

Net Configuration Tool PV3/PV4

BARCODE PRINTER Ver. 1.01



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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 printers.

PV3 PV4

4. Installation & Uninstallation

4-1 Installation on Windows XP / Server 2003

- 1) Double-click the file "Net Configuration Setup V1.x.x.exe".
- 2) Follow the instructions on the screen to complete the installation process.

4-2 Installation on Windows Vista / Server 2008 / 7 / 8 / Server 2012 / 10

- Double-click the file "Net Configuration Setup V1.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.

4-3 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 Setup" and click the "Remove" button to uninstall the Net Configuration Tool on your PC.

5. 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 USB cable.

ŝ	Configuration	Launch Bro	owser 🔂	Refresh
د ی د	IP Address	Mac Address	System Name	е Туре
	192, 168, 100, 86		- System Name	e Type Wired
2	192, 168, 100, 123	001554001848	-	Wired
}	192, 168, 100, 110	00 15 30 30 X 18	-	Wired
ŀ	192, 168, 100, 92	III 15 84 C2 (0 / C4	-	Wired
^{>} rint	er Network Information			
	AC Address:	単形例をのの		
IP .	Address:	192, 168, 100, 86		
Sul	bnet Mask:	255, 255, 255, 0		
Ga	teway:	192, 168, 100, 254		
Po	rt Number:	9100		
	Language		×	Close

5-1 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	Assign IP address manually or automatically through DHCP. If the				
Assignment	network does not support DHCP, you must assign the IP address				
Method	manually.				
IP Address	This information is required for LAN communication and a unique IP				
Subnet Mask	address must be entered. The communication port is set to 9100 by				
Gateway	default. You have to change the port number via reference below				
	table to use another port.				
	Port Number	Description	TCP/UDP	Notes	
Dort Number	9100, 6101, 9300	Printing	TCP	Used for printing	
Port Number	80	HTTP	TCP	Web page	
	2227 0000		UDP	PV3, PV4 Device	
	3337, 9000	Management	UDF	Discovery/Setting	
	If there is no communication between the host and printer during the				
Inactivity Time	set period of time, the	connection will	be closed au	tomatically. The	
mactivity nime	value can be set betw	een 0 and 3600	seconds (1	nour). If set to 0,	
	this function is disable	d.			

5-1-1 Using the Configuration Button

- 1. Check to make sure the printer is switched on.
- 2. Click the Search/Refresh 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 Co	nfiguration			
(B)	Configuration) C Launch Brows	ser 😥 Ret	resh
#	IP Address	Mac Address	System Name	Туре
1	192, 168, 0, 156	● 古外 御殿 日	-	Wired

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

Subnet Mask: 255 , 255 GateWay: 192 , 168	5,2	255	
GateWay: 192 . 168			. 0
	8 , 10	100	. 254
Port Number Port Number: 9100 [0 - 32767]			

<Network Settings on the Net Configuration Tool>

Note

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.

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

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

Administrator C:\Windows\system32\cmd.exe Microsoft Windows [Uersion 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 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

5-1-2 Using the Launch Browser Button

- 1. Check to make sure the printer is switched on.
- 2. Click the Search/Refresh 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.





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. Configure the LAN/WLAN network settings of the printer on the web browser.
- 7. Click Apply to save (apply) the changes.
- 8. 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	×
Microsoft Windows [Version 6.1.7600] Copyright (c) 2009 Microsoft Corporation. All rights reserved.	* 11
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	

5-2 WLAN Advanced Configuration

Note

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

Models: PV3, PV4

The following models can configure WLAN settings via USB cable.

📙 LAN/WLAN 🛛 🗾 WLAN (Adva	nced)	
VLAN Configuration		
	1 2	
WLAN Basic Configuration	E	
SSID	53.27	A
WLAN Mode	Infrastructure	
WLAN Security Configuration		
Authentication	Shared Key	
Encryption	WEP-64	
WEP-64 Key	*****	
IP Address Configuration		
IP Address Assignment	DHCP	
IP Address	192, 168, 0, 227	
Subnet Mask	255, 255, 255, 0	
GateWay	192, 168, 0, 1	Е
Port Number	9100	
System Information		
Firmware Version	12.01.4000	
Update Date	Apr 17 2017, 10:30:06	
MAC Address	10/19/94/80/02/02	
System Configuration		
System Name	SATO PV4	
User ID	admin	
User Password	*****	
Inactivity Time (Sec,)	0	
Wireless frequency	2,4GHz/5GHz (Priority: 2,4GHz)	Ŧ
💦 Save 📝	Disconnect 🔀 Close	
📕 Save as a file	File Open	

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

Net Configuration Tool	SATO
LAN/WLAN 🏂 WLAN (Advanced)	
- WLAN 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 addr			. N I	
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				
	have to change the port number via reference below				
	table to use another port.				
	Port Number	Description	TCP/UDP	Notes	
Port Number	9100, 6101, 9300	Printing	TCP	Used for printing	
	80	HTTP	TCP	Web page	
	3337, 9000	Device	UDP	PV3, PV4 Device	
	3337, 9000	Management	UDF	Discovery/Setting	

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 maxim	um 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.			
Wireless Frequency	2.4GHz 5.0GHz 2.4GHz/5.0GHz (Priority: 2.4GHz) 2.4GHz/5.0GHz (Priority: 5.0GHz) % You may not be abl printers.	 2.4GHz is used for frequency. 5.0GHz is used for frequency. Both 2.4GHz/5.0GHz are used. (2.4GHz has a higher priority.) Both 2.4GHz/5.0GHz are used. (5.0GHz has a higher priority.) e 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.	
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.	
SNMP	MIB-2 (management information base-2) information can be read and written.	

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.

5-3 Configuration

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

Device Connection		
Interface Type		
⊙ USB		Connect
C SERIAL		Cancel
Communication Setting]	
Port:	SATO PV4 👻	
L		

<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	SATO PV4	
User ID	admin	
User Password	*****	
Inactivity Time (Sec.)	0	
Wireless frequency	2,4GHz/5GHz (Priority: 2,4GHz)	-
Save	🔊 Disconnect 🔀 Close	
📙 Save as a file	🦰 File Open	

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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

Rev.	Date	Page	Description
1.00	20.09.19	-	New
1.01	20.04.24	-	New Added PV4
	1		I