EKI-6332 & EKI-136x-BE VCOM application setup example

Revision Date	Revision	Description	Author
May/2018	V1.0	Initial release	ICG AE Jacky.Lin

Abstract

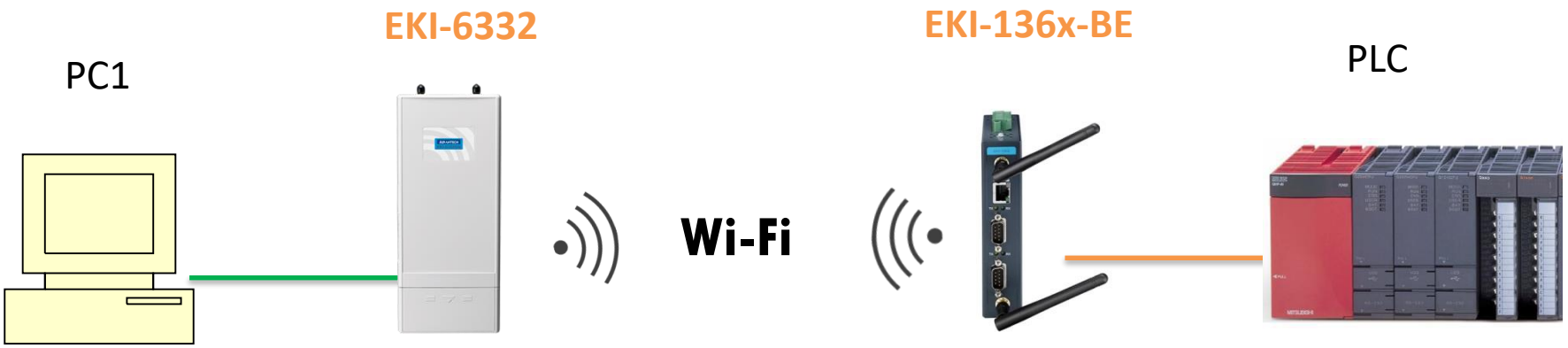
- **This SOP explains how to configure the EKI-6332 & EKI-136x-BE to build up the wireless connection and set the VCOM mode on EKI-136x-BE for collecting data from the SCADA PC**
- **Related products:**

  EKI-6331, EKI-6332, EKI-136x-BE
- **Requirement:** EKI-6332 & EKI-136x-BE, PC install EKI utility

Topology

RS cable

Ethernet



EKI Utility create VCOM on PC

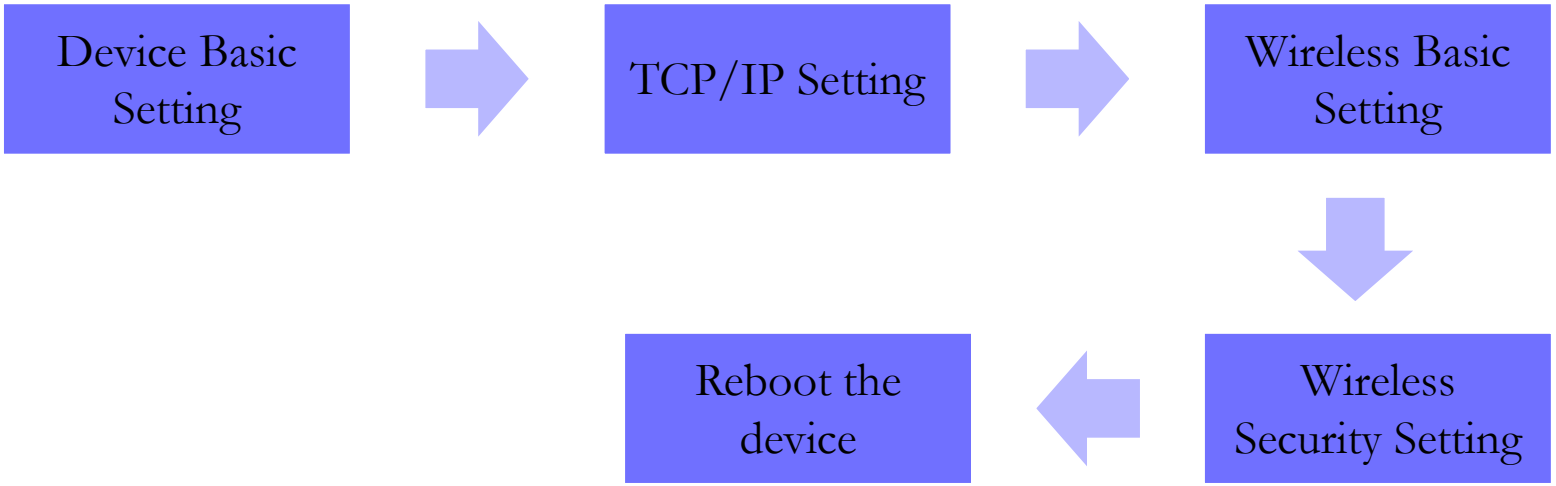
Wi-Fi AP

EKI-6332 Config：
WLAN IP: 192.168.1.1

Wi-Fi client

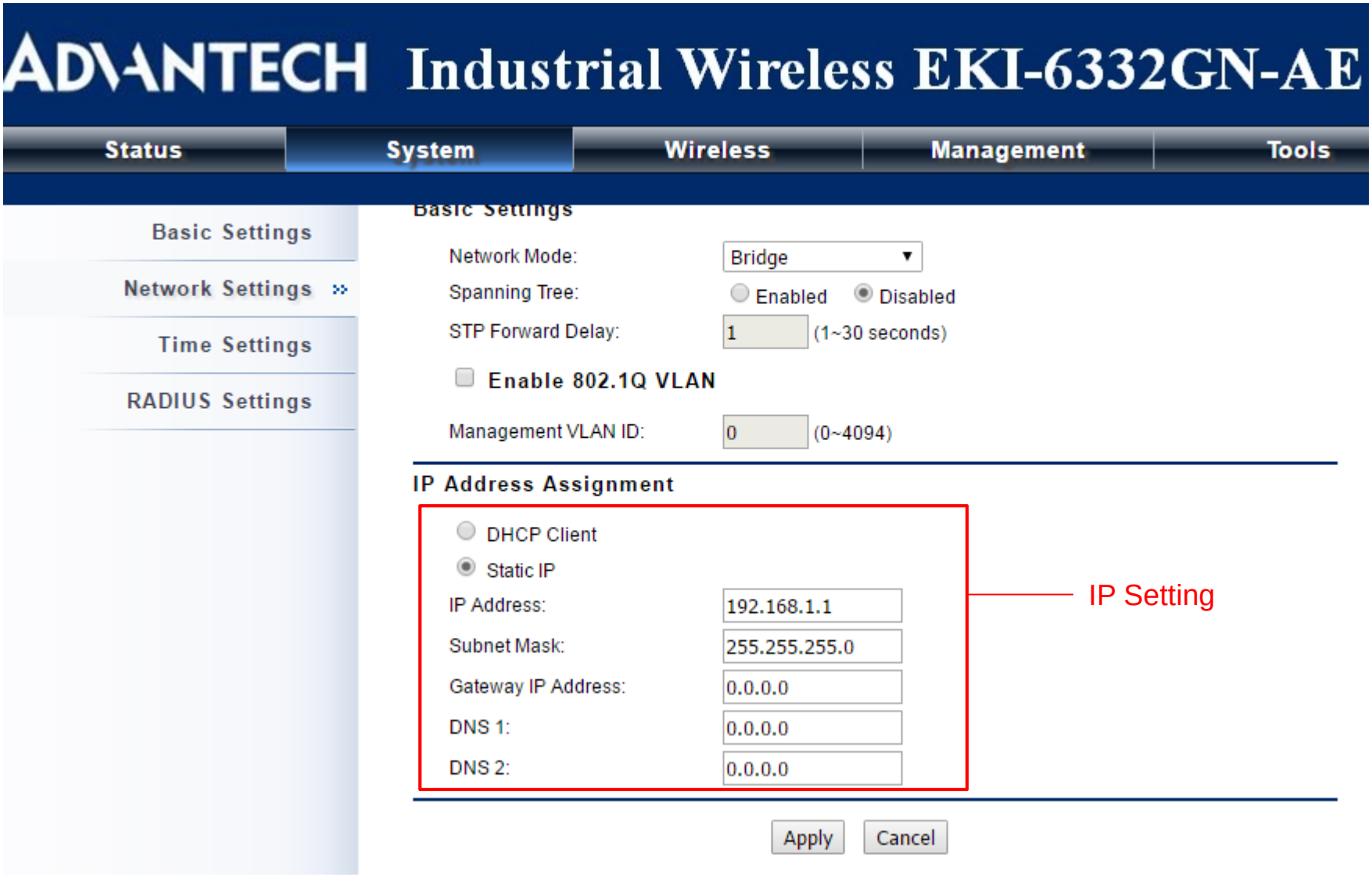
EKI-136x Config：
WLAN IP: 192.168.1.2
VCOM mode

EKI-6332GN Configuration Flow chart

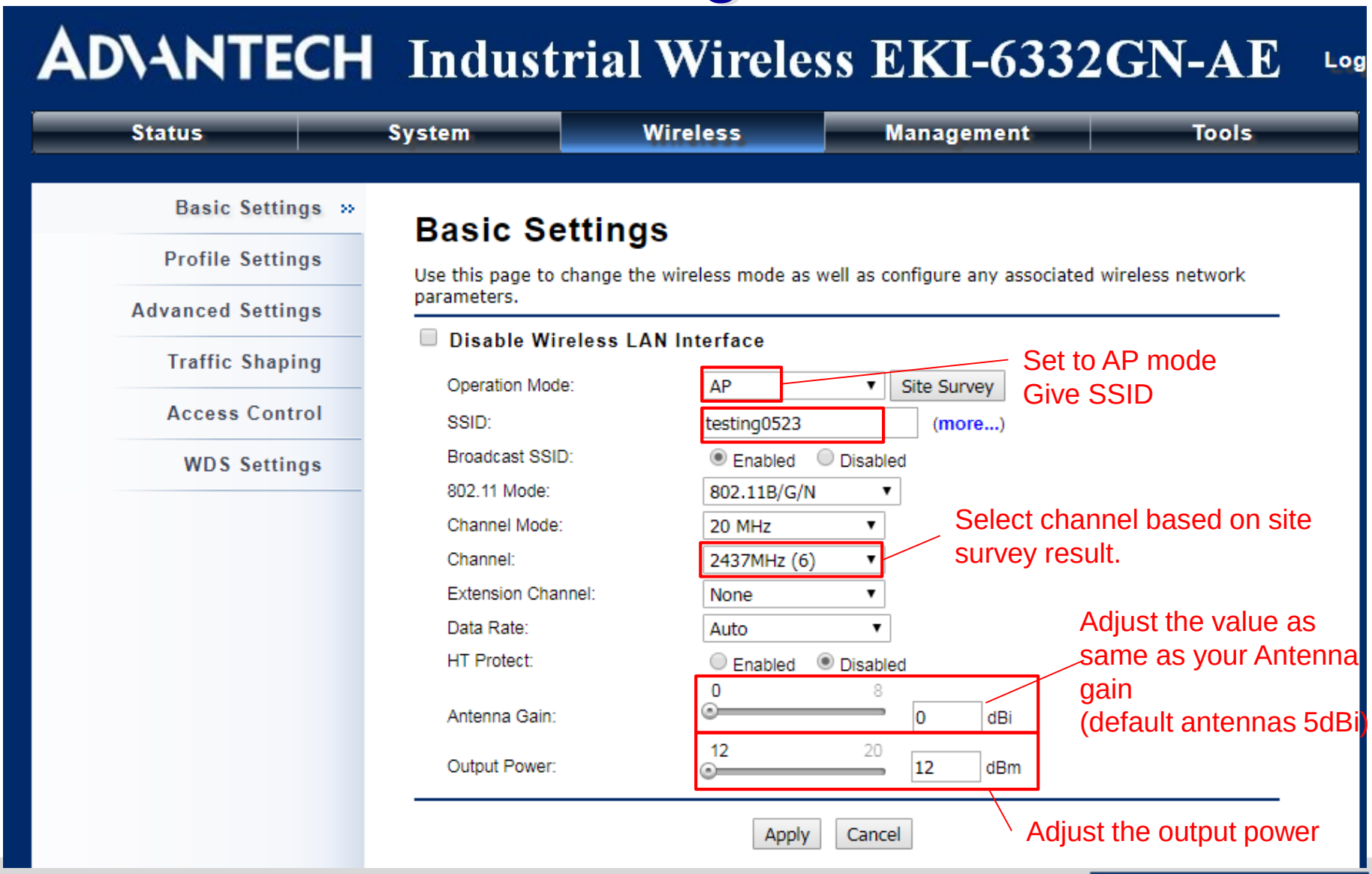


Device Basic Setting

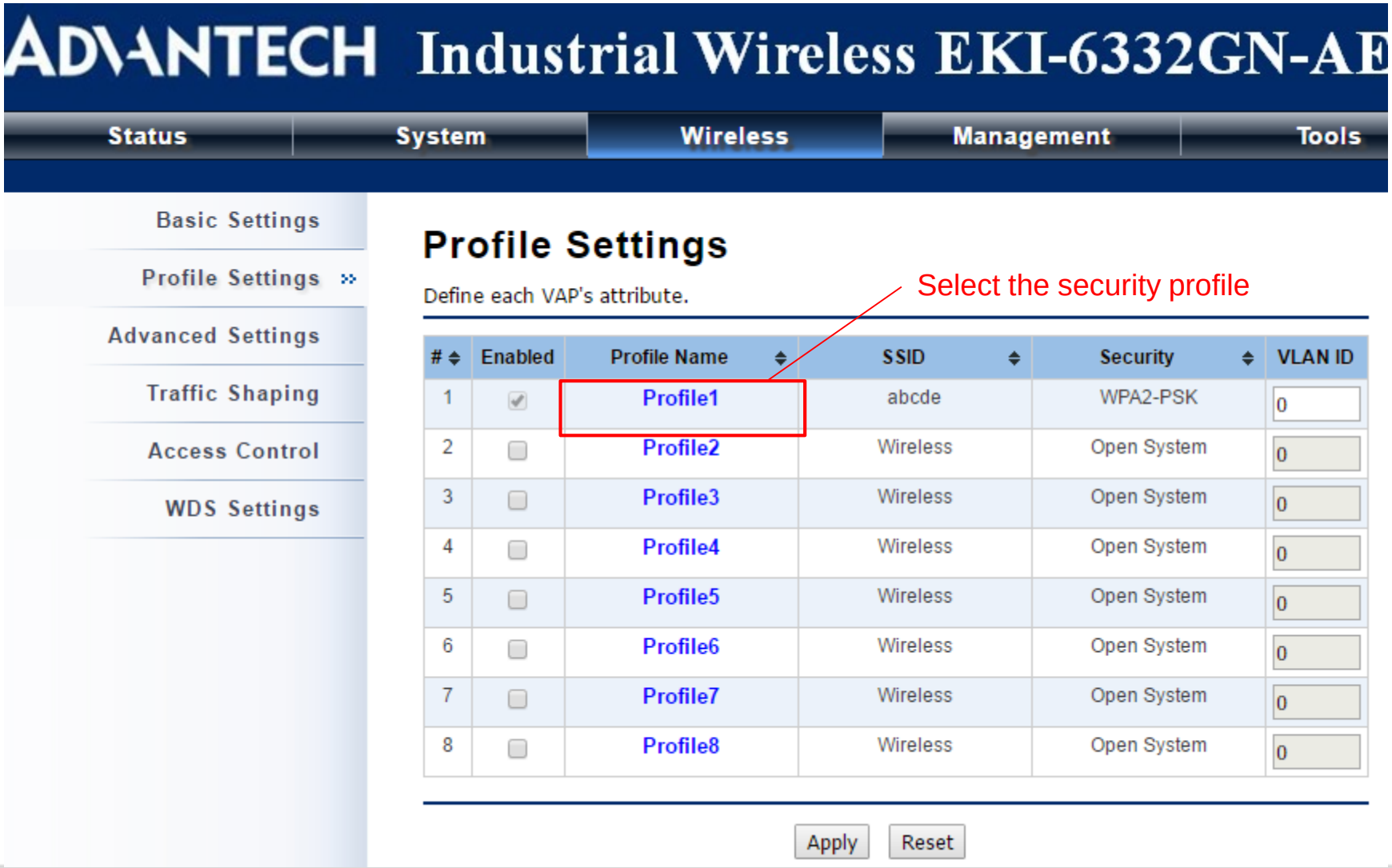
TCP/IP Setting



Wireless Basic Setting

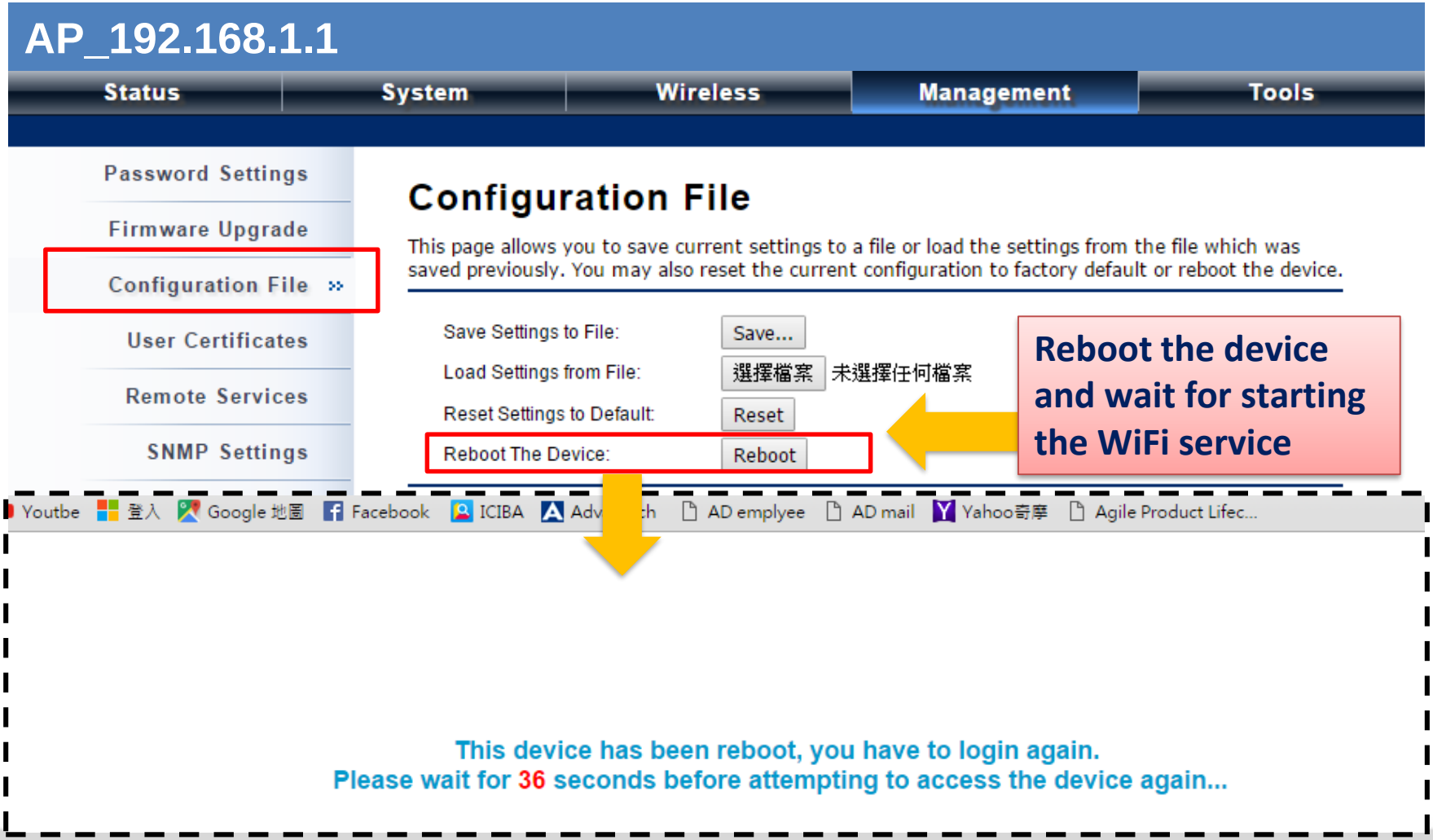


Wireless Basic Setting

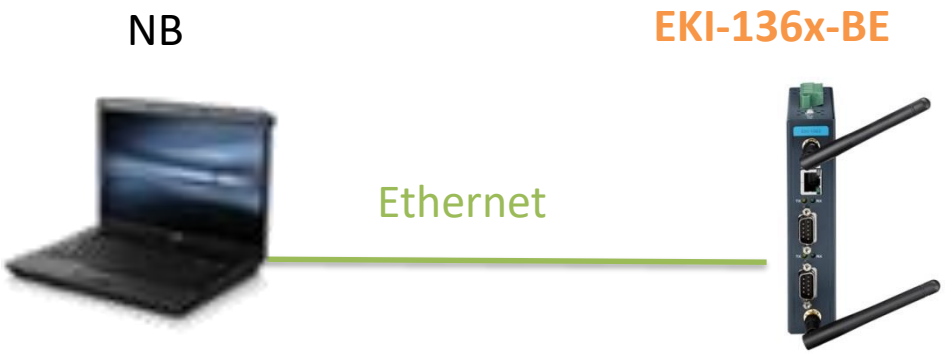


Security Setting

Reboot the Device



EKI Setting flow chart

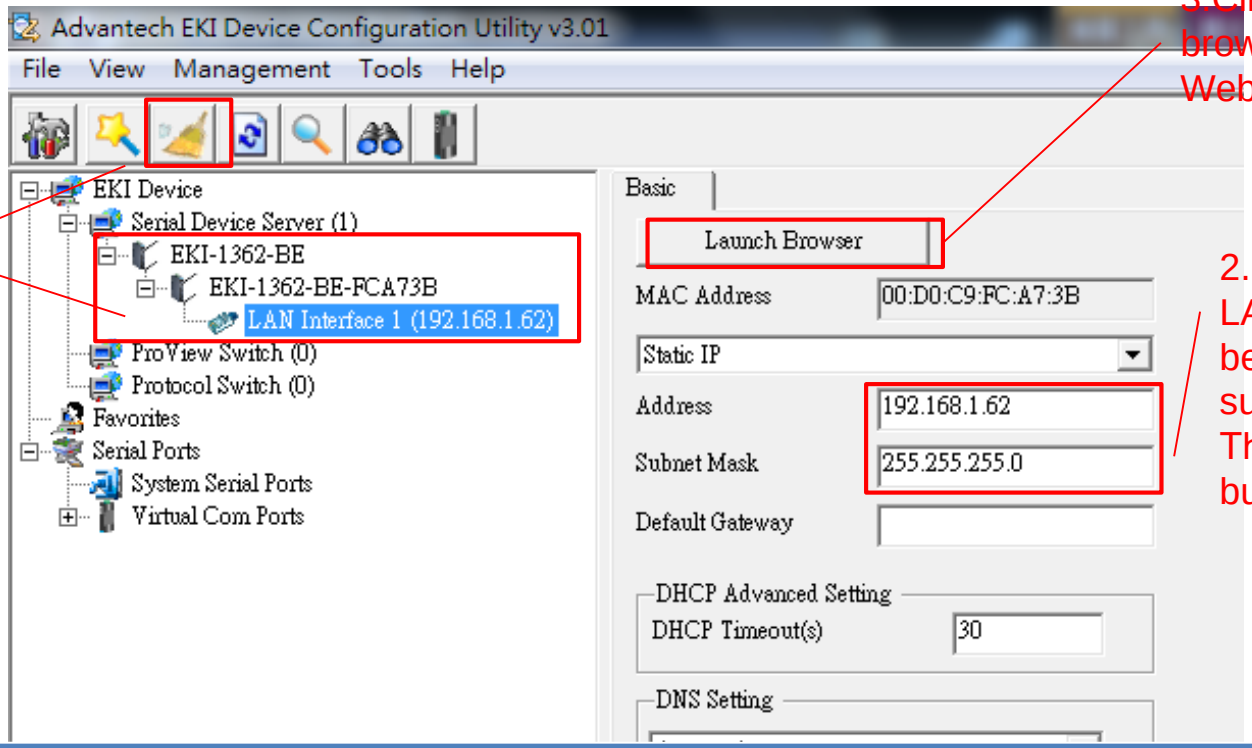


Step 1 :Connect the EKI-136x-BE via Ethernet cable to config EKI
Step 2 : follow the flow chart to set up EKI step by step.

LAN/WLAN Port Configuration → Wireless Setting → Serial Port Setting → Serial Port Operation Mode

LAN/WLAN configuration on Utility

1.EKI Utility will able to scan the EKI-136x-BE

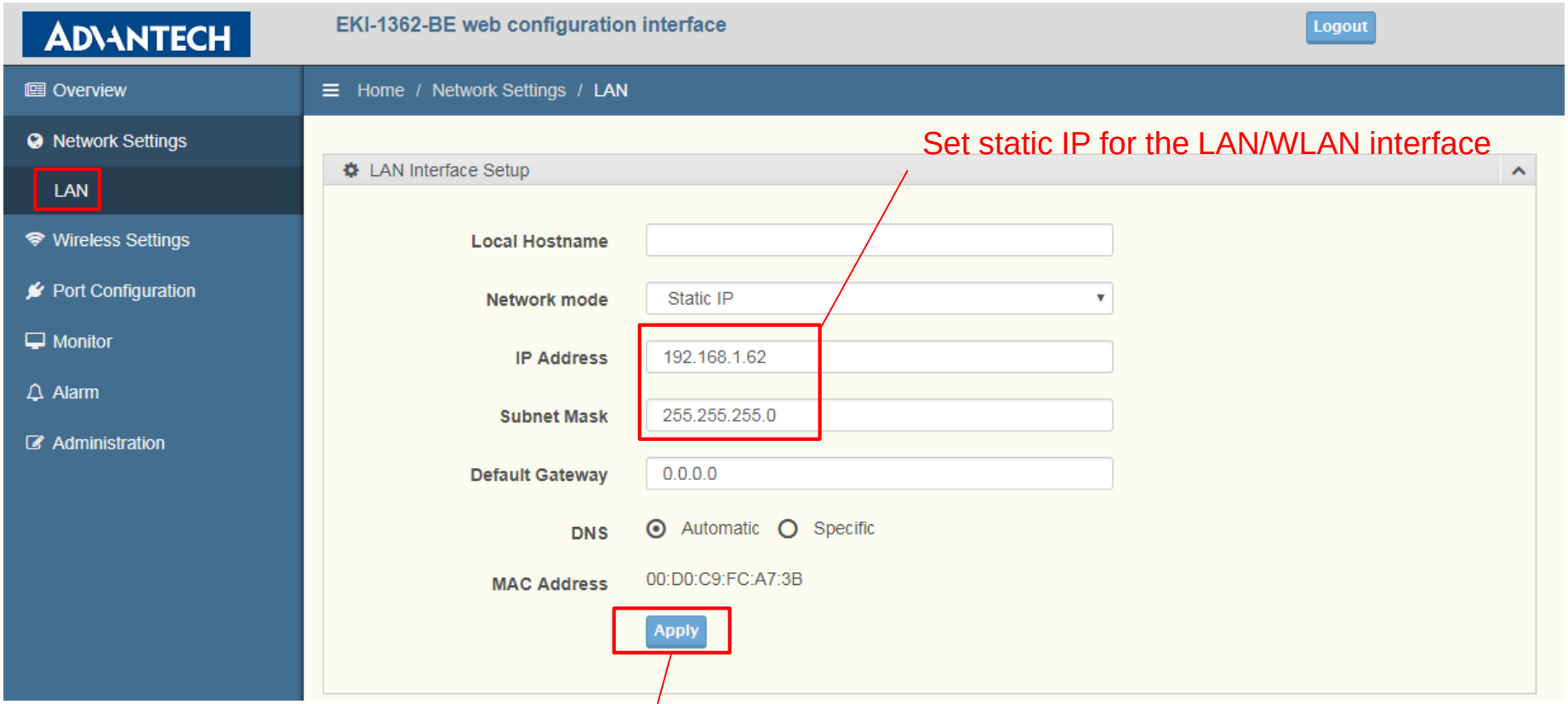


3.Click on Launch browser to go the WebGUI.

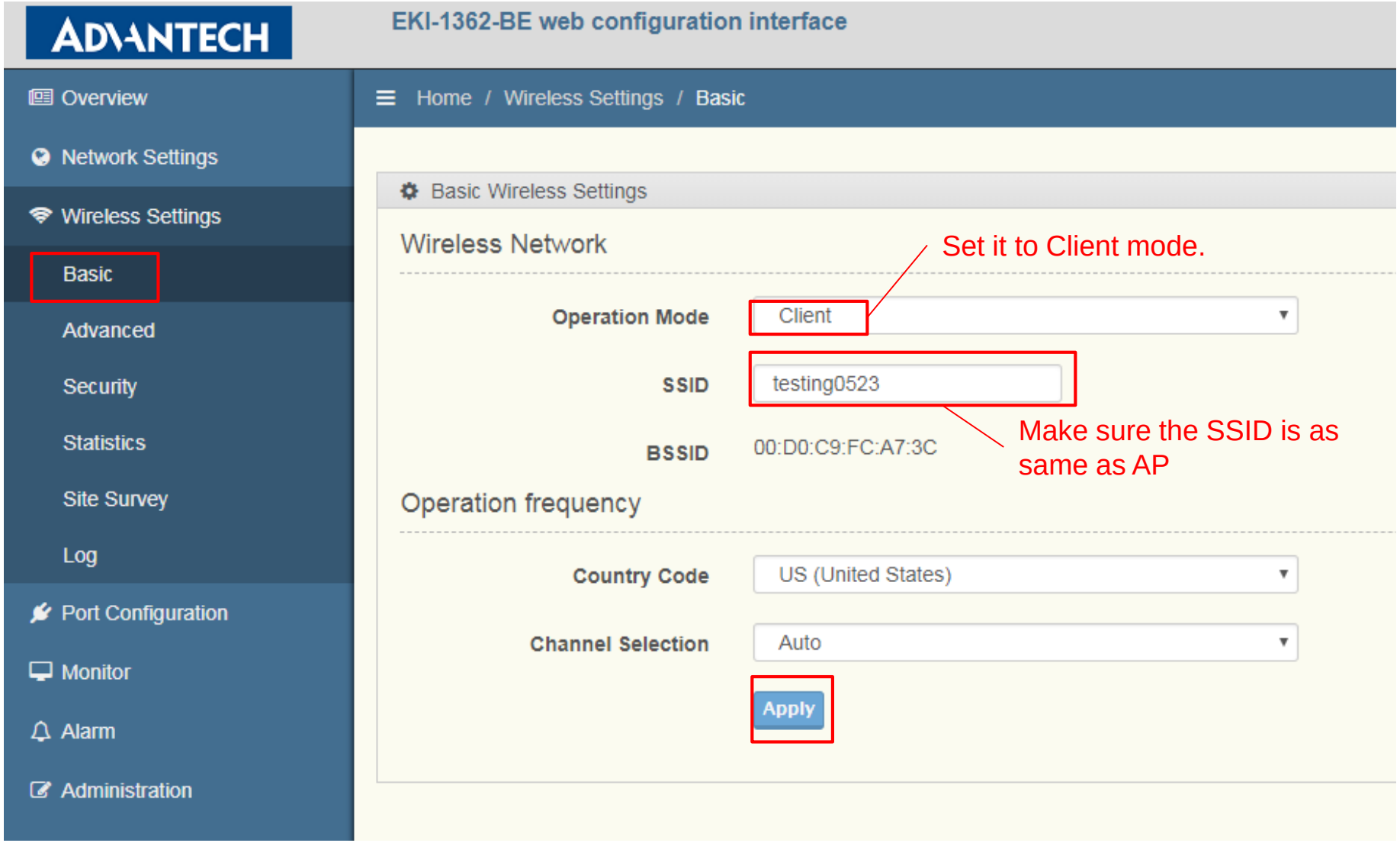
2.Config LAN/WLAN IP to be the same subnet as the PC. Then, press “apply” button.

- Note: Please make sure the Utility version is 3.01 upper. You can refer the following link for latest FW version information.
  http://support.advantech.com/support/DownloadSRDetail_New.aspx?SR_ID=1-1FLDMSV&Doc_Source=Download
- Note: The LAN IP interface & WLAN IP interface are bridge together in the EKI-136x-BE. Therefore, there is only one IP (LAN Interface)you could set on the EKI utility. You won’t see the WLAN IP setting interface.

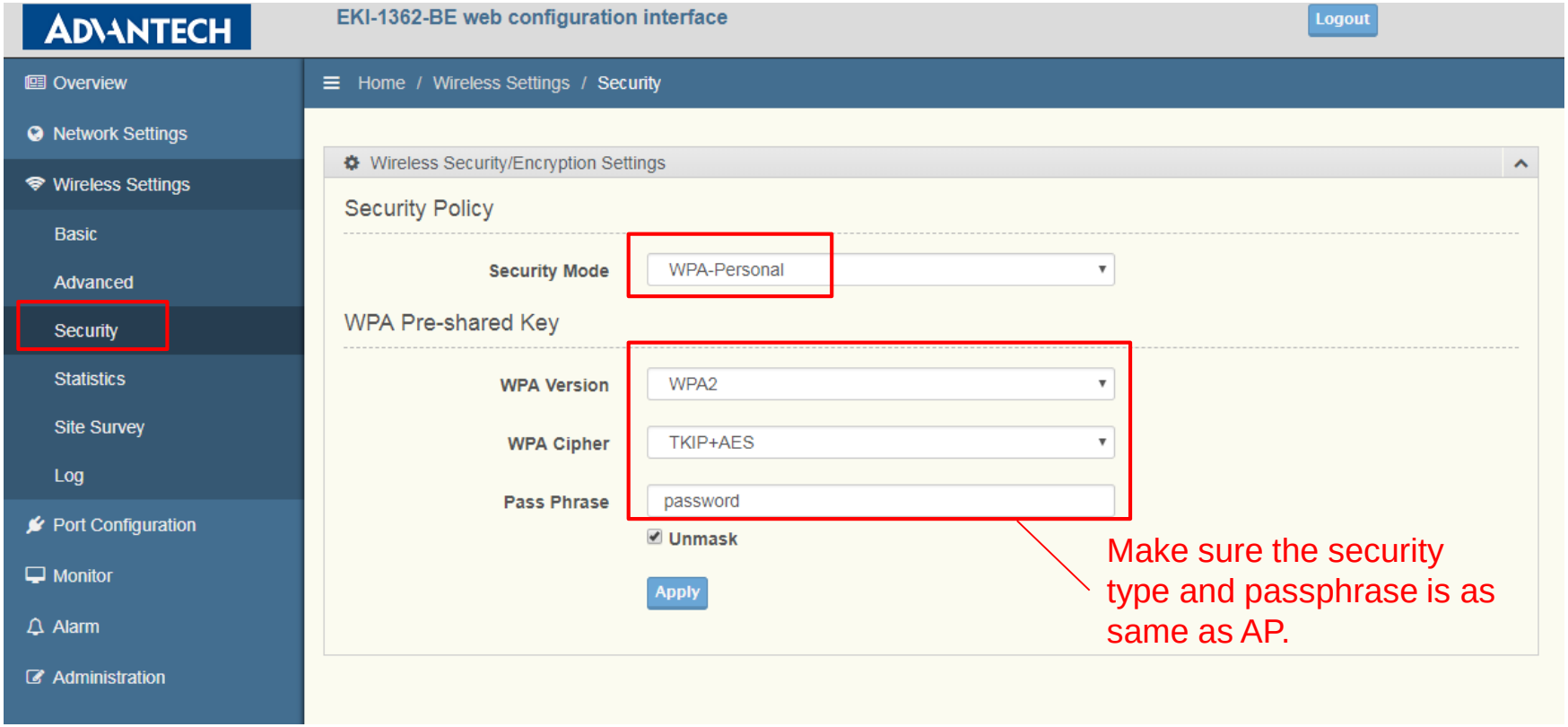
LAN/WLAN Configuration on WebGUI



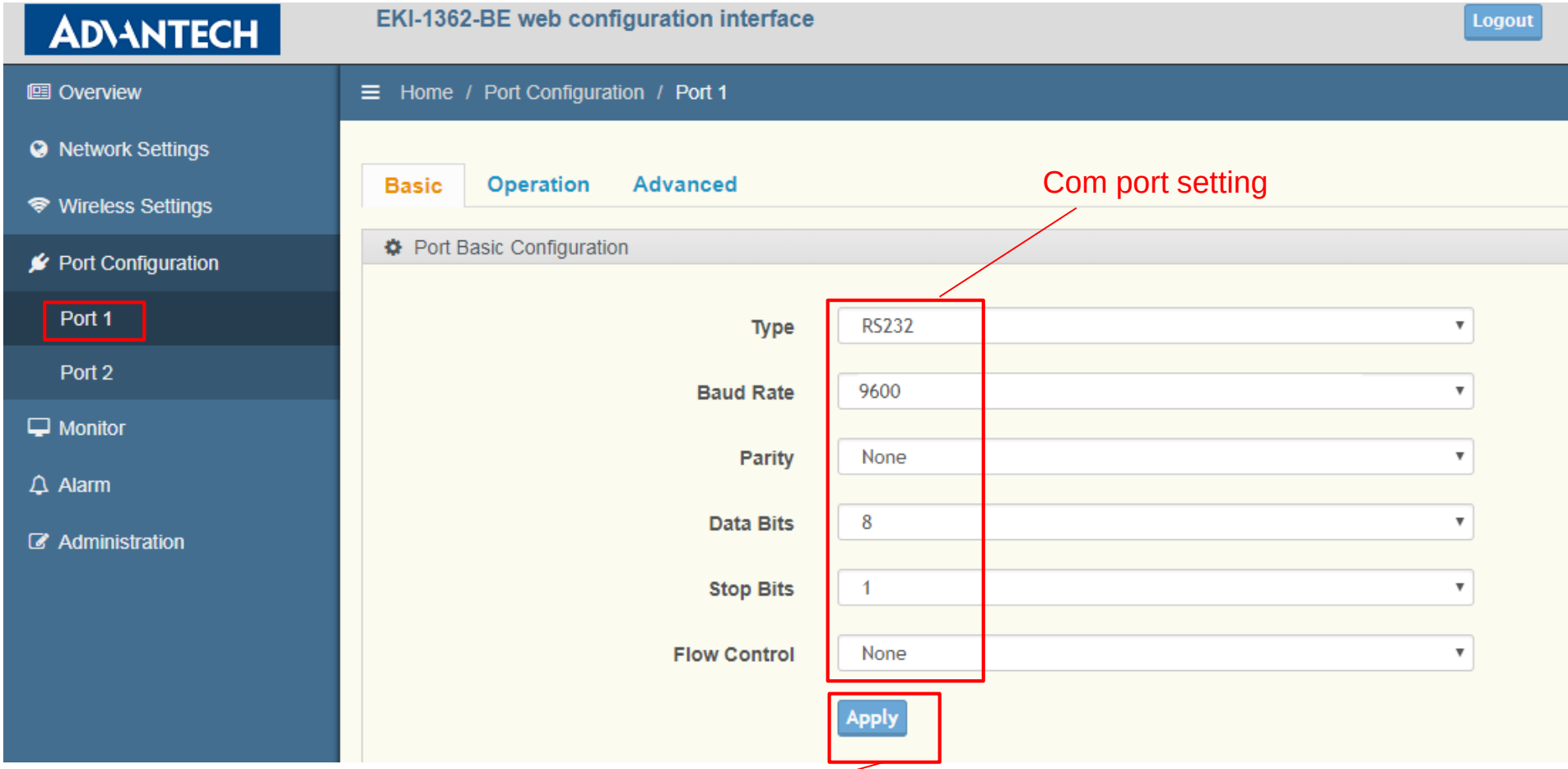
Wireless basic setting



WiFi Security Setting

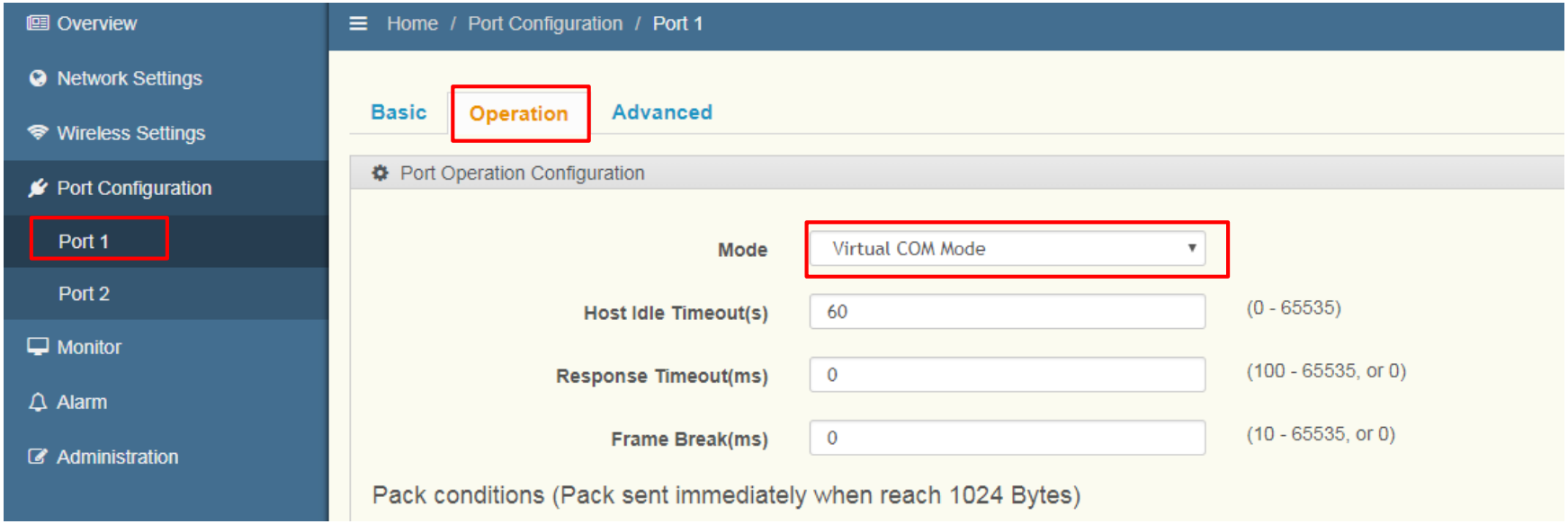


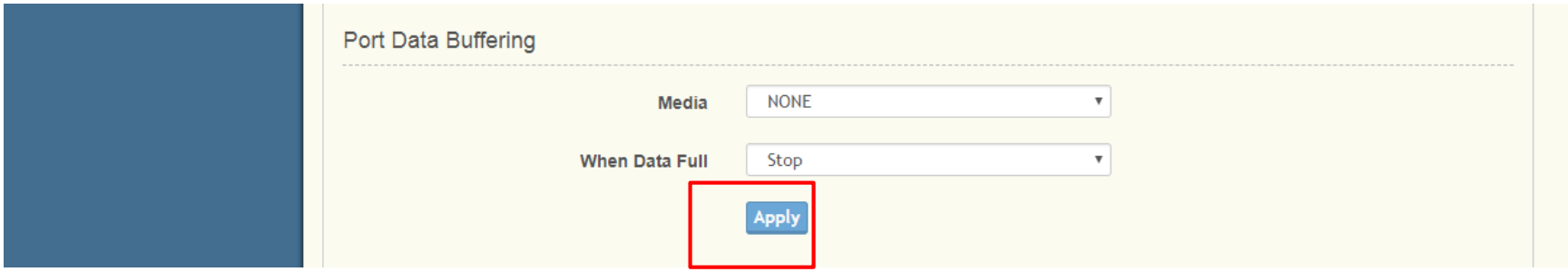
Serial Port Setting (1/2)



Click save on every config change, but config will only be activated after device reboot

Serial Port Setting (2/2)

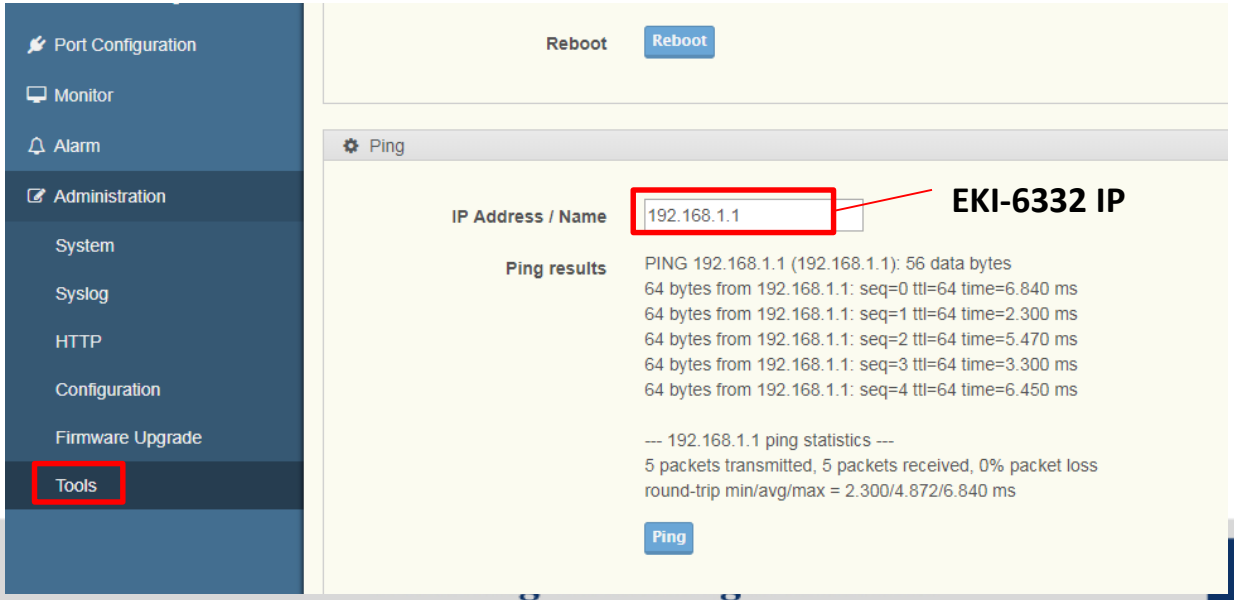




Reboot and Run the ping test

Step 1 :Reboot device after all setting done

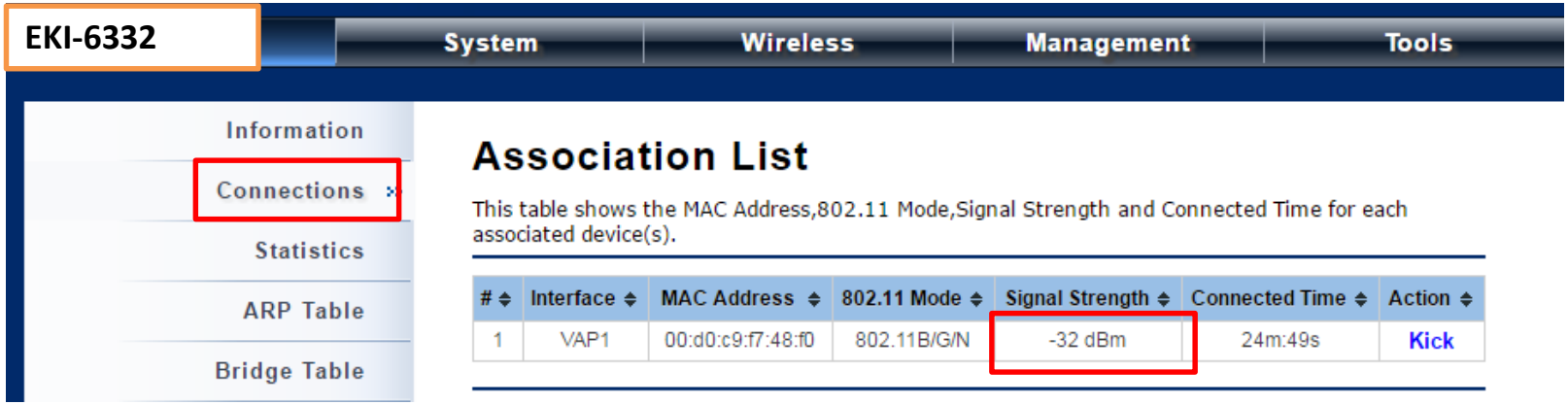
Step 2 : ping EKI-6332 to make sure the wireless connection is established



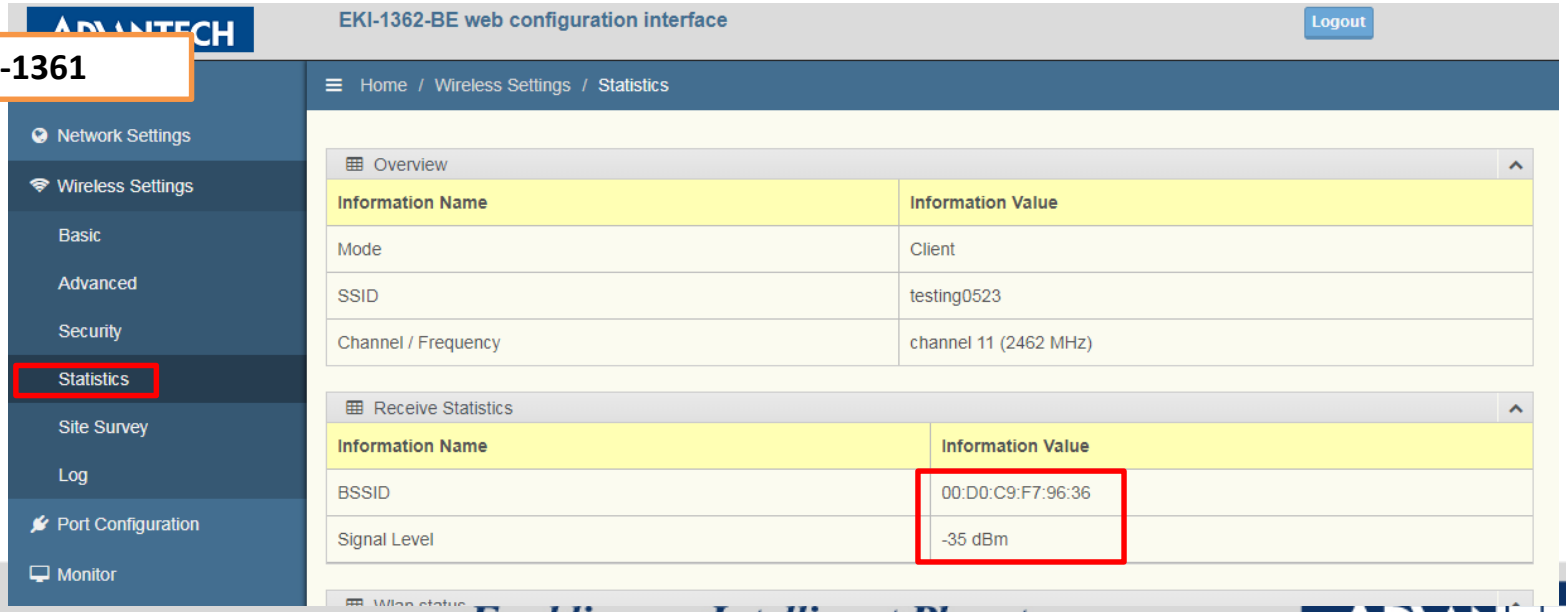
Wi-Fi connection check up

You may also check the Wi-Fi signal for AP/client on Web GUI

EKI-6332



EKI-1361

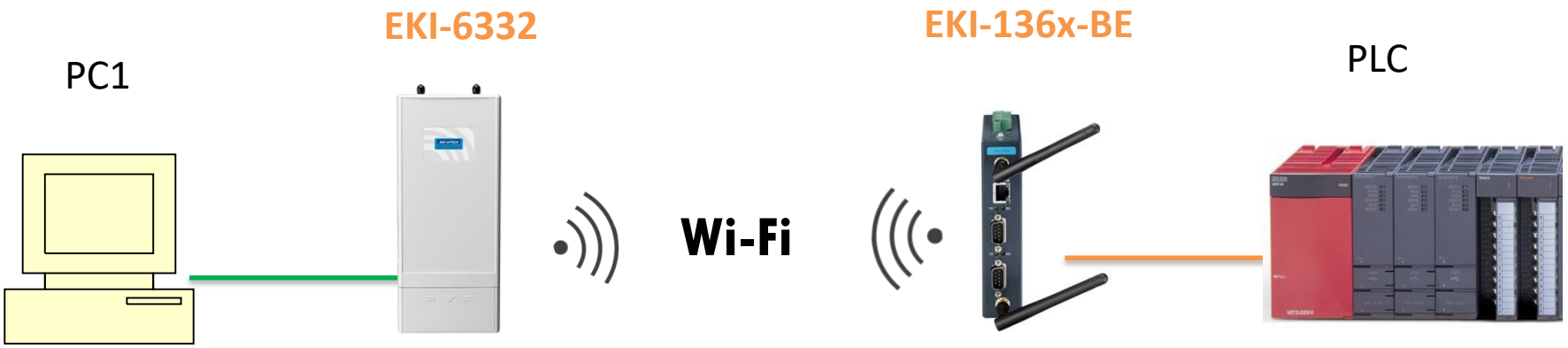


VCOM Mapping via EKI Utility

Topology

RS cable

Ethernet



EKI Utility create VCOM on PC

IP:192.168.1.x

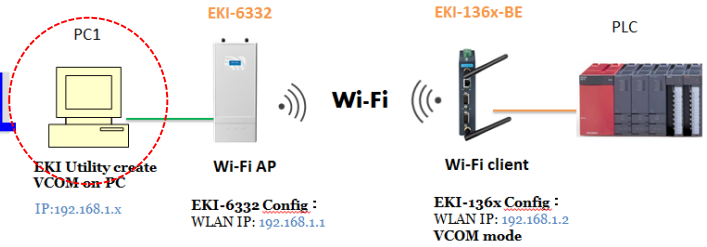
Wi-Fi AP

EKI-6332 Config：
WLAN IP: 192.168.1.1

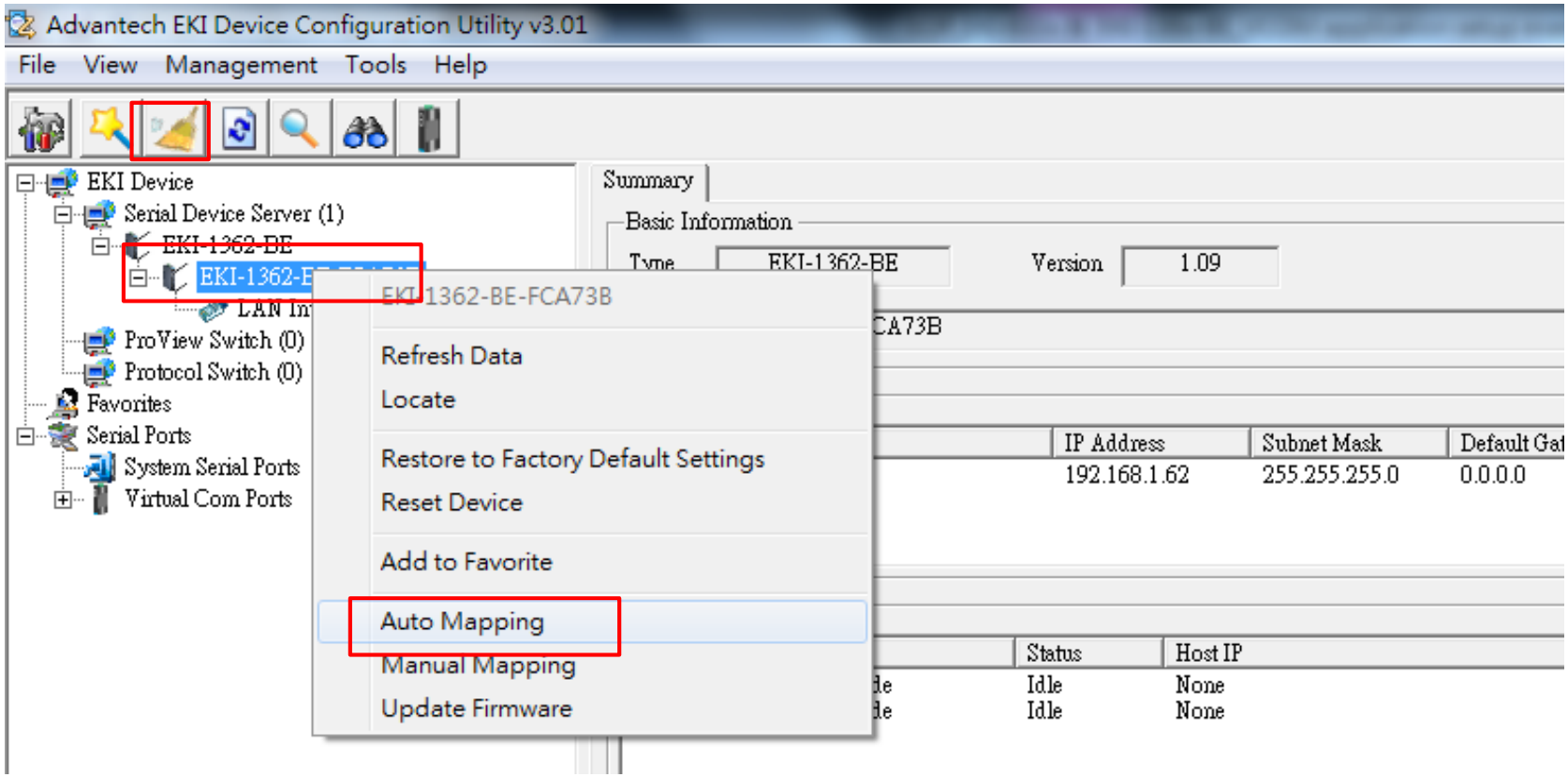
Wi-Fi client

EKI-136x Config：
WLAN IP: 192.168.1.2
VCOM mode

Mapping the VCOM on PC1

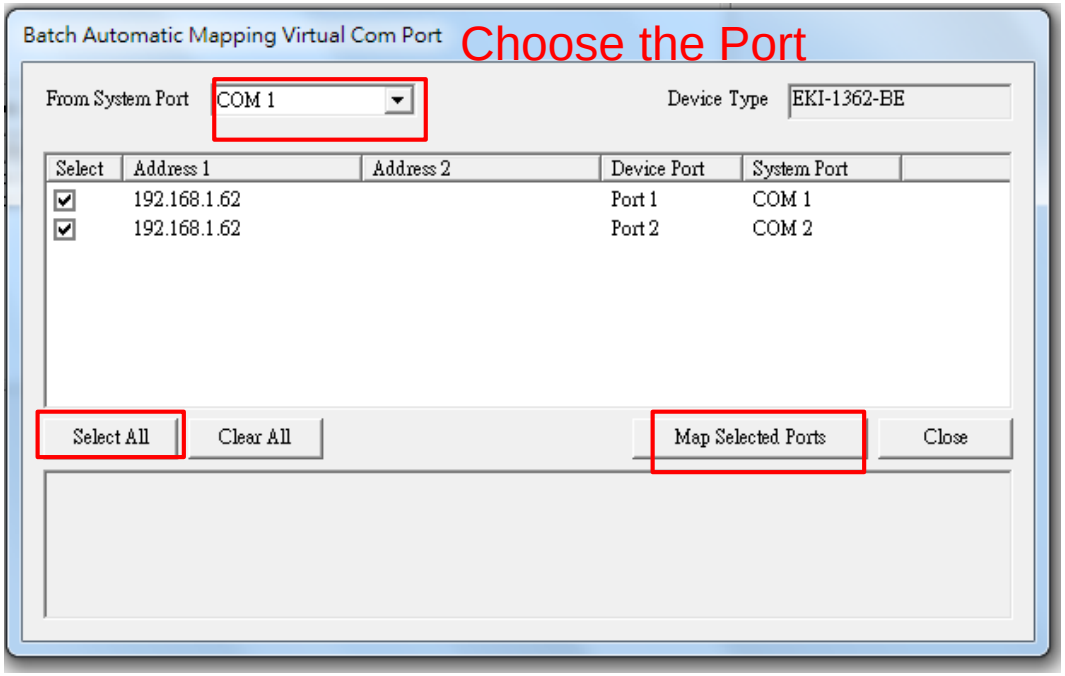


Step 1 :Run the EKI utility on PC1 to scan the EKI-136x-BE.
Step 2 :Right click the device and press “auto mapping”.



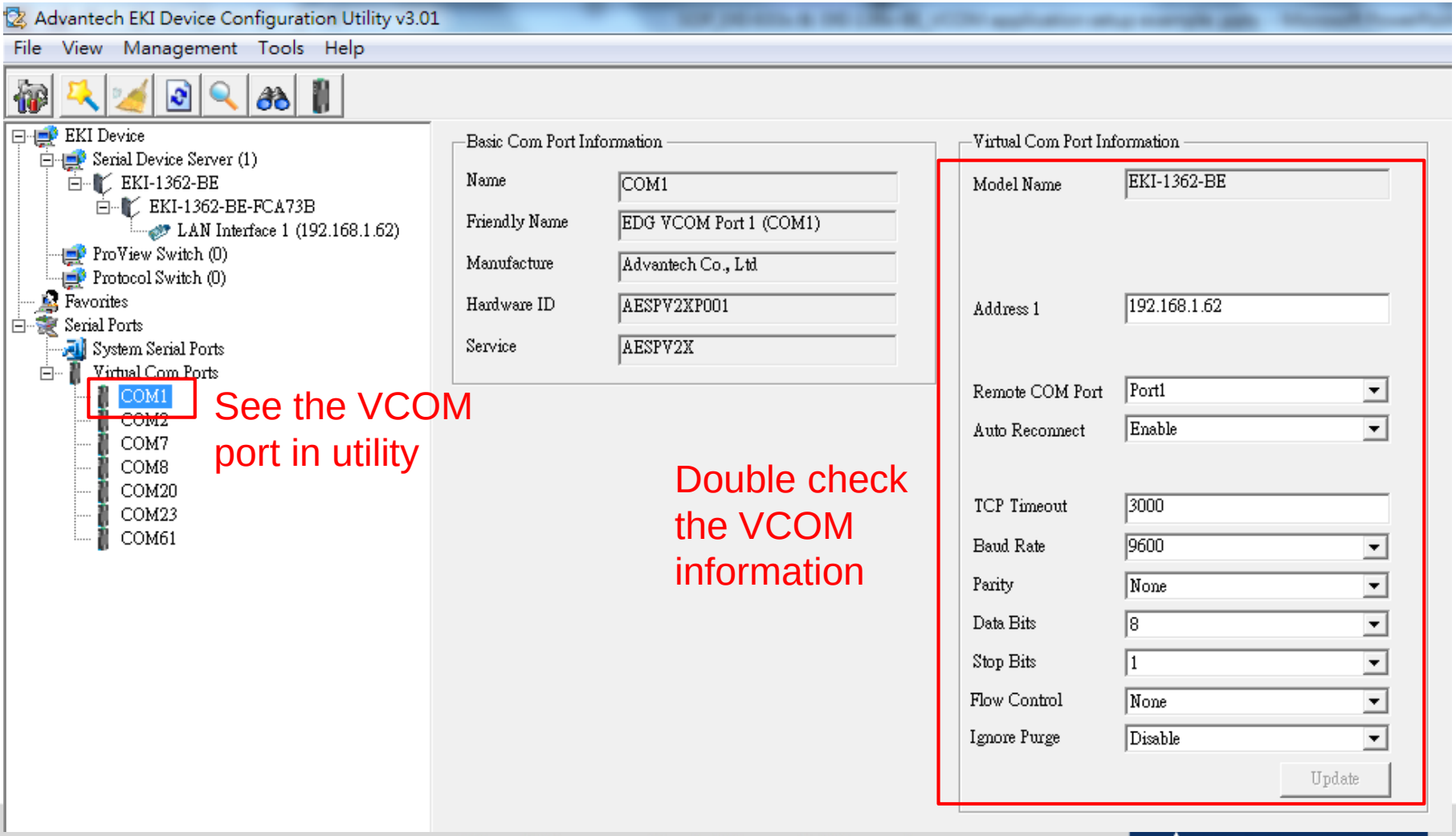
Mapping the VCOM on PC1 (2/2)

- **Choose the VCOM port and click "Map Select Ports"**



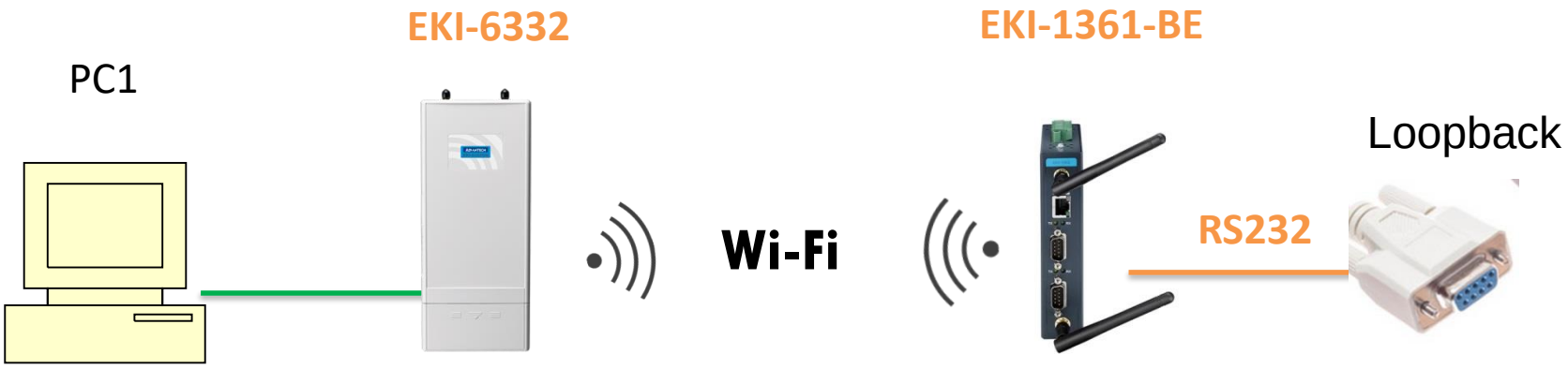
Double check the VCOM information

- **If the VCOM is mapping successfully, you can see the VCOM port on Utility.**
  - **Click the COM port to double check the VCOM information**



Test VCOM Mode by TestView

Topology

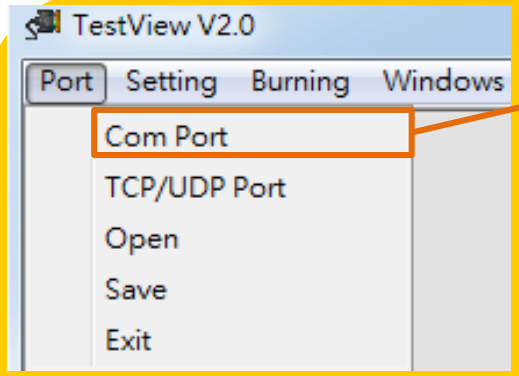


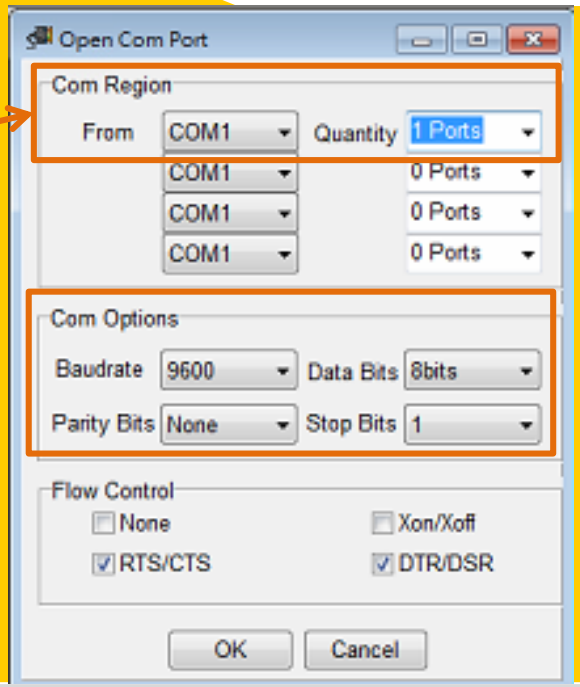
This is very important test way to check your device can work or not !!!

Connect the com port which you are mapping to and connected with **loopback connector** with the WLAN Device Server

Test Tool: Testview

- **Simulate COM Port mode of the EKI device server.**



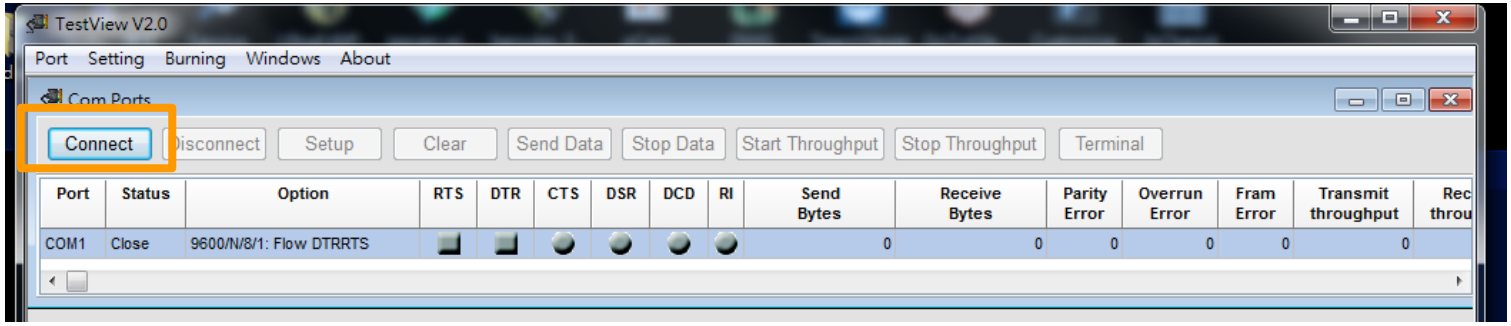


Step by Step

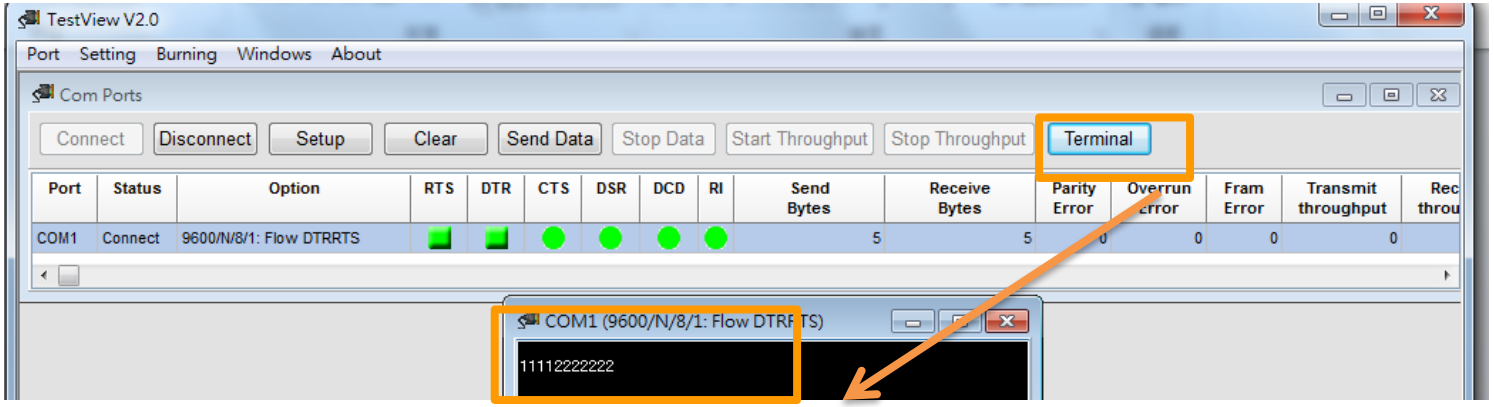
1. Click *Port -> Com Port* to Open Com Port
2. Set up your serial setting
3. Select to the connected COM Port and set up option

Test Tool: Testview

4. Click Connect to enable VCOM Port



5. Click Terminal to send data. See the receive data in Terminal as well.



Send the data and see the receive data

Double check on the EKI WebGUI

- You can double check the Tx/Rx count on WebGUI

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