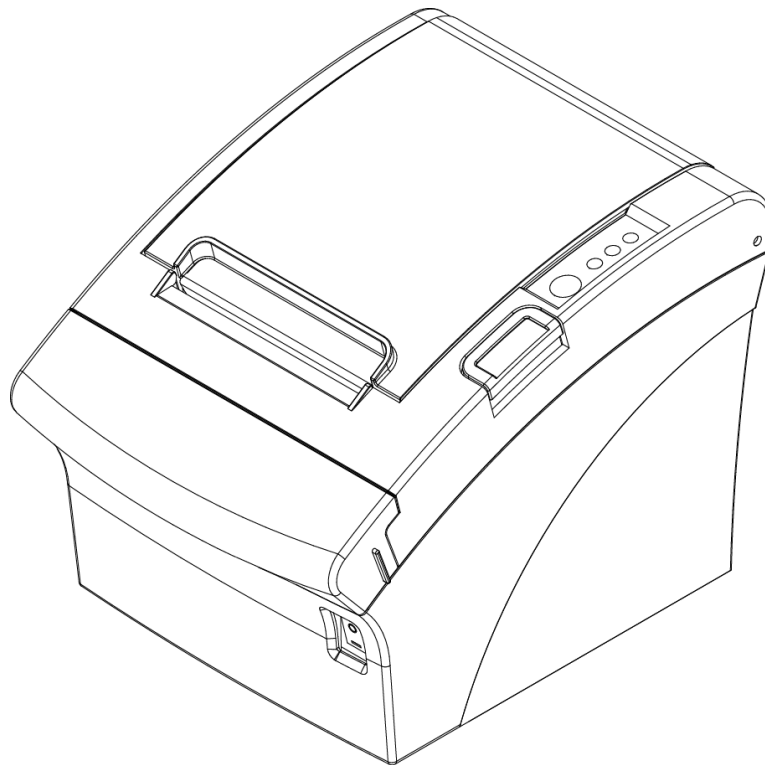


METAPACE

Software Manual **Net Configuration Tool**

Rev. 1.00

Metapace T-3II



<http://www.metapace.com>

■ Table of Contents

1. Manual Information.....3

2. Operating System (OS) Environment.....3

3. Software Installation & Uninstallation4

 3-1 Installation.....4

 3-2 Uninstallation6

4. Configuration Tool8

 4-1 Configuration Tool.....8

 4-1-1 Ethernet Configuration.....8

 4-1-2 WLAN Configuration.....12

 4-1-3 Serial/ USB Configuration.....17

 4-2 Web Server.....22

1. Manual Information

This Net Configuration Tool Manual provides information on the utility program used to set printer operation conditions.

2. Operating System (OS) Environment

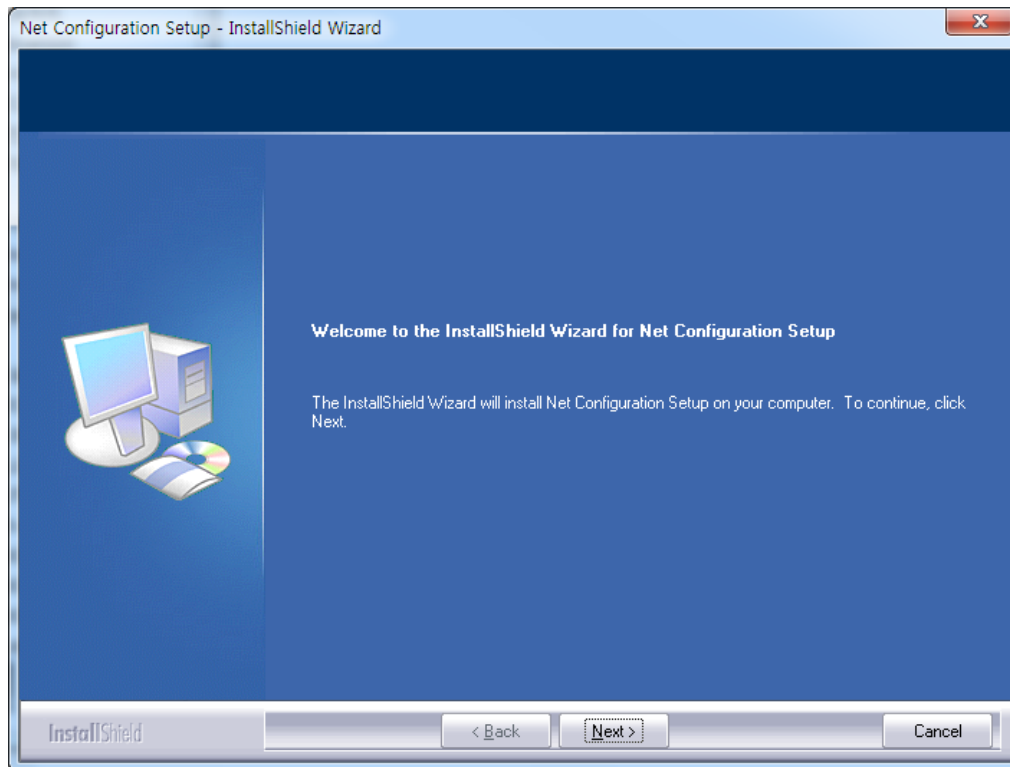
The following operating systems are supported for usage.

- Microsoft Windows XP (32bit/64bit)
- Microsoft Windows Server 2003 (32bit/64bit)
- Microsoft Windows Vista (32bit/64bit)
- Microsoft Windows Server 2008 (32bit/64bit)
- Microsoft Windows Server 2008 R2 (64bit)
- Microsoft Windows 7 (32bit/64bit)
- Microsoft Windows 8 (32bit/64bit)
- Microsoft Windows Server 2012 (64bit)

3. Software Installation & Uninstallation

3-1 Installation

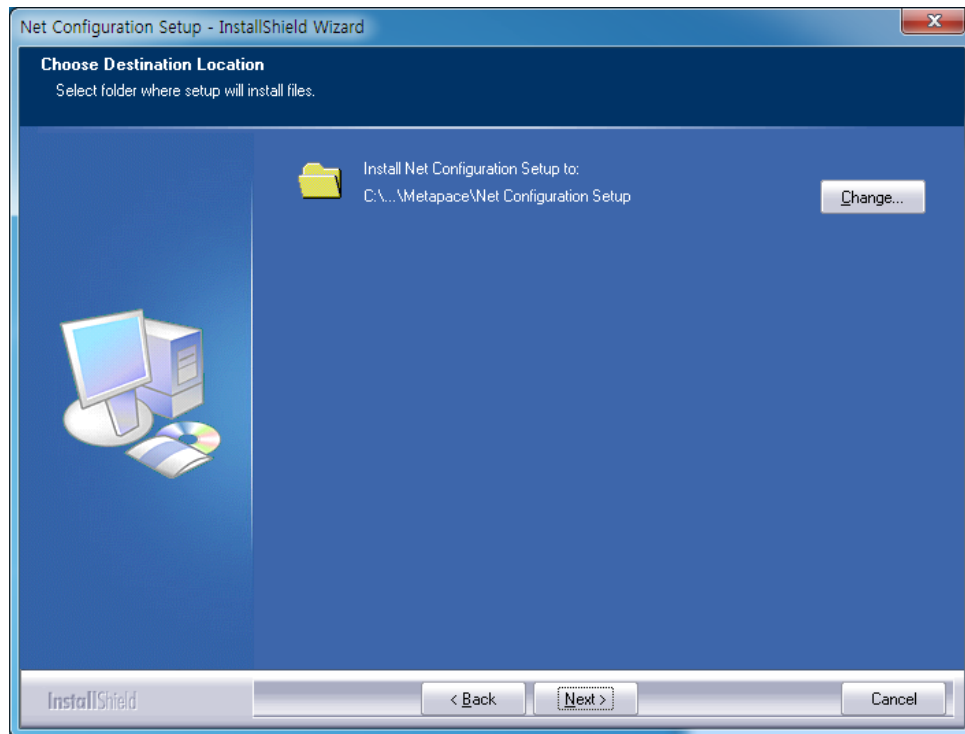
- 1) Execute the Net Configuration Setup file.
(This file must first be downloaded.)
- 2) Click the “Next” button.



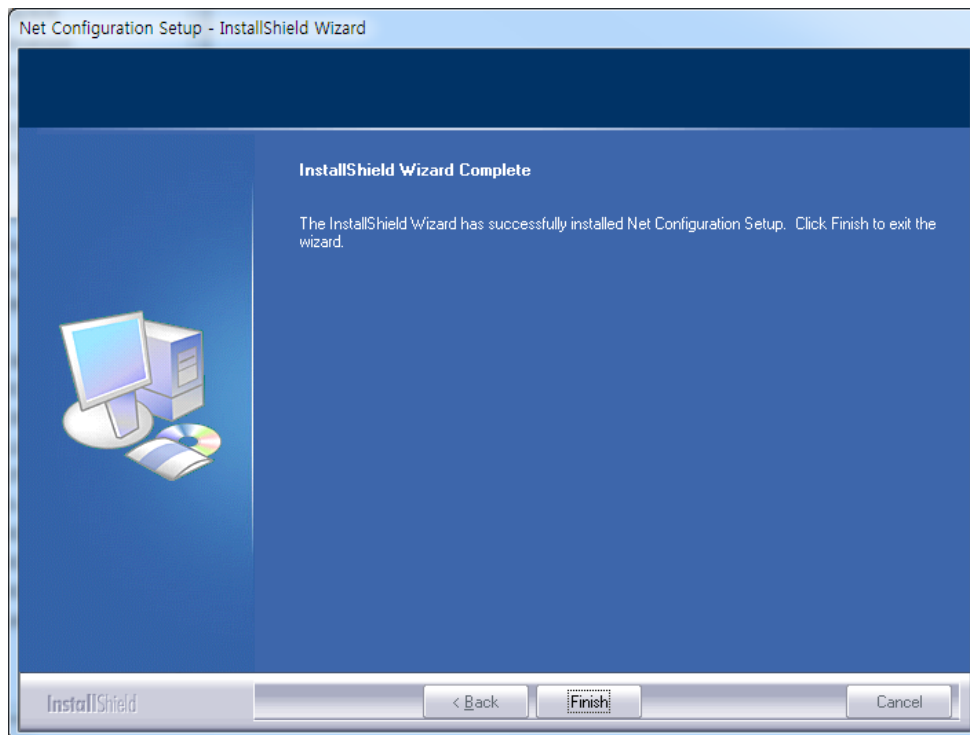
Net Configuration Tool

3) Click the “Next” button.

(Install to: C:\Program Files\Metapace\Net Configuration Setup\)



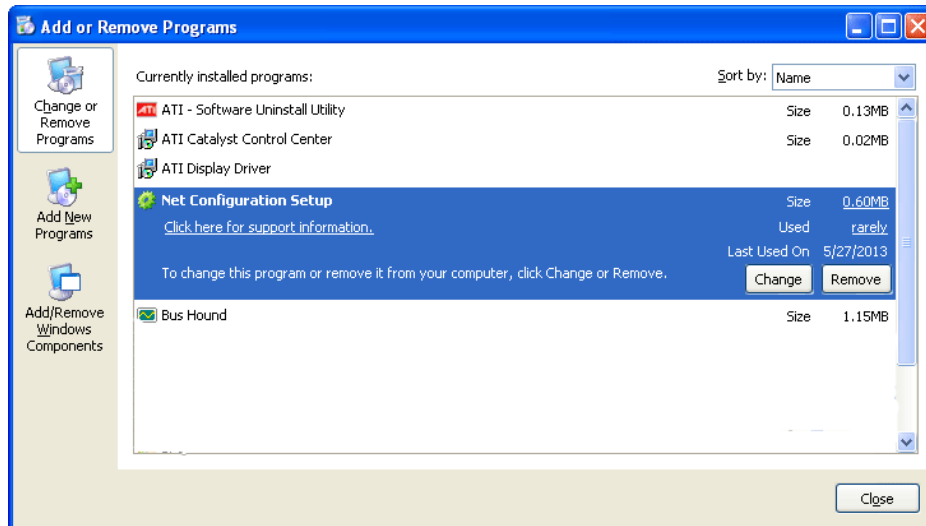
4) The following message appears upon the successful completion of installation.



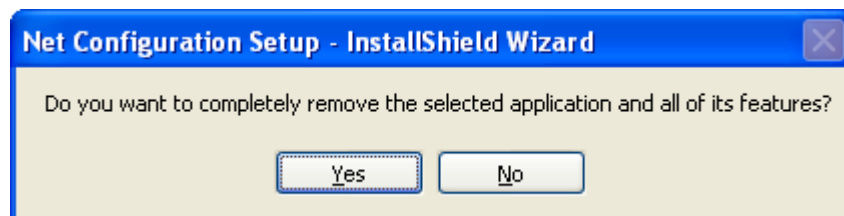
3-2 Uninstallation

(1) Windows XP

- 1) Click and activate the “Add/Remove Programs” icon in the Control Panel.
- 2) Select “Net Configuration Setup” and click the “Change/Remove” button.

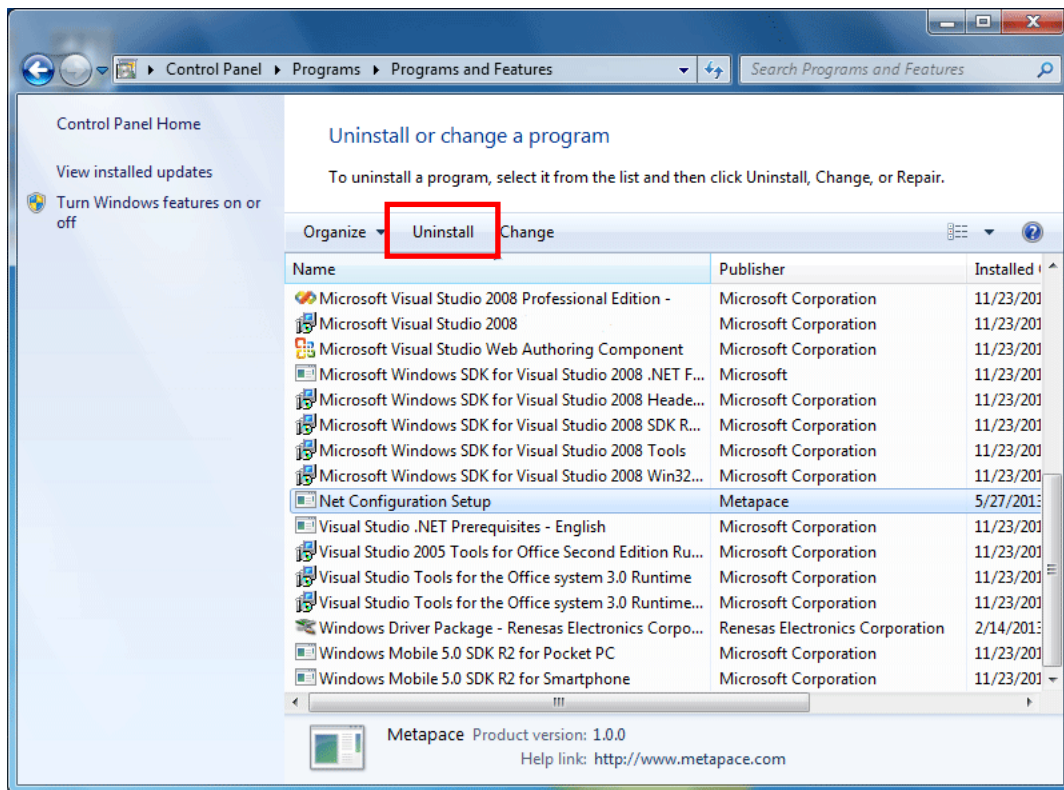


- 3) Click the “Yes” button to completely remove the application.

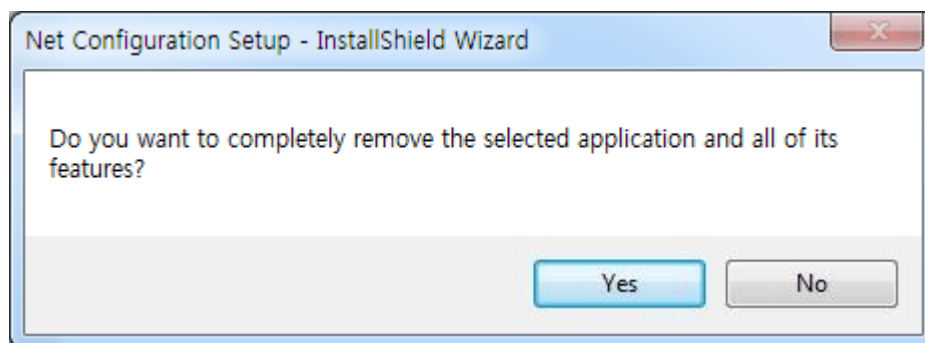


(2) Windows 7

- 1) Click and activate the “Programs and Features” icon in the Control Panel.
- 2) Select “Net Configuration Setup” and click the “Uninstall” button.



- 3) Click the “Yes” button to completely remove the application.



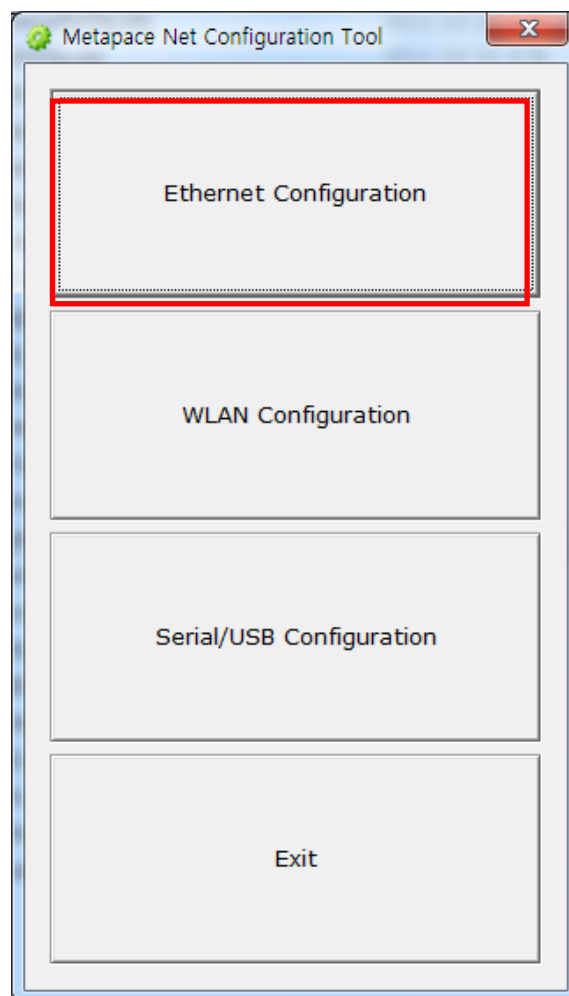
4. Configuration Tool

4-1 Configuration Tool

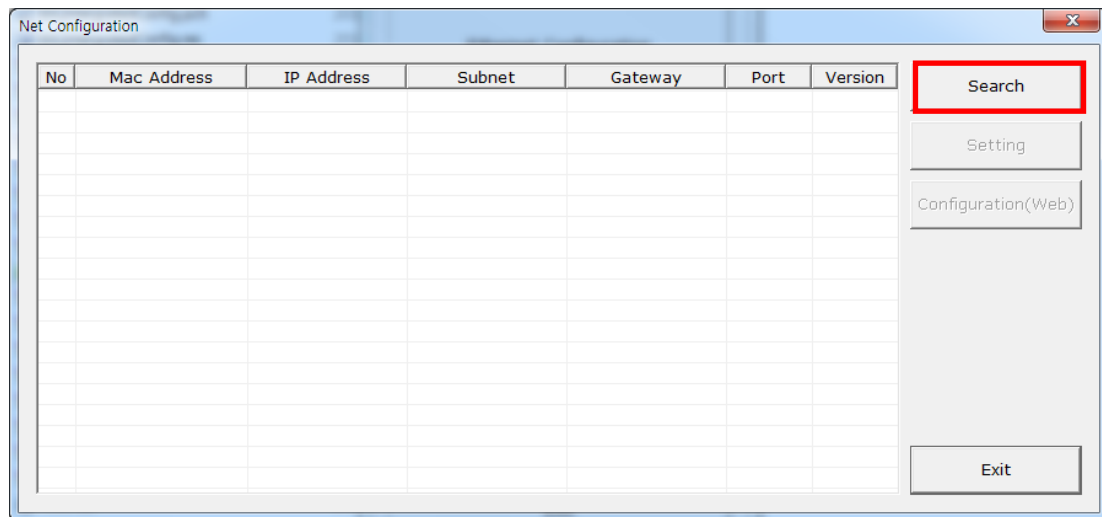
Install and execute NetConfiguration.exe involved in CD.
(Start>> Metapace >> Net Configuration.exe)

Click the Ethernet Configuration button when the printer is connected to the Ethernet, or click the WLAN button when the printer is connected through WLAN.

4-1-1 Ethernet Configuration



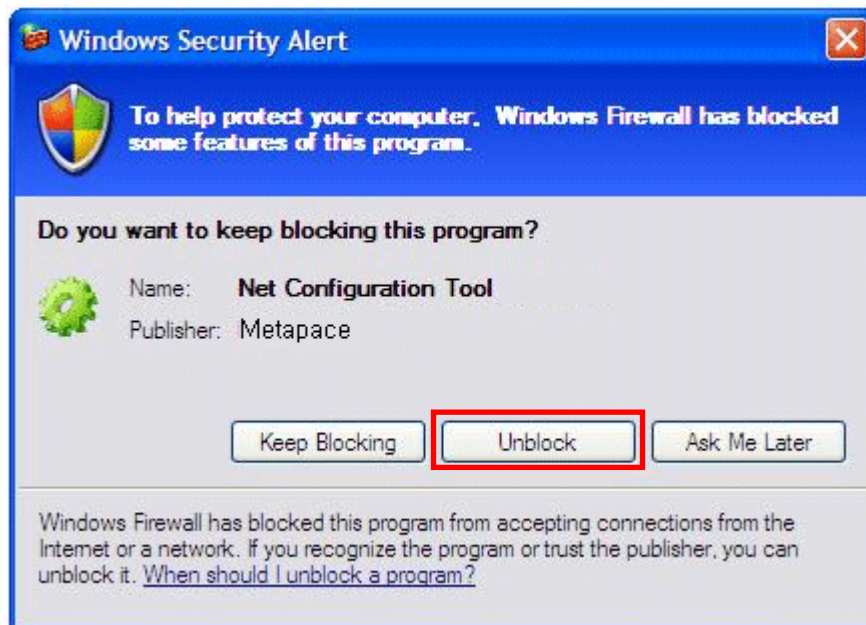
Net Configuration Tool



When you press the Search button, the printer connected to the network will be shown in the list.

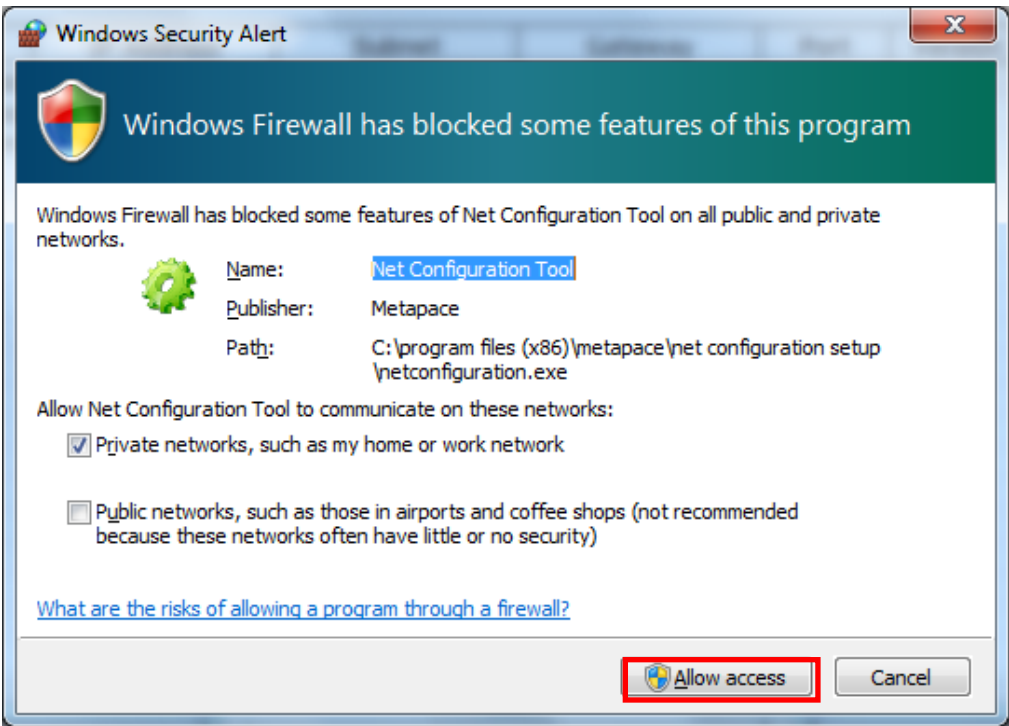
The following warning message may pop up if the firewall is installed.

(1) Windows XP

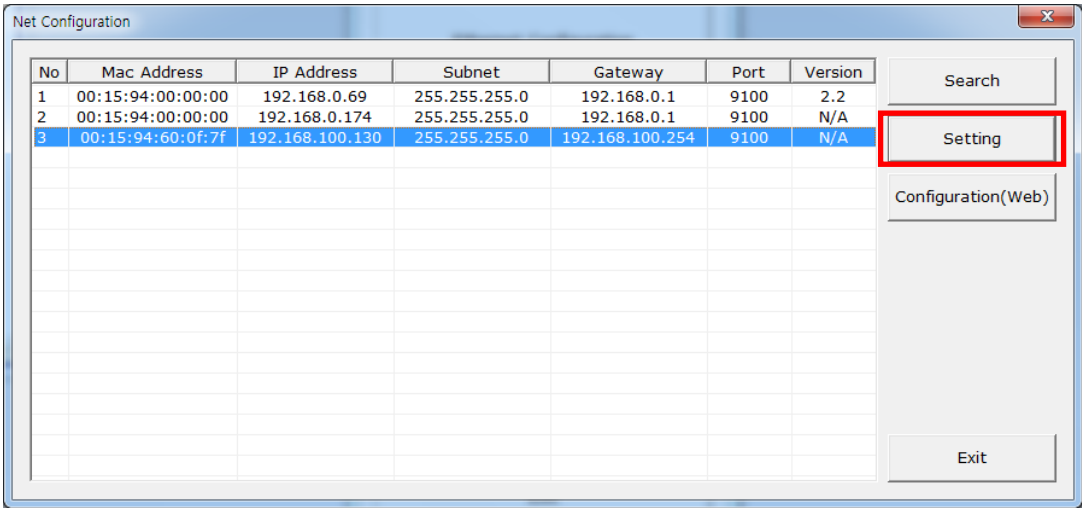


Select [Unblock], and then retry the Search operation.

(2) Windows 7

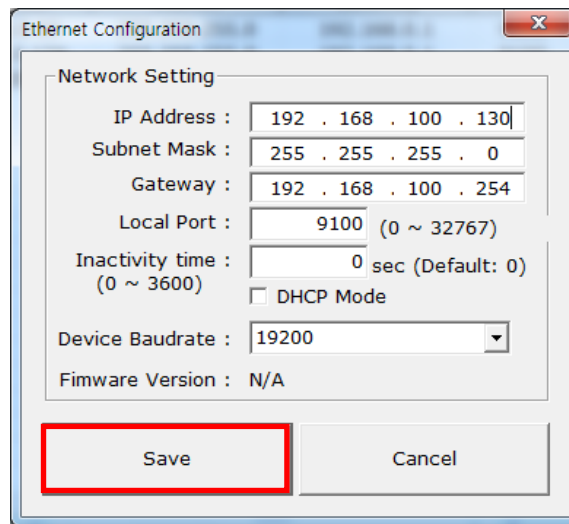


Select [Allow access], and then retry the Search operation.



Select the printer from the list and press the [Setting] button, and then the following window for setting Ethernet settings will pop up.

Net Configuration Tool

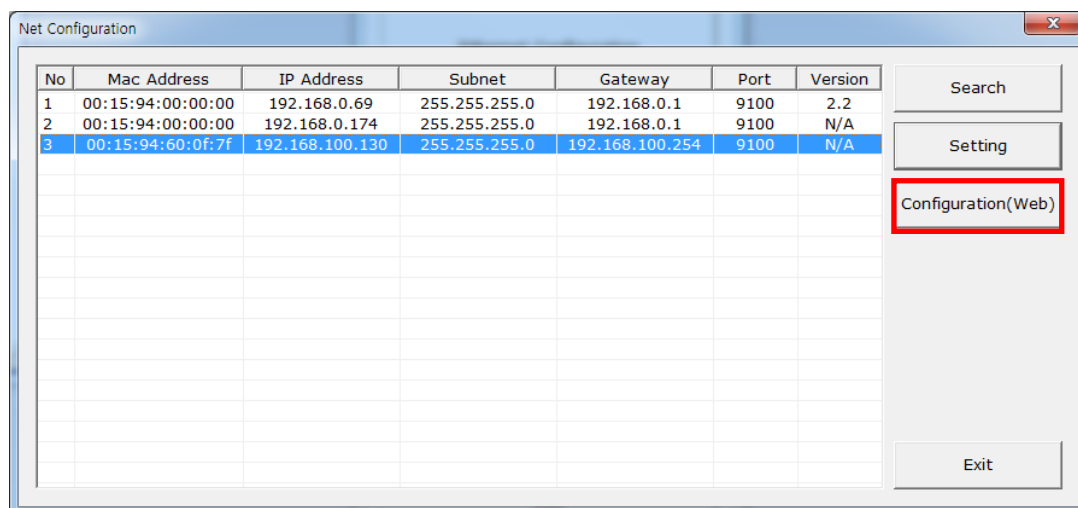


The 'Ethernet Configuration' dialog box contains the following fields and controls:

- IP Address: 192 . 168 . 100 . 130
- Subnet Mask: 255 . 255 . 255 . 0
- Gateway: 192 . 168 . 100 . 254
- Local Port: 9100 (0 ~ 32767)
- Inactivity time: 0 sec (Default: 0) (0 ~ 3600)
- ☐ DHCP Mode
- Device Baudrate: 19200 (dropdown menu)
- Firmware Version: N/A
- Buttons: Save (highlighted with a red box), Cancel

Enter the proper IP Address, Subnet Mask, and Gateway for the currently used network, and then press the Save button to save the settings.

(Device Baud rate setting, which is used for other models, is not necessary for our printer.)

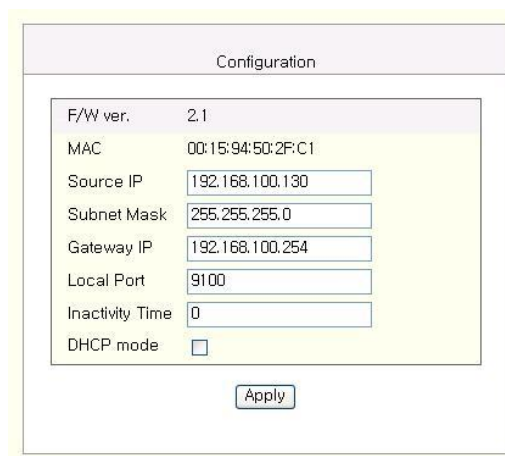


The 'Net Configuration' window displays a table of printer configurations and a sidebar with buttons.

No	Mac Address	IP Address	Subnet	Gateway	Port	Version
1	00:15:94:00:00:00	192.168.0.69	255.255.255.0	192.168.0.1	9100	2.2
2	00:15:94:00:00:00	192.168.0.174	255.255.255.0	192.168.0.1	9100	N/A
3	00:15:94:60:0f:7f	192.168.100.130	255.255.255.0	192.168.100.254	9100	N/A

Buttons on the right: Search, Setting, Configuration(Web) (highlighted with a red box), Exit.

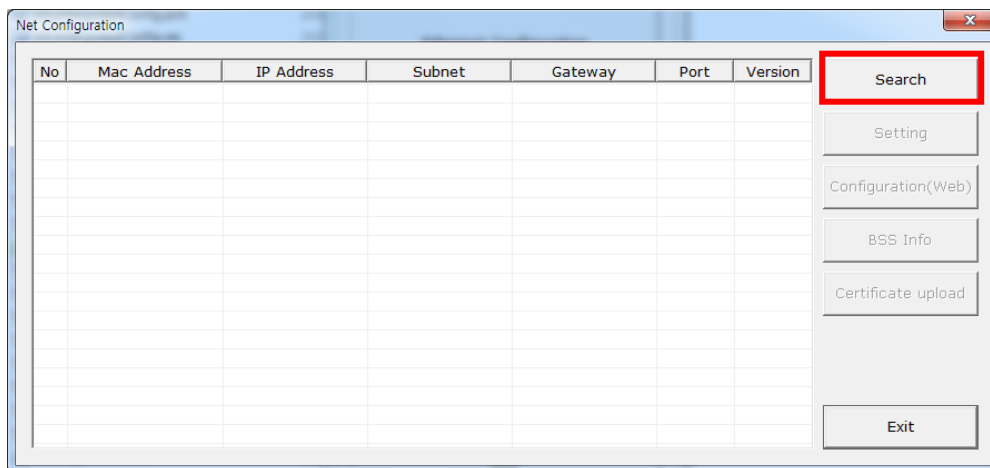
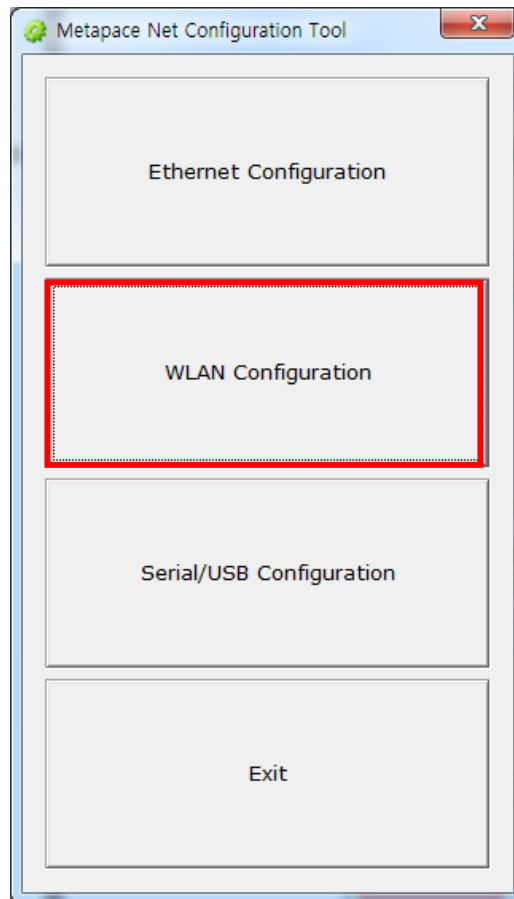
Select the printer from the list and press the [Configuration(Web)] button you will see the web browser for changing the Ethernet and WLAN settings as shown below.



The 'Configuration' web browser interface shows the following settings:

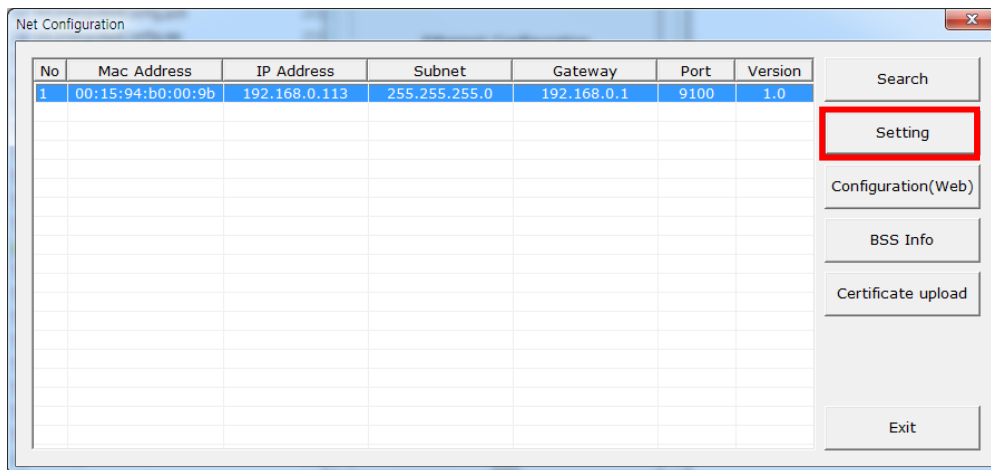
- F/W ver.: 2.1
- MAC: 00:15:94:50:2F:C1
- Source IP: 192.168.100.130
- Subnet Mask: 255.255.255.0
- Gateway IP: 192.168.100.254
- Local Port: 9100
- Inactivity Time: 0
- DHCP mode: ☐
- Apply button

4-1-2 WLAN Configuration

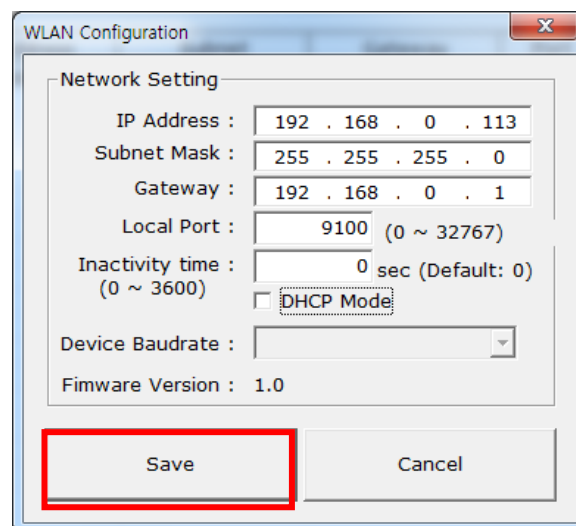


When you press the Search button, the printer connected to the network will be shown in the list.

Net Configuration Tool



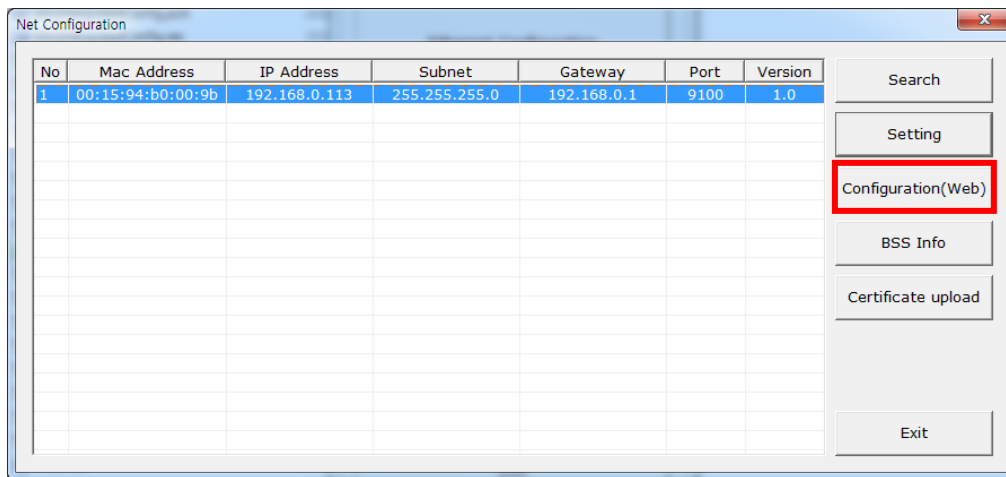
Select the printer from the list and press the [Setting] button, and then the following window for changing the WLAN settings will pop up.



Enter the proper IP Address, Subnet Mask, and Gateway of the currently used network, and then click the [Save] button to save the settings.

(Device Baud rate setting, which is used for other models, is not necessary for our printer.)

Net Configuration Tool



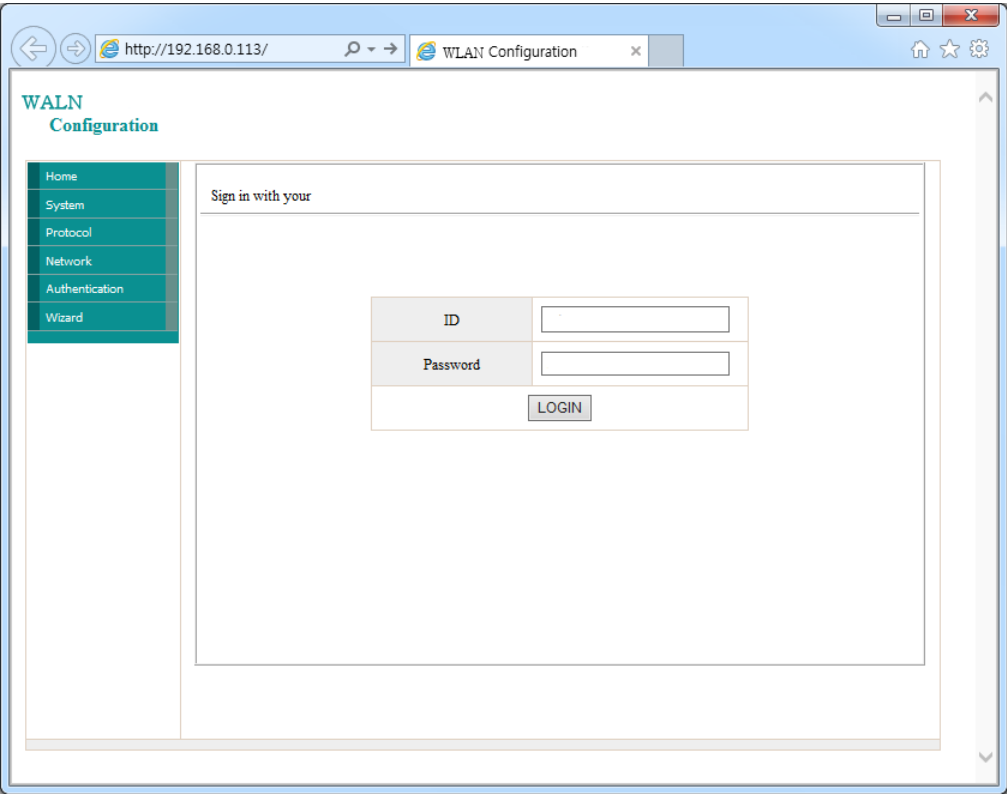
Select the printer from the list and press the [Configuration(web)] button, and then the Login window will pop up.

Enter the ID and Password set in the printer, and click OK.
(Default settings are ID: "admin", Password: "password")

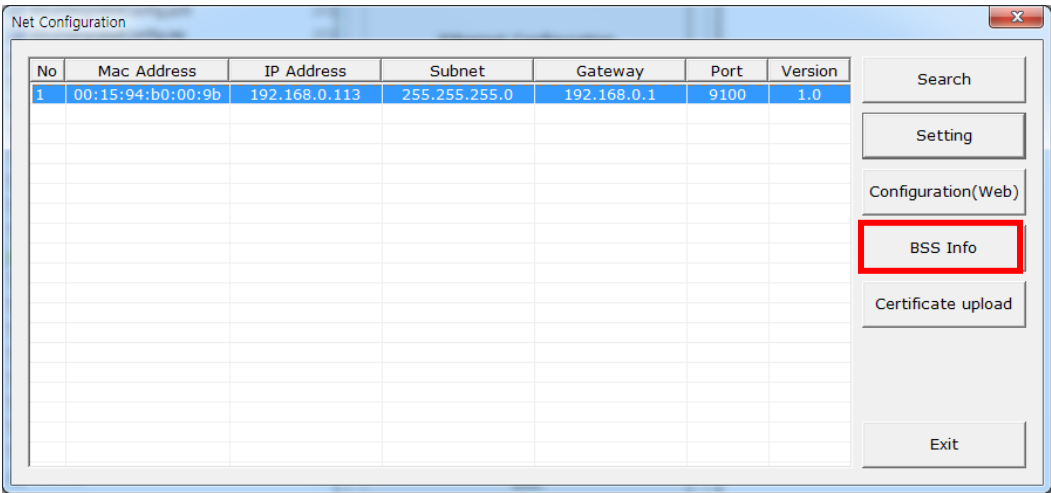


Net Configuration Tool

When you log in, you will see the web browser for changing the WLAN settings as shown below.

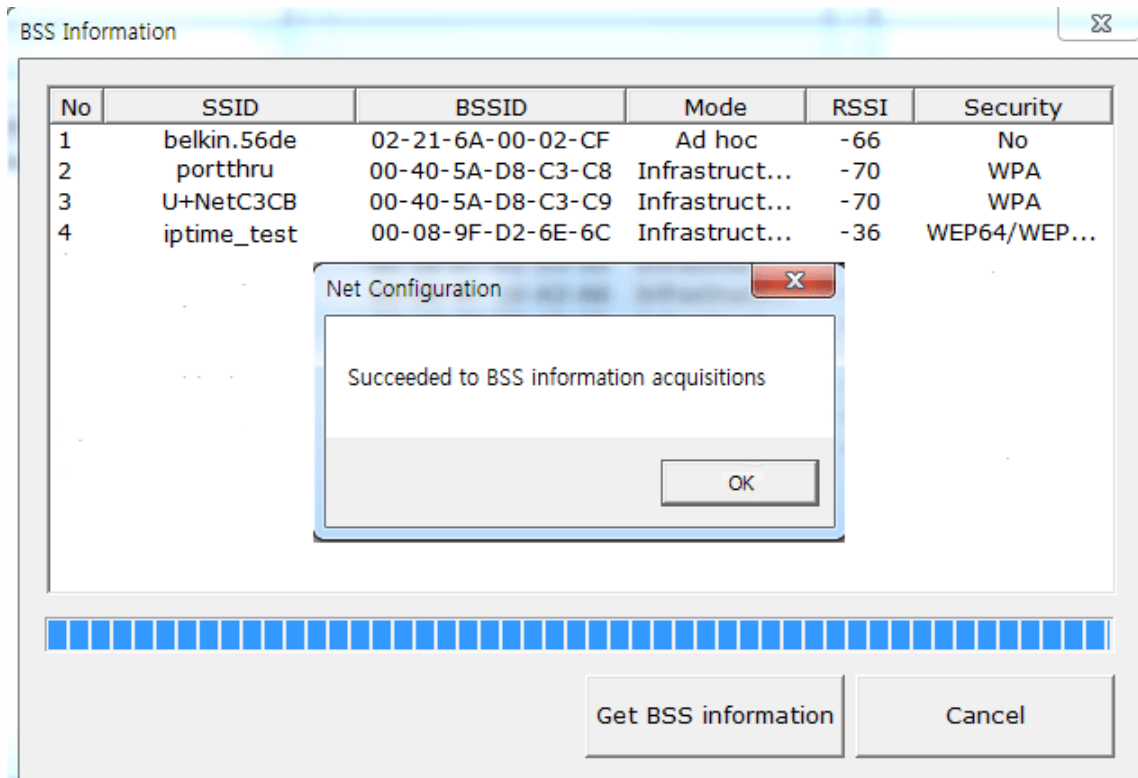


You can search for the information of the wireless network by pressing the BSS Info button.



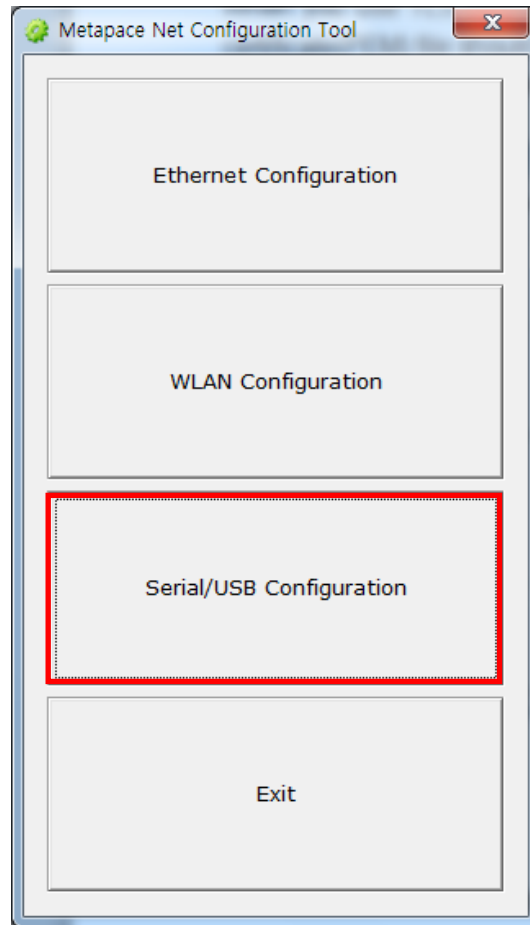
Net Configuration Tool

When you press the BSS Info button, information about the SSID, BSSID, Network Model, and Encryption information of the network in close range will be shown as follows.



4-1-3 Serial/ USB Configuration

Connect to Serial/USB cable, then click “Serial/USB Configuration”.



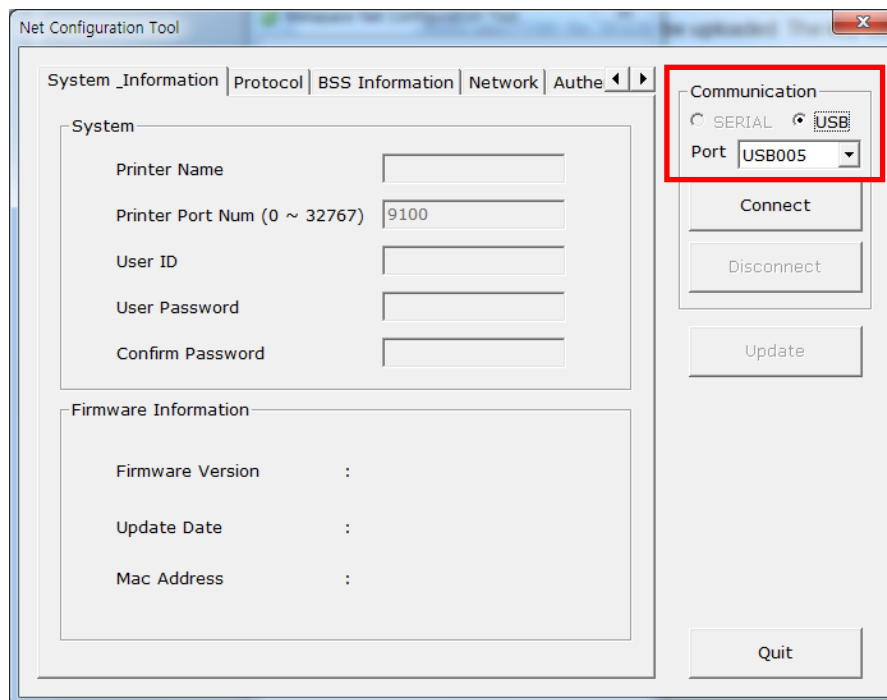
Net Configuration Tool

(1) Choose the “Port”, then click “Connect”.

(You can only use USB.)

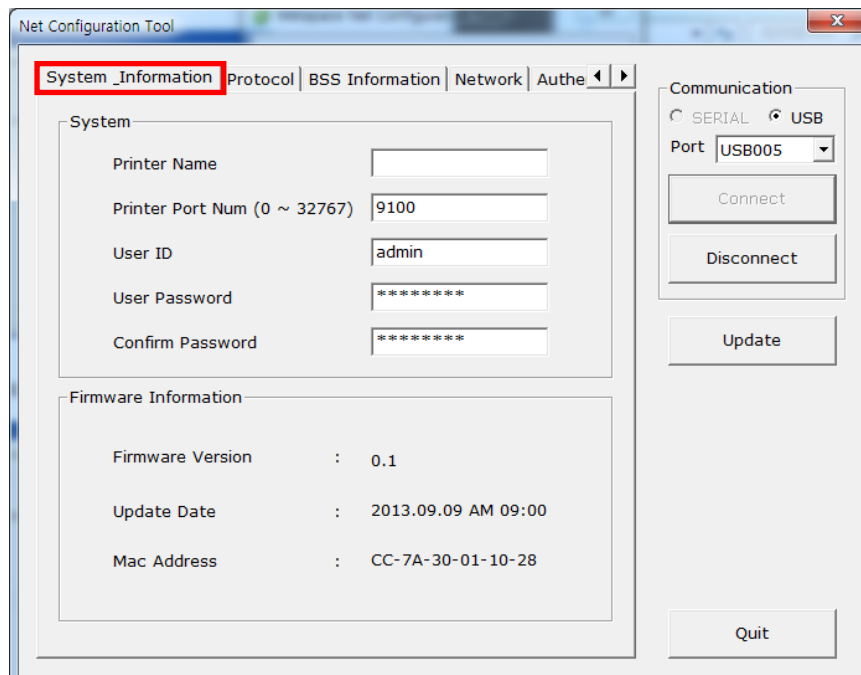
If it is properly connected, “Succeeded to printer connection” will be shown.

Then the configuration of the printer will be listed.



(2) System & Information

Printer Name, Printer Port, User ID, User password can be set.



Net Configuration Tool

(3) Protocol

You can set HTTPS, TELNET, FTP and SNMP protocol as able or disable.
SNMP can be also set.

The screenshot shows the 'Protocol' tab of the 'Net Configuration Tool'. The 'Task State' section contains four dropdown menus: HTTPS (Disable), TELNET (Disable), FTP (Disable), and SNMP (Disable). The 'SNMP' section contains four text input fields: 'Community Name (Read):' (public), 'Community Name (Write):' (private), 'Trap IP Address' (0 . 0 . 0 . 0), and 'Trap Community' (public). On the right, the 'Communication' section has radio buttons for 'SERIAL' and 'USB' (selected), a 'Port' dropdown (USB005), and buttons for 'Connect', 'Disconnect', 'Update', and 'Quit'.

(4) BSS Information

When you click “Get BSS information”, close AP information will be listed.

The screenshot shows the 'BSS Information' tab of the 'Net Configuration Tool'. It displays a table of nearby APs. The table has columns: No, SSID, BSSID, MODE, RSSI, and Sec. Below the table is a 'Get BSS information' button. On the right, the 'Communication' section is identical to the previous screenshot, with 'USB' selected and 'Port' set to 'USB005'.

No	SSID	BSSID	MODE	RSSI	Sec
1	portthru	00-08-9F-D2-...	Infrastr...	-46	WE
2	netis_kjchoi	00-18-E7-D2-...	Infrastr...	-63	WF
3	U+NetC3CB	00-40-5A-D8...	Infrastr...	-80	WF
4	belkin.56de	E2-75-30-01-...	Ad hoc	-79	N

(5) Network

You can set Infrastructure/Adhoc, SSID, IP, Subnetmask and Gateway.

1) Inactivity Time

By setting "Inactivity Time", you can disconnect the printer to host device when the data is not transferred while inactivity time. If multiple host devices are used with one printer, "Inactivity Time" is recommended. (Other host devices are restricted to use a printer if one host device keep connecting to a printer.)

2) Wi-Fi Direct

Use Channel when configuring Wi-Fi Direct channels.

Connection Mode is classified into PIN or PBC type.

- PIN Type: Enter the same PIN CODE you set for "PIN Code" on your smartphone using the utility to connect.

(PIN CODE must be entered in four- or eight-digit format.)

- PBC Type : Accept the request for approval on your smart phone to connect.

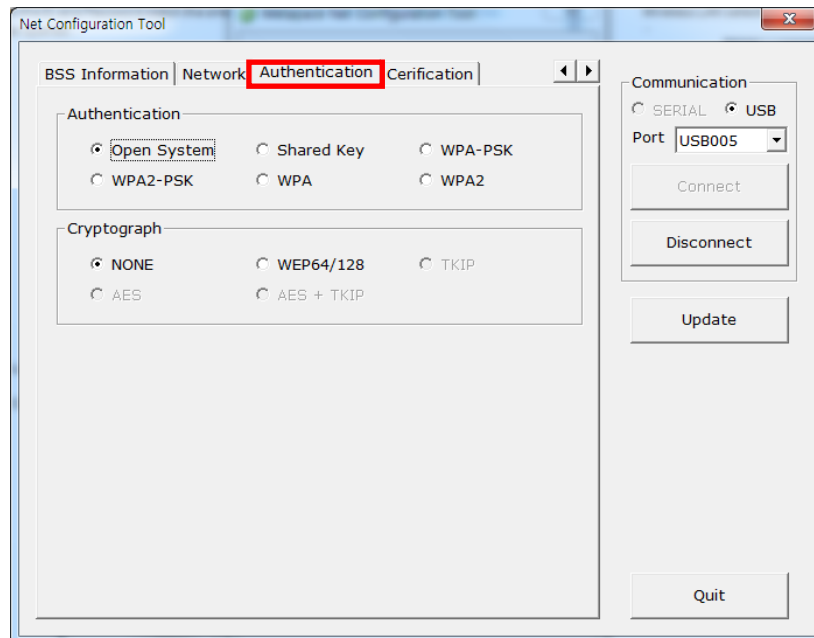
The screenshot shows the 'Net Configuration Tool' window with the 'Network' tab selected. The window has a title bar with 'Net Configuration Tool' and a close button. The main area is divided into several sections:

- System Information | Protocol | BSS Information | Network | Authn**: The 'Network' tab is highlighted with a red box.
- Network Mode**:
 - ☒ Infra Network
 - ☐ Adhoc (Ad Hoc Channel: 6)
 - ☐ Wi-Fi Direct
- Channel**: 1 (dropdown)
- Connection Mode**: PIN&PBC (dropdown)
- PIN Code**: 0000
- IP Assignment Method**:
 - ☒ Automatic Allocation(DHCP)
 - ☐ Manual Allocation
- Network Setting**:
 - SSID**: 125
 - Inactivity Time (0~3600)**: 0 (Sec (Default: 0))
 - IP Address**: 192 . 168 . 0 . 113
 - Subnet Mask**: 255 . 255 . 255 . 0
 - Gateway**: 192 . 168 . 0 . 1

On the right side, there is a **Communication** section with radio buttons for **SERIAL** and **USB** (selected). Below it is a **Port** dropdown set to **USB005**. There are buttons for **Connect**, **Disconnect**, **Update**, and **Quit**.

(6) Authentication

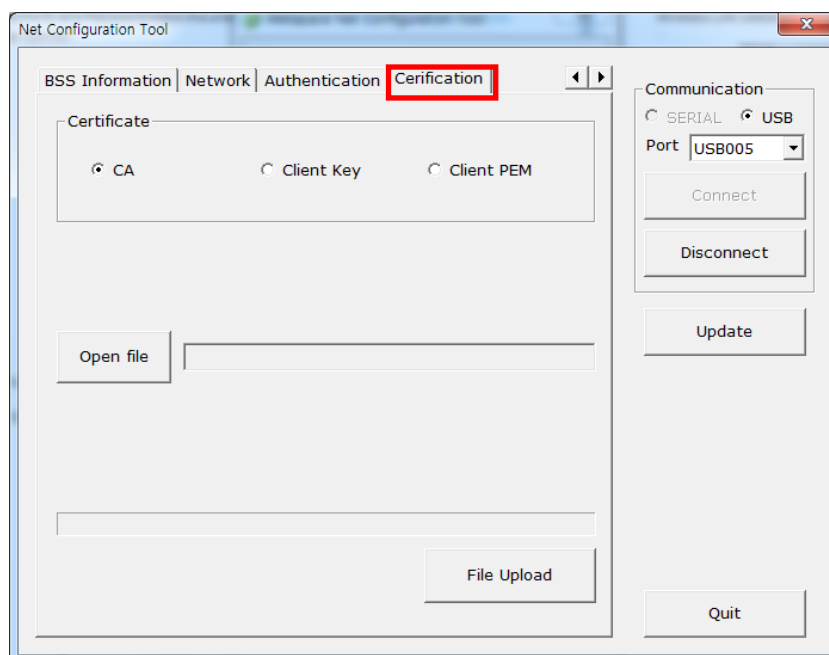
You can set Authentication and Cryptograph. If it is Infrastructure mode, you need to set Cryptograph with AP for proper connection. Then if it is Adhoc mode, you need to set Cryptograph with host device.



(7) Certificate

Printer can save the certificate file for EAP-TLS certification.

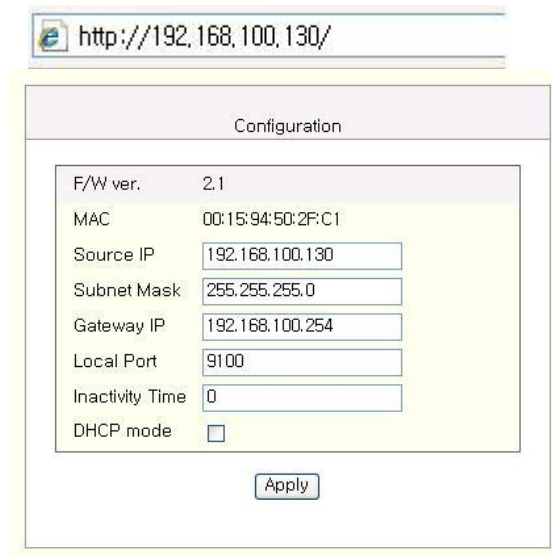
When you use TLS certification, CA certificate(PEM, Client Key(KEY/PEM), and client certificate(PEM) file should be uploaded. The key size of certificate recommended is 512. If the size of certificate is more than 512, it will take some time for EAP certification.



4-2 Web Server

LAN Configuration Selection

- 1) Execute Internet Explorer.
- 2) Enter IP address of the printer at **Address** of Internet Explorer and click **go**.



The image shows a screenshot of an Internet Explorer browser window with the address bar containing "http://192.168.100.130/". Below the browser window is a "Configuration" window. The "Configuration" window has a title bar and a main area with the following fields:

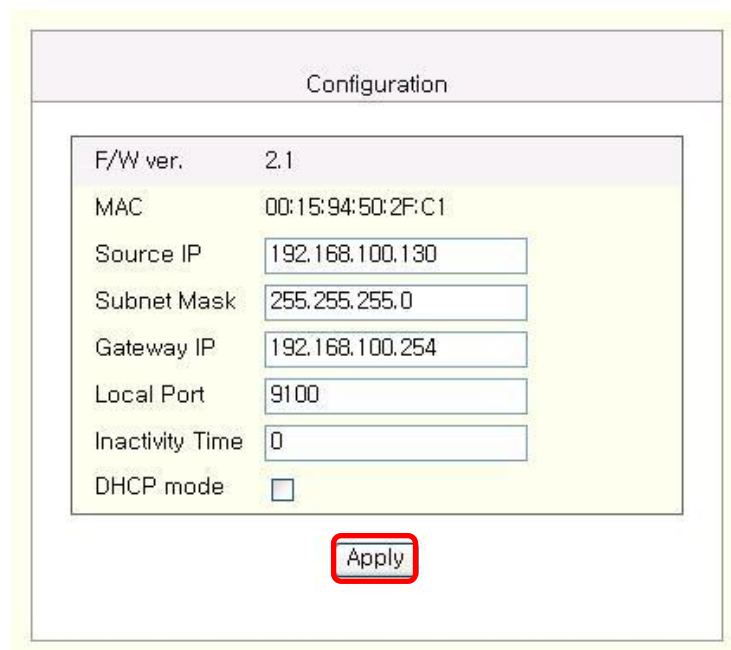
Configuration	
F/W ver.	2.1
MAC	00:15:94:50:2F:C1
Source IP	192.168.100.130
Subnet Mask	255.255.255.0
Gateway IP	192.168.100.254
Local Port	9100
Inactivity Time	0
DHCP mode	<input type="checkbox"/>

At the bottom of the "Configuration" window is an "Apply" button.

[Note]

- If you are not aware of IP address, check IP address by pushing Function key.
- Ask Network administrator IP Address and its related information.

- 3) When **Configuration** Window appears, enter new **Network Setting**.



The image shows a screenshot of the "Configuration" window. The fields are the same as in the previous screenshot. The "Apply" button at the bottom is highlighted with a red rectangle.

Wireless LAN selection

The screenshot shows a web browser window with the address bar displaying `http://192.168.0.113/` and the title `WLAN Configuration`. The page has a sidebar menu with the following items: Home, System, Protocol, Network, Authentication, and Wizard. The main content area is titled `WLAN Configuration` and contains a `Sign in with your` section. This section includes a login form with the following fields:

ID	<input type="text"/>
Password	<input type="password"/>
<input type="button" value="LOGIN"/>	

The screenshot shows the same web browser window, but the main content area is now displaying the configuration page. The sidebar menu remains the same. The configuration page is titled `WLAN Configuration` and contains several sections:

- System Information**

Printer Name	<input type="text"/>
Printer Port Num	9100
- Protocol Information**

HTTPS	Disable	FTP	Disable
TELNET	Disable	SNMP	Disable
- Network Information**

SSID	125
IP Assignment Method	Automatic Allocation(DHCP)
IP ADDRESS	192 . 168 . 0 . 113
- Authentication Information**

Authentication	Open System	EAP Mode	NONE
Cryptograph	WEP64/128		

Home, System, Protocol, Network (WLAN), and Authentication can be configured from this window, and the wizard mode is also provided for easier step by step configuration.

[Note]

More information about options, please refer to 'Ethernet Interface Manual' or 'Network User Manual'.