet Mask	255,256,256,0
Gateway IP	192,168,100,254
Local Port	9100
Inactivity Time	0
DHCP mode	
	Apply

< Configurable LAN Settings on Web Browser>

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



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

```
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Matthe\xiping 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

Ping statistics for 192.168.1.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

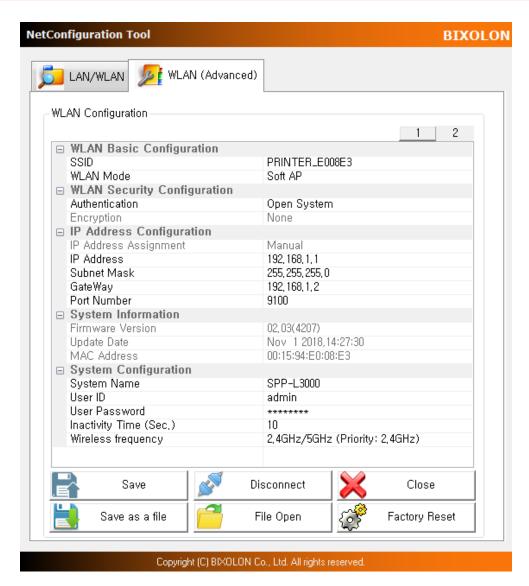
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6-2 WLAN Advanced Configuration

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.



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



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 - WPA2-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. Make Only characters that can be entered on the ASCII code table are allowed.
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. Make of the

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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		Descri	ption	
	Assign the IP ac	ddress manua	ally or auto	matically
IP Address Assignment	through DHCP.	If the networ	k does not	support DHCP,
	you have to ass	ign IP addres	s manually	/ .
IP Address	This informatio	n is required	for LAN/W	LAN
Subnet mask	communication	and unique	[P address	must be
Gateway	entered. The communication port is set to 9100 by			
-	default. You ha	ve to change	the port ni	umber via
	reference below table to use another port.			
	Port Number	Description	TCP/UDP	Notes
Port Number	9100, 6101, 9300	Printing	ТСР	Used for printing
	80	HTTP	TCP	Web page
	3337, 9000	Device	UDP	Bixolon Device
	3337, 3000	Management	ODI	Discovery/Setting

System Configuration	Description		
G N	This string indicates the WLAN printer. A maximum of 64		
System Name	characters can be ent		
		t be shown in certain printers.	
User ID		d are used to access a printer from a	
User Password	web browser. A maxir entered.	num of 32 characters can be	
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.	
	2.4GHz/5.0GHz	Both 2.4GHz/5.0GHz are used.	
Wireless Frequency	(Priority: 2.4GHz)	(2.4GHz has a higher priority.)	
wheless frequency	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	

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

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
Client Key	certificate.
Client PEM	Each certificate name is a file name used to download the certificate.

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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.

2.



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.

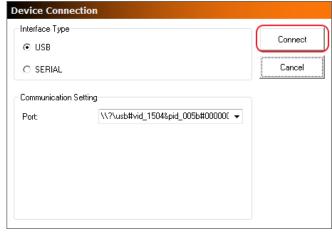
- 3. Click the Connect button in the WLAN (Advanced) tab.
- 4. Choose the Interface Type on the Device Connection window and click the Connect button.



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.



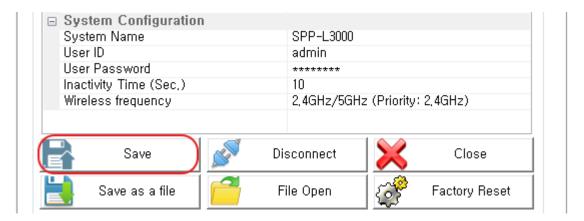
<Serial Interface>



<USB Interface>

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



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Revision history Date Description Rev. 4.00 2017-01-15 New New document style applied. 4.01 2017-08-07 Information for the supported Printer models added. 4.02 2017-11-22 Information for the supported Printer models updated. 4.03 2017-11-24 Screen shot images are changed. Information for the supported Printer models added. 4.04 2018-01-04 Information about network setting using web browser added. Information for the supported Printer models added. Screen 4.05 2018-03-12 shot image is changed. Information for the supported Printer models modified. 4.06 2018-05-16 Information for the supported Printer models modified. 4.07 2018-08-28 Some description moved into "note" tables. Information for the supported Printer models modified. 4.08 2019-01-18 Information about factory reset and certificate name added. 2019-03-04 Information for the supported Printer models modified. 4.09 2019-06-21 Information for the supported Printer models modified. 4.10 4.11 2019-10-30 Information for the supported Printer models modified. 4.12 2019-11-28 Information for the supported Printer models modified. Information for the supported Printer models modified. Adding 4.13 2020-03-10 port information. Information for the supported OS modified Information for the supported Printer models 4.14 2020-09-17 Modified.(SRP-S320) Information for the supported Printer models 4.15 2020-11-10 Modified.(SRP-S3000, SRP-S3000_LABEL) Information for the supported Printer models 4.16 2021-02-26 Modified.(SRP-B300, SRP-S200) Screen shot images are changed. 4.17 2021-06-17 Added Note about filtering function. Information for the supported Printer models 4.18 2021-08-17 Modified.(XT3-40, XT3-43)

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