

A8 Printer Network Configuration Tool User Manual

Version 1.0.1

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Revision History

Date	Revision	Author	Comments
22 Sept. 2020	1.0.0	Machilus	• Initial release.
28 Octo. 2020	1.0.1	Machilus	• Modify release.

INTRO

Purpose

This document was written to provide the usage of the tool for network setting of A8 Thermal Printer of POSBANK Co., Ltd.

Reader

This document is intended for users who wish to purchase and use the Prime or Wi-Fi / Bluetooth Combo option of POSBANK's A8 Thermal Printer.

Range

This document describes how to set up the network of Wi-Fi / Bluetooth / Ethernet, which is a wired/wireless communication interface that can be used in A8 Printer of POSBANK Co., Ltd.

- Target device: A8 Printer Ethernet / Wi-Fi / Bluetooth (Wireless Module Firmware Version 3.3_3.3.0 or higher)
- Operating System: Windows 10
- Library: .Net Framework 4.6.1
- Supported language: English

Article description:

- Features of A8 Network Configuration tool
- How to install A8 Network Configuration tool
- How to set up a network using the A8 Network Configuration tool

Related document

-
-

Document organization

This document is structured as follows.

- 1. Preparation
- 2. Check the printer status
- 3. Network Settings

Convention

The fonts used in this document have the following meanings.

- Wu bodies (*Italic*):

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1. PREPARATION

The network configuration tool described in this document can be operated in the following environments.

- Device : A8 Prime or Wi-Fi / Bluetooth Combo capable printer
- Operating System : Window 10 (x86, x64)
- Library : .Net Framework 4 / 4.6.1
- Network : Bluetooth SPP, UDP (32320 ~ 32321) use

The network setting tool can be downloaded from the POSBANK website, and it operates on the premise that the network interface (Wi-Fi / Bluetooth / Ethernet) to be set in the target device is installed on the PC where you want to run the application.

★When using Wi-Fi and Bluetooth, in the case of a device driver that does not support the API of .Net Framework, you must connect and pair using the tools provided by the chipset and dongle manufacturers.

2. CHECKING PRINTER STATUS

Information about the current printer's network setting status is that you should be aware of in advance when using the network setting tool. Based on the information, the network setting tool accesses the printer and performs network changes and settings.

2.1. Self-Test

The "Self-Test" function must be activated to check the printer's current settings. To activate, if you press and hold the "FEED" and "POWER" buttons at the same time when the printer is turned off, the "Self-Test" function will be activated and the current printer status will be printed.

Step 1. Turn off the printer's power (if the power is already off, please ignore it)

Step 2. While holding down the "FEED" button, press the "POWER" button.

Step 3. Release the button when the red LED is blinking next to the "FEED" button and printing is in progress.

2.2. Check Settings

Among the printed settings, the Ethernet item is always marked for the Prime version printer (the standard version does not print the item), and the wireless network Wi-Fi AP / Wi-Fi Station / Bluetooth only prints the currently used item.

- Wi-Fi AP

A8 PRIME


(Model : PB-A8 v1.2)
F/W Ver. : P2.05-CAP06[2020/09/08]

.....

[USB Mode] -----> Actual USB
[Paper Width] -----> 80mm
[Paper Type] -----> TF50KS-E2D
[Black Mark Mode] -----> Disable
[Auto Load Mode] -----> Disable
[Sensing Level] -----> Level 7
[Mark Range] -----> 169mm
.....

----- Ethernet Configuration -----

[DHCP mode] : Disable (Static IP)
[Static IP] : 192.168.10.10
[Gateway IP] : 192.168.10.1
[Subnet Mask] : 255.255.255.0
[Local Port] : 9100
[Inact. Time] : 0
[MAC Address] : 60-04-17-30-00-00



----- Wireless Configuration -----

[F/W Version] : 3.3_3.3.0
[Mode] : WiFi SoftAP
[SSID] : A8_PRINTER_XXXXXX
[Password] : 12345678
[DHCP Mode] : Enable (Dynamic IP)
[IP Address] : 192.168.192.1
[Gateway IP] : 192.168.192.1
[Subnet Mask] : 255.255.255.0
[MAC Address] : 24-6F-28-42-DA-90
[Channel] : 8
[Auth] : WPA2_PSK
[TxPower] : 19.5dBm

If you want to continue
Please press the FEED button

- Wi-Fi Station

A8 PRIME

(Model : PB-A8 v1.2)

F/W Ver. : P2.05-CAP06[2020/09/08]

.....

[USB Mode] -----> Actual USB
 [Paper Width] -----> 80mm
 [Paper Type] -----> TF50KS-E2D
 [Black Mark Mode] -----> Disable
 [Auto Load Mode] -----> Disable
 [Sensing Level] -----> Level 7
 [Mark Range] -----> 169mm

.....

----- Ethernet Configuration -----

[DHCP mode] : Disable (Static IP)
 [Static IP] : 192.168.10.10
 [Gateway IP] : 192.168.10.1
 [Subnet Mask] : 255.255.255.0
 [Local Port] : 9100
 [Inact. Time] : 0
 [MAC Address] : 60-04-17-30-00-00



----- Wireless Configuration -----

[F/W Version] : 3.3_3.3.0
 [Mode] : WiFi Station
 [SSID] : hard
 [Password] : pbhw1234
 [DHCP Mode] : Enable (Dynamic IP)
 [IP Address] : 192.168.2.169
 [Gateway IP] : 192.168.2.1
 [Subnet Mask] : 255.255.255.0
 [DNS Server 1] : 0.0.0.0
 [DNS Server 2] : 0.0.0.0
 [MAC Address] : 24-6F-28-42-DA-90
 [Channel] : 8
 [TxPower] : 19.5dBm
 [RSSI] : 0dBm

If you want to continue
 Please press the FEED button

- Bluetooth

A8 PRIME

(Model : PB-A8 v1.2)

F/W Ver. : P2.05-CAP06[2020/09/08]

.....

[USB Mode] -----> Actual USB
 [Paper Width] -----> 80mm
 [Paper Type] -----> TF50KS-E2D
 [Black Mark Mode] -----> Disable
 [Auto Load Mode] -----> Disable
 [Sensing Level] -----> Level 7
 [Mark Range] -----> 169mm

.....

----- Ethernet Configuration -----

[DHCP mode] : Disable (Static IP)
 [Static IP] : 192.168.10.10
 [Gateway IP] : 192.168.10.1
 [Subnet Mask] : 255.255.255.0
 [Local Port] : 9100
 [Inact. Time] : 0
 [MAC Address] : 60-04-17-30-00-00



----- Wireless Configuration -----

[F/W Version] : 3.3_3.3.0
 [Mode] : Bluetooth
 [Device Name] : A8_BT_XXXXXX
 [PIN-Code] : 0000
 [MAC Address] : 24-6F-28-42-DA-90
 [Auth] : 2
 [RSSI] : 0dBm

If you want to continue
 Please press the FEED button

3. NETWORK SETTING

The procedure for setting up the A8 printer's Wire/Wireless network in the network setting tool is as follows.

1) Wireless Mode (Wi-Fi AP/Station, Bluetooth)

[Search Printer] -> [Select Network Mode] -> [Detailed Settings] -> [Setting Complete]

2) Wire Mode (Ethernet)

[Search for Printer] -> [Detailed Network Settings] -> [Setting Complete]

3.1. Search Printer

The purpose of the printer search is to check the status of the network currently being used by the printer and the set information to check whether printing is possible.

3.1.1. Execution

If you download the network setting tool from the homepage and unzip it, the folders as shown in <Figure 3.1.1-1> are created.

.Net_4.6.1	2020-08-06 오전 10:38	파일 폴더	
InTheHand.Net.Personal.dll	2012-06-05 오전 11:18	응용 프로그램 확장	422KB
IPAddressControlLib.dll	2013-11-14 오전 9:33	응용 프로그램 확장	27KB
NetConfig.exe	2020-08-06 오전 10:37	응용 프로그램	93KB
SimpleWifi.dll	2015-07-09 오후 4:15	응용 프로그램 확장	54KB

<Figure 3.1.1-1>

항목	내 용
.Net_4.6.1(folder)	.Net Framework 4.6.1 Offline installation files exist.
NetConfig.exe	Network configuration tool executable file that runs on all x86/x64 systems
*.dll	Libraries required to run the network configuration tool

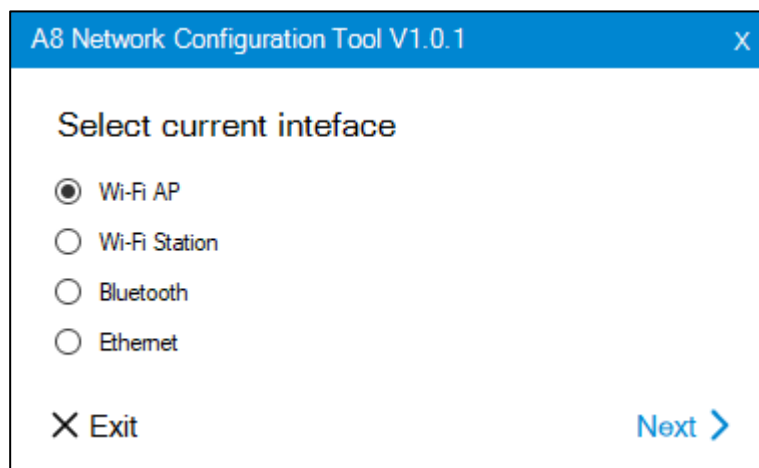
Network Configuration Tool provides applications that can run on both x86/x64 systems. As it is based on ".Net Framework 4.6.1", if the corresponding Framework is not installed on the user's PC, install the corresponding version of the Framework in the ".Net_4.6.1" folder and run the application.

.Net_4.6.1	2020-08-06 오전 10:38	파일 폴더	
InTheHand.Net.Personal.dll	2012-06-05 오전 11:18	응용 프로그램 확장	422KB
IPAddressControlLib.dll	2013-11-14 오전 9:33	응용 프로그램 확장	27KB
NetConfig.exe	2020-08-06 오전 10:37	응용 프로그램	93KB
SimpleWifi.dll	2015-07-09 오후 4:15	응용 프로그램 확장	54KB

<Figure 3.1.1-2>

If you enter the folder containing the executable file, there are files and folders as shown in <Figure 3.1.1-2>. The network setting tool is based on “.Net Framework 4.6.1” and also supports “.Net Framework 4” version.

Click the “NetConfig” file to run the network configuration tool.



<Figure 3.1.1-3>

The meanings of the radio buttons are as follows.

1. Search for printers in Wi-Fi AP mode.
2. Search for printers Wi-Fi Station mode.
3. Search for printers Bluetooth mode.
4. Search for printers Ethernet mode.

Select the mode you want to search among the radio buttons in <Figure 3.1.1-3> and when you press the “NEXT” button, all of printers operating in that mode can be searched.

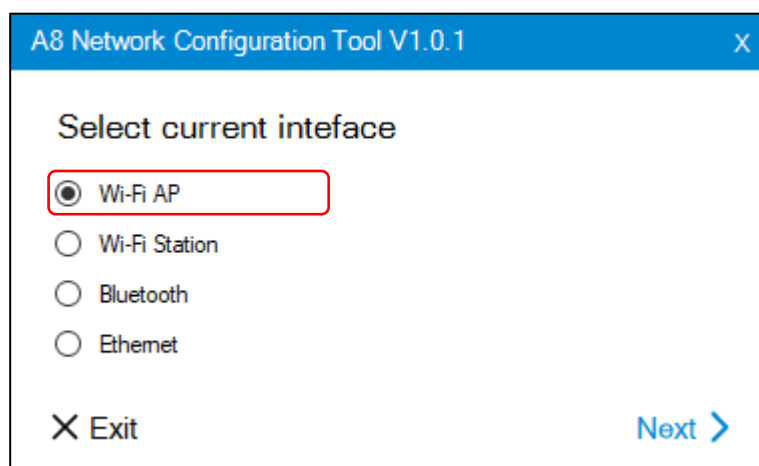
3.1.2. Wi-Fi AP mode printer search

When searching for a printer in Wi-Fi AP mode, the search is performed by using the WLAN Adapter API in “.Net Framework”. The printer should be searched for as shown in <Figure 3.1.2-1> in the Wi-Fi Device Driver and Manager of the PC where the network setting tool is running.

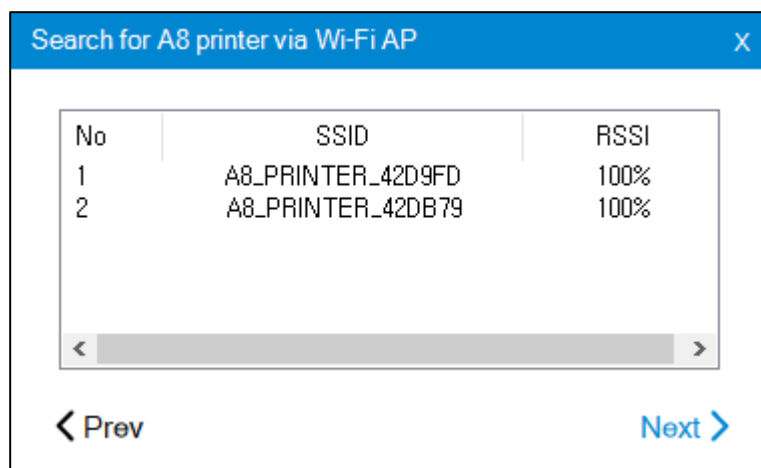


<Figure 3.1.2-1>

If you click the “Next” button after selecting the Wi-Fi AP in <Figure 3.1.2-2>, as in <Figure 3.1.2-3>, if printers are searched, they are marked in the list. If there is an item matching the SSID information, the printer is normally searched.



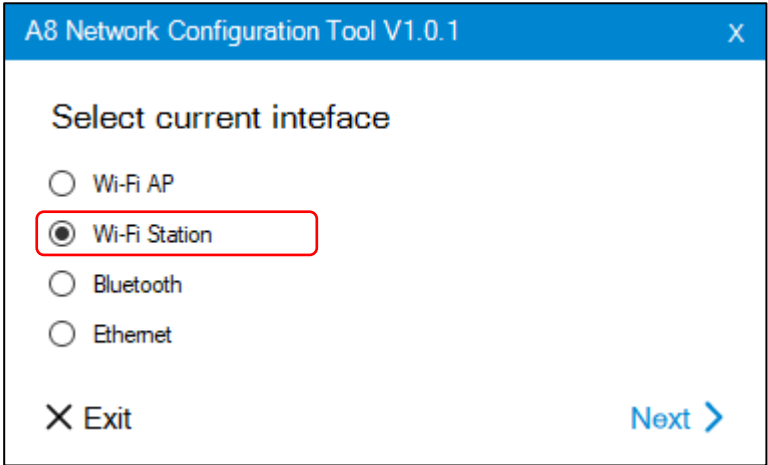
<Figure 3.1.2-2>



<Figure 3.1.2-3>

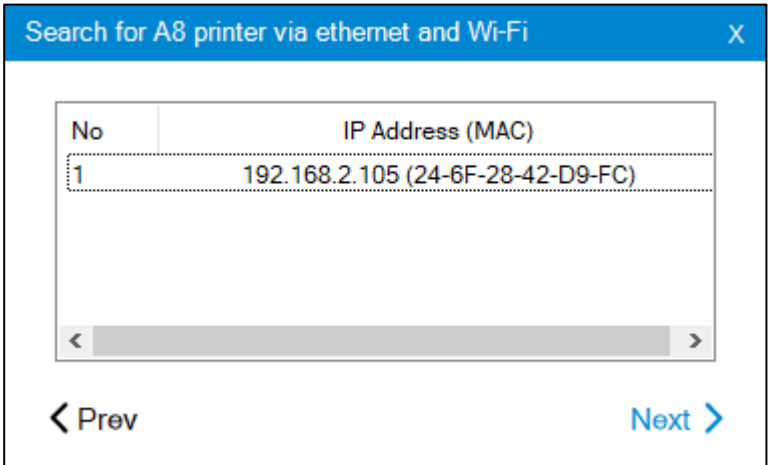
3.1.3. Wi-Fi Station mode printer search

When searching for a printer in Wi-Fi Station mode, the search is performed by UDP port using the WLAN Adapter API in “.Net Framework”. If the PC running the network setup tool does not have a WLAN adapter or the printer is not connected to the same network, the printer device will not be detected.



<Figure 3.1.3-1>

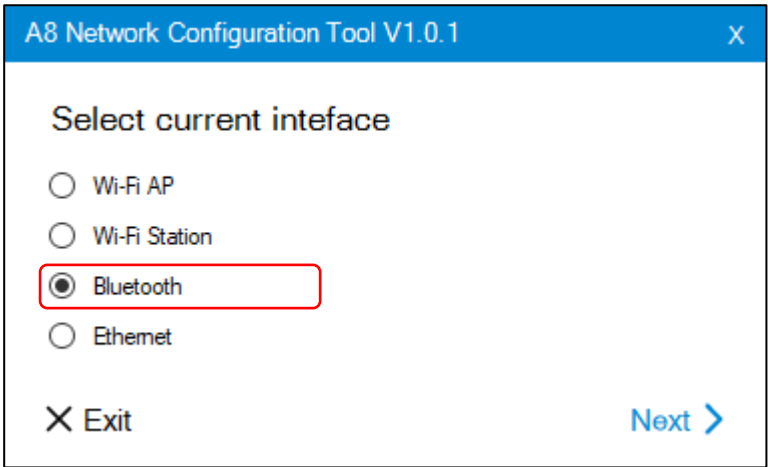
After selecting Wi-Fi Station in <Figure 3.1.3-1>, when you press the “Next” button, the printer devices of that mode are marked on the list as shown in <Figure 3.1.3-2>. If there is an item that matches the MAC information of the Wi-Fi Station obtained from "Check your settings in chapter 2", the printer is normally searched.



<Figure 3.1.3-2>

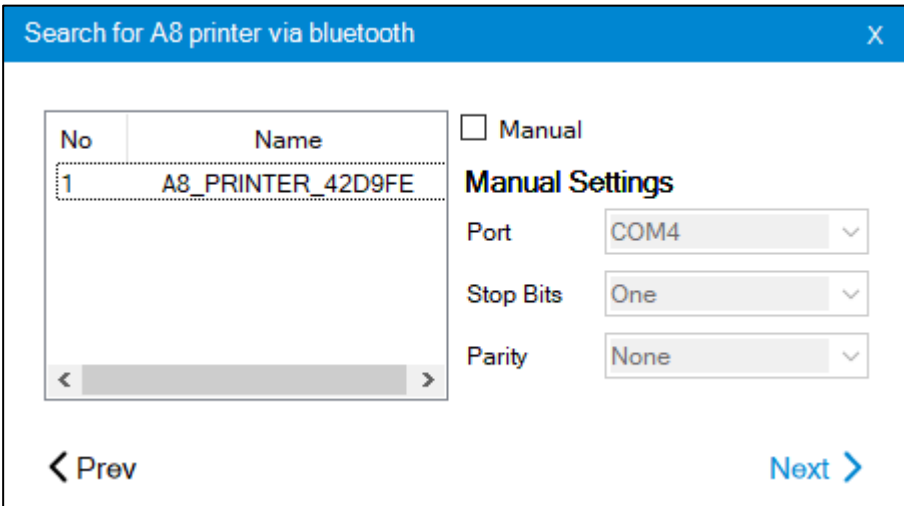
3.1.4. Bluetooth Mode printer search

When searching for a printer in Bluetooth mode, the search proceeds with the Bluetooth Classic SPP profile by using the Bluetooth device API in “.Net Framework”. If the PC running the network setup tool does not have a Bluetooth device, the printer device is not detected.



<Figure 3.1.4-1>

If you select Bluetooth in <Figure 3.1.4-1> and click the “Next” button, the printer devices in the mode are marked in the list as in <Figure 3.1.4-2>. If there is an item matching the last 6 digits of the Hex Code among the Name information, the printer is normally searched. If there is a Bluetooth device in the PC but the printer is not marked on the list, pairing with the application distributed by the manufacturer of the Bluetooth device is performed to secure the COM port connected to the printer, and check the Manual item in <Figure 3.1.4-2>. After that, select the secured COM port to proceed.



<Figure 3.1.4-2>

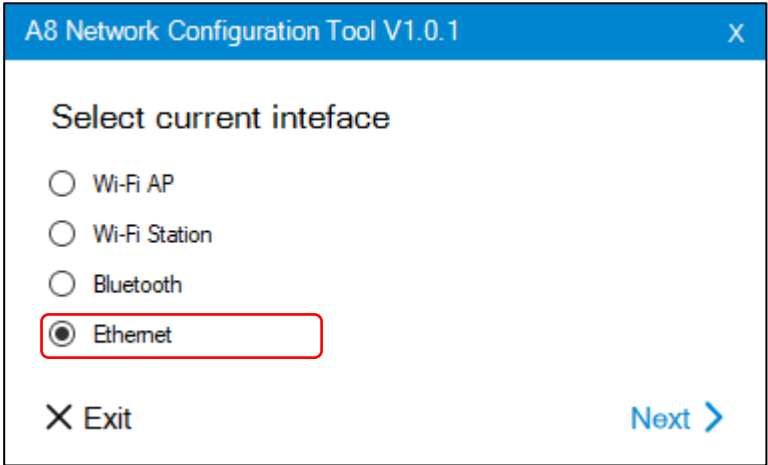
If pairing is normally performed, as "Figure 3.1.4-2"
, the printer's Bluetooth device information and Paired Com port information is marked.



<Figure 3.1.4-3>

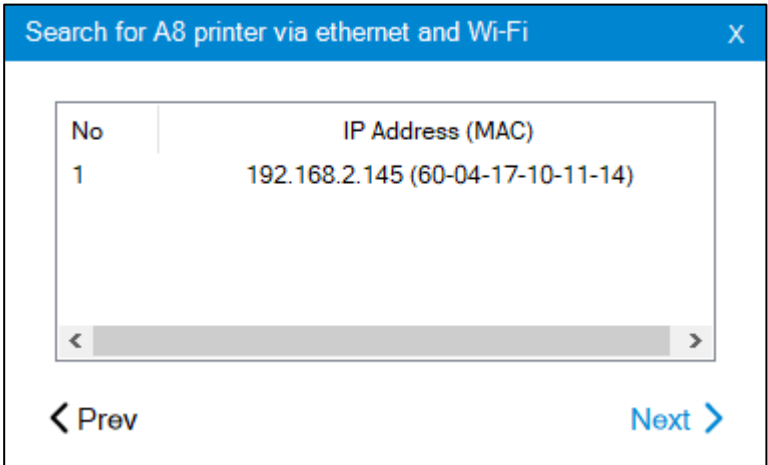
3.1.5. Ethernet

When searching for a printer in Ethernet mode, the search is performed by UDP port using Ethernet Adapter API in ".Net Framework". If the PC running the network setup tool does not have an Ethernet adapter or the printer is not connected to the same network, the printer device is not detected.



<Figure 3.1.5-1>

If you select Ethernet in <Figure 3.1.5-1> and press the "Next" button, the printer devices in the corresponding mode are marked on the list as in <Figure 3.1.5-2>. If there is an item that matches "Ethernet Mac Address" information obtained from "check your settings in chapter 2", the printer search has been normally completed.



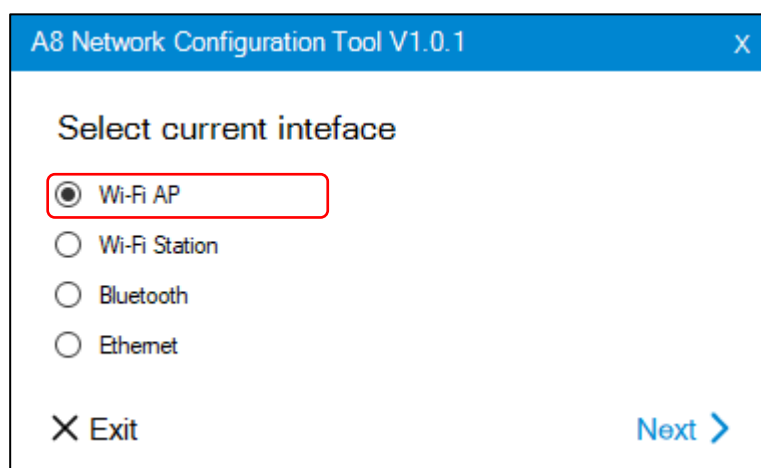
<Figure 3.1.5-2>

3.2. Change wireless network settings

This chapter explains in detail how to change the wireless network mode using the network setting tool.

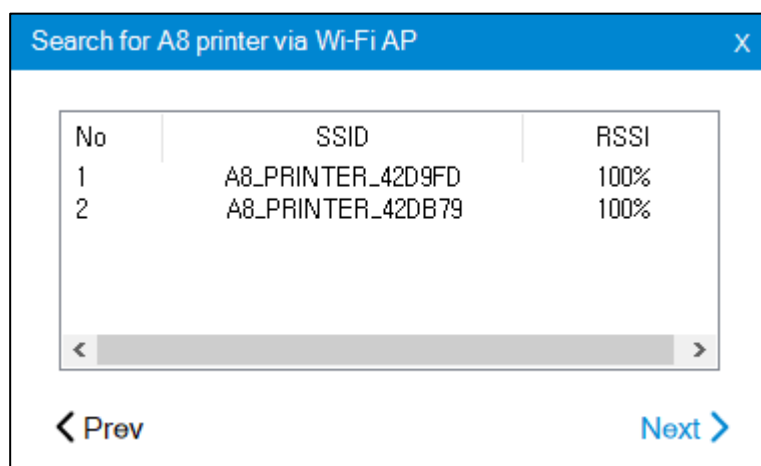
3.2.1. Change from Wi-Fi AP mode to Wi-Fi Station mode

- 1) After selecting the "Wi-Fi AP" radio button in the network setting tool as shown in <Figure 3.2.1-1> below and click the "Next" button.



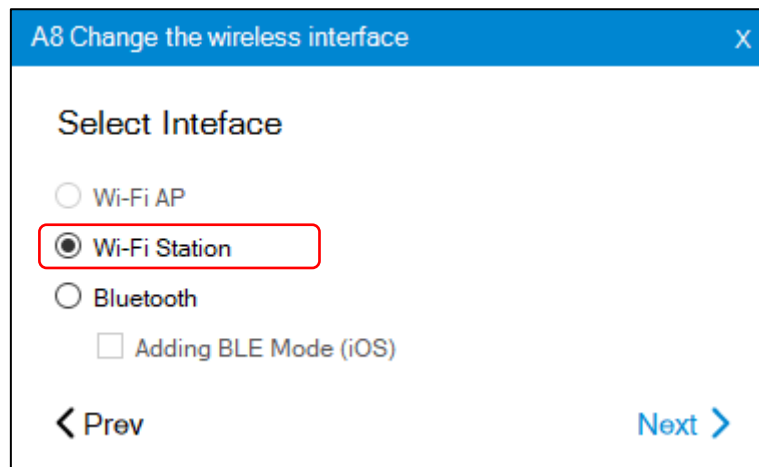
<Figure 3.2.1-1>

- 2) A list of printers operating in "Wi-Fi AP" mode is marked as shown in <Figure 3.2.1-2> below. Select the printer you want to change settings for and click the "Next" button.



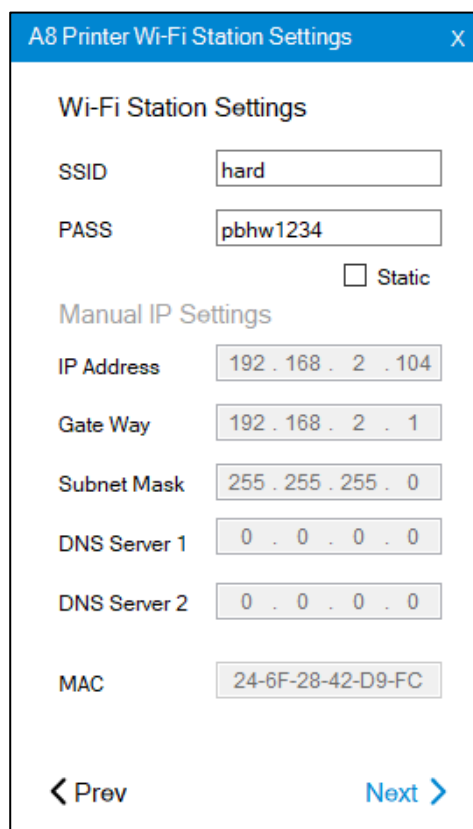
<Figure 3.2.1-2>

- 3) When the menu for changing the wireless network mode appears on the screen as shown in <Figure 3.2.1-3> below, after selecting the radio button of "Wi-Fi Station" on the screen and click the "Next" button.



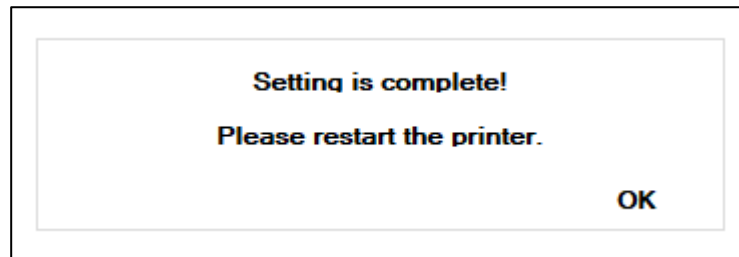
<Figure 3.2.1-3>

- 4) When the menu for detailed setting of "Wi-Fi Station" is marked as shown in <Figure 3.2.1-4> below, enter the AP information of the wireless router you want to connect to in the "Wi-Fi Station Settings" item and If you want to set the IP information as "Static", not DHCP, check the "Static" checkbox and enter the IP information and DNS information. After entering all information, click the "Next" button.

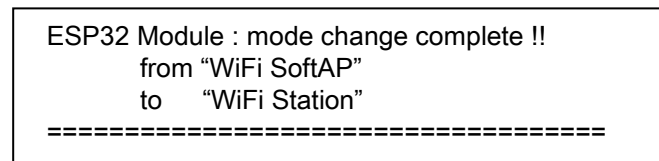


<Figure 3.2.1-4>

- 5) When the setting is completed, a message box as shown in <Fig. 3.2.1-5> is marked and a message as shown in <Fig. 3.2.1-6> is printed on the printer.



<Figure 3.2.1-5>

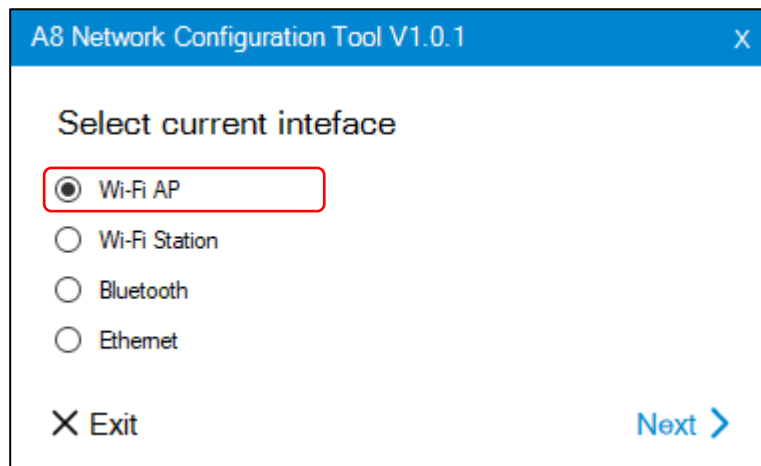


<Figure 3.2.1-6>

Now all the setup process is finished and you are ready to operate the printer with "Wi-Fi Station".

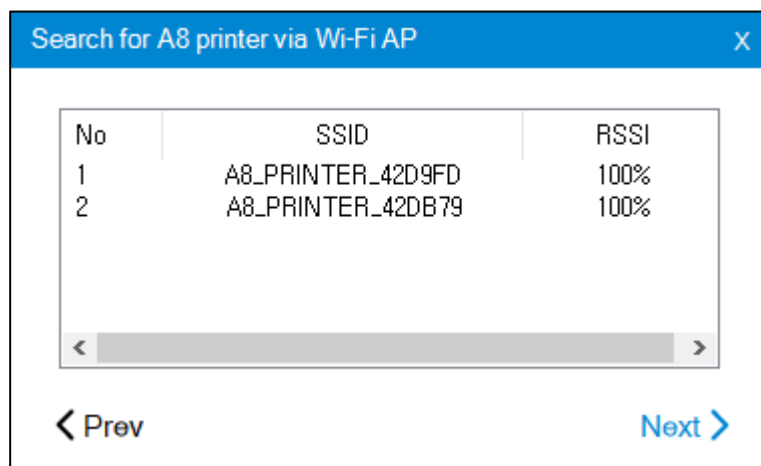
3.2.2. Change from Wi-Fi AP mode to Bluetooth Classic mode

- 1) As shown in <Figure 3.2.2-1> below, select the "Wi-Fi AP" radio button in the network setting tool and click the "Next" button.



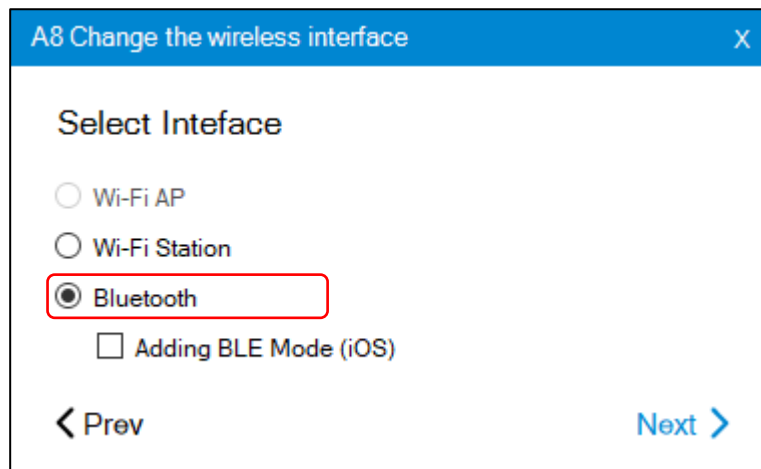
<Figure 3.2.2-1>

- 2) A list of printers operating in "Wi-Fi AP" mode is marked as shown in <Figure 3.2.2-2> below. Select the printer you want to change settings for and click the "Next" button.



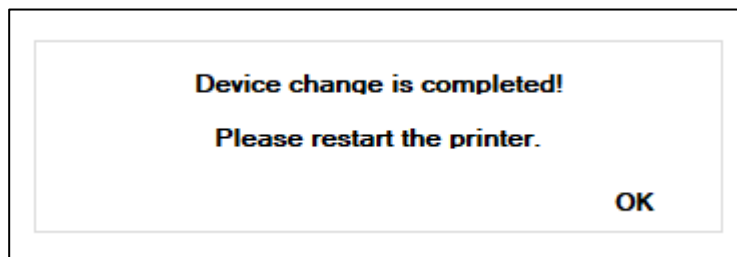
<Figure 3.2.2-2>

- 3) When the menu to change the wireless network mode appears on the screen as shown in <Figure 3.2.2-3> below, select the radio button of "Bluetooth" on the screen and click the "Next" button..

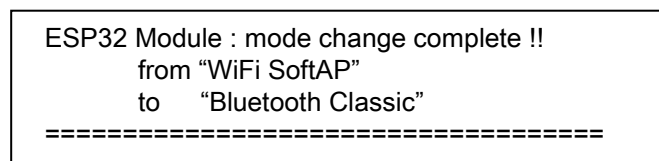


<Figure 3.2.2-3>

- 4) When the setting is completed, a message box as shown in <Fig. 3.2.2-4> is marked and a message as shown in <Fig. 3.2.2-5> is printed on the printer.



<Figure 3.2.2-4>

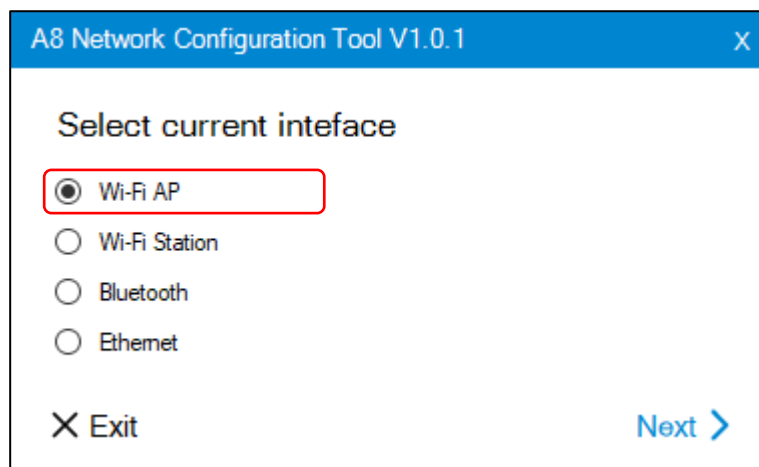


<Figure 3.2.2-5>

Now all the setup process is finished and the printer is ready to operate in "Bluetooth" mode.

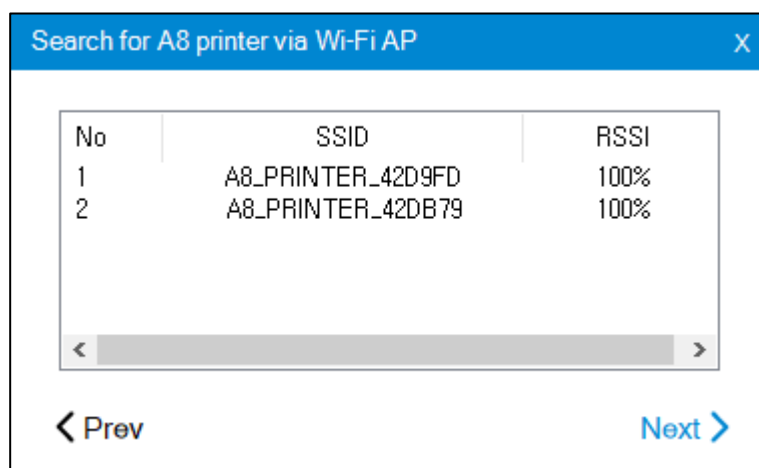
3.2.3. Change from Wi-Fi AP mode to Bluetooth Classic + BLE mode

- 5) Select the "Wi-Fi AP" radio button in the network setting tool as shown in <Figure 3.2.3-1> below and click the "Next" button.



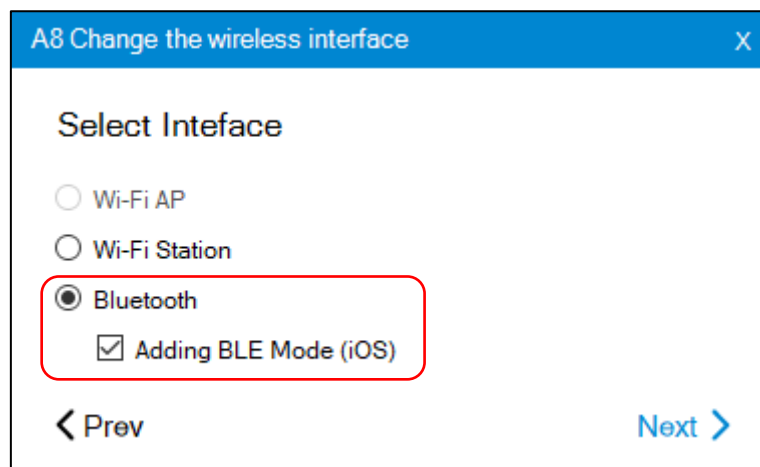
<Figure 3.2.3-1>

- 6) A list of printers operating in "Wi-Fi AP" mode is marked as shown in <Figure 3.2.3-2> below. Select the printer you want to change settings for and click the "Next" button.



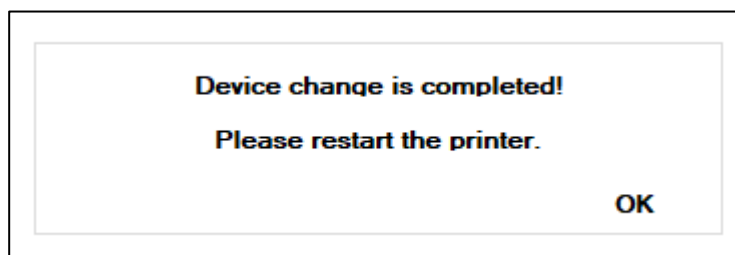
<Figure 3.2.3-2>

- 7) When the menu for changing the wireless network mode appears on the screen as shown in <Figure 3.2.3-3> below, select the radio button of "Bluetooth" on the screen, then check the "Adding BLE Mode (iOS)" checkbox and click the "Next" button.

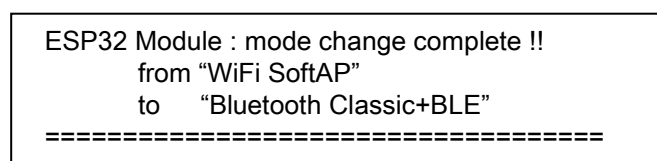


<Figure 3.2.3-3>

- 8) When the setting is completed, a message box as shown in <Fig. 3.2.3-4> is marked and a message as shown in <Fig. 3.2.3-5> is printed on the printer.



<Figure 3.2.3-4>

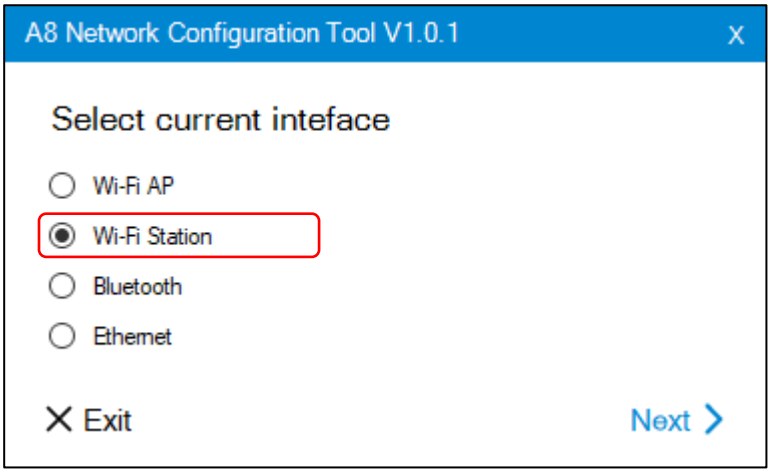


<Figure 3.2.3-5>

Now all the setup process is finished and the printer is ready to operate in "Bluetooth" mode.

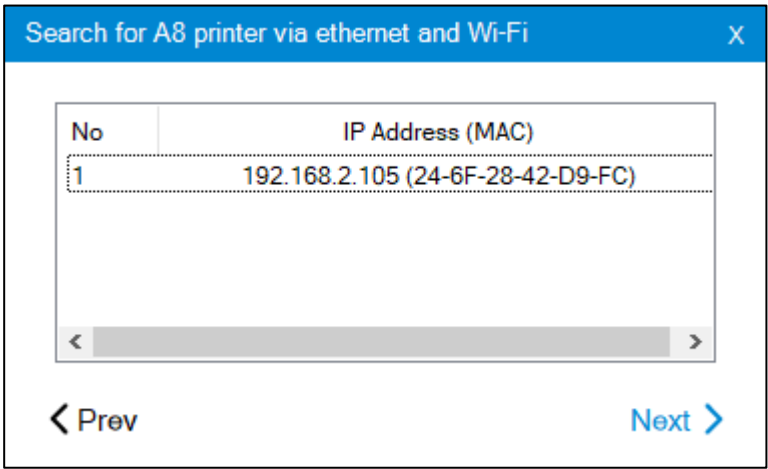
3.2.4. Change from Wi-Fi Station mode to Wi-Fi AP mode

- 1) Select the "Wi-Fi Station" radio button in the network setting tool as shown in <Figure 3.2.4-1> below and click the "Next" button.



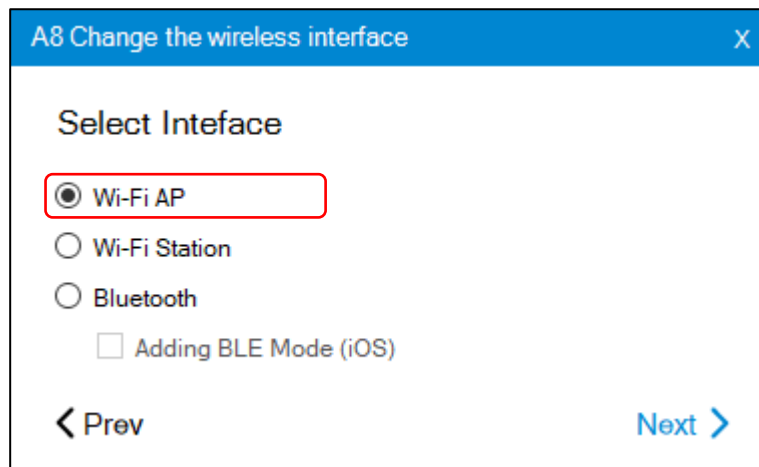
<Figure 3.2.4-1>

- 2) The IP and MAC address of the printer operating in "Wi-Fi Station" mode are marked as shown in <Figure 3.2.4-2> below. Select the printer you want to change settings for and click the "Next" button.



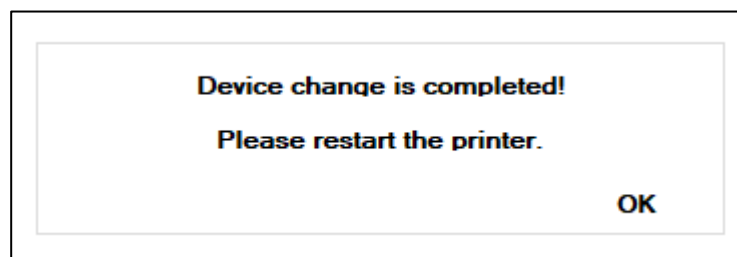
<Figure 3.2.4-2>

- 3) When the menu to change the wireless network mode appears on the screen as shown in <Figure 3.2.4-3> below, select the radio button of "Wi-Fi AP" on the screen and click the "Next" button.

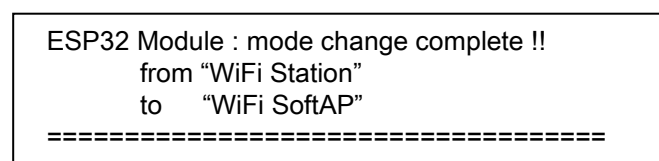


<Figure 3.2.4-3>

- 4) When the setting is completed, a message box as shown in <Fig. 3.2.4-4> is marked and a message as shown in <Fig. 3.2.4-5> is printed on the printer.



<Figure 3.2.4-4>

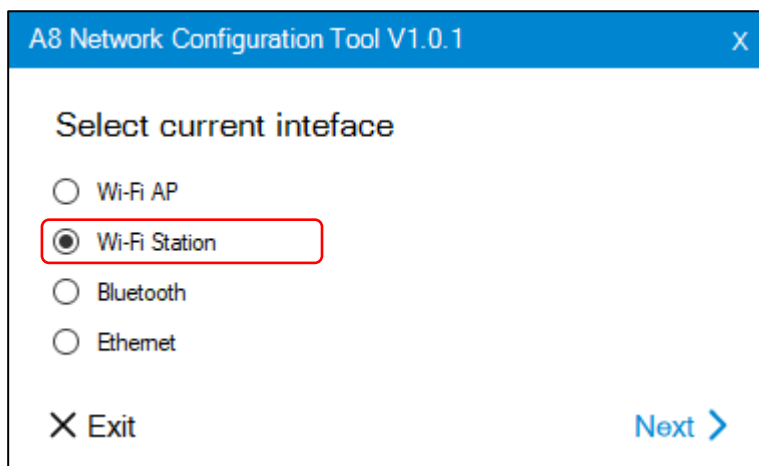


<Figure 3.2.4-5>

Now all the setup process is finished and the printer is ready to operate in "Wi-Fi AP" mode.

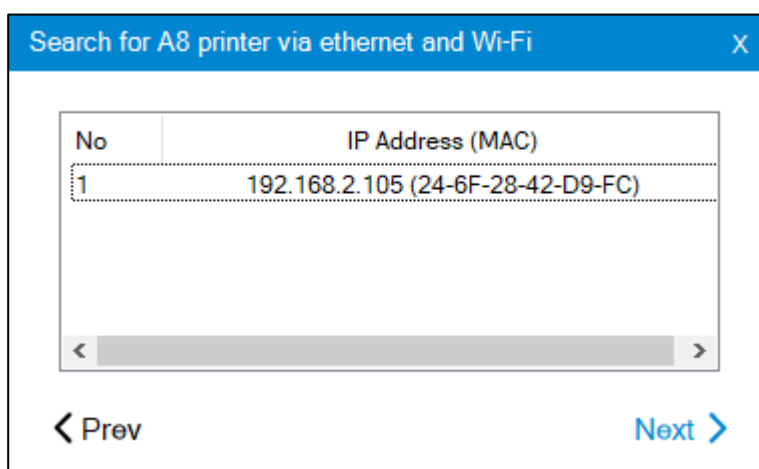
3.2.5. Change from Wi-Fi Station mode to Bluetooth Classic mode

- 1) Select the "Wi-Fi Station" radio button in the network setting tool as shown in <Figure 3.2.5-1> below and click the "Next" button.



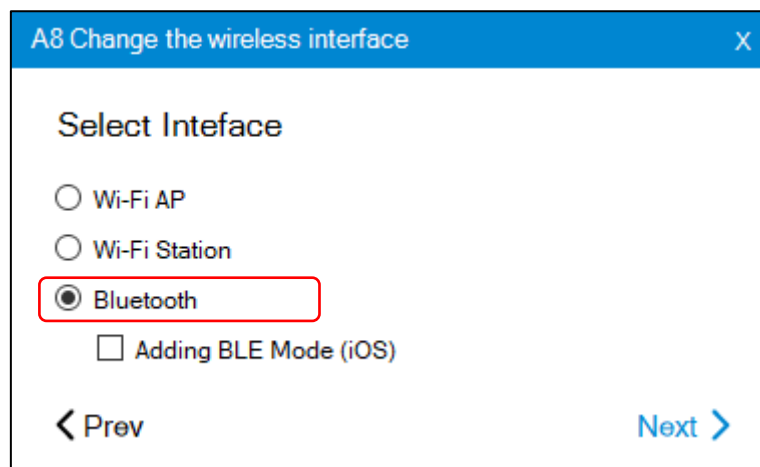
<Figure 3.2.5-1>

- 2) The IP and MAC address of the printer operating in "Wi-Fi Station" mode are marked as shown in <Figure 3.2.5-2> below. Select the printer you want to change settings for and click the "Next" button.



<Figure 3.2.5-2>

- 3) When the menu to change the wireless network mode appears on the screen as shown in <Figure 3.2.5-3> below, select the radio button of "Bluetooth" on the screen and click the "Next" button.

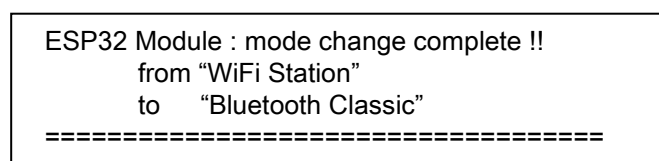


<Figure 3.2.5-3>

- 4) When the setting is completed, a message box as shown in <Fig. 3.2.5-4> is marked and a message as shown in <Fig. 3.2.5-5> is printed on the printer.



<Figure 3.2.5-4>

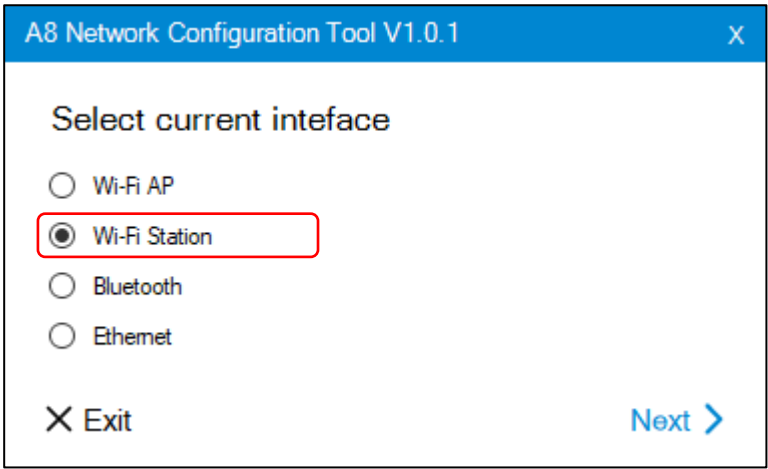


<Figure 3.2.5-5>

Now all the setup process is finished and the printer is ready to operate in "Bluetooth" mode.

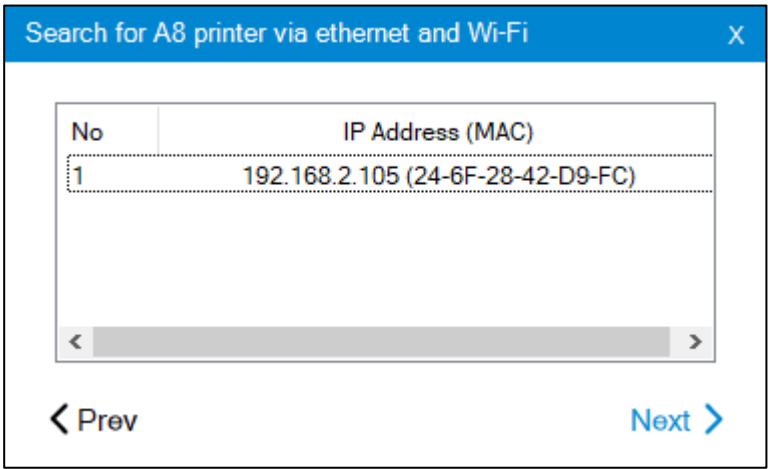
3.2.6. Change from Wi-Fi Station mode to Bluetooth Classic + BLE mode

- 1) Select the "Wi-Fi Station" radio button in the network setting tool as shown in <Figure 3.2.6-1> below and click the "Next" button.



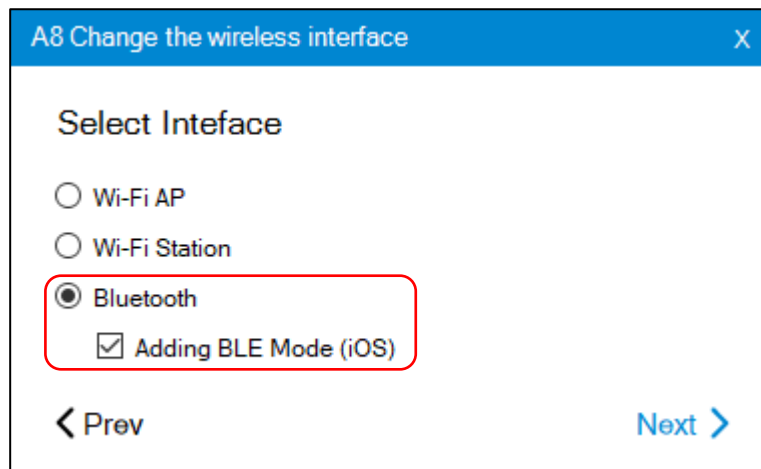
<Figure 3.2.6-1>

- 2) The IP and MAC address of the printer operating in "Wi-Fi Station" mode are marked as shown in <Figure 3.2.6-2> below. Select the printer you want to change settings for and click the "Next" button.



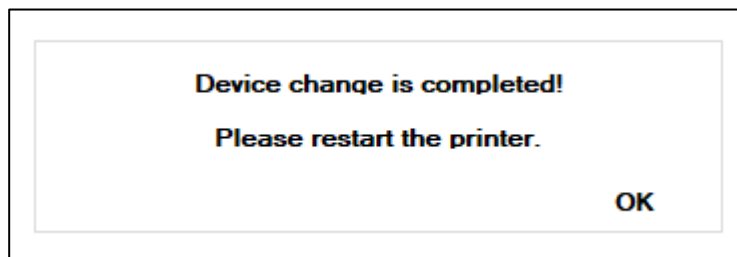
<Figure 3.2.6-2>

- 3) When the menu for changing the wireless network mode appears on the screen as shown in <Figure 3.2.6-3> below, select the radio button of "Bluetooth" on the screen, then check the "Adding BLE Mode (iOS)" checkbox and click the "Next" button.

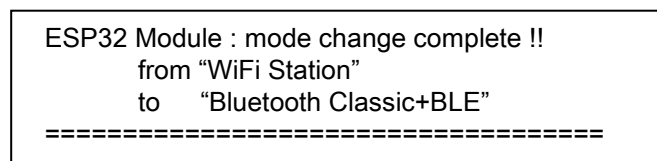


<Figure 3.2.6-3>

- 4) When the setting is completed, a message box as shown in <Fig. 3.2.6-4> is marked and a message as shown in <Fig. 3.2.6-5> is printed on the printer.



<Figure 3.2.6-4>

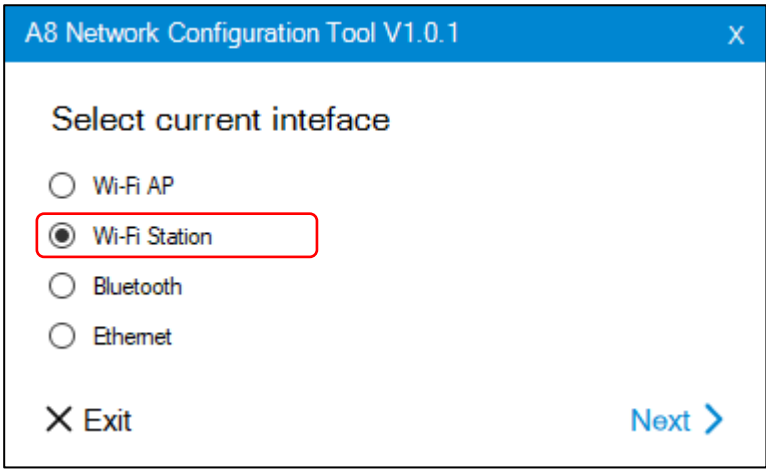


<Figure 3.2.6-5>

Now all the setup process is finished and the printer is ready to operate in "Bluetooth" mode.

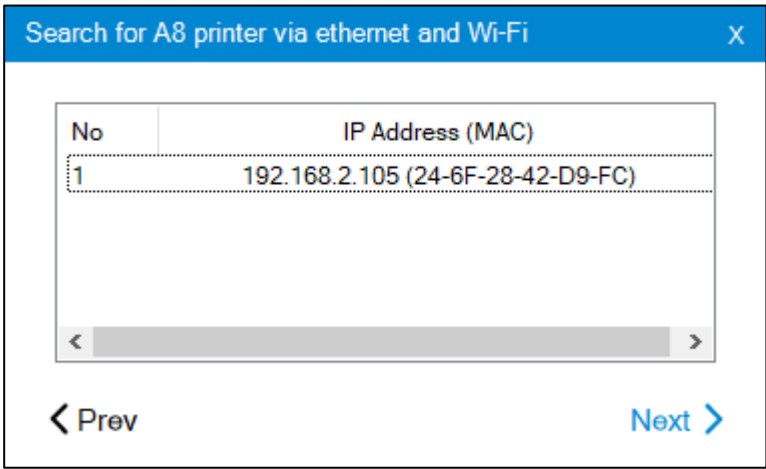
3.2.7. Change from Wi-Fi Station mode to Wi-Fi Station settings

- 1) Select the "Wi-Fi Station" radio button in the network setting tool as shown in <Figure 3.2.7-1> below and click the "Next" button.



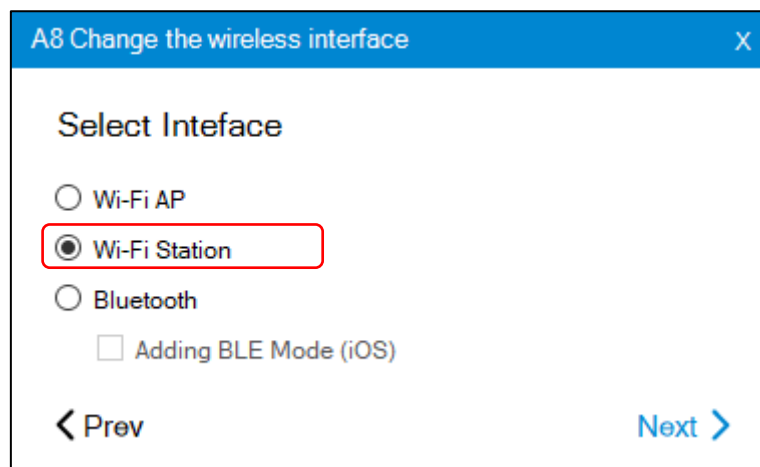
<Figure 3.2.7-1>

- 2) The IP and MAC address of the printer operating in "Wi-Fi Station" mode are marked as shown in <Figure 3.2.7-2> below. Select the printer you want to change settings for and click the "Next" button.



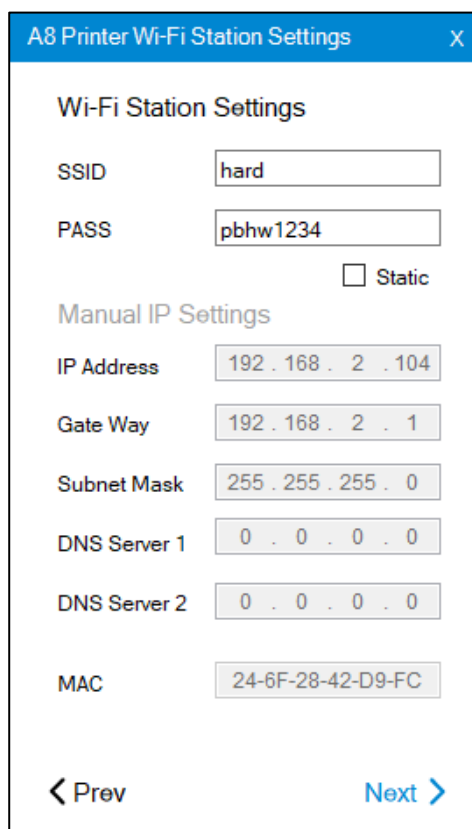
<Figure 3.2.7-2>

- 3) When the menu for changing the wireless network mode appears on the screen as shown in <Figure 3.2.7-3> below, select the radio button of "Wi-Fi Station" on the screen and click the "Next" button.



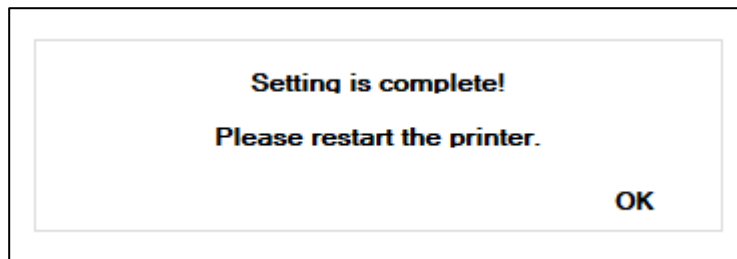
<Figure 3.2.7-3>

- 4) If the menu for detailed setting of "Wi-Fi Station" is marked as shown in <Figure 3.2.7-4> below, enter the AP information of the wireless router that you want to connect to in the Wi-Fi Station Setting item. If you want to set the IP information as "Static", not DHCP, check the "Static" checkbox and enter the IP information and DNS information. After entering all information, click the "Next" button.



<Figure 3.2.7-4>

- 5) When the setting is completed, a message box as shown in <Figure 3.2.7-5> is marked. After this, please reboot the printer manually.

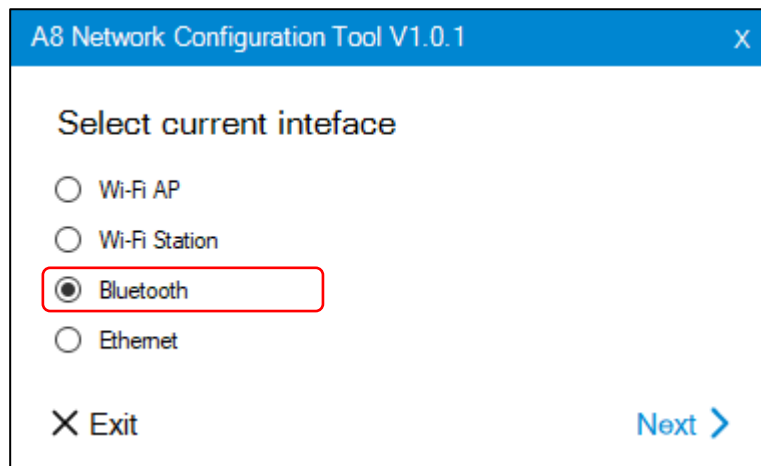


<Figure 3.2.7-5>

Now all the reset process is finished and the printer's "Wi-Fi Station" network is operating based on the new information.

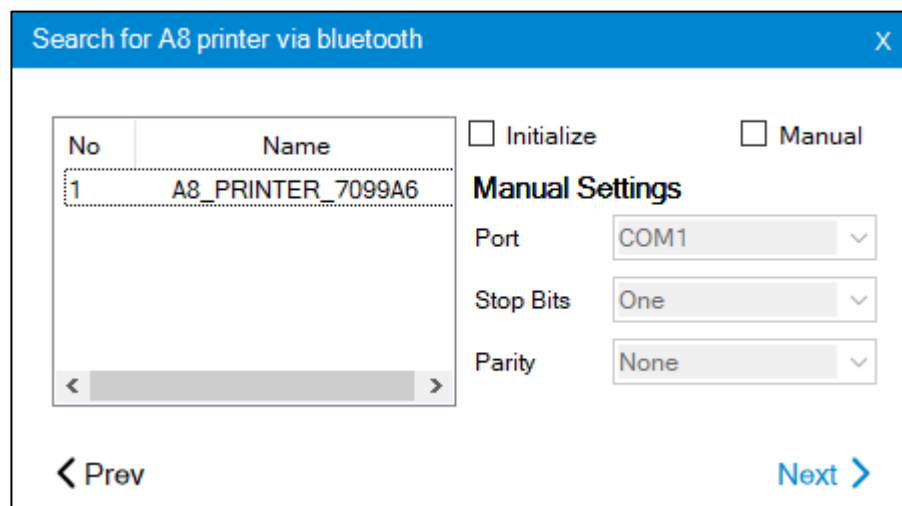
3.2.8. Change from Bluetooth Classic mode to Wi-Fi AP mode

- 1) Select the "Bluetooth" radio button in the network setting tool as shown in <Figure 3.2.8-1> below and click the "Next" button.



<Figure 3.2.8-1>

- 2) As shown in <Figure 3.2.8-2>, the printer operating with "Bluetooth" is marked on the list. After selecting the item that matches the last 6 digit Hex Code among the printer Bluetooth name information obtained from "Chapter 2 Self-Test", click the "Next" button to proceed to the next step. If there is a Bluetooth device in the PC but the printer is not marked on the list, refer to "Chapter 3 3.1.4" to proceed.



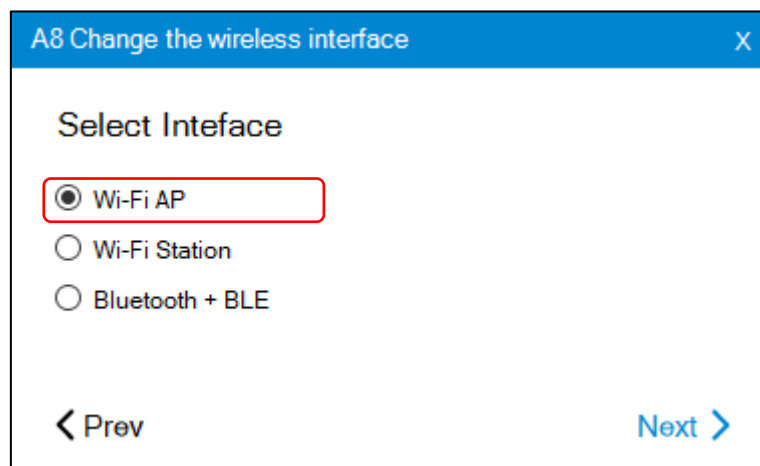
<Figure 3.2.8-2>

- 3) If pairing with the A8 printer is successful, device information and paired serial port are marked as shown in <Fig. 3.2.8-3>. Press the "OK" button to proceed to the next step.



<Figure 3.2.8-3>

- 4) When the menu to change the wireless network mode appears on the screen as shown in <Figure 3.2.8-4> below, select the radio button of "Wi-Fi AP" on the screen and click the "Next" button.



<Figure 3.2.8-4>

- 5) When the setting is completed, a message box as shown in <Fig. 3.2.8-5> is marked and a message as shown in <Fig. 3.2.8-6> is printed on the printer.



<Figure 3.2.8-5>

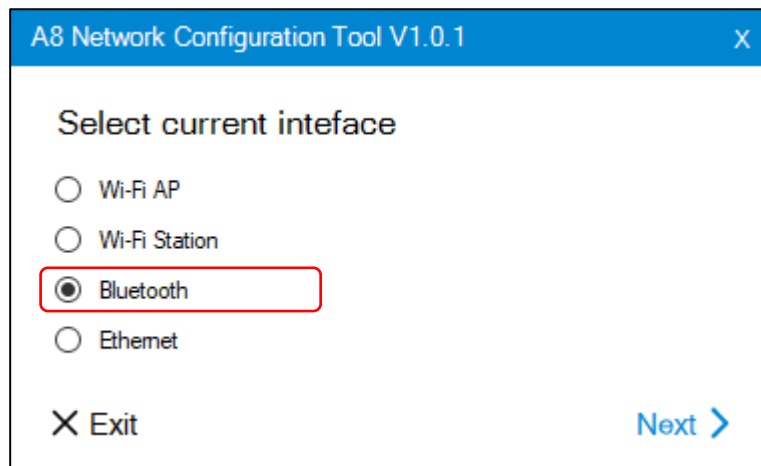
ESP32 Module : mode change complete !!
from "Bluetooth Classic"
to "WiFi SoftAP"
=====

<Figure 3.2.8-6>

Now all the setup process is finished and the printer is ready to operate in "Wi-Fi AP" mode.

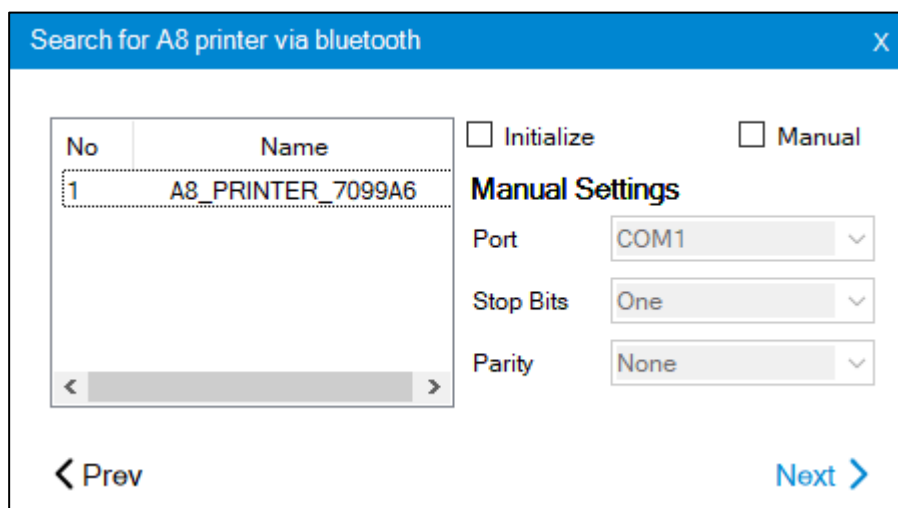
3.2.9. Change from Bluetooth Classic mode to Wi-Fi Station mode

- 1) Select the "Bluetooth" radio button in the network setting tool as shown in <Figure 3.2.9-1> below and click the "Next" button.



<Figure 3.2.9-1>

- 2) As shown in <Figure 3.2.9-2>, the printer operating with "Bluetooth" is marked on the list, and after selecting the item that matches the last 6 digit Hex Code among the printer Bluetooth Name information obtained from "Chapter 2 Self-Test", click the "Next" button to proceed to the next step. If there is a Bluetooth device in the PC but the printer is not marked on the list, refer to "Chapter 3 3.1.4" to proceed.



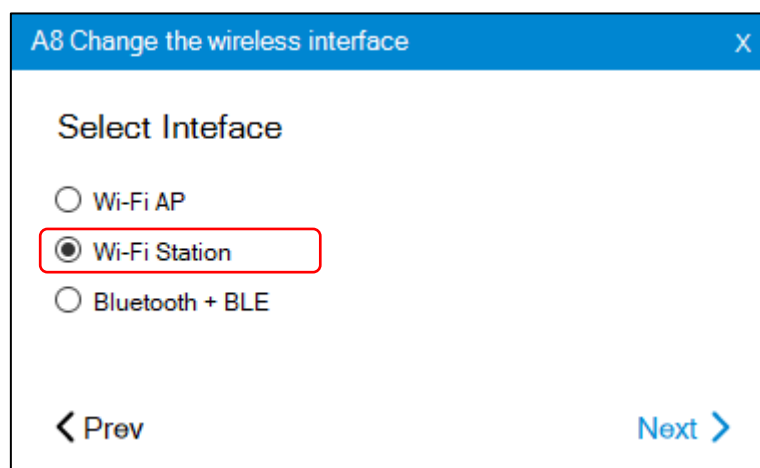
<Figure 3.2.9-2>

- 3) If pairing with the A8 printer is normally established, device information and paired serial port are marked as shown in <Fig. 3.2.9-3>. Press the "OK" button to proceed to the next step.



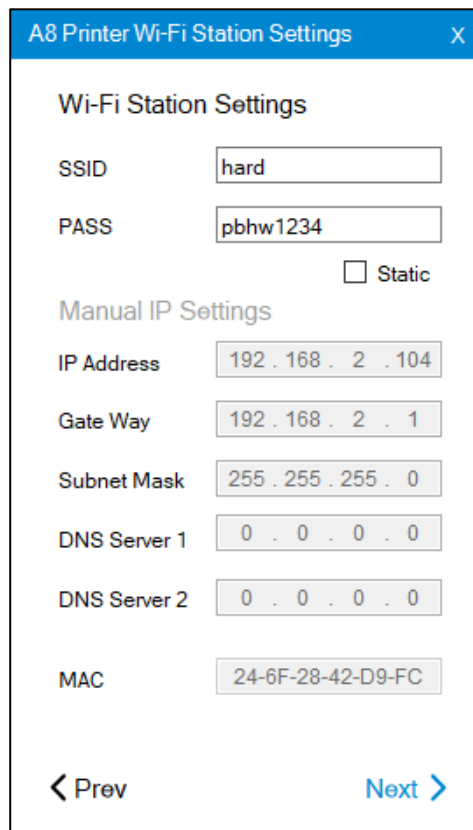
<Figure 3.2.9-3>

- 4) When the menu to change the wireless network mode appears on the screen as shown in <Figure 3.2.9-4> below, select the radio button of "Wi-Fi Station" on the screen and click the "Next" button.



<Figure 3.2.9-4>

- 5) When the menu for detailed setting of "Wi-Fi Station" is marked as shown in <Figure 3.2.9-5> below, enter the AP information of the wireless router that you want to connect to in the Wi-Fi Station Setting item. If you want to set the IP information as "Static", not "DHCP", check the "Static" checkbox and enter the IP information and DNS information. After entering all information, click the "Next" button.



A8 Printer Wi-Fi Station Settings

Wi-Fi Station Settings

SSID: hard

PASS: pbhw1234

☐ Static

Manual IP Settings

IP Address: 192 . 168 . 2 . 104

Gate Way: 192 . 168 . 2 . 1

Subnet Mask: 255 . 255 . 255 . 0

DNS Server 1: 0 . 0 . 0 . 0

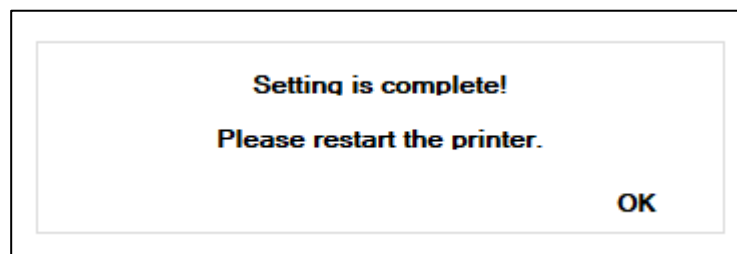
DNS Server 2: 0 . 0 . 0 . 0

MAC: 24-6F-28-42-D9-FC

< Prev Next >

<Figure 3.2.9-5>

- 6) When the setting is completed, a message box as shown in <Fig. 3.2.9-6> is marked and a message as shown in <Fig. 3.2.9-7> is printed on the printer.



<Figure 3.2.9-6>

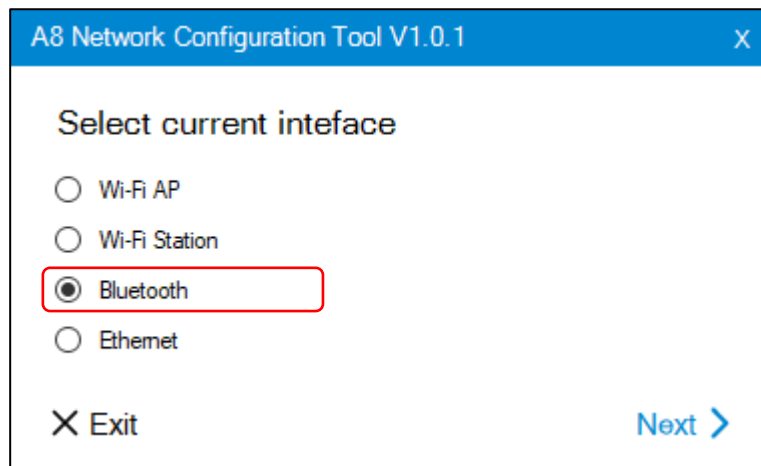
ESP32 Module : mode change complete !!
from "Bluetooth Classic"
to "WiFi Station"
=====

<Figure 3.2.9-7>

Now all the setup process is finished and you are ready to operate the printer with "Wi-Fi Station".

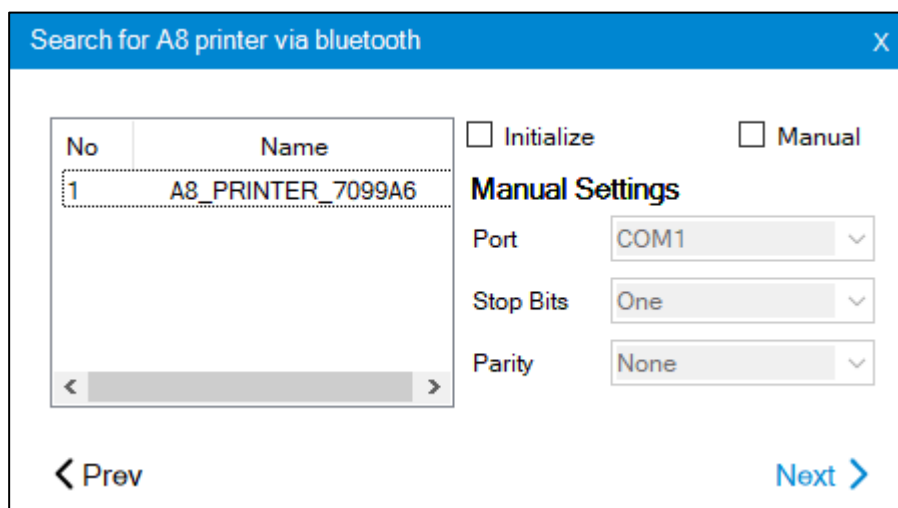
3.2.10. Change from Bluetooth Classic mode to Classic + BLE mode

- 1) Select the "Bluetooth" radio button in the network setting tool as shown in <Figure 3.2.10-1> below and click the "Next" button.



<Figure 3.2.10-1>

- 2) As shown in <Figure 3.2.10-2>, the printer operating "Bluetooth" is marked on the list. After selecting the item that matches the last 6 digit Hex Code among the printer Bluetooth name information obtained from "Chapter 2 Self-Test", click the "Next" button to proceed to the next step. If there is a Bluetooth device in the PC but the printer is not marked on the list, refer to "Chapter 3 3.1.4" to proceed.



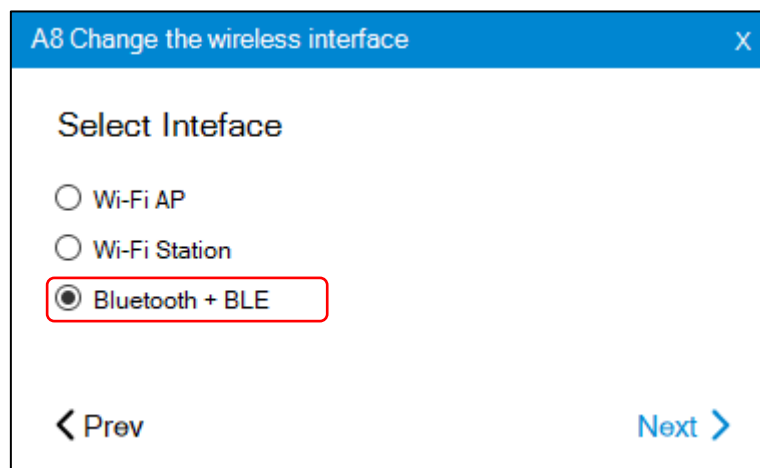
<Figure 3.2.10-2>

- 3) If pairing with the A8 printer is successful, device information and paired serial port are marked as shown in <Fig. 3.2.10-3>. Press the "OK" button to proceed to the next step.



<Figure 3.2.10-3>

- 4) When the menu for changing the wireless network mode appears on the screen as shown in <Figure 3.2.10-4> below, select the radio button of "Bluetooth + BLE" on the screen and press the "Next" button.



<Figure 3.2.10-4>

- 5) When the setting is completed, a message box as shown in <Fig. 3.2.10-5> is marked and a message as shown in <Fig. 3.2.10-6> is printed on the printer.



<Figure 3.2.10-5>

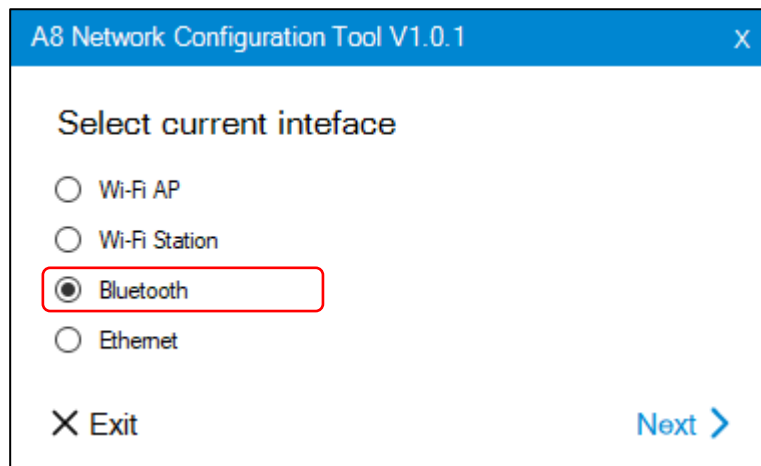
```
ESP32 Module : mode change complete !!  
                from "Bluetooth Classic"  
                to   "Bluetooth Classic+BLE"  
=====
```

<Figure 3.2.10-6>

Now all the setup process is finished and the printer is ready to operate in "Wi-Fi AP" mode.

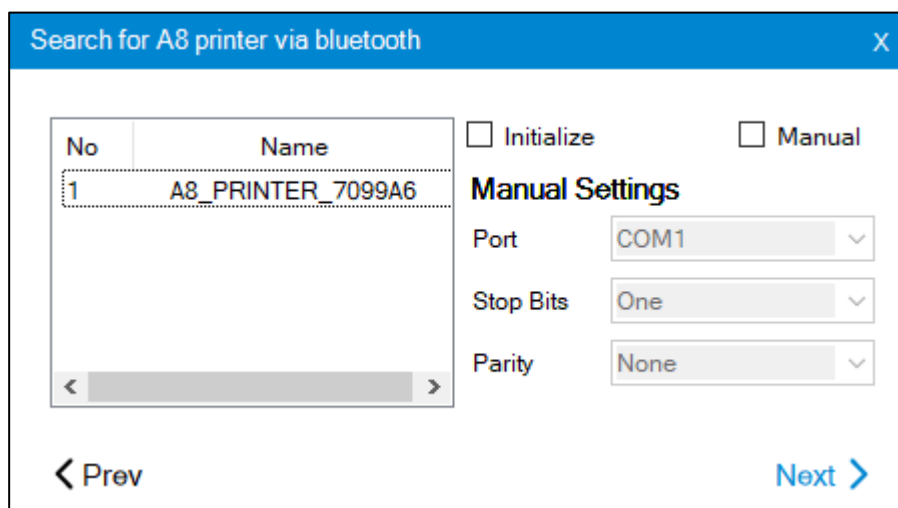
3.2.11. Change from Bluetooth Classic + BLE mode to Wi-Fi AP mode

- 1) Select the "Bluetooth" radio button in the network setting tool as shown in <Figure 3.2.11-1> below and click the "Next" button.



<Figure 3.2.11-1>

- 2) As shown in <Figure 3.2.11-2>, the printer operating "Bluetooth" is marked on the list, and after selecting the item that matches the last 6 digit Hex Code among the printer Bluetooth name information obtained from "Chapter 2 Self-Test", click the "Next" button to proceed to the next step. If there is a Bluetooth device in the PC but the printer is not marked on the list, refer to "Chapter 3 3.1.4" to proceed.



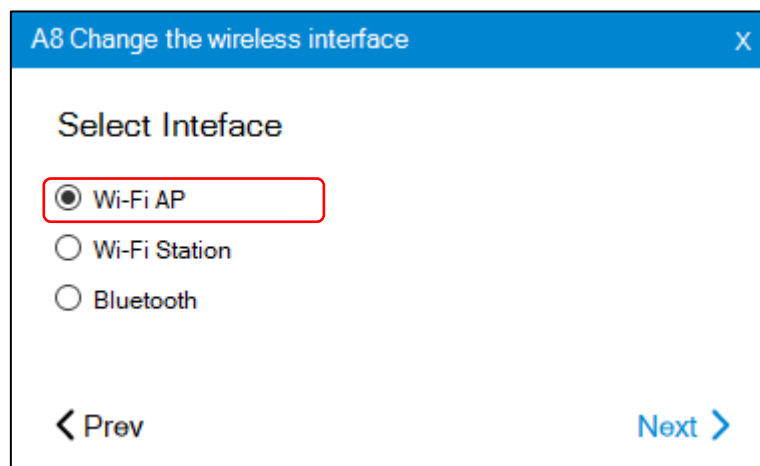
<Figure 3.2.11-2>

- 3) If pairing with the A8 printer is normally performed, device information and paired serial port are marked as shown in <Fig. 3.2.11-3>. Press the "OK" button to proceed to the next step.



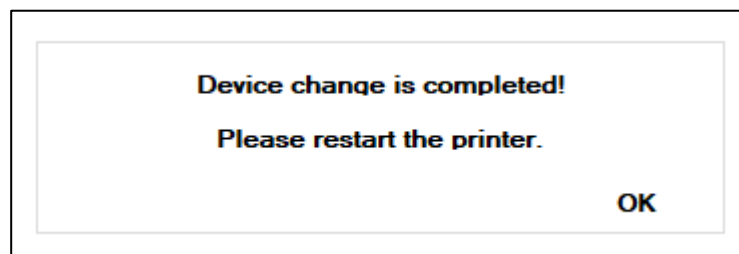
<Figure 3.2.11-3>

- 4) When the menu for changing the wireless network mode appears on the screen as shown in <Figure 3.2.11-4> below, select the radio button of "Wi-Fi AP" on the screen and click the "Next" button.



<Figure 3.2.11-4>

- 5) When the setting is completed, a message box as shown in <Fig. 3.2.11-5> is marked and a message as shown in <Fig. 3.2.11-6> is printed on the printer.



<Figure 3.2.11-5>

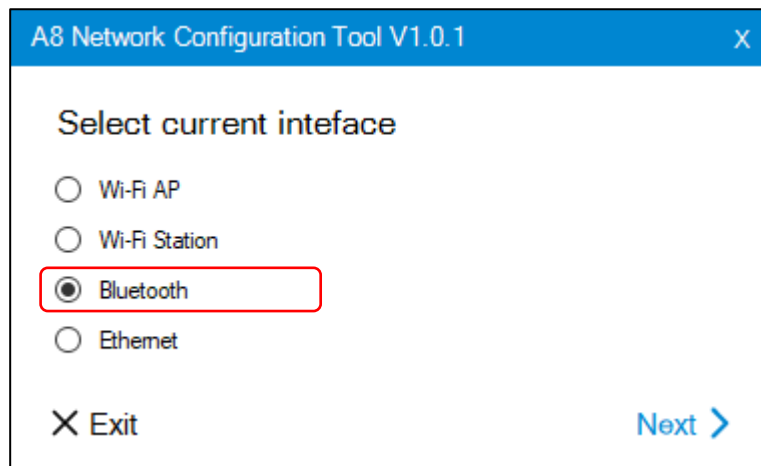
ESP32 Module : mode change complete !!
from "Bluetooth Classic+BLE"
to "WiFi SoftAP"
=====

<Figure 3.2.11-6>

Now all the setup process is finished and the printer is ready to operate in "Wi-Fi AP" mode.

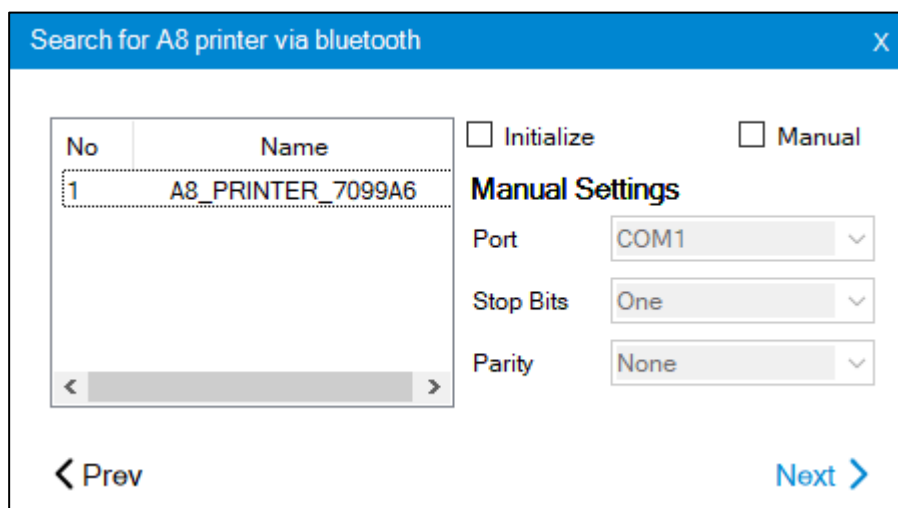
3.2.12. Change from Bluetooth Classic + BLE mode to Wi-Fi Station Mode

- 7) Select the "Bluetooth" radio button in the network setting tool as shown in <Figure 3.2.12-1> below and click the "Next" button.



<Figure 3.2.12-1>

- 8) As shown in <Figure 3.2.12-2>, the printer operating "Bluetooth" is marked on the list, and after selecting the item that matches the last 6 digit Hex Code among the printer Bluetooth name information obtained from "Chapter 2 Self-Test", click the "Next" button to proceed to the next step. If there is a Bluetooth device in the PC but the printer is not marked on the list, refer to "Chapter 3 3.1.4" to proceed.



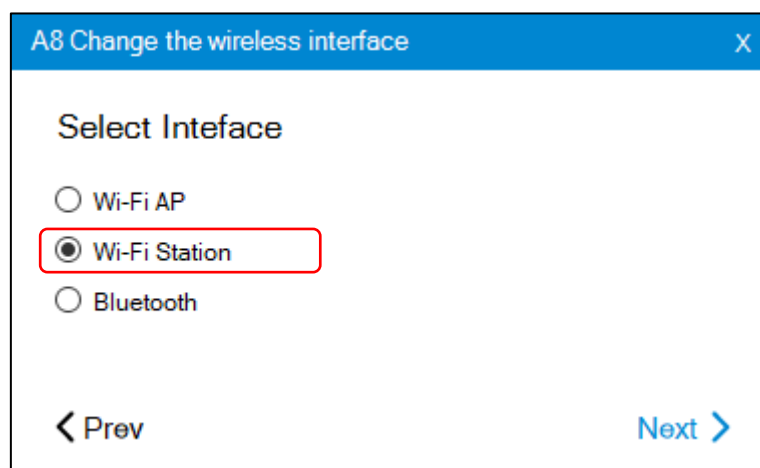
<Figure 3.2.12-2>

- 9) If pairing with the A8 printer is normally performed, device information and paired serial port are marked as shown in <Fig. 3.2.12-3>. Press the "OK" button to proceed to the next step.



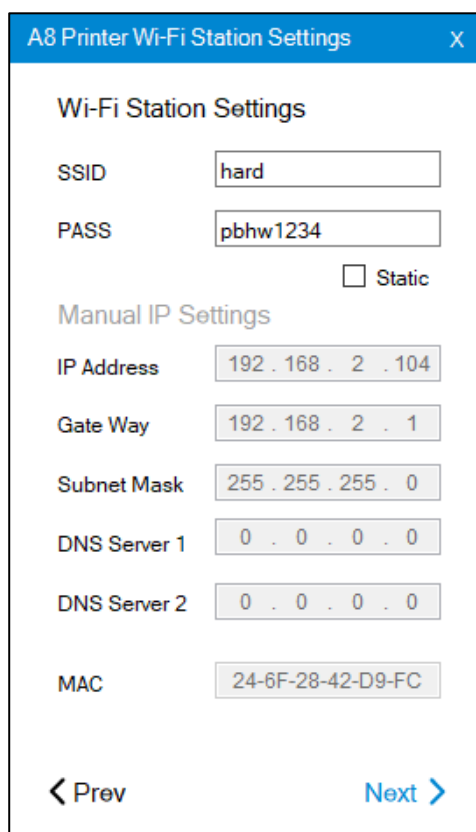
<Figure 3.2.12-3>

- 10) When the menu to change the wireless network mode appears on the screen as shown in <Figure 3.2.12-4> below, select the radio button of "Wi-Fi Station" on the screen and click the "Next" button.



<Figure 3.2.12-4>

- 11) If the menu for detailed setting of "Wi-Fi Station" is marked as shown in <Figure 3.2.12-5> below, enter the AP information of the wireless router that you want to connect to in the Wi-Fi Station Setting item. If you want to set the IP information as "Static", not DHCP, check the "Static" checkbox and enter the IP information and DNS information. After entering all information, click the "Next" button.



A8 Printer Wi-Fi Station Settings

Wi-Fi Station Settings

SSID: hard

PASS: pbhw1234

☐ Static

Manual IP Settings

IP Address: 192 . 168 . 2 . 104

Gate Way: 192 . 168 . 2 . 1

Subnet Mask: 255 . 255 . 255 . 0

DNS Server 1: 0 . 0 . 0 . 0

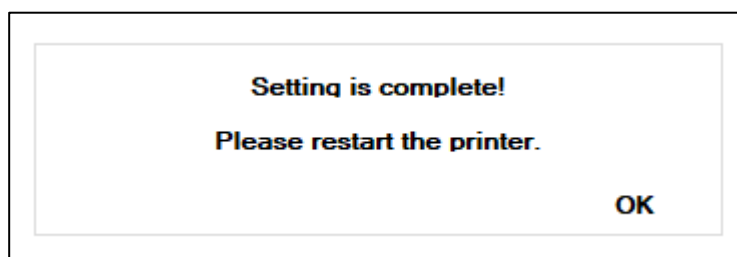
DNS Server 2: 0 . 0 . 0 . 0

MAC: 24-6F-28-42-D9-FC

< Prev Next >

<Figure 3.2.12-5>

- 12) When the setting is completed, a message box as shown in <Fig. 3.2.12-6> is marked and a message as shown in <Fig. 3.2.12-7> is printed on the printer.



<Figure 3.2.12-6>

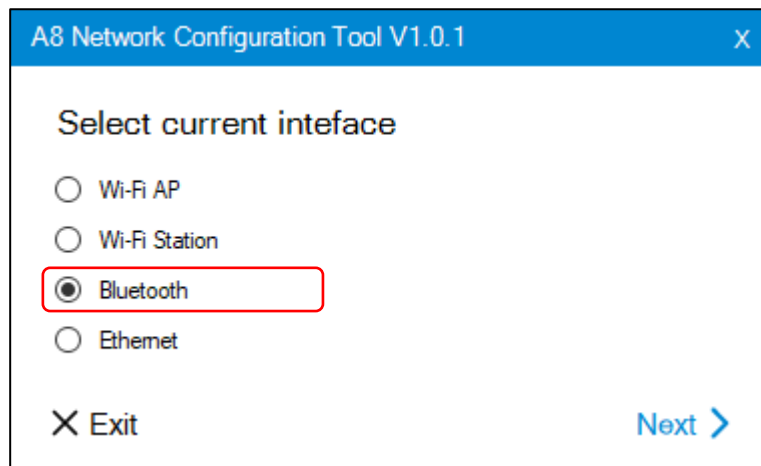
```
ESP32 Module : mode change complete !!  
                from "Bluetooth Classic"  
                to   "WiFi Station"  
=====
```

<Figure 3.2.12-7>

Now all the setup process is finished and you are ready to operate the printer with "Wi-Fi Station".

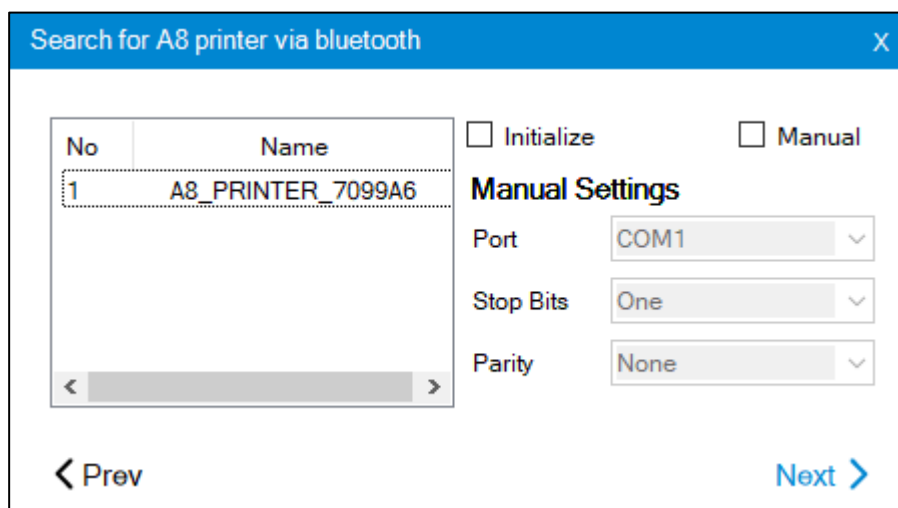
3.2.13. Change from Bluetooth Classic + BLE mode to Classic mode

- 6) Select the "Bluetooth" radio button in the network setting tool as shown in <Figure 3.2.13-1> below and click the "Next" button.



<Figure 3.2.13-1>

- 7) As shown in <Figure 3.2.13-2>, the printer operating "Bluetooth" is marked on the list, and after selecting the item that matches the last 6 digit Hex Code among the printer Bluetooth name information obtained from "Chapter 2 Self-Test", click the "Next" button to proceed to the next step. If there is a Bluetooth device in the PC but the printer is not marked on the list, refer to "Chapter 3 3.1.4" to proceed.



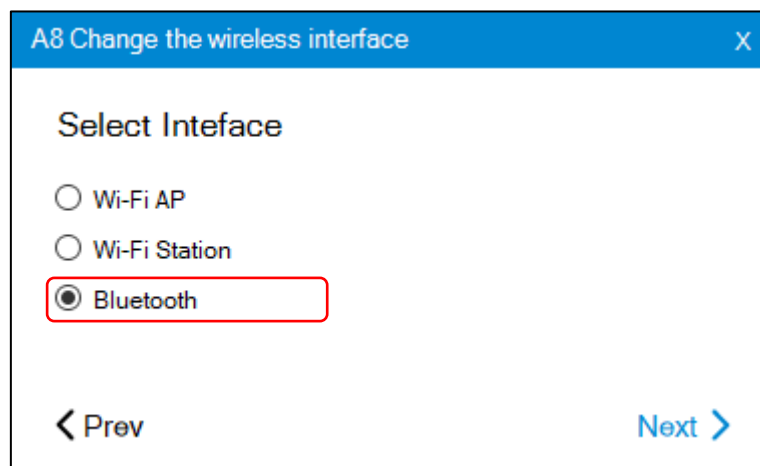
<Figure 3.2.13-2>

- 8) If pairing with the A8 printer is normally established, device information and paired serial port are marked as shown in <Fig. 3.2.13-3>. Press the "OK" button to proceed to the next step.



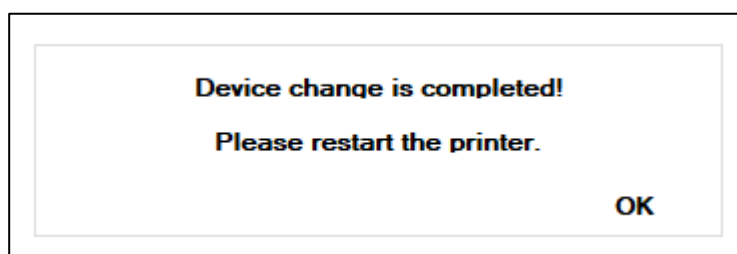
<Figure 3.2.13-3>

- 9) When the menu for changing the wireless network mode appears on the screen as shown in <Figure 3.2.13-4> below, select the radio button of "Bluetooth" on the screen and click the "Next" button.



<Figure 3.2.13-4>

- 10) When the setting is completed, a message box as shown in <Fig. 3.2.13-5> is marked and a message as shown in <Fig. 3.2.13-6> is printed on the printer.



<Figure 3.2.13-5>

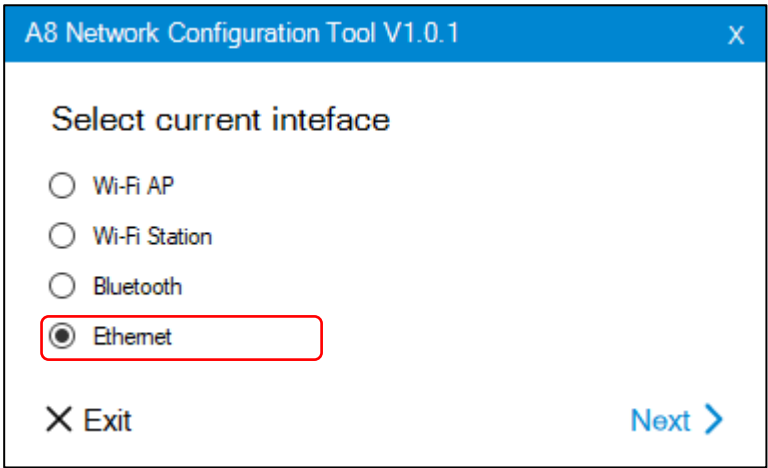
ESP32 Module : mode change complete !!
from "Bluetooth Classic+BLE"
to "Bluetooth Classic"
=====

<Figure 3.2.13-6>

Now all the setup process is finished and the printer is ready to operate in "Wi-Fi AP" mode.

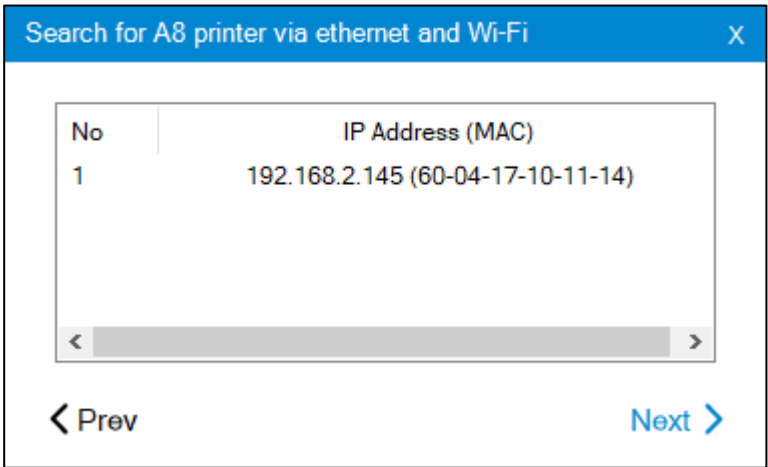
3.3. Ethernet Settings

- 1) Select the "Ethernet" radio button in the network setting tool as shown in <Figure 3.3-1> below and click the "Next" button



<Figure 3.3-1>

- 2) It is marked on the list as shown in <Figure 3.3-2>, and after selecting the item that matches the printer Ethernet Mac Address information obtained from "Checking the settings in Chapter 2", click the "Next" button.



<Figure 3.3-2>

- 3) A menu for setting "Ethernet" is marked as shown in <Figure 3.3-3> below. If you want to set IP information "Static" instead of DHCP, you can input IP information and change Port/Active Time information after checking the "Static" checkbox. When you have finished entering, click the "Next" button.

A8 Printer Ethernet Settings X

☐ DHCP

Manual IP Settings

IP Address 192 . 168 . 2 . 145

Gate Way 192 . 168 . 2 . 1

Subnet Mask 255 . 255 . 255 . 0

Port 9100

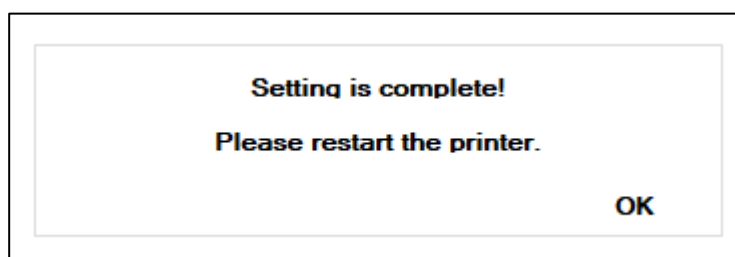
Active Time 0

MAC 60-04-17-10-11-14

< Prev Next >

<Figure 3.3-3>

- 4) When the setting is completed, a message box as shown in <Figure 3.3-4> is marked. After this, please reboot the printer manually.



<Figure 3.3-4>

Now all the reset process is finished and the printer's "Ethernet" network is operating based on the new information.

About POSBANK

POSBANK is a global leading provider of Point of Sale solutions. We offer a wide range of POS terminals, Kiosks, touchscreen monitors, peripherals and POS Software for hospitality and retail industries. By focusing on investment in innovative POS system and custom solutions, we achieve customer satisfaction with best-in-class products and service. For more information, please visit our web site at www.posbank.com.