

# WIZSmartScript Description

(Version 1.01)



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# Document Revision History

Date	Revision	Changes
2011-06-03	V1.0	Official Release
2011-09-19	V1.01	Removed Firmware upgrade chapter

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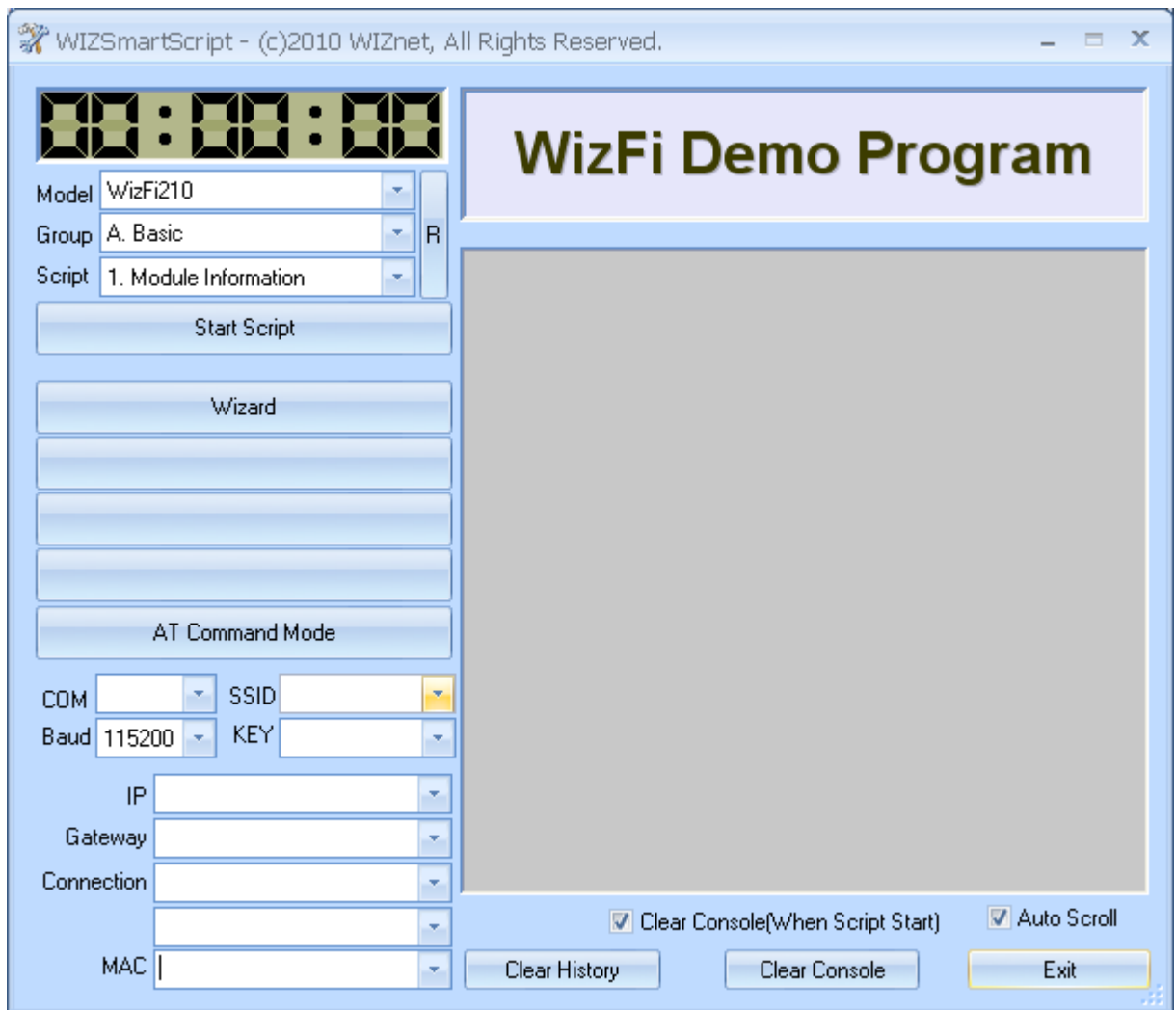
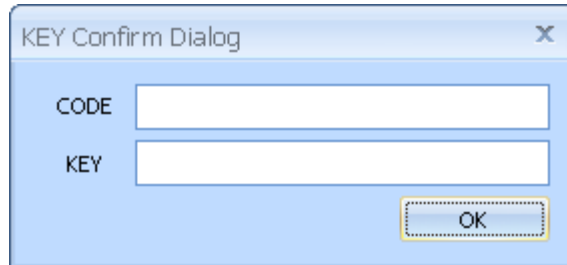
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# 1. Basic Mode

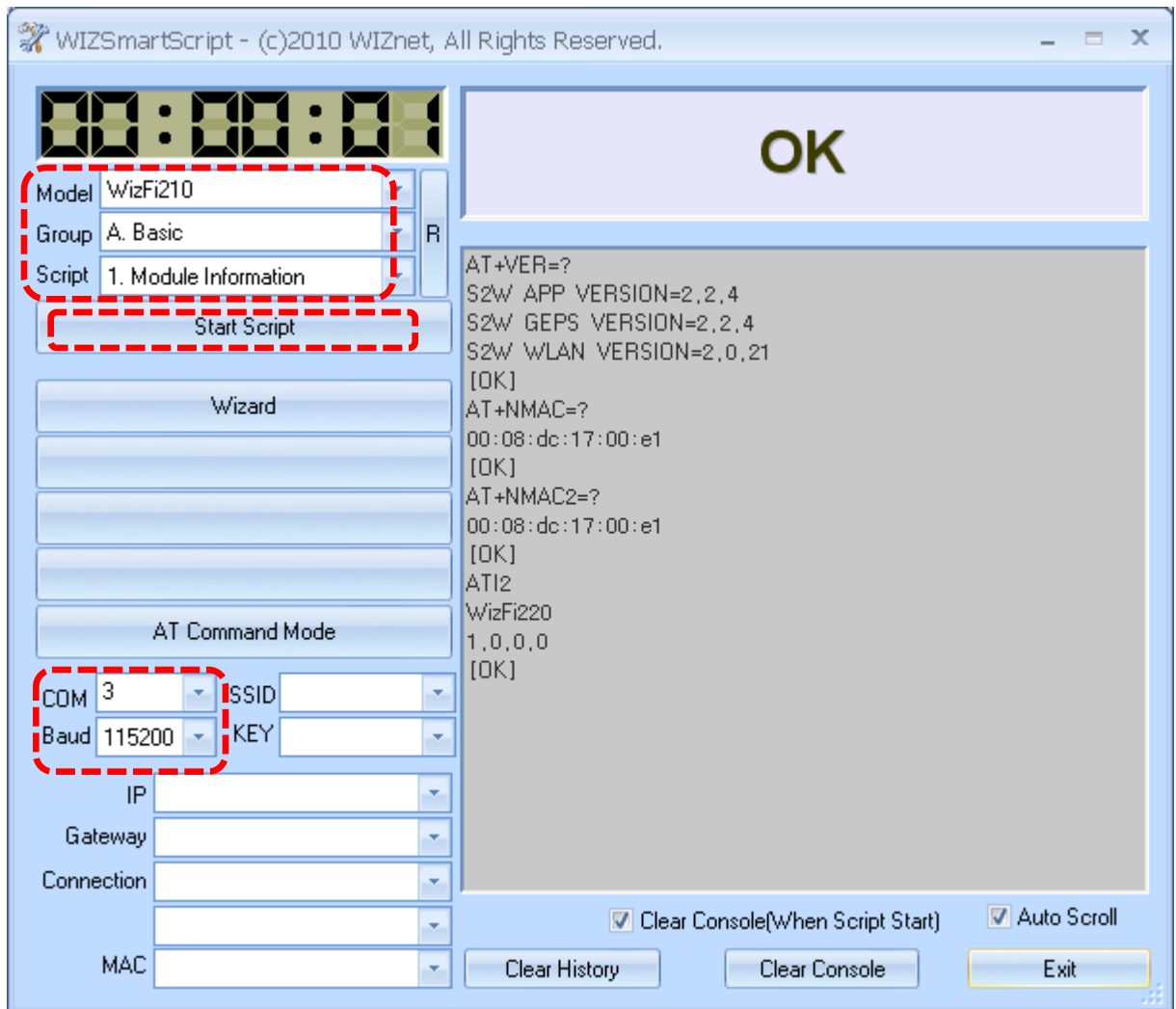
## 1-1) Run Program

1. If you run the WIZSmartScript program, you can see the KEY Confirm Dialog as shown below.
2. If you enter the received CODE and KEY, you can operate the program in normal mode.



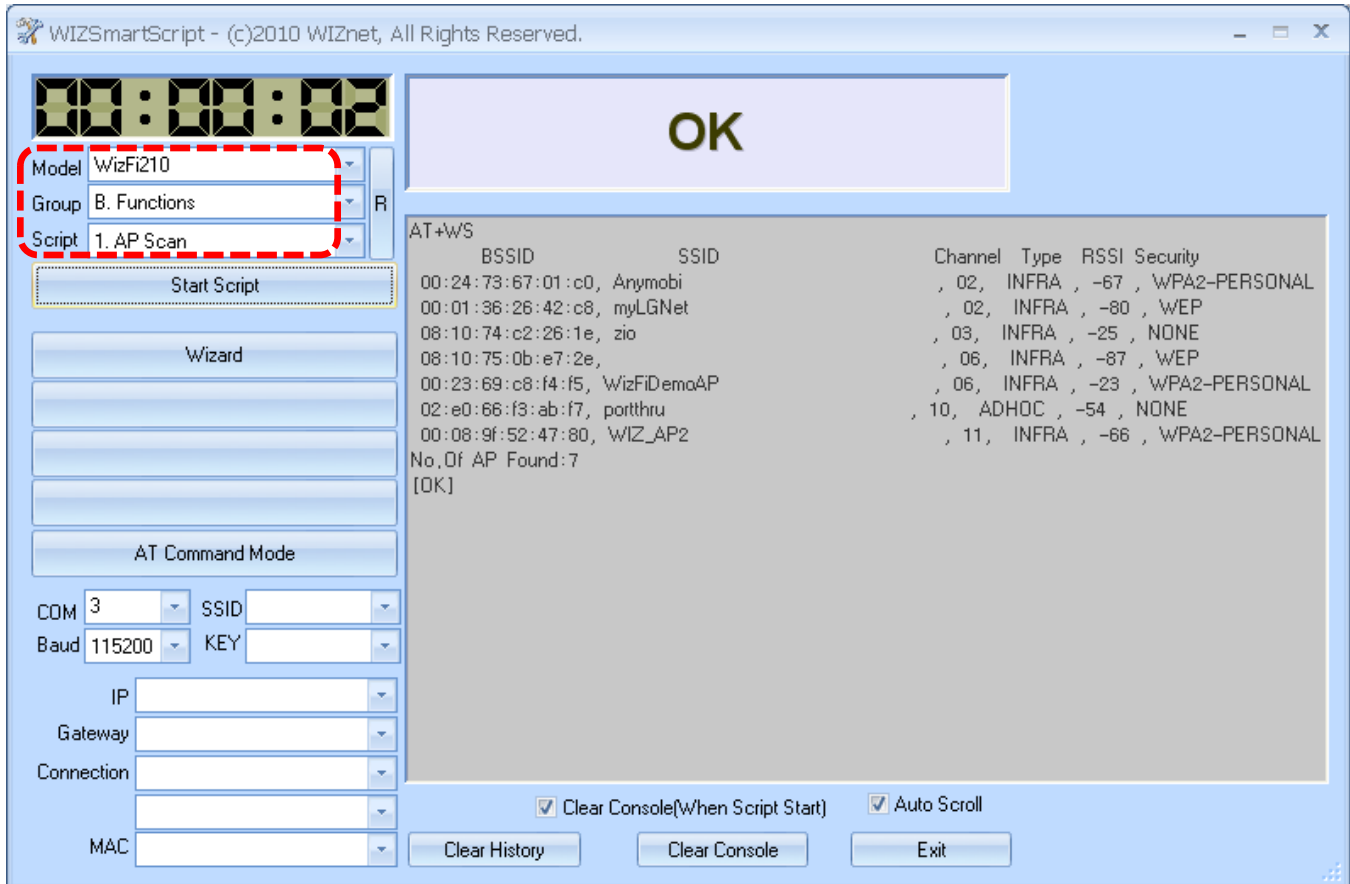
# 1-2) Check basic information

1. Input the COM port of PC and baud rate. (Default Baud Rate : 115200)
2. Select "WizFi210" for Model, "A. Basic" for Group and "1. Module Information" for Script.
3. If you click "Start Script", you can see the basic information of WizFi210 as below.



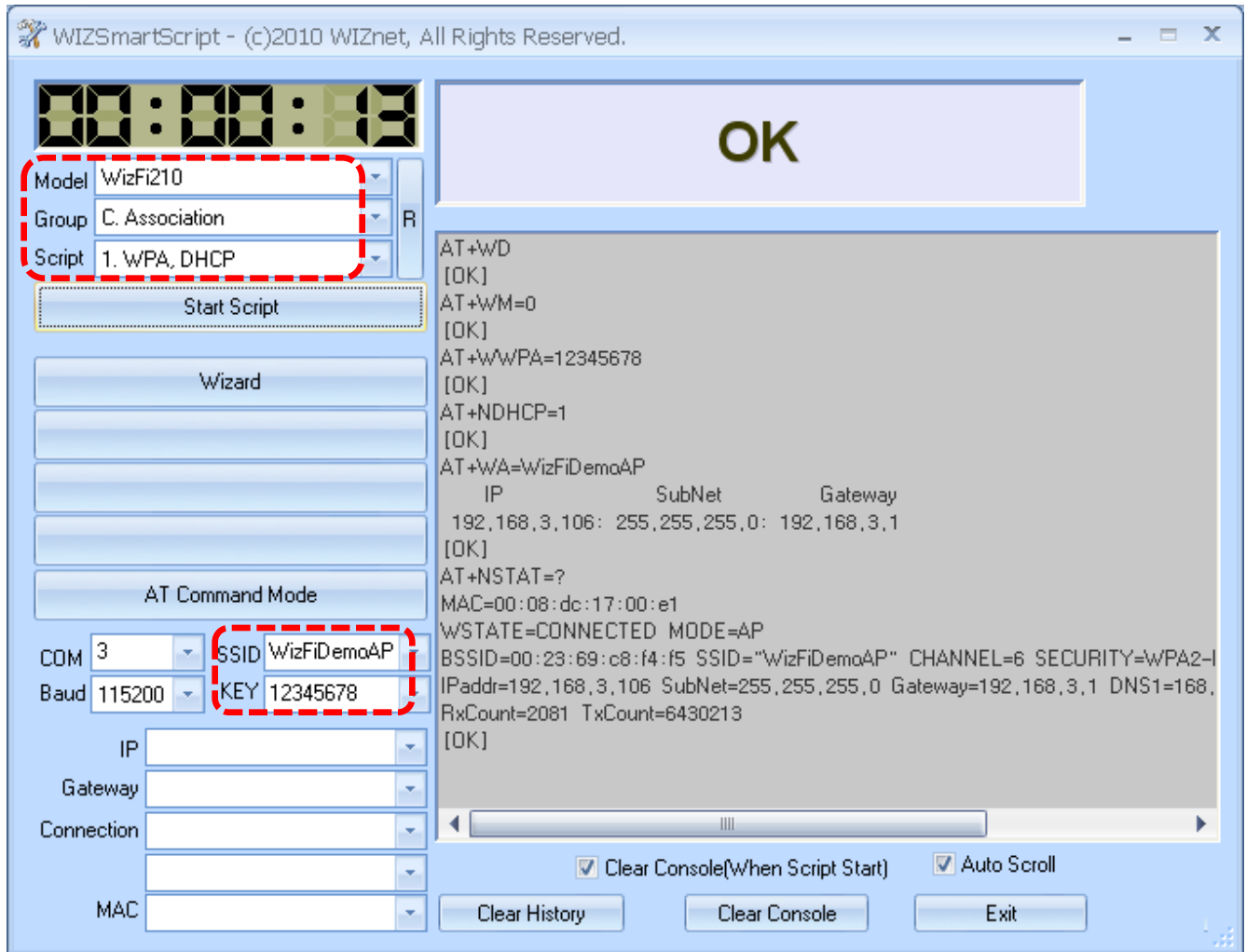
# 1-3) Scan AP

1. Select "WizFi210" for Model, "B. Function" for Group and "1. AP Scan" for Script.
2. If you click "Start Script", you can see the neighboring AP list.



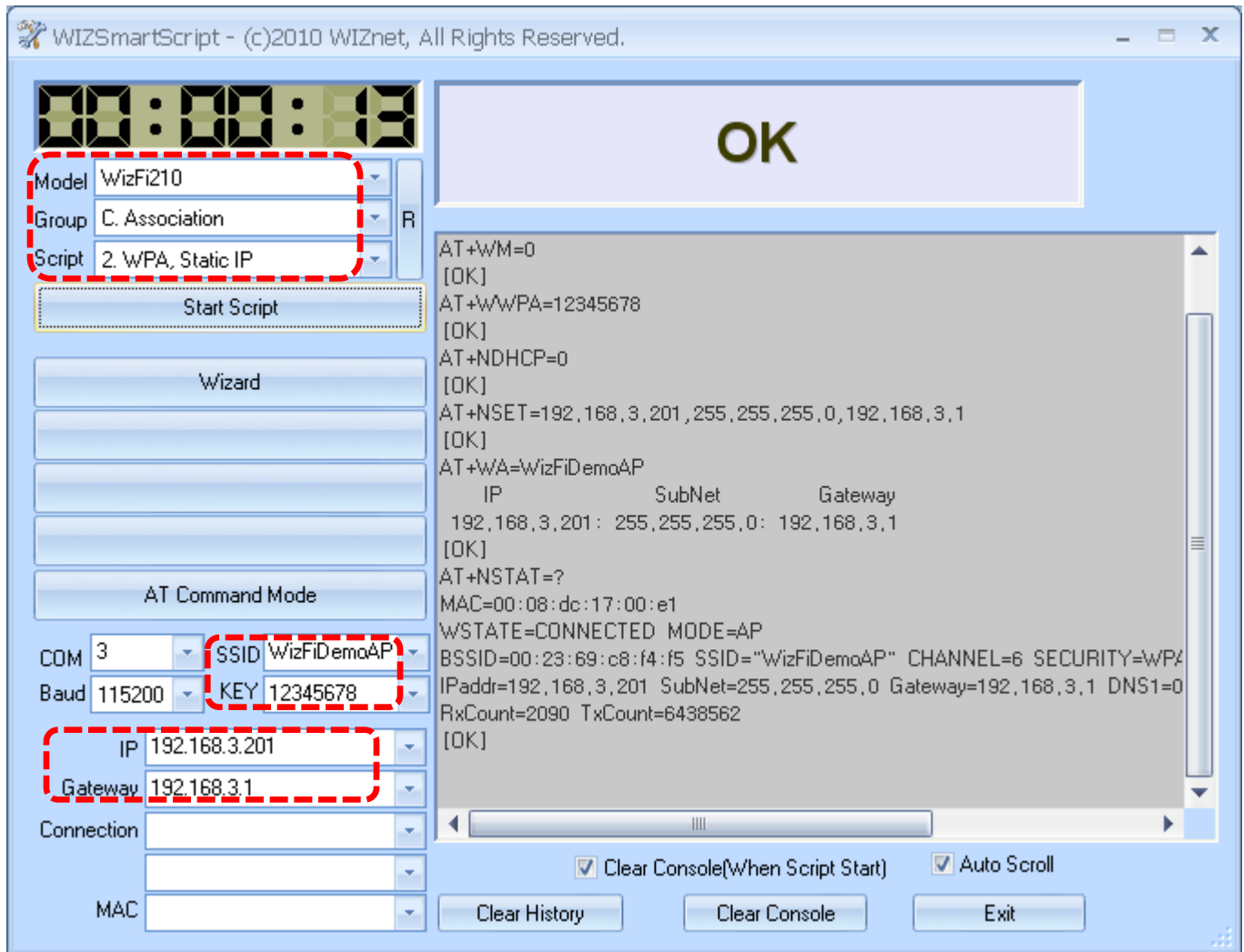
# 1-4) Associate to AP with DHCP

1. Select "C. Association" and "1. WPA, DHCP".
2. Enter the valid value into the SSID and Key field.
3. If you click "Start Script", WizFi210 will associate to the AP with DHCP and you can see the process as below.



# 1-5) Associate to AP with Static IP

1. Select "C. Association" and "2. WPA, Static IP".
2. Enter the valid value into the SSID and Key field.
3. Enter the valid value into the IP and Gateway field.
4. If you click "Start Script", WizFi210 will associate to the AP with static IP and you can see the process as below.





# 1-6) Launch Auto Connection (1/2)

1. Select "D. Auto Connection" and "1. WPA, Static IP, Raw Option".
2. Enter the valid value into the SSID and Key field.
3. Enter the valid value into the IP and Gateway field.
4. Enter the connection type into the Connection field.
5. If you click "Start Script", WIZFi210 will associate to the AP with static IP and prepare the serial-to-wifi channel. (TCP, Server, Port 5000)

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00:00:12

OK

Model WizFi210  
Group D. Auto Connection  
Script 1. WPA, Static IP, Raw Option

Start Script

Wizard

AT Command Mode

COM 3  
Baud 115200  
SSID WizFiDemoAP  
KEY 12345678  
IP 192.168.3.201  
Gateway 192.168.3.1  
Connection 1,1,,5000  
MAC

```
[Insert static ip address into UserData1 and gateway into UserData2, (e
[Insert raw nauto option into UserData3, (ex:0,1,192,168,3,101,5000)]
<Type>,<Protocol>,<Destination IP>,<Destination Port>
Type(0:Client, 1:Server) Protocol(0:UDP, 1:TCP)
AT+WD
[OK]
AT+W/WPA=12345678
[OK]
AT+NDHCP=0
[OK]
AT+NSET=192,168,3,201,255,255,255,0,192,168,3,1
[OK]
AT+W/AUTO=0,WizFiDemoAP,,0
[OK]
AT+NAUTO=1,1,,5000
[OK]
ATA
IP SubNet Gateway
192,168,3,201: 255,255,255,0: 192,168,3,1
[OK]
```

☒ Clear Console(when Script Start) ☒ Auto Scroll

Clear History Clear Console Exit

## <Examples of Connection Type>

1,1,,5000 : Server, TCP, Listen Port 5000  
1,0,,5000 : Server, UDP, Listen Port 5000  
0,1,192.168.3.100,5000 : Client, TCP, Connect to 192.168.3.100:5000

# 1-7) Launch Auto Connection (2/2)

1. Run the serial terminal program and connect to the COM port.
2. Run the TCP client program and connect to the WizFi210.  
(192.168.3.201:5000)
3. Confirm the two-way data communication with the programs.

```
COM3 Ready!  
1234567890
```

Serial Terminal Program

```
Trying 192.168.3.201 (PORT:5000)...  
Connected to 192.168.3.201...  
abcdefgh
```

Telnet Client Program

## 2. Wizard Mode

### 2-1) Run Wizard

1. If you click "Wizard" button, Wizard mode of WIZSmartScript will launch.

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**WizFi Demo Program**

Model: WizFi210  
Group: A. Basic  
Script: 1. Module Information

Start Script

**Wizard**

AT Command Mode

COM: [ ] Baud: 115200 SSID: [ ] KEY: [ ]  
IP: [ ] Gateway: [ ] Connection: [ ]  
MAC: [ ]

☒ Clear Console(When Script Start) ☒ Auto Scroll

Clear History Clear Console Exit

## 2-2) Step 1 : Find WizFi

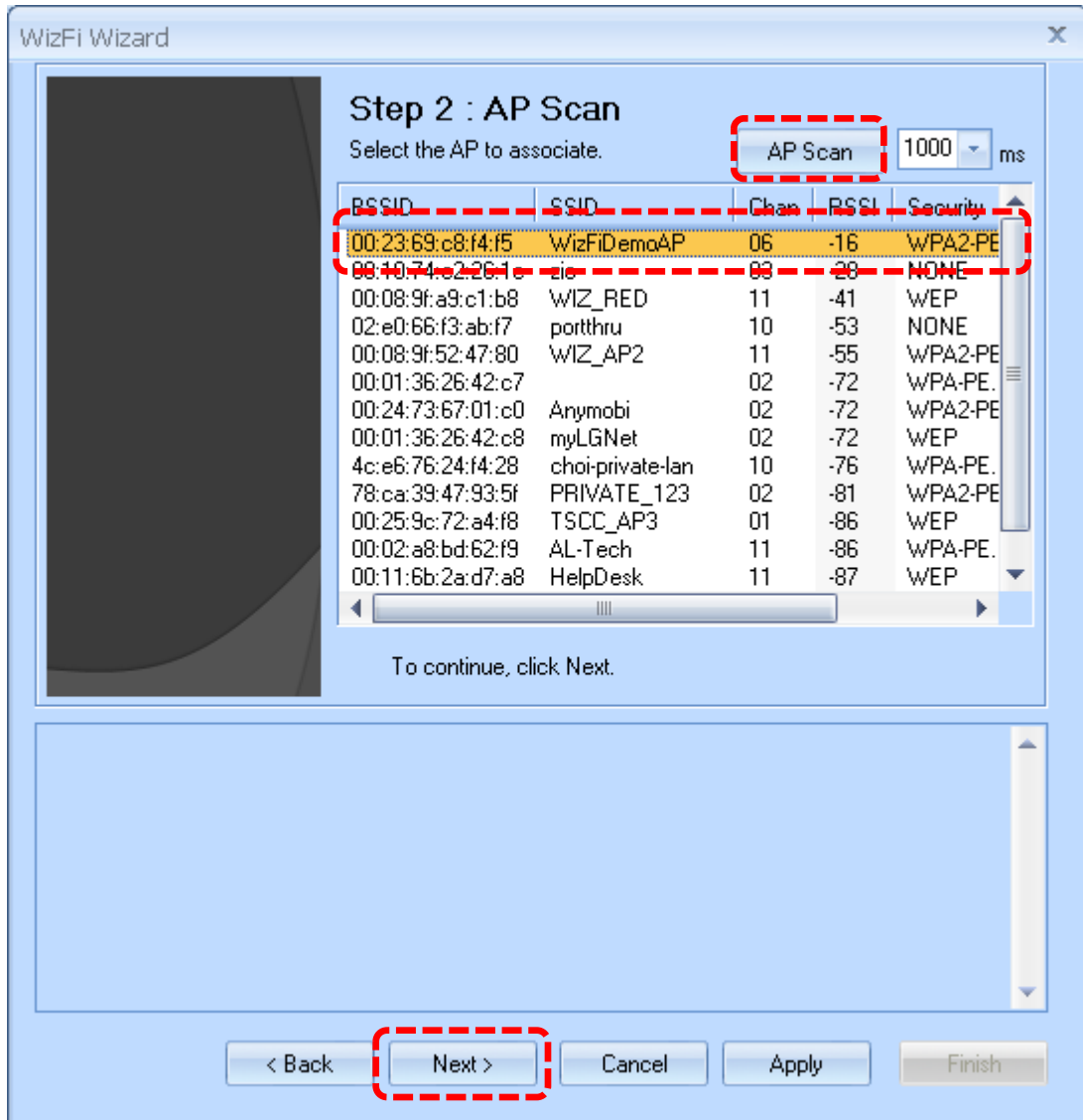
1. Turn on the WizFi210 and connect the serial cable to the PC.
2. Enter the valid value into the COM and Baud field and click "Find WizFi and Set Command Mode" button.
3. If there is no error, you can see the WizFi model name and version of WizFi210(or WizFi220) as shown below.
4. Click "Next" button for next step.

The screenshot shows the 'WizFi Wizard' window at 'Step 1 : Find WizFi'. The window has a title bar with 'WizFi Wizard' and a close button. The main area is light blue and contains the following elements:

- A dark grey vertical bar on the left side.
- The title 'Step 1 : Find WizFi' in bold black text.
- The instruction 'Select the following current serial option.' in a smaller black font.
- A red dashed rectangular box highlighting the 'COM' and 'Baud' fields. The 'COM' field contains the value '3' and has a '(1~ )' label. The 'Baud' field contains the value '115200' and has a dropdown arrow.
- A button labeled 'Find WizFi and Set Command Mode' located below the 'Baud' field.
- A red dashed rectangular box highlighting a text box containing the text 'WizFi220' and '1.0.0.0' on two lines.
- The instruction 'To continue, click Next.' in a smaller black font.
- A large empty light blue rectangular area at the bottom of the main content area.
- A navigation bar at the very bottom with five buttons: '< Back', 'Next >', 'Cancel', 'Apply', and 'Finish'. The 'Next >' button is highlighted with a red dashed rectangular box.

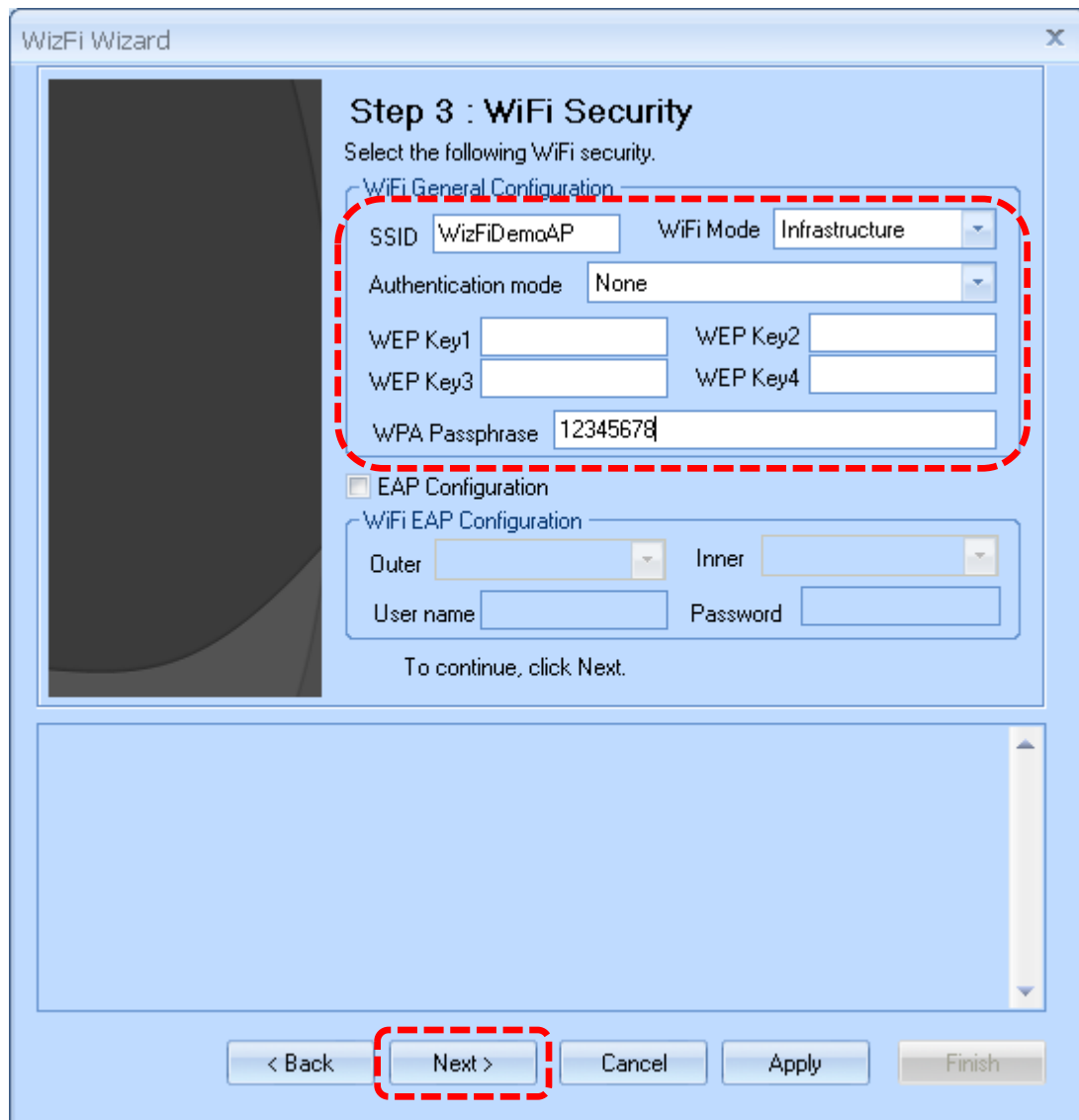
## 2-3) Step 2 : AP Scan

1. Click "AP Scan" button for searching the neighboring APs.
2. Select a AP to connect to.
3. Click "Next" button for next step.



## 2-4) Step 3 : WiFi Security

1. Enter the valid value into the WiFi security field.
2. If needed, check the EAP Configuration.
3. Click "Next" button for next step.



The screenshot shows the 'WizFi Wizard' window at 'Step 3 : WiFi Security'. The window has a title bar with 'WizFi Wizard' and a close button. The main content area is titled 'Step 3 : WiFi Security' and includes the instruction 'Select the following WiFi security.' Below this, there are two sections: 'WiFi General Configuration' and 'EAP Configuration'. The 'WiFi General Configuration' section is highlighted with a red dashed border and contains fields for SSID (WizFiDemoAP), WiFi Mode (Infrastructure), Authentication mode (None), WEP Key1, WEP Key2, WEP Key3, WEP Key4, and WPA Passphrase (12345678). The 'EAP Configuration' section is unchecked and contains fields for Outer, Inner, User name, and Password. At the bottom of the window, there are five buttons: '< Back', 'Next >', 'Cancel', 'Apply', and 'Finish'. The 'Next >' button is highlighted with a red dashed border. A large empty rectangular area is visible at the bottom of the main content area.

WizFi Wizard

### Step 3 : WiFi Security

Select the following WiFi security.

WiFi General Configuration

SSID: WizFiDemoAP      WiFi Mode: Infrastructure

Authentication mode: None

WEP Key1:      WEP Key2:      WEP Key3:      WEP Key4:      WPA Passphrase: 12345678

☐ EAP Configuration

WiFi EAP Configuration

Outer:      Inner:      User name:      Password:      To continue, click Next.

< Back    Next >    Cancel    Apply    Finish

## 2-5) Step 4 : WiFi Network

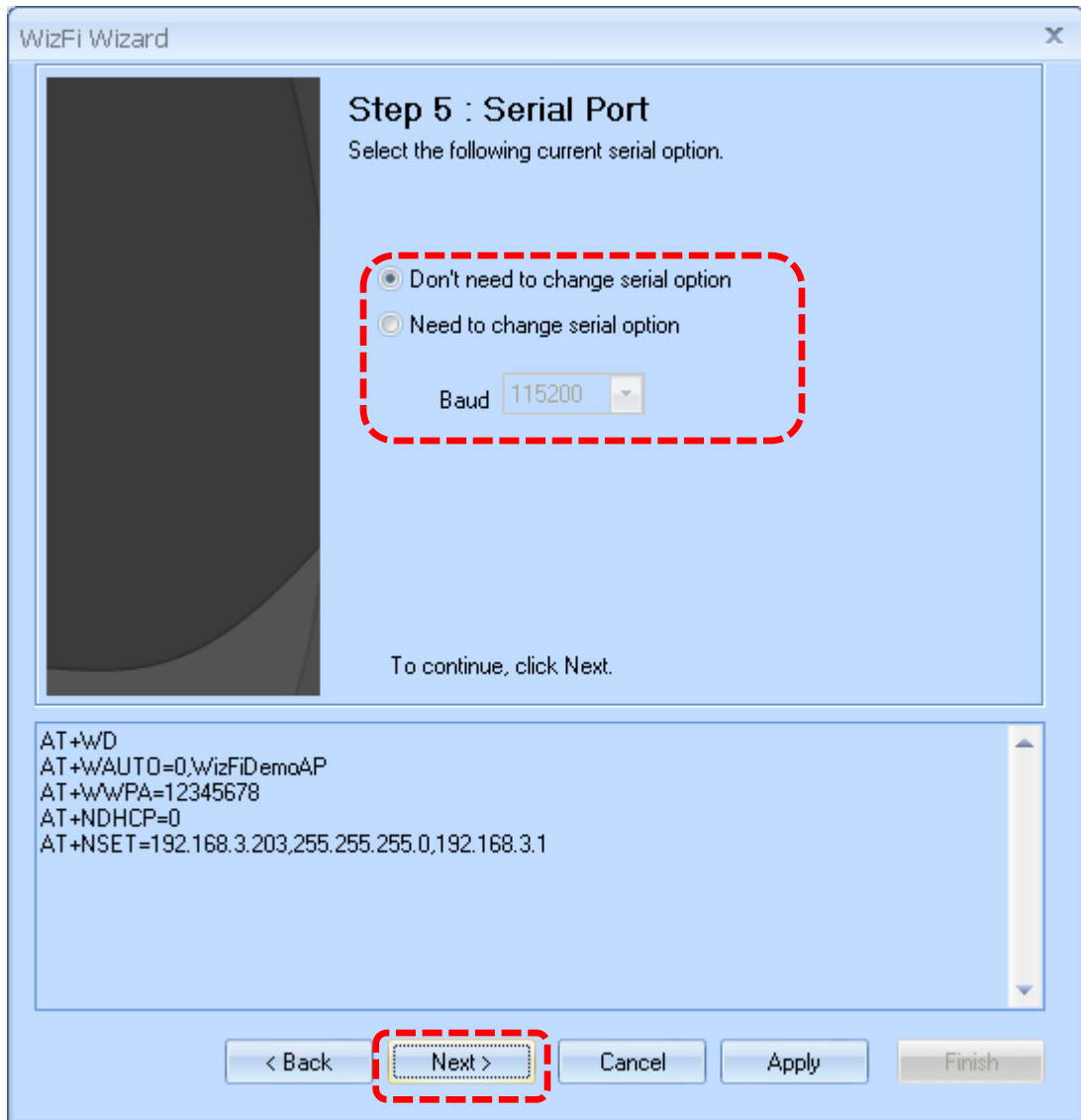
1. Configure IP address of WizFi210.(DHCP or Static IP)
2. Click "Next" button for next step.

The screenshot shows the 'WizFi Wizard' window at 'Step 4 : WiFi Network'. The window has a title bar with 'WizFi Wizard' and a close button. The main area is light blue and contains the following elements:

- Step 4 : WiFi Network**: The title of the step.
- Select the following WiFi network.**: Instructional text.
- Radio Buttons**: Two options are shown:   
 - ☐ DHCP   
 - ☒ Static IP
- IP Configuration Fields**: Three text boxes are provided for static IP configuration:   
 - IP Address: 192.168.3.203   
 - Subnet Mask: 255.255.255.0   
 - Gateway: 192.168.3.1
- Navigation Text**: Below the fields, it says 'To continue, click Next.'
- Terminal Output**: A scrollable text area at the bottom left shows the following commands:   
 AT+WD   
 AT+WATO=0,WizFiDemoAP   
 AT+WPA=12345678
- Buttons**: At the bottom, there are five buttons: '< Back', 'Next >', 'Cancel', 'Apply', and 'Finish'. The 'Next >' button is highlighted with a red dashed border.

## 2-6) Step 5 : Serial Port

1. If needed, Change the baud rate of WizFi210.
2. Click "Next" button for next step.



The image shows a screenshot of the 'WizFi Wizard' software window, specifically 'Step 5 : Serial Port'. The window has a light blue title bar with the text 'WizFi Wizard' and a close button. The main content area is light blue and contains the following elements:

- A dark gray rectangular placeholder on the left side.
- The title 'Step 5 : Serial Port' in bold black text.
- The instruction 'Select the following current serial option.' in black text.
- Two radio button options:
  - ☒ Don't need to change serial option
  - ☐ Need to change serial option
- A 'Baud' label followed by a dropdown menu showing '115200'.
- The text 'To continue, click Next.' at the bottom of the main area.

Below the main content area is a text box containing the following AT commands and IP configuration:

```
AT+WD  
AT+WATO=0,WizFiDemoAP  
AT+WPA=12345678  
AT+NDHCP=0  
AT+NSET=192.168.3.203,255.255.255.0,192.168.3.1
```

At the bottom of the window is a row of five buttons: '< Back', 'Next >', 'Cancel', 'Apply', and 'Finish'. The 'Next >' button is highlighted with a red dashed rectangular border.



## 2-7) Step 6 : S2W Channel

1. Configure serial-to-wifi channel option. (protocol, mode, IP and port)
2. Click "Next" button for next step.

The screenshot shows the 'WizFi Wizard' window at 'Step 6 : S2W Channel'. The title bar says 'WizFi Wizard' and there is a close button 'X'. The main area has a blue background and contains the text 'Step 6 : S2W Channel' and 'Select the following Serial-to-WiFi channel.' Below this, there are configuration options for Protocol (TCP selected), Mode (Server selected), Destination IP (empty), and Port (4000). A red dashed box highlights these options. At the bottom, there is a text area containing AT commands: 'AT+WD', 'AT+WAuto=0,WizFiDemoAP', 'AT+WwPA=12345678', 'AT+NDHCP=0', and 'AT+NSET=192.168.3.203,255.255.255.0,192.168.3.1'. Another red dashed box highlights this text area. At the bottom of the window, there are five buttons: '< Back', 'Next >', 'Cancel', 'Apply', and 'Finish'. The 'Next >' button is highlighted with a red dashed box.

WizFi Wizard

Step 6 : S2W Channel

Select the following Serial-to-WiFi channel.

Protocol ☒ TCP ☐ UDP

Mode ☒ Server ☐ Client

Destination IP  Port

Local  Port 4000

To continue, click Next.

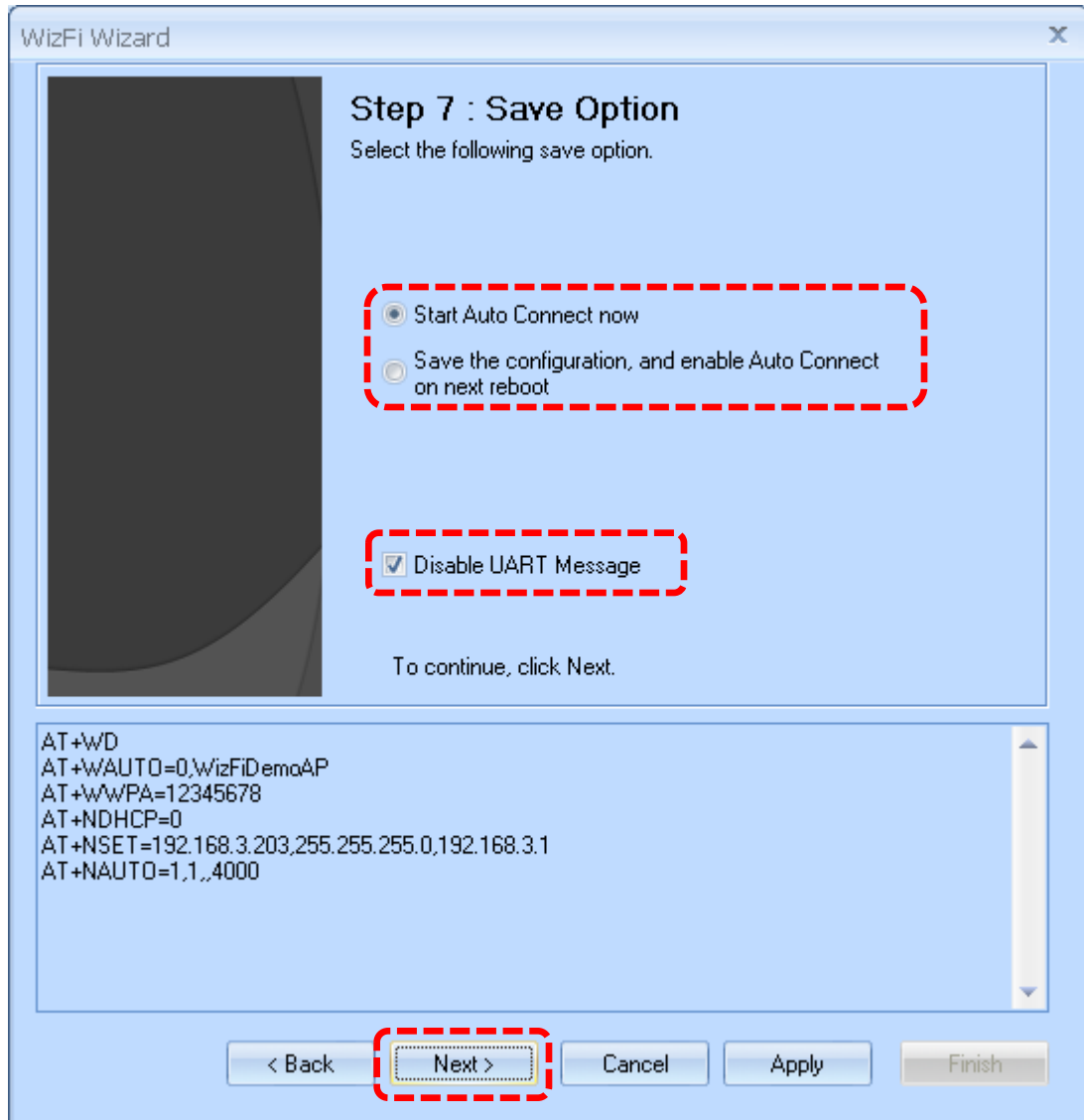
AT+WD  
AT+WAuto=0,WizFiDemoAP  
AT+WwPA=12345678  
AT+NDHCP=0  
AT+NSET=192.168.3.203,255.255.255.0,192.168.3.1

< Back Next > Cancel Apply Finish

If you click "Apply" button, you could see how to use AT commands instantly.

## 2-8) Step 7 : Save Option

1. Choose whether to establish s2w channel instantly or save the configuration to the flash memory for next reboot.
2. Choose whether to send debug messages into the UART or not.
3. Click "Next" button for next step.



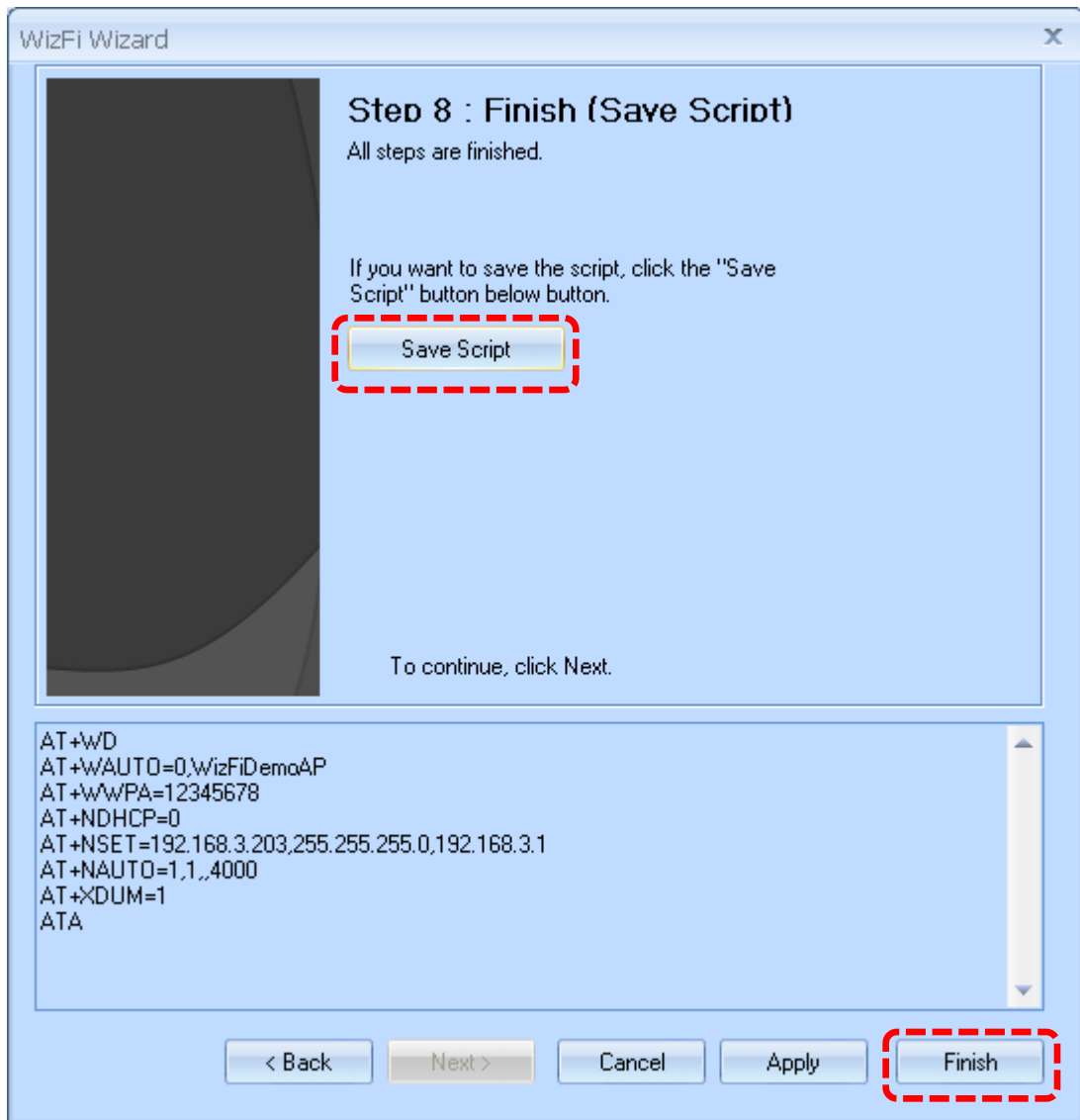
The screenshot shows the 'WizFi Wizard' window at 'Step 7 : Save Option'. The window has a title bar with 'WizFi Wizard' and a close button. The main area is light blue and contains the following elements:

- Step 7 : Save Option**  
Select the following save option.
- Two radio button options, both enclosed in a red dashed box:
  - ☒ Start Auto Connect now
  - ☐ Save the configuration, and enable Auto Connect on next reboot
- A checkbox option, also enclosed in a red dashed box:
  - ☒ Disable UART Message
- Text: 'To continue, click Next.'
- A text area at the bottom showing configuration commands:

```
AT+WD
AT+WAuto=0,WizFiDemoAP
AT+WPA=12345678
AT+NDHCP=0
AT+NSET=192.168.3.203,255.255.255.0,192.168.3.1
AT+NAUTO=1,1,,4000
```
- Navigation buttons at the bottom:
  - < Back
  - Next >** (highlighted with a red dashed box)
  - Cancel
  - Apply
  - Finish

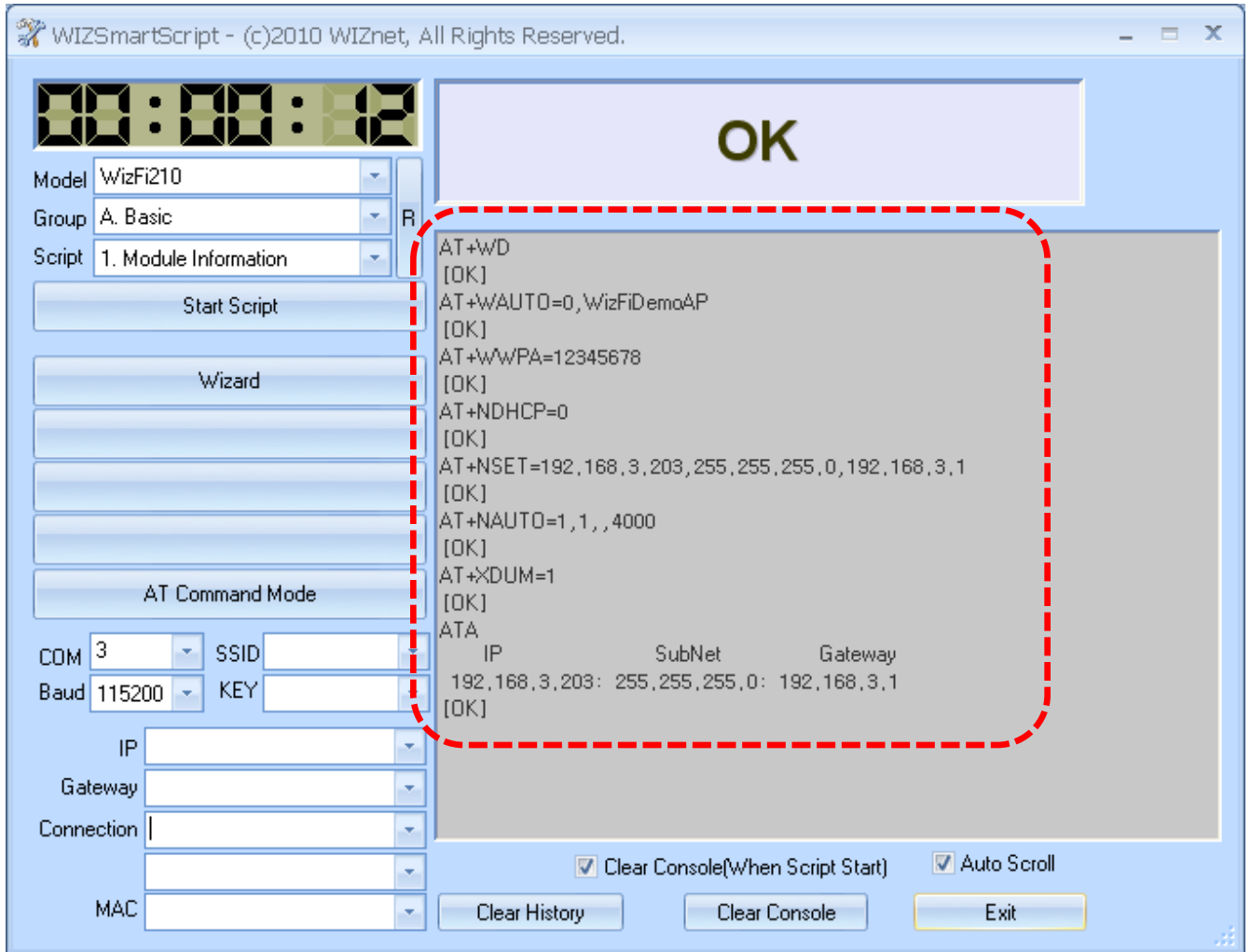
## 2-9) Step 8 : Finish (Save Script)

1. If you want to save the AT commands, click the "Save Script" button.
2. At last, click the "Finish" button.



## 2-10) Execute Script

You can see the process of the commands execution created in wizard mode.



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