

WAP-6017/WAP-8021
N300 / AC1200 WIRELESS ACCESS POINT,
CONTROLLER MANAGED

User's Manual

V1.0_20170915

Attention:

1. Check box contents:

Antenna

QIG

Power Adapter

2. Warning:



Attention

- Do not use the product in high humidity or high temperatures.
- Do not use the same power source for the Product as other equipment. Only use the power adapter that comes with the package. Using a different voltage rating power adapter may damage the device.
- Do not open or repair the case yourself. If the Product is too hot, turn off the power immediately and have it repaired at a qualified service center.
- Place the Product on a stable surface and avoid using this product and all accessories outdoors.

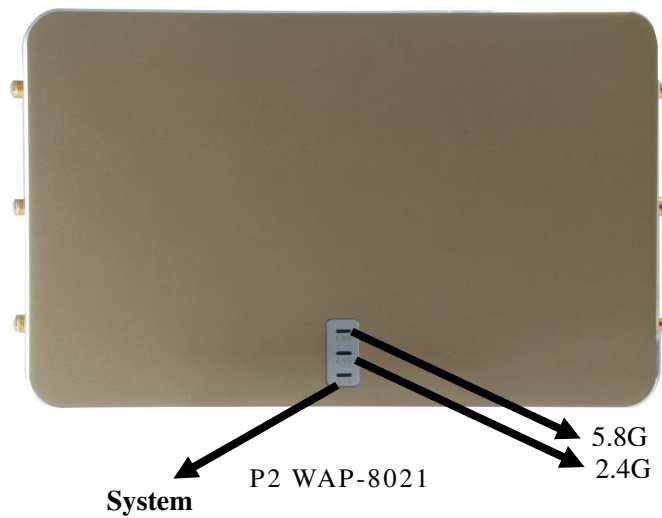
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Chapter 1 Hardware and Operation mode Instruction



P1 WAP-6017

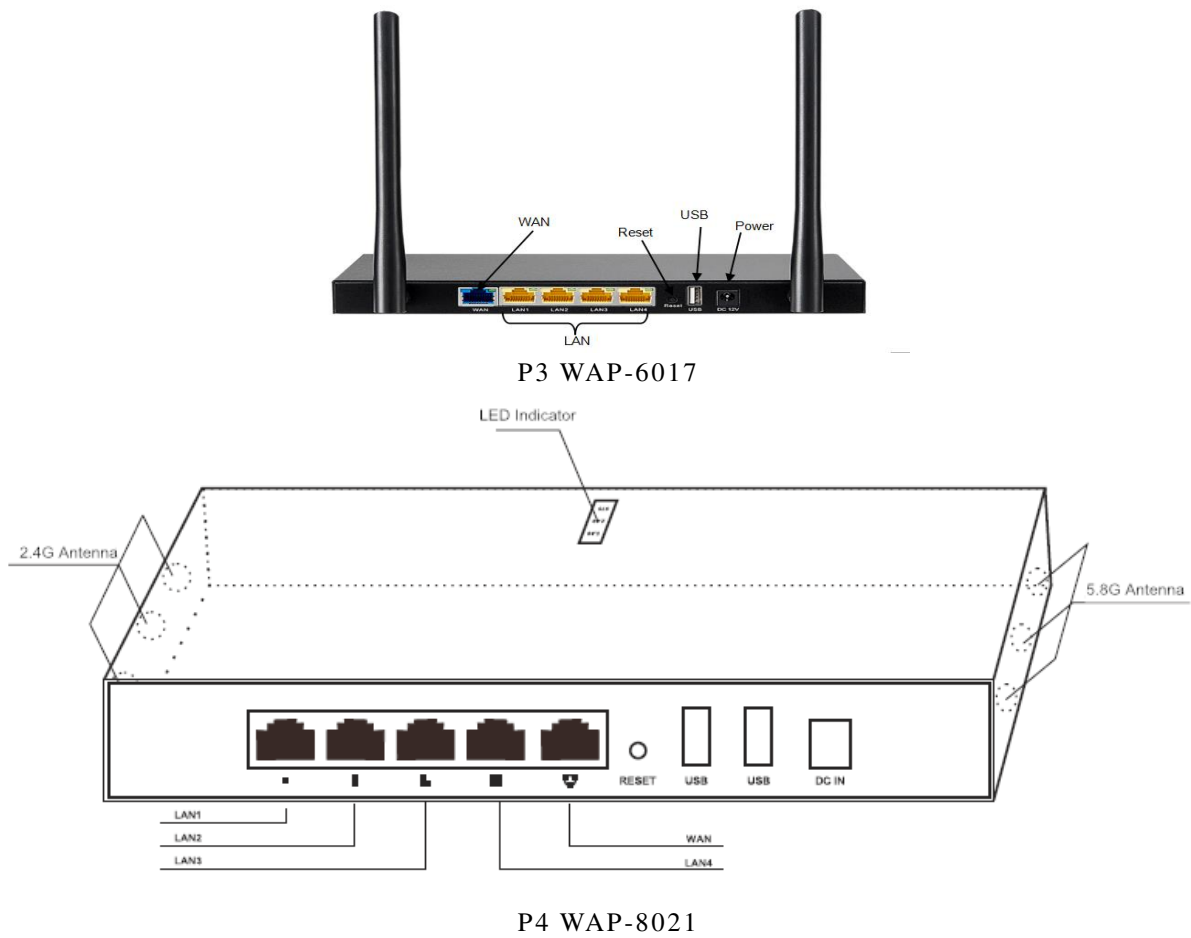


P2 WAP-8021

1.1 LED indicator:

LEDs	Full Name	Description
Power	Power Light	On The Device is powered
		Off The Device is not powered
USB	USB Light	On USB is connected
5.8G	5.8G WIFI	On 5.8G WIFI is on
2.4G	2.4G WIFI	On 2.4G WIFI is on
System	System Light	Blink operating properly.
		On without blink or off operating not properly.

1.2 AP Interface:



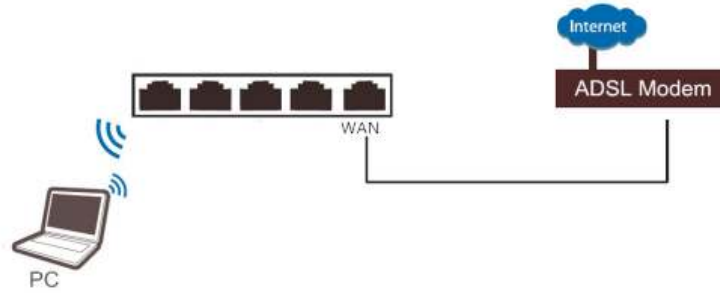
Port	Description
WAN	The WAN port is used to connect to network devices, such as a switch
LAN	The LAN port is used to connect to network devices, such as a switch or PC
Reset	With the AP powered on, press the Reset button for 15 seconds until the USB LED blink with green light and System LED on without blink. The AP will restart itself and reset the device to factory default settings.
USB	To connect with USB storage device
Power	To power the device by DC

Chapter 2 Connect Wireless AP with PC

Use can connect the PC with wireless AP by Wireless SSID and LAN cable:

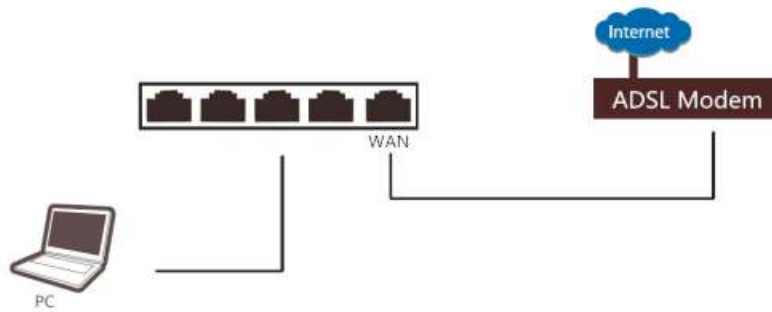
The diagram of wireless connection showed as follow:

Pls note: the default SSID is **Wireless2.4G/5.8G**, SSID's password is **66666666**



P5 Connect router with PC in WiFi

The diagram of LAN cable connection showed as follow:

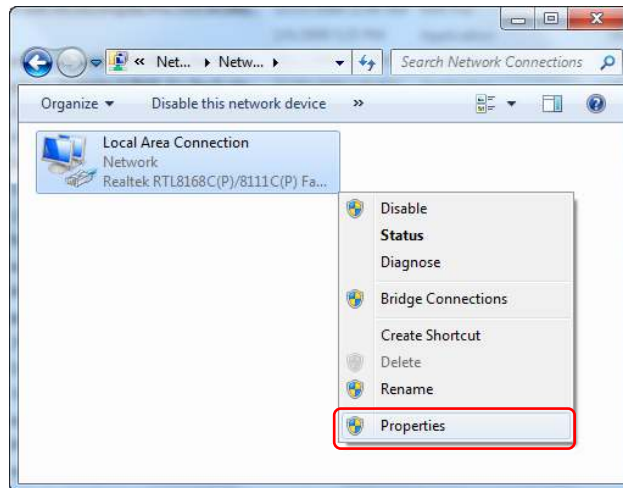


P6 Connection way

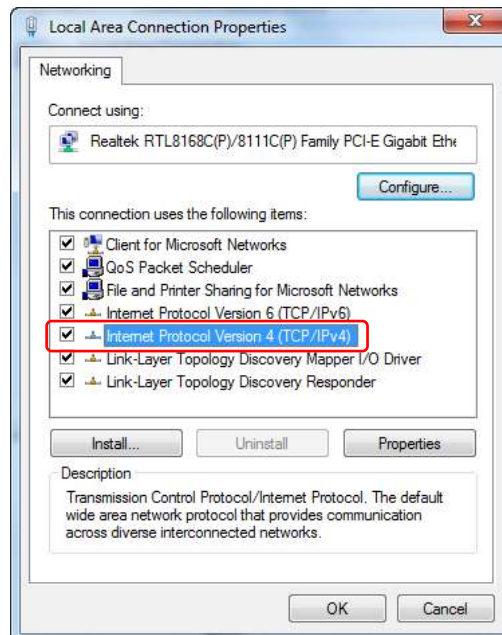
Chapter 3 Login

The necessary information about log in is displayed on the sticker of the product, including the URL, User Name and Pass Word

- 1) Connect the Ceiling AP with computer
- 2) Configure the PC's local connection IP address as 192.168.188.X (X is number from 2 to 252), subnet mask is 255.255.255.0, follow P7 and P8 to finish.

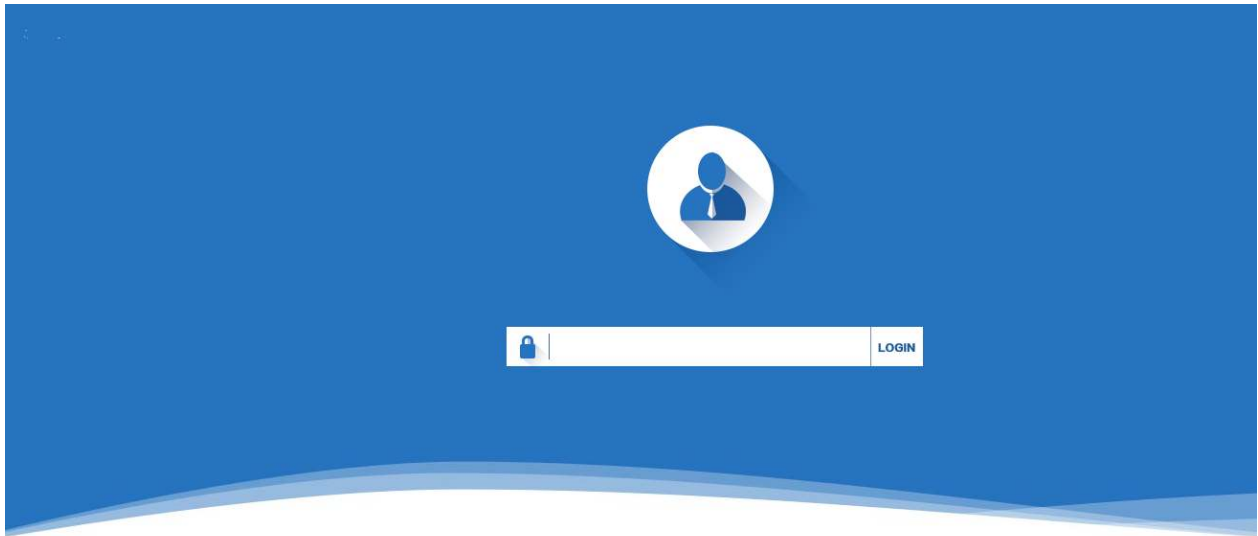


P7 Setting of computer's IP address



P8 Setting of computer's IP address

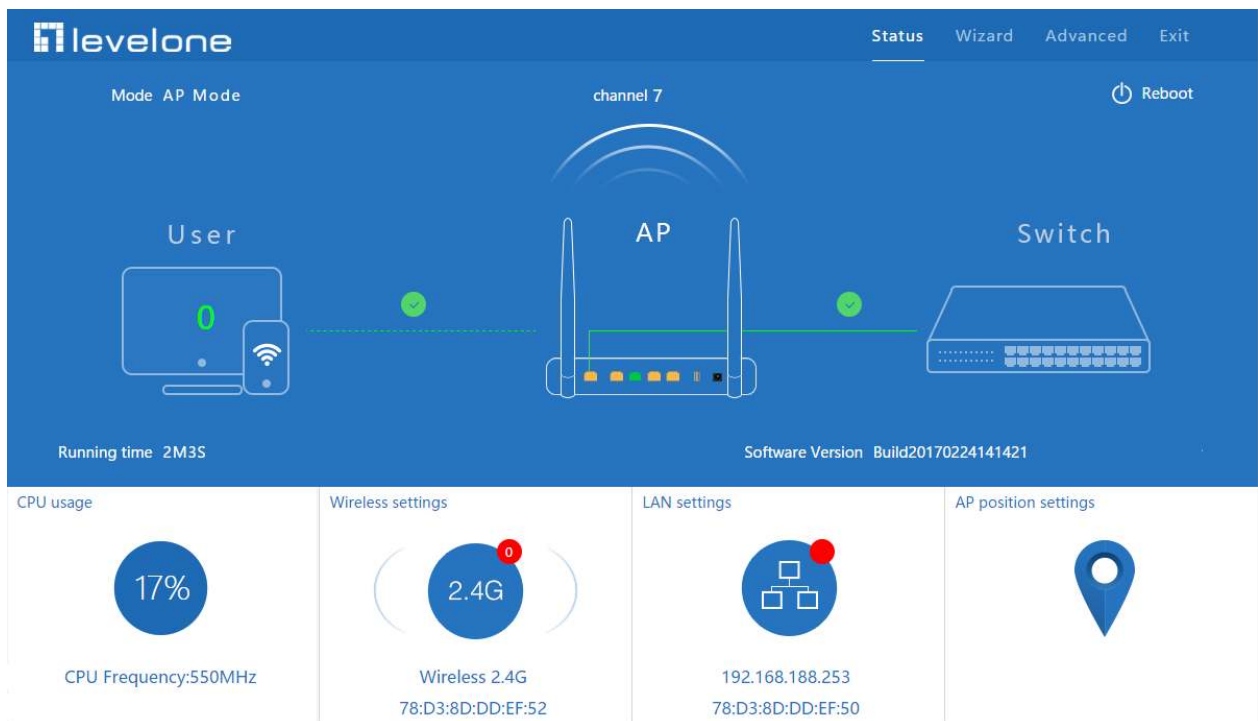
- 3) Input 192.168.188.253 into IE browser, then pop up the login page, the default login password: admin, then login, pls do following P9



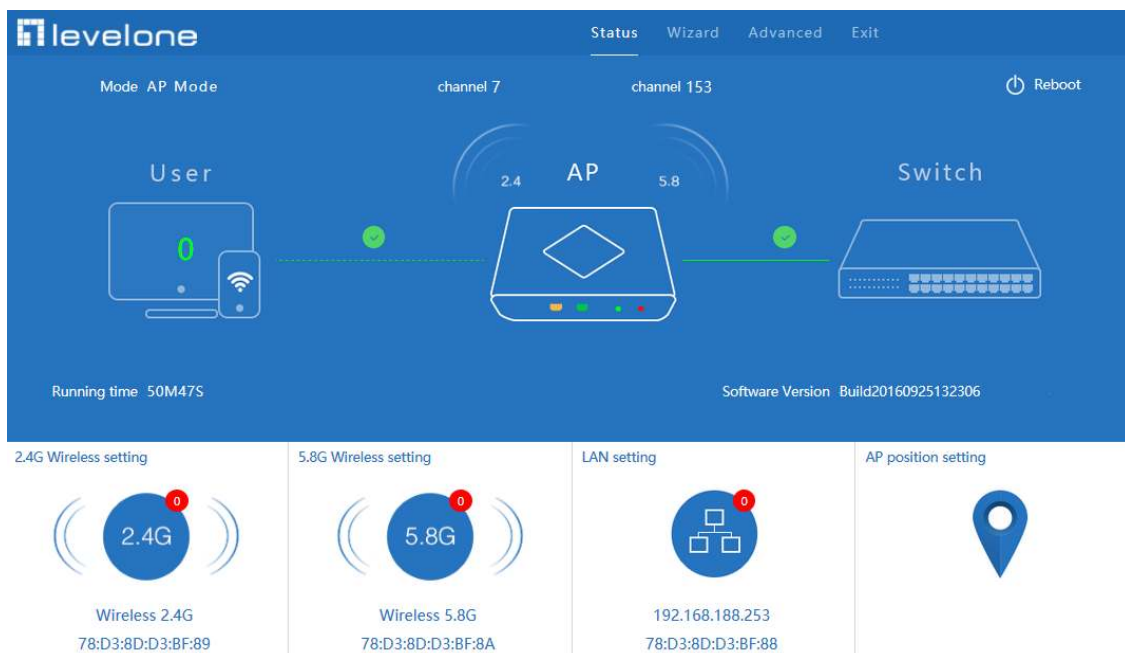
P9 Login

- 4) After login, then P10 Device Status will be showed;

This page will show the Wireless AP's default operation mode, channel, connection status, CPU usage, Wireless settings, LAN Setting, Wireless AP's Location, hardware/firmware version.



P10: WAP-6017 Device Status

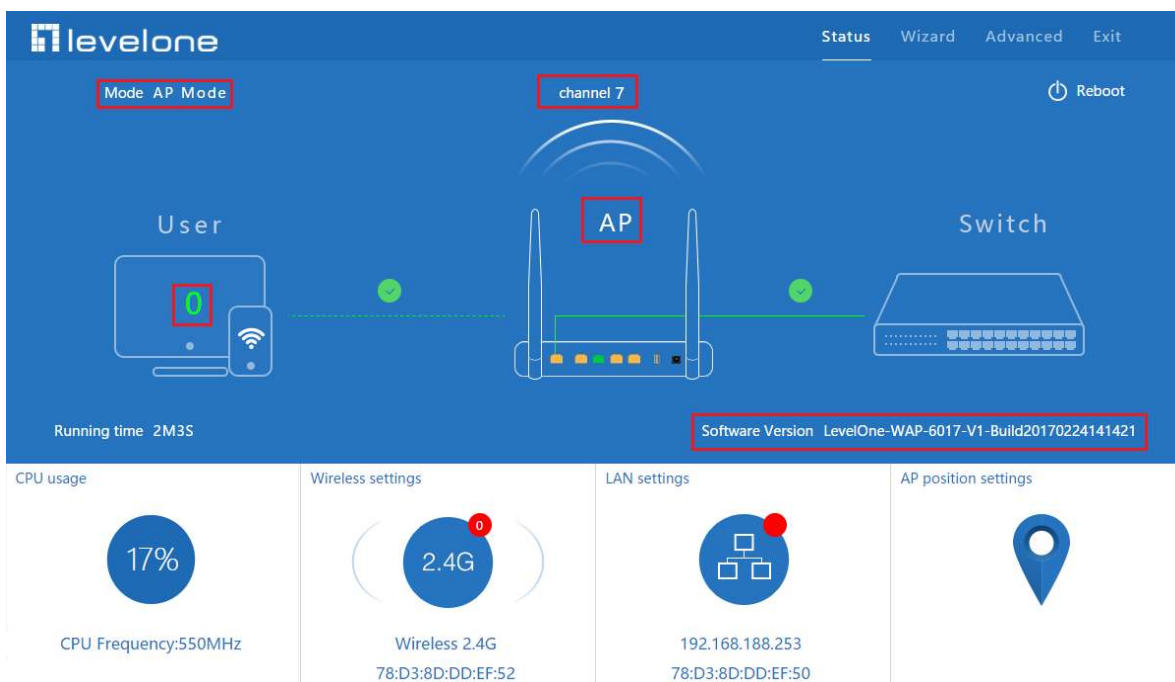


P11: WAP-8021 Device Status

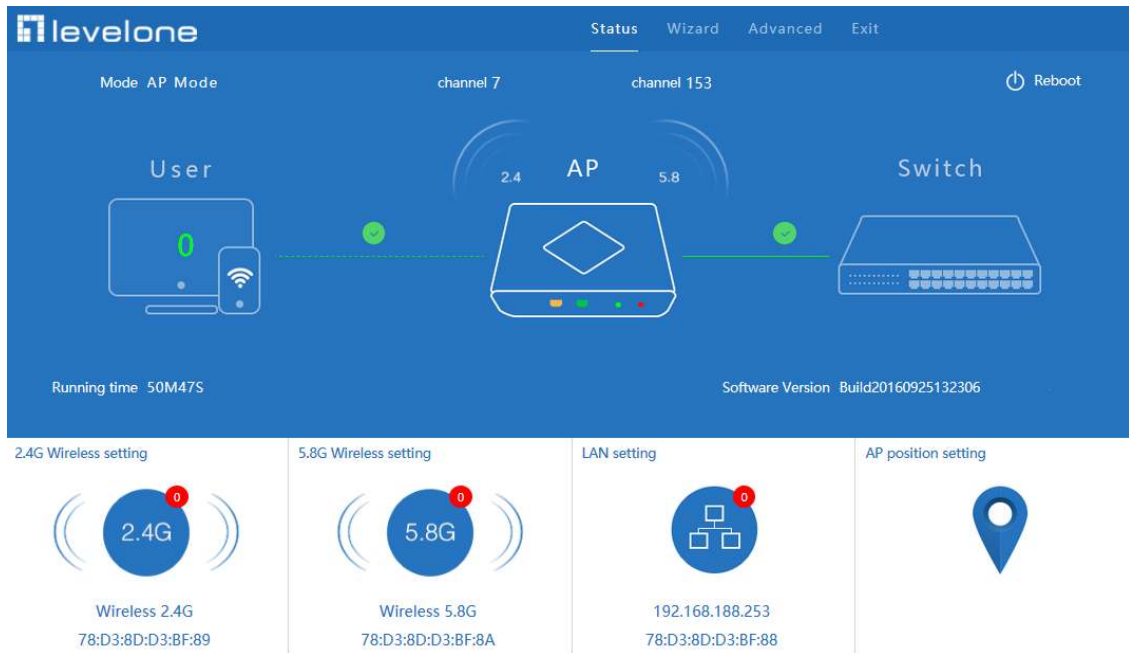
Chapter 4 WEB GUI interface Setting

4.1 Status:

After login, then P12 Device Status and home page will be showed:



P12: WAP-6017 Device Status

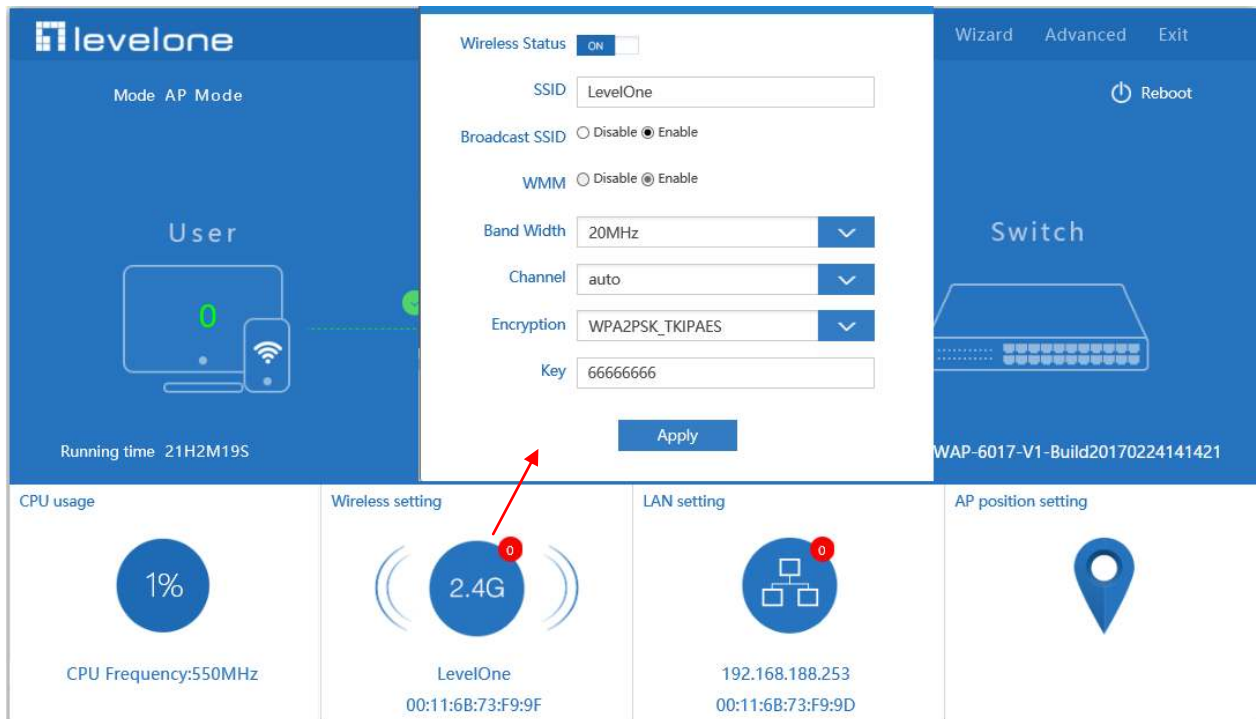


P13: WAP-8021 Device Status

In this page, show the AP's default operation mode, channel, end user QTY, connection status, CPU usage status, Wireless, LAN and AP location info.

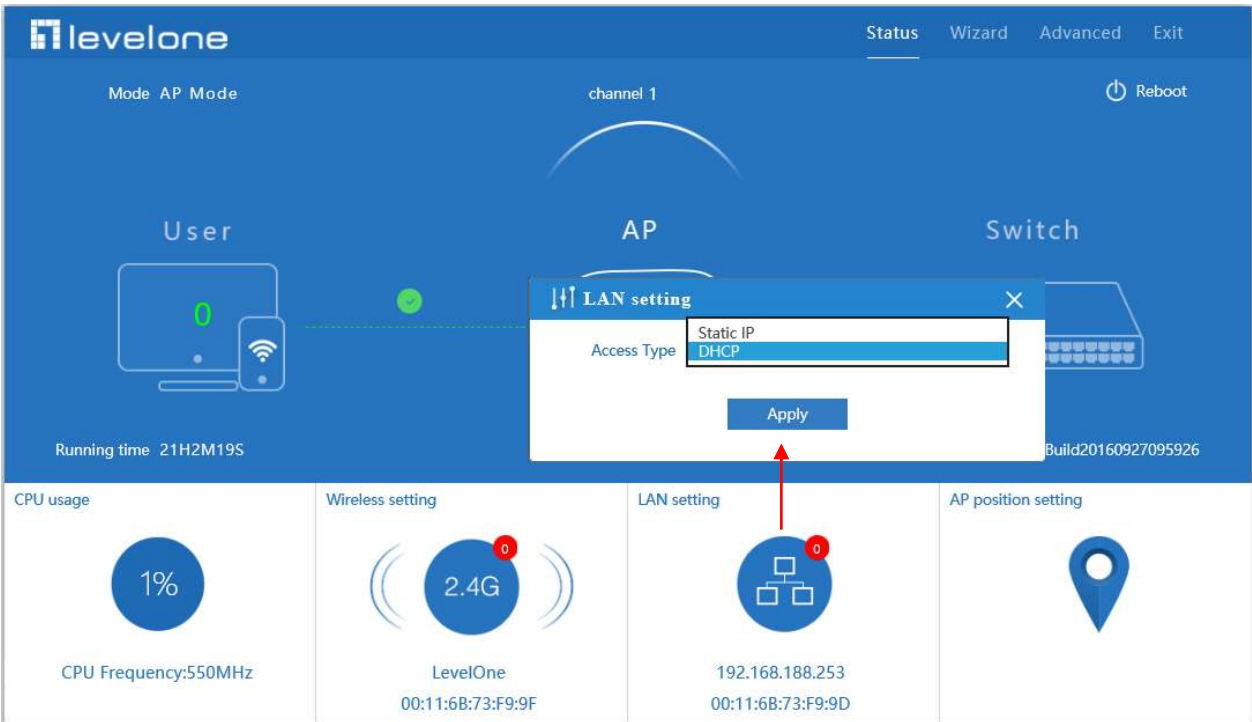
Then in Wireless Setting, GUI configuration page showed as below:

User can configure the SSID, password, band width, channel here, then Apply to finish.



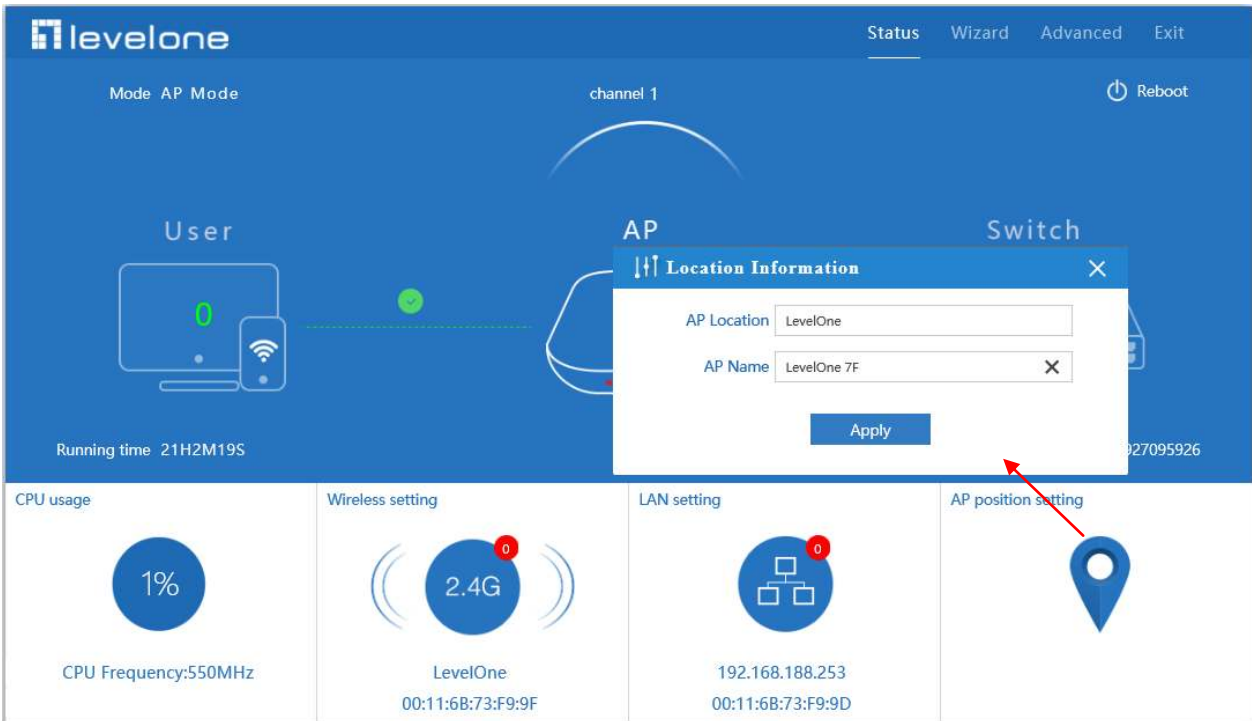
P14. Wireless setting

LAN Setting to configure the DHCP or Fix IP



P15 LAN Setting

AP location setting: can mark where the AP set up, and AP name as P14:

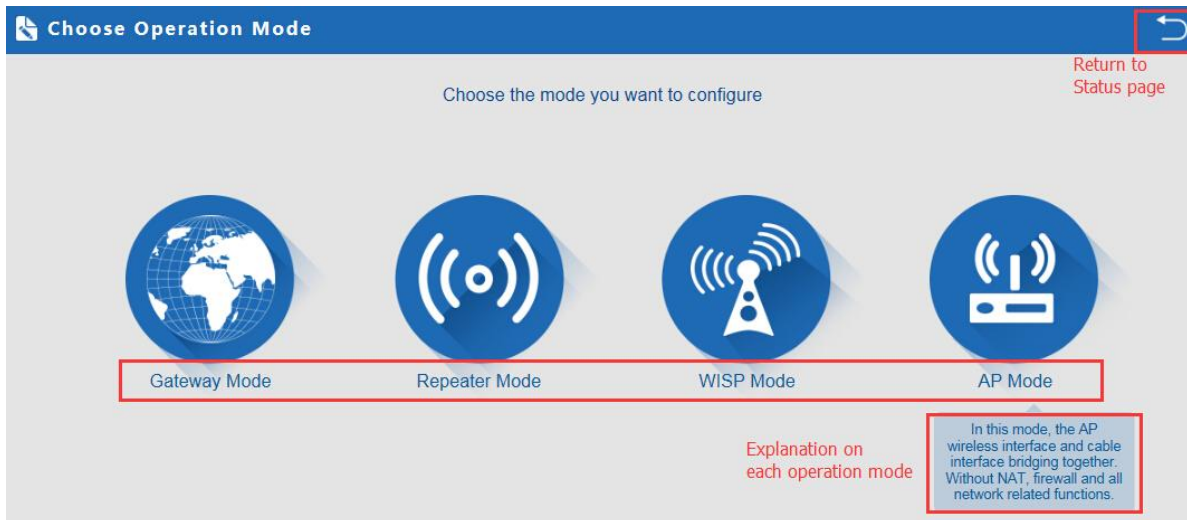


P16 AP Postion setting

4.2 Wizard Configuration:

Wizard: It instruct users to configure wireless AP's operation mode based on needs: there are four operation mode including gateway, repeater, WISP, Wireless AP. Please confirm the operation mode first before configuration starting.

Click Wizard in Status page, will pop up following page to configure the operation mode and there are explanation for each operation mode for better application.

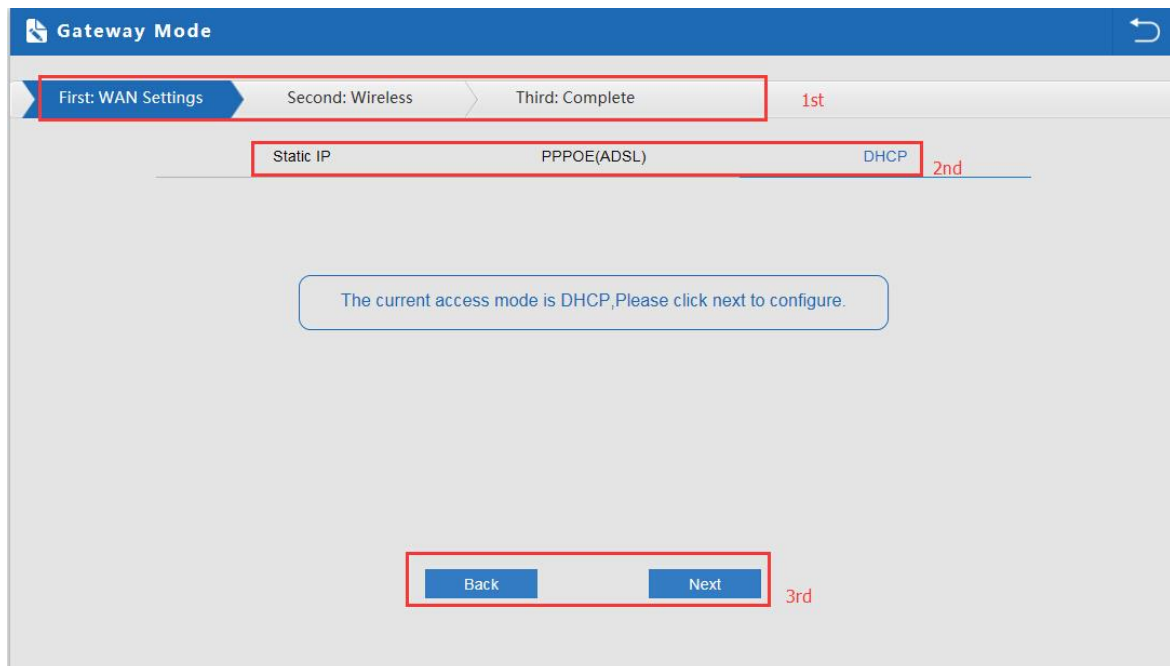


P17 Operation mode

4.2.1 Gateway Mode:

Before Click Gateway mode, confirm your internet will be static IP, PPPoE, or DHCP:

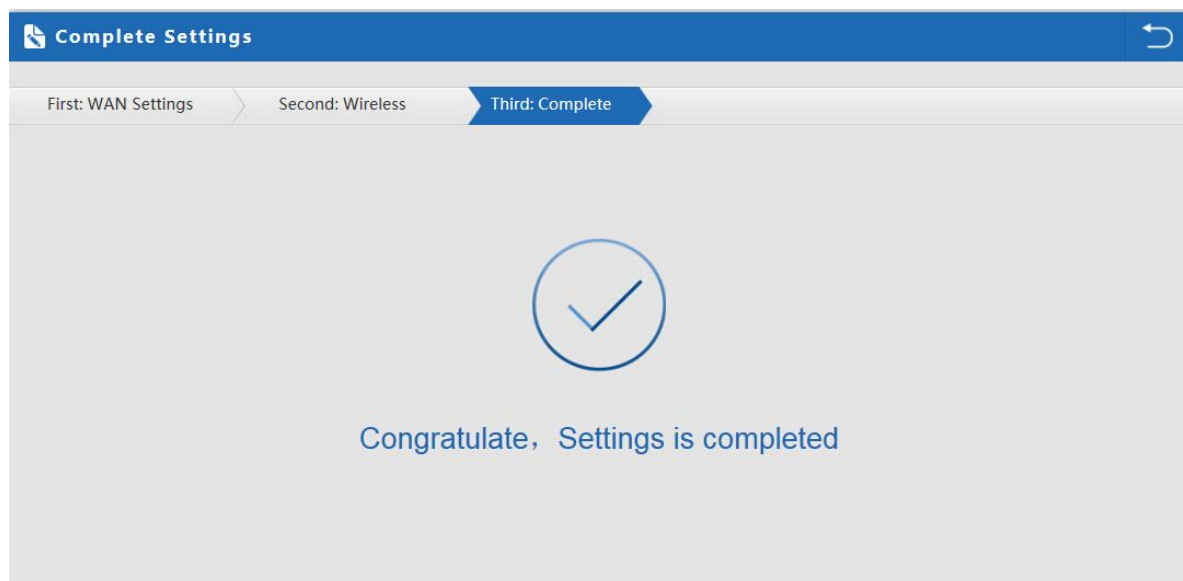
Then will pop up following picture after click it, Please choose the right WAN setting mode, then click next to continue.



P18. WAN setting in Gateway Mode

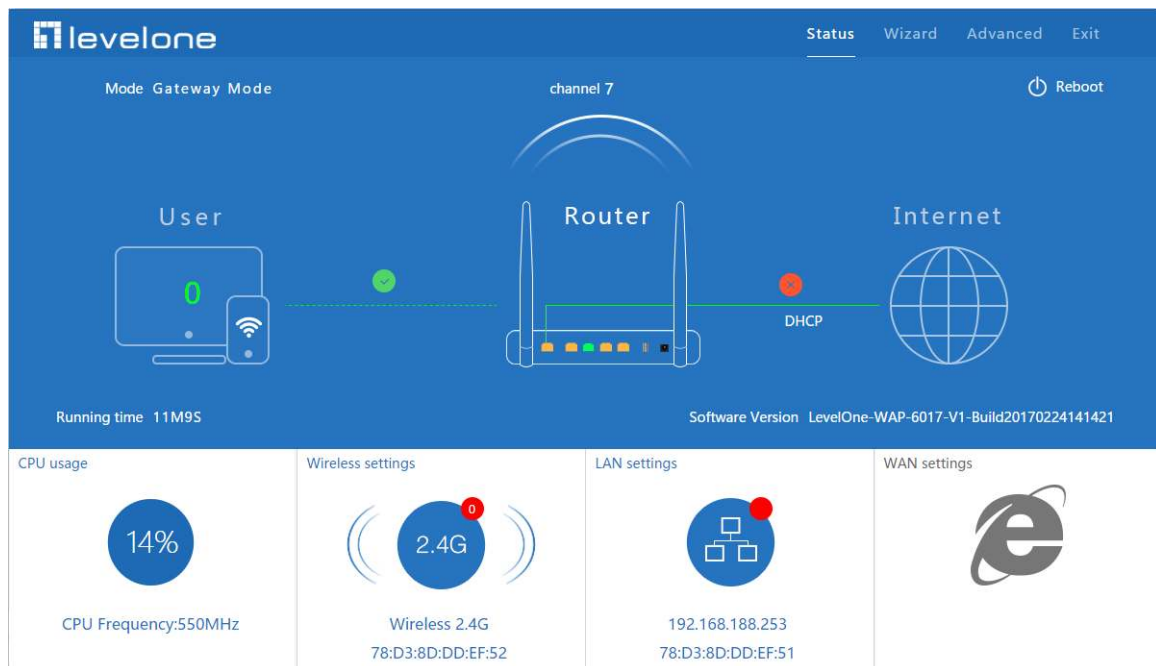
P19 Wireless Setting in Gateway Mode

When click Next, then will complete the Gateway mode setting and show following picture:



P20 Complete the setting in Gateway Mode

When return to Status, will show wireless router's SSID, internet connection, LAN connection status showed as follow:



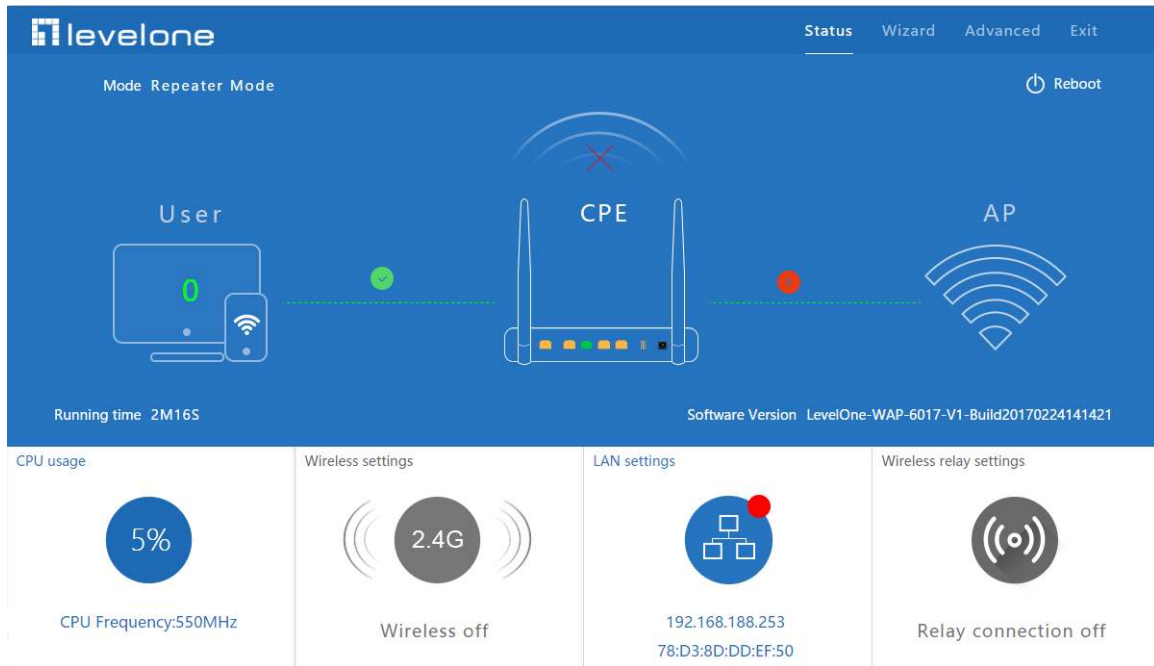
P21 Status in Gateway Mode

4.2.2 WiFi Repeater mode

- A. Login the Web management page, click “Wizard”, then “WiFi Repeater”
- B. Select the AP’s SSID want to bridge, take “wireless 2.4G” for example, then input the AP’s key, click next to complete.

P22 WAP-6017 Repeater Mode

Click Return button, will back to Status, show Repeater mode data, show fail or success, and user can configure this data in this page if required.



P23 WAP-6017 Status in Repeater Mode

In wifi repeater operation mode, the default is SSID disable. If want to enable SSID, then click Wireless Setting. Pls note, when click wireless relay setting, following page will pop up, you can make change from here easily:

P24 WAP-6017 Wireless Relay Setting

WAP-8021

- Login the Web management page, click “Wizard”, then “WiFi Repeater”
- Scan AP and select the AP’s SSID want to bridge, take “wireless 2.4G” for example, then input the AP’s key, click next to complete.

Repeater Mode

First: Repeater Second: Wireless Third: Complete

Wireless Repeater

Wireless Repeater: 2.4G
 Authentication: 5.8G
 Band Width: 20MHz
☒ WDS Passthrough

Repeater SSID: WirelessAP Scan AP
 Key:

Back Next

P25 WAP-8021 Repeater Mode 1

C. Configure the SSID and password the AP going to broadcast. If you have repeated 2.4G WIFI, in default setting, you are only allowed to broadcast 5.8G WIFI.

Repeater Mode

First: Repeater Second: Wireless Third: Complete

Wireless Settings 2.4G/5.8G

5.8G Wireless Settings

5.8GHz WLAN Status: ON 5G wireless analyzer

SSID: Wireless 5.8G
 Channel: * 5.765 GHz (Channel 153)
 Encryption: WPA/WPA2PSK_TKIPAES
 Key: 66666666

Back Next

P26 WAP-8021-Repeater Mode 2

Click Return button, will back to Status, show Repeater mode data, show fail or success, and user can configure this data in this page if required.



P27 WAP-8021 Status in Repeater Mode

In wifi repeater operation mode, only one band SSID can be broadcast. If want to enable dual band SSID, then click Wireless Setting. Pls note, when click wireless relay setting, following page will pop up. Turn on and there will be dual band WIFI SSID.



P28 WAP-8021 Wireless Relay Setting

4.2.3 WISP Operation mode:

Click WISP operation mode in Wizard, then will pop up the configure page, pls set the WISP operation mode based on the steps showed in picture:

The screenshot shows the 'WISP Mode' configuration wizard. The title bar is blue with 'WISP Mode' and a refresh icon. Below the title bar is a progress bar with three steps: 'First: Repeater' (active), 'Second: WAN', and 'Third: Complete'. The main content area is titled 'Wireless Repeater'. It contains three input fields: 'Repeater SSID' with the value 'LevelOne', 'Authentication' with a dropdown menu showing 'WPA2PSK_AES', and 'Key' with the value '1234567890'. There is a 'Scan AP' button next to the SSID field. At the bottom, there are 'Back' and 'Next' buttons.

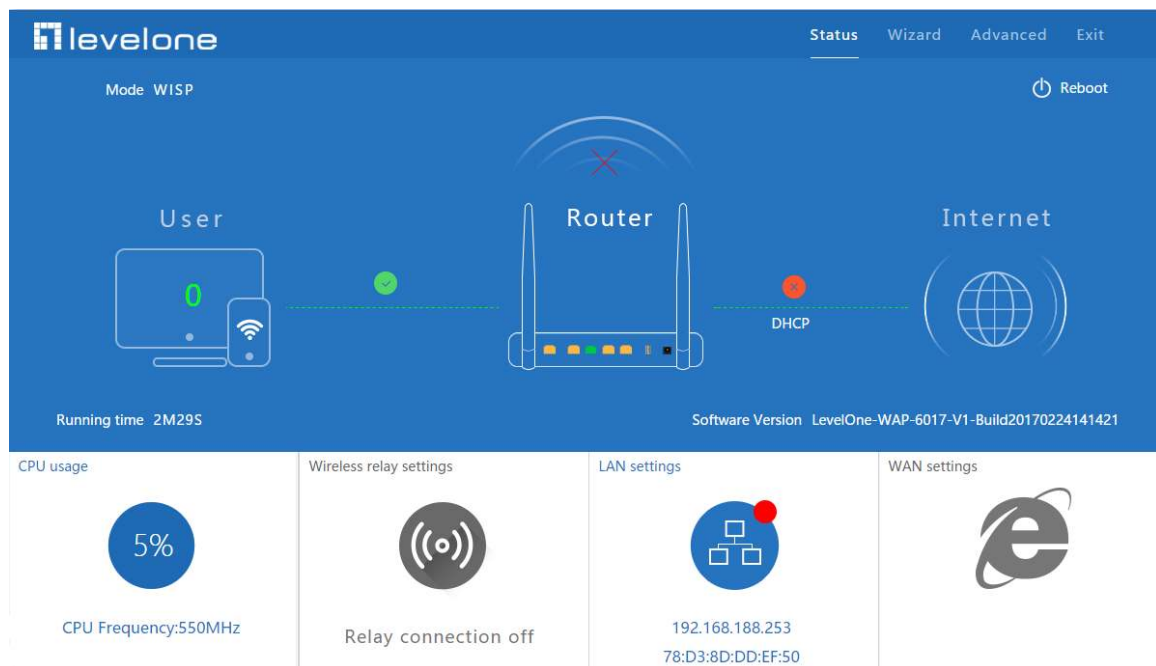
P29 WISP Mode

Configure the right WAN setting in WISP operation mode, then next to complete

The screenshot shows the 'WISP Mode' configuration wizard, Step 2: WAN. The title bar is blue with 'WISP Mode' and a refresh icon. Below the title bar is a progress bar with three steps: 'First: Repeater', 'Second: WAN' (active), and 'Third: Complete'. The main content area has three tabs: 'Static IP', 'PPPOE(ADSL)', and 'DHCP'. The 'Static IP' tab is selected. It contains four input fields: 'IP Address', 'Subnet Mask', 'Default Gateway', and 'Primary DNS'. At the bottom, there are 'Back' and 'Next' buttons.

P30 WAN setting in WISP mode

Then complete and back to status, will show the connection fail or success, then can configure the data based on request:



P31 Status in WISP mode

Remark: When click WAN Setting, will pop up following picture to ask you choose PPPoE, DHCP or Static IP



P32 WAN setting in WISP mode

4.2.4 AP Operation mode:

Set the wireless data, AP Location info as required, then click next to continue and enter into LAN setting. After LAN setting, complete the AP mode configuration and back to Status:

AP Mode

First: Wireless Second : LAN Third:Complete

Wireless Settings

WLAN Status: ☒ ON ☐ wireless analyzer

SSID: Channel:

Encryption: Key:

Location Information

AP Location: AP Name:

P33 Wireless setting in AP Mode

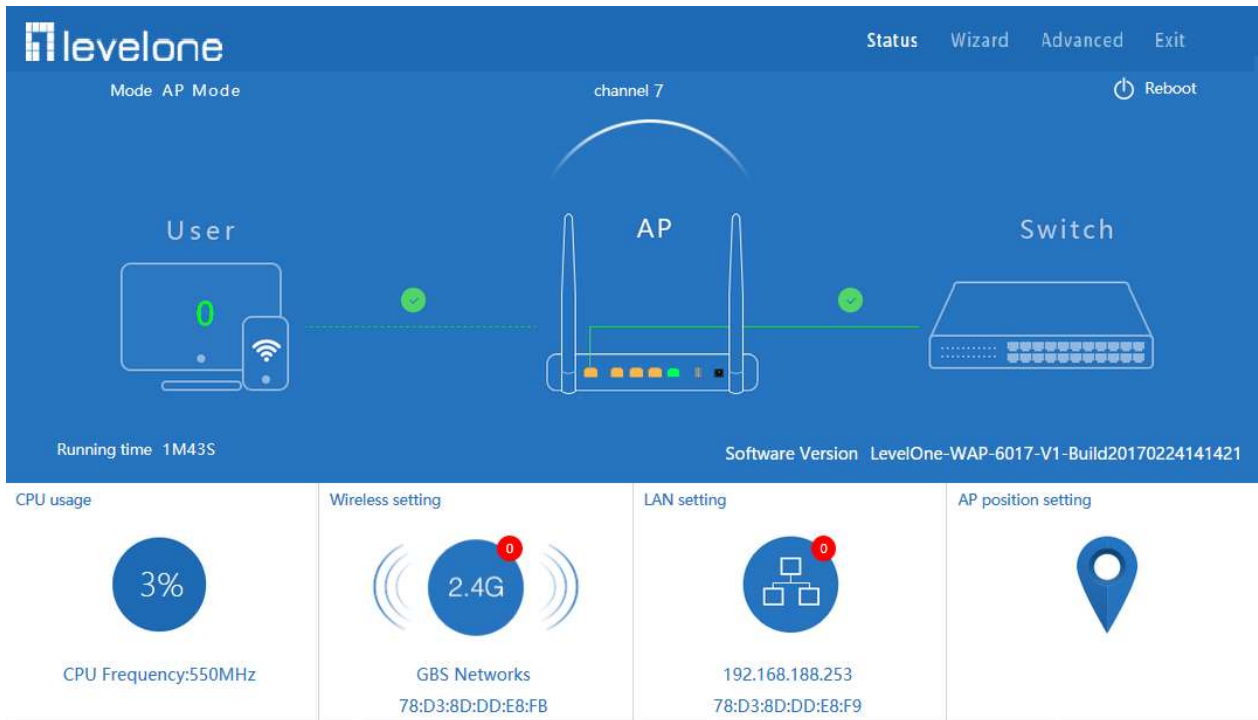
AP Mode

First: Wireless **Second : LAN** Third:Complete

LAN setting

Access Type:

P34 LAN Setting in AP Mode



P35 Status in AP Mode

4.3 Advanced Setting:

In advanced setting, mainly for wireless AP's device status, wireless setting, Networking setting and AP management configure.

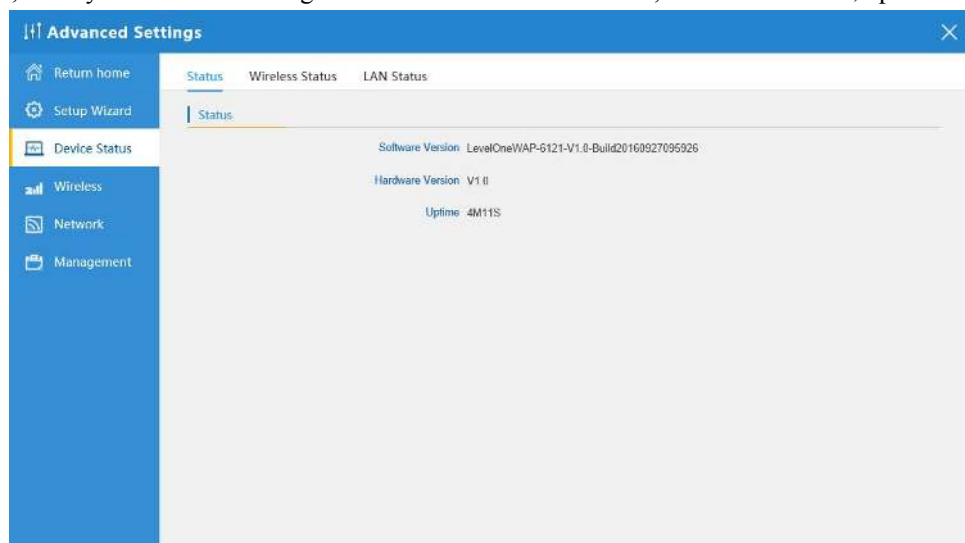
Let's Click Advanced Setting in status page, will show return home, Setup Wizard which we showed before.

Let's show more in Device Status, Wireless, Network and Management in following pages:

4.3.1 Device Status:

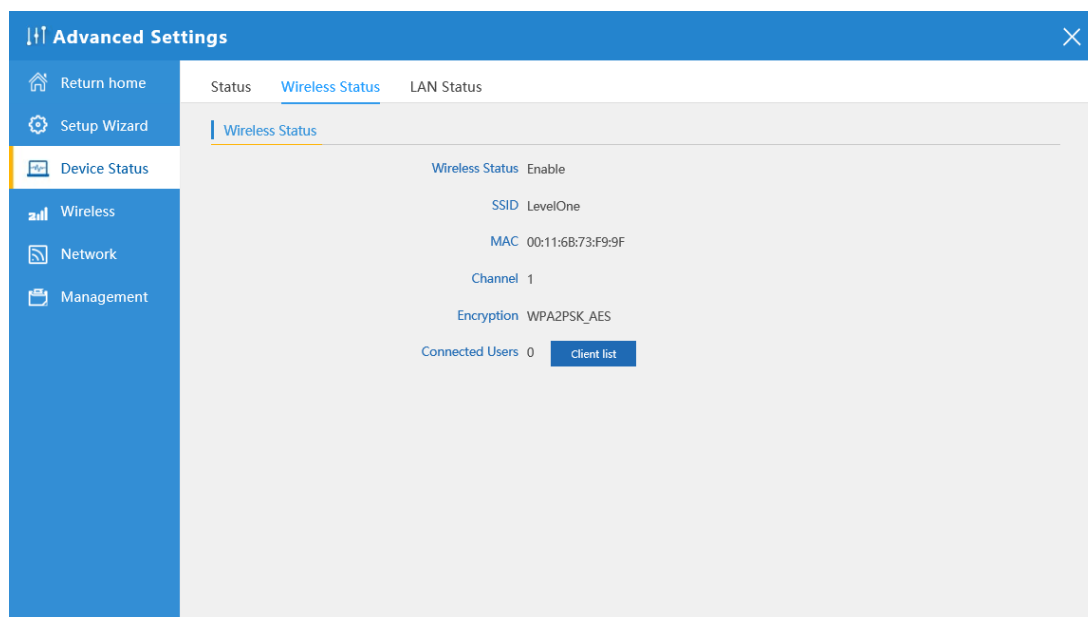
to show the Wireless AP's status, Wireless Status and LAN status.

In status, mainly to check the ceiling wireless AP's firmware version, hardware version, uptime info.:



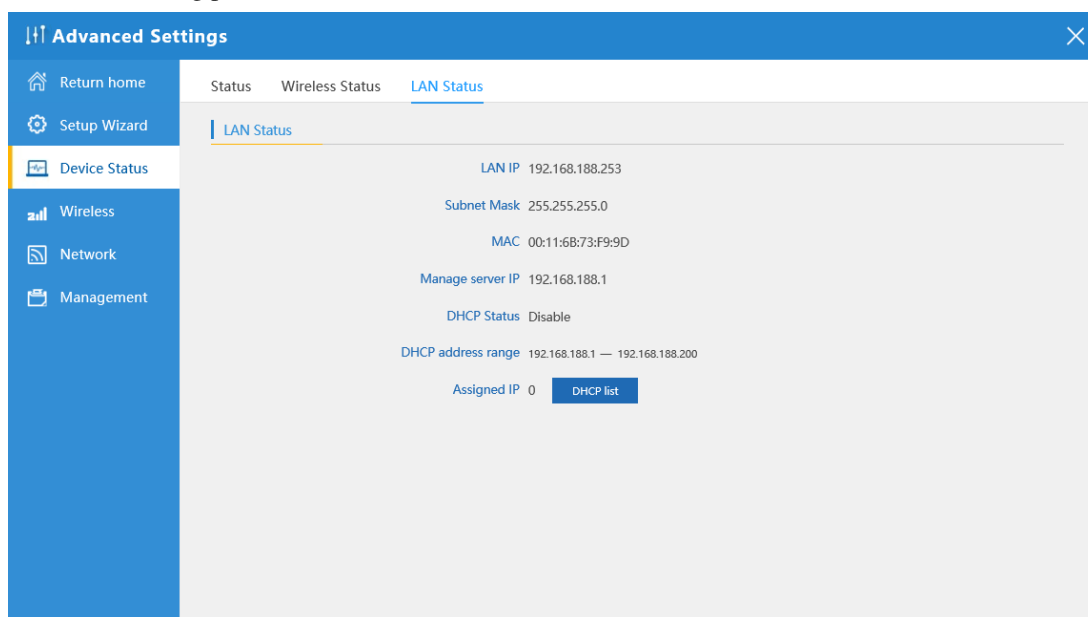
P36 Device Status

In wireless status, to show wireless AP's SSID, MAC address for WiFi, Channel, Encryption, Client List info.



P37 Wireless Status

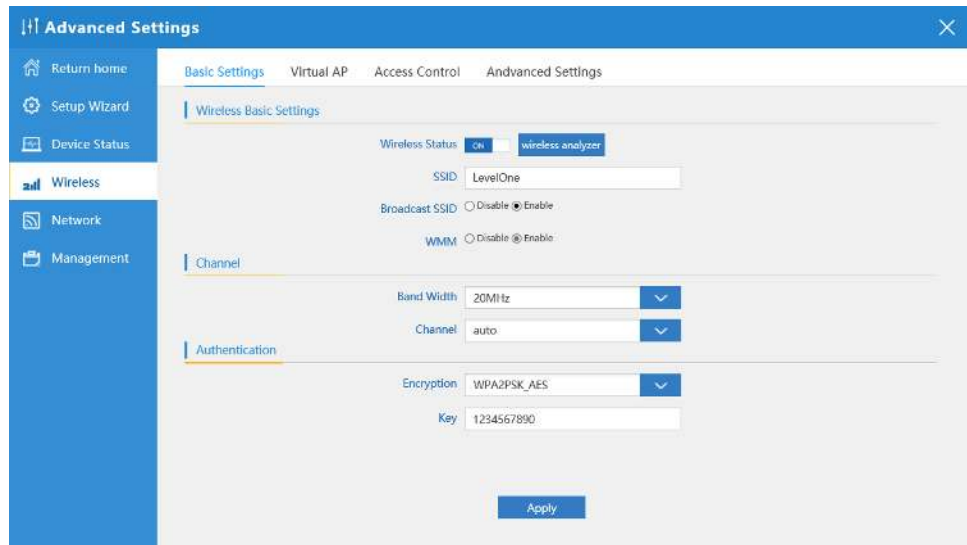
In LAN Status, we can check wireless AP's IP address, Subnet Mask, LAN MAC address and other info showed in following picture.



P38 LAN Status

4.3.2 Wireless Basic settings:

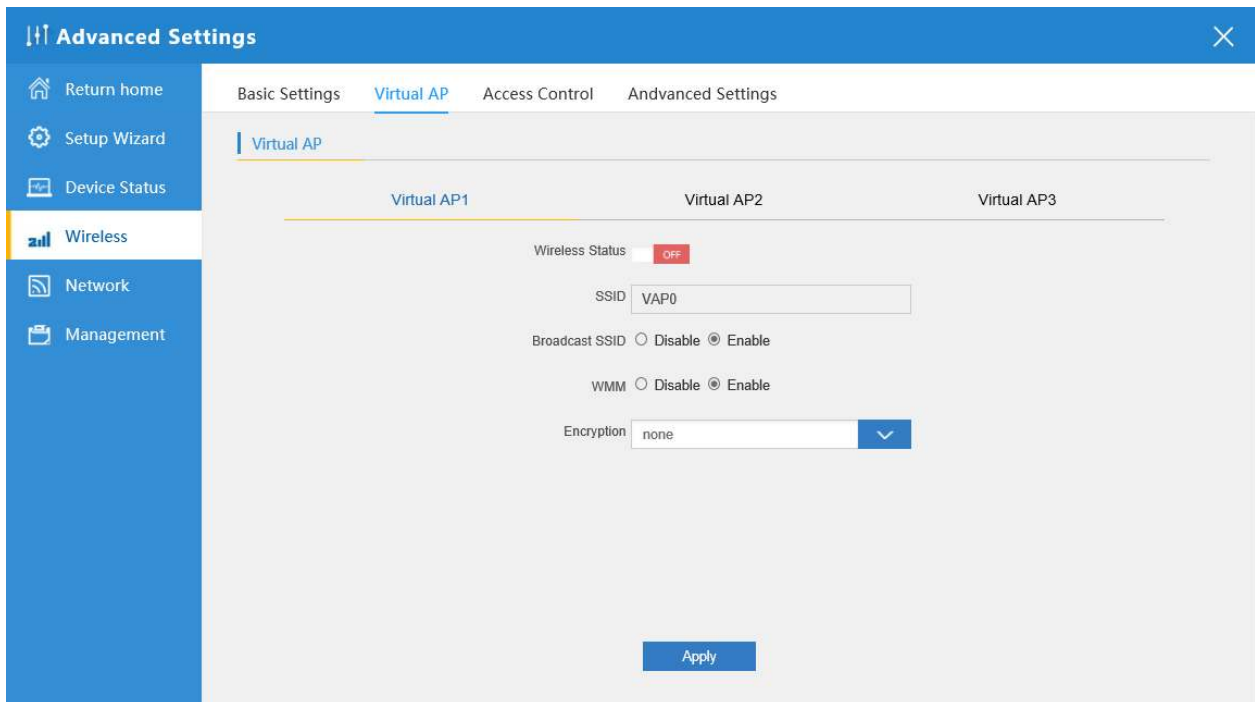
For wireless basic settings, mainly to configure the wireless SSID, password, band width ,encryption, channel, Multi SSID.



P39 Basic Setting in Wireless

4.3.3 Virtual AP:

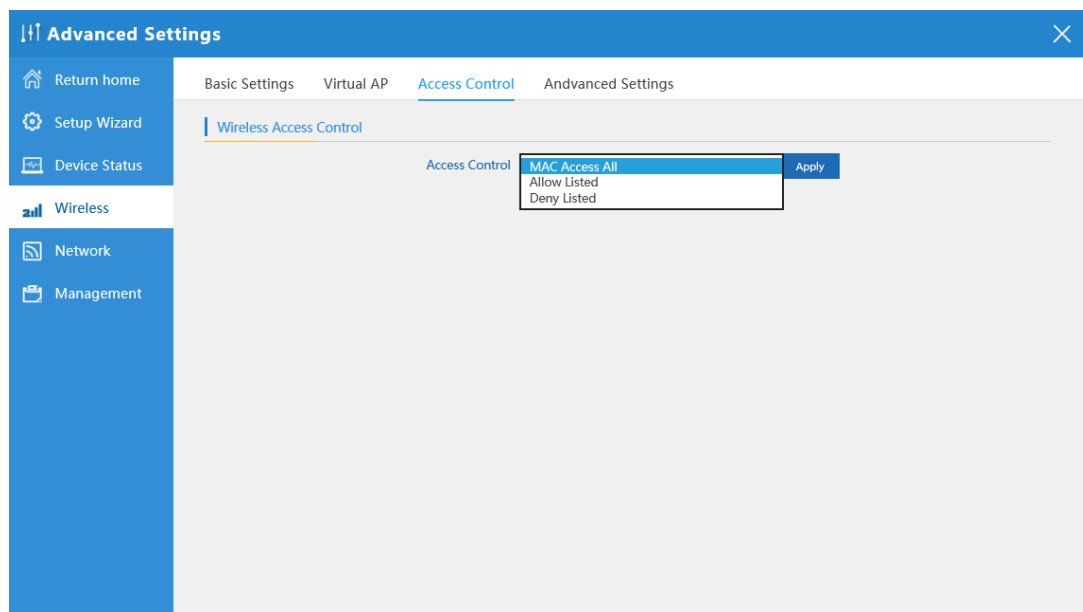
There are 3 virtual AP in 2.4G wireless, if need do multi SSID, then users can configure it showed in following picture:



P40 Virtual AP

4.3.4 Access Control:

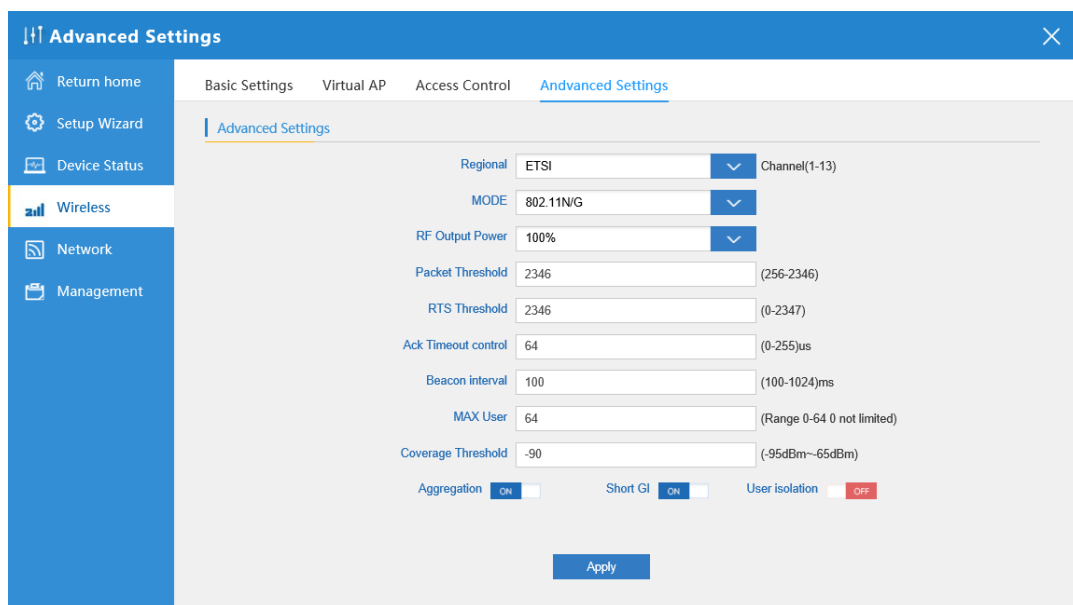
Allow or deny the users access into this wireless AP based on MAC address.



P41 MAC Access Control

4.3.5 Advanced Settings:

In this page, will show the regional, mode, RF Power, Max user access...



P42 Advanced Setting

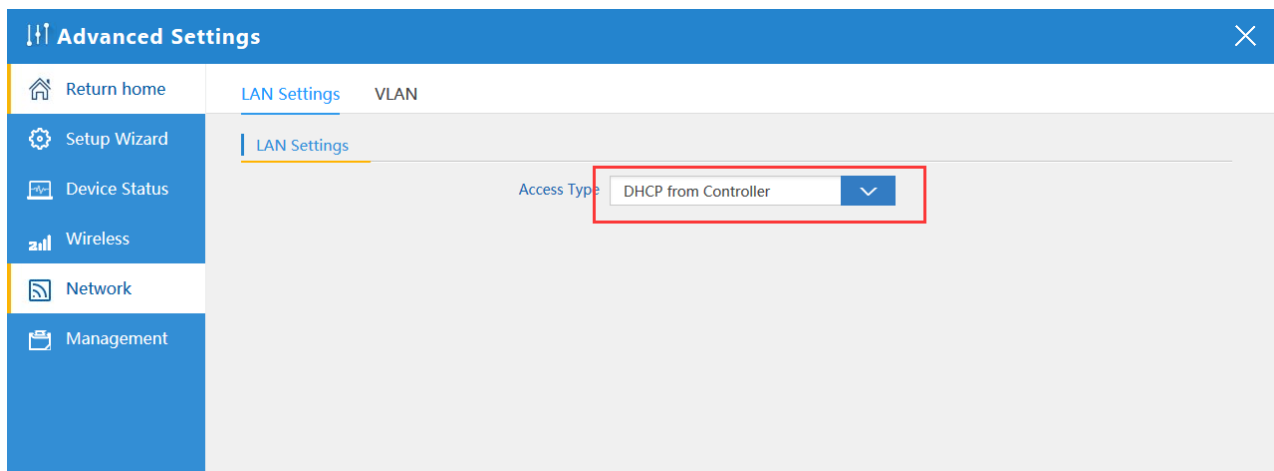
4.3.6 Network:

In network, mainly to show the LAN setting and tag VLAN as follow:

In LAN Settings, mainly including static IP and DHCP.

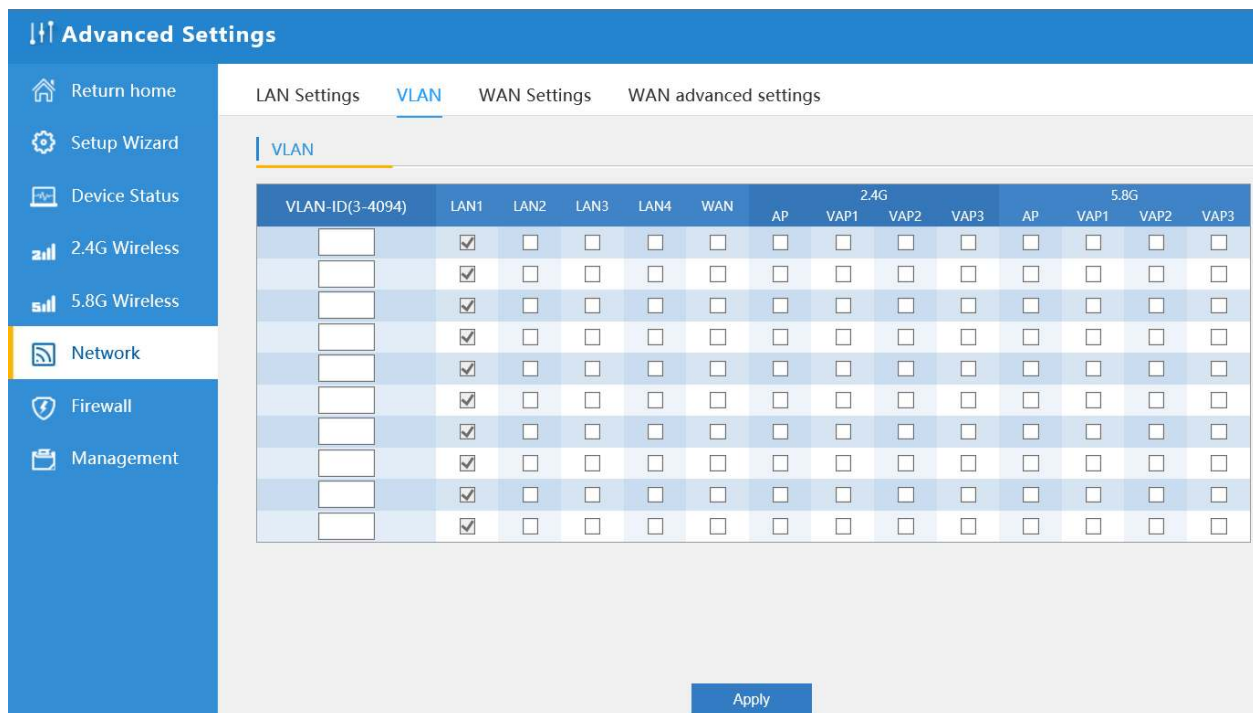
DHCP from controller means you are allowing controller to manage the IP of the AP and end users. That is to say only when DHCP from controller is chosen can the controller find and manage the AP.

Static IP means the AP has the right to manage its own IP address. When the IP segment of the AP is same as controller's, the AP can also be found and managed by controller.



P43 Network Setting

In VLAN part, need an VLAN switch and make sure the multi SSID is enable, then input the VLAN ID to different SSID.



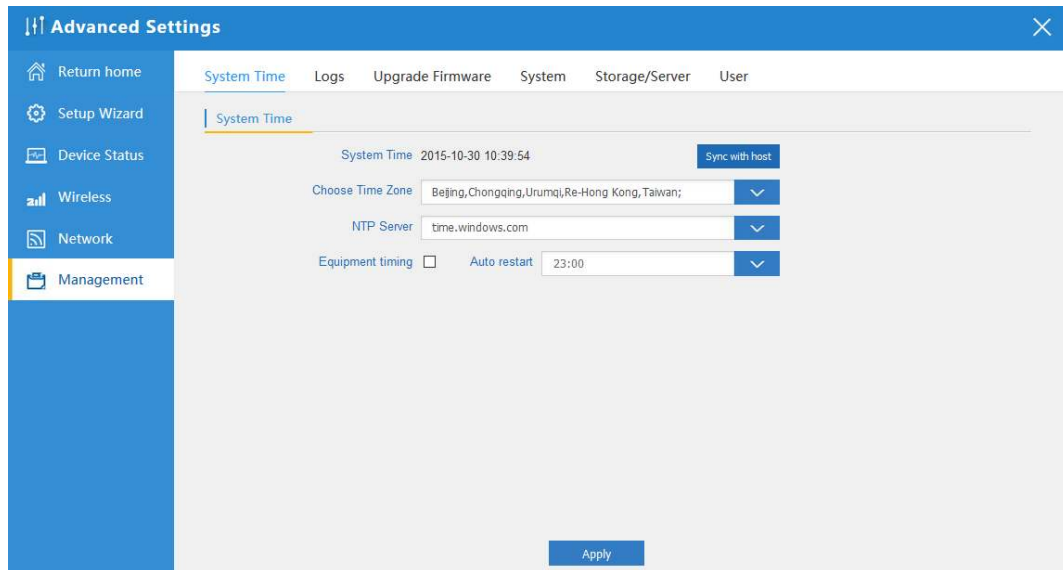
P44 Tag VLAN Setting

4.3.7 Management:

In this part, show the system time, Logs, upgrade firmware, system, user info.

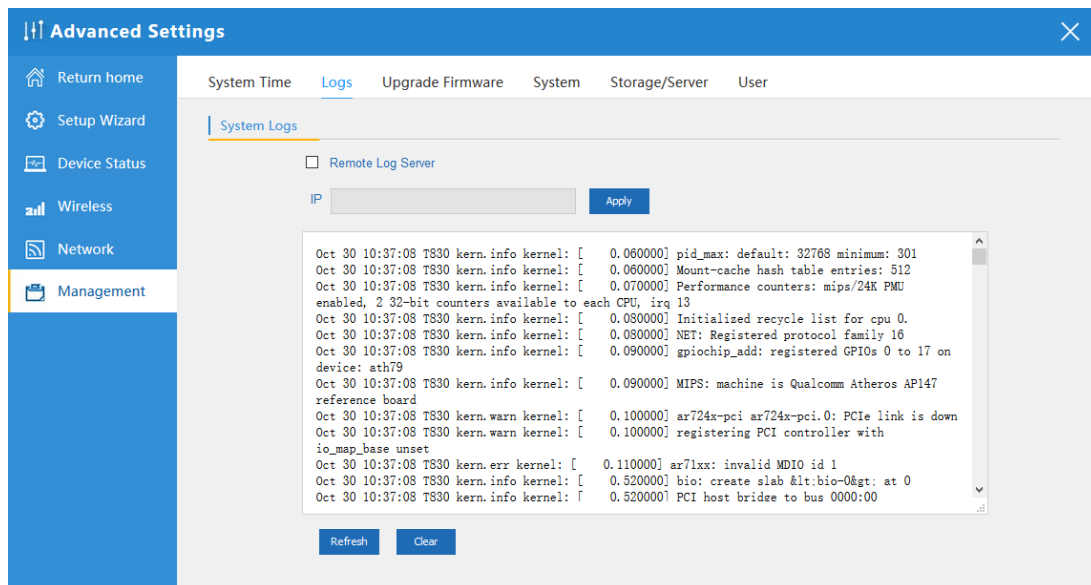
And we show System time, how to upgrade firmware and system page to users:

Get time from NTP server can only be available under Gateway and WISP Mode. Before sync with host, please select your Time zone.



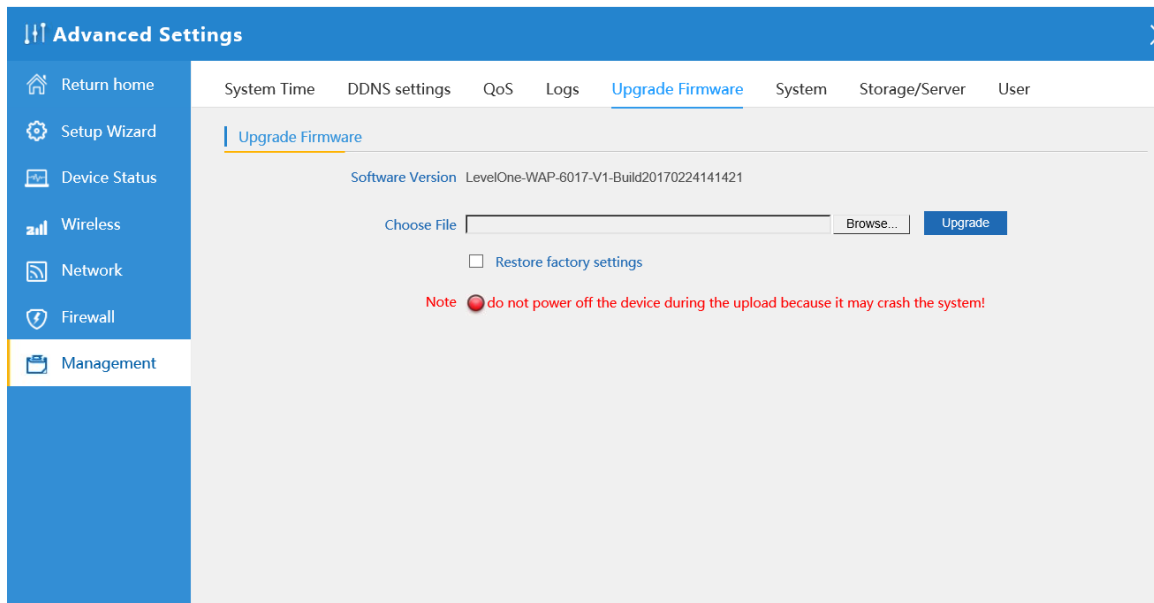
P45 System Time

In Logs part, you can copy the running history of the device to consult the engineers when you have any trouble.



P46 Logs

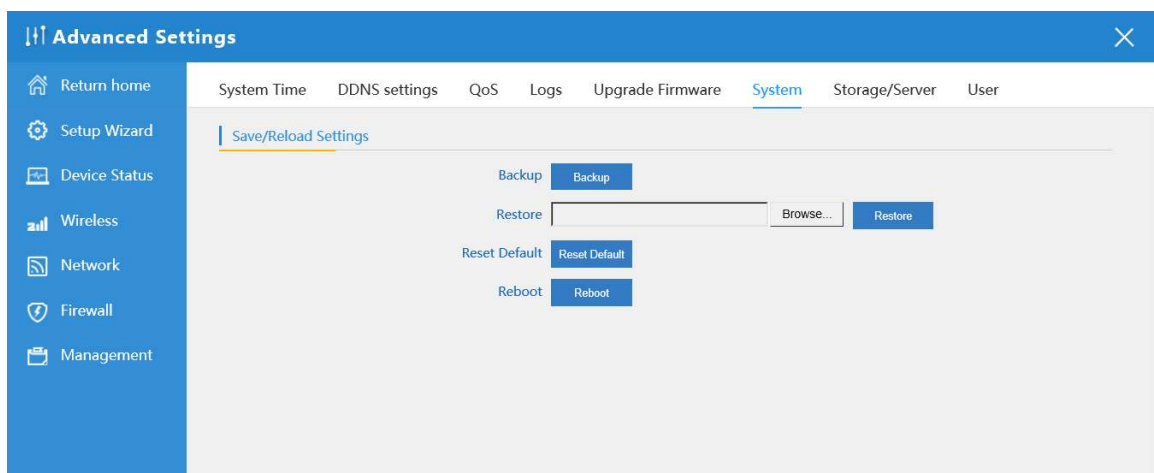
Upgrade Firmware allows you to browse the new firmware in your computer and upgrade. Please do not power off the device during upgrade.



P47 Firmware Upgrade

You are able to backup the current configuration to your PC and restore by applying the configuration file from your PC.

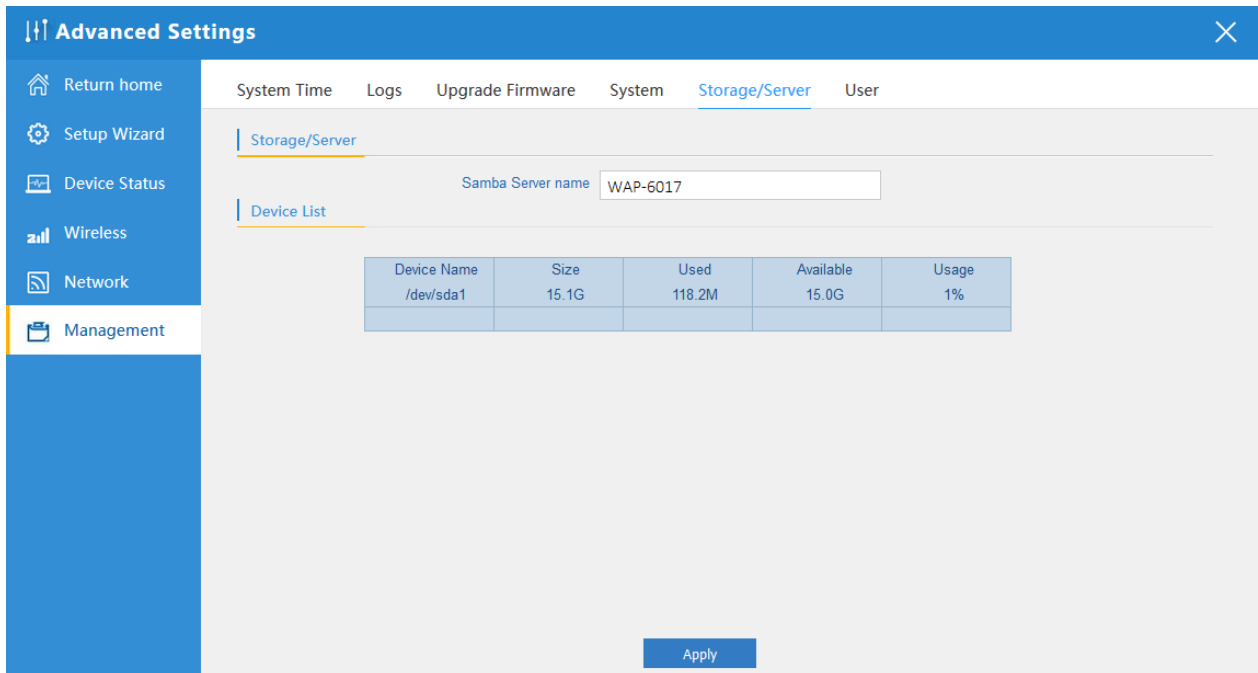
And you can Reset and Reboot the device with just one click.



P48 System info

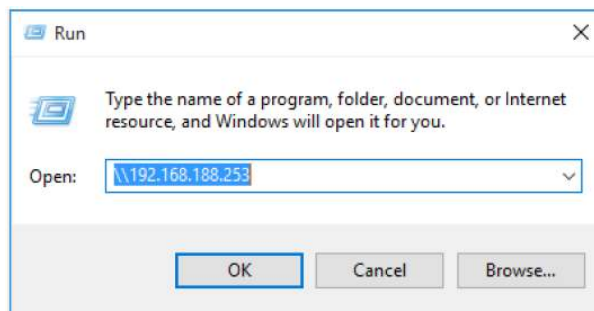
We can share the files in USB disk to public users through SAMBA server.

Storage/server functionality is available only in Gateway mode.



P49 SAMBA SERVER

The default IP address of SAMBA server is 192.168.188.253, input [\\192.168.188.253](#) in your PC to run and search it, picture showed as follow, click sure to confirm. Please make sure your computer has connected with the router.



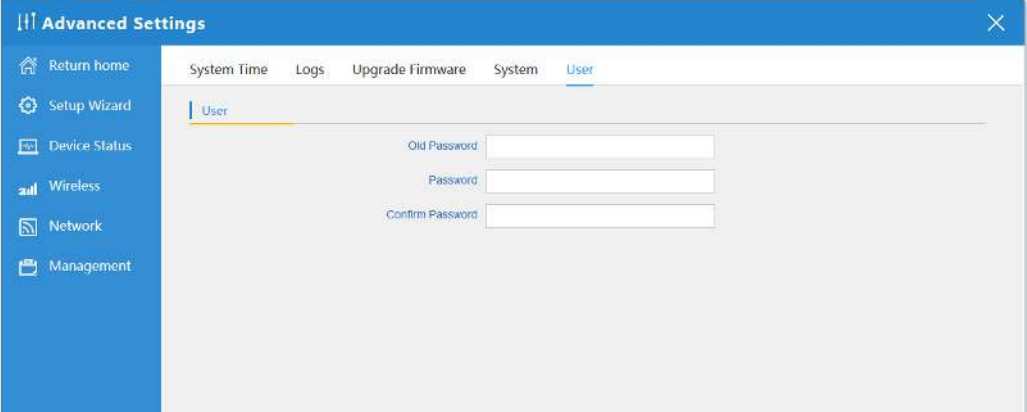
P50 RUN

following picture will be showed, and then the files completely shared in this network.



P51 Files

In user part, you can change the password for Log in



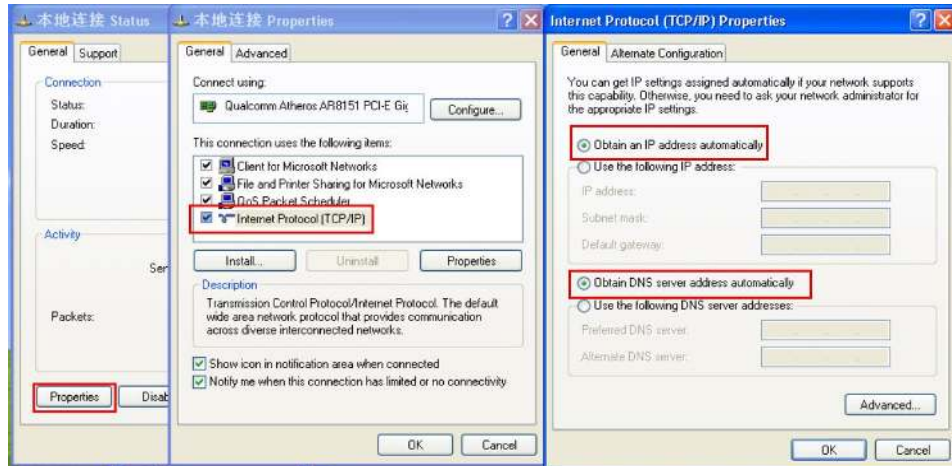
The screenshot shows a web interface titled "Advanced Settings" with a blue header and a sidebar on the left. The sidebar contains links: "Return home", "Setup Wizard", "Device Status", "Wireless", "Network", and "Management". The main content area has a tabbed interface with tabs for "System Time", "Logs", "Upgrade Firmware", "System", and "User". The "User" tab is selected and highlighted with a blue underline. Below the tabs, there is a section titled "User" with a yellow underline. This section contains three input fields: "Old Password", "Password", and "Confirm Password". Each field is a white rectangle with a light gray border and a small blue icon on the right side.

P52 User Information

Chapter 5 Share Internet and Obtain IP address automatically

Set computer's TCP/IP as [Obtain an IP address automatically](#), [Obtain DNS server address automatically](#) as following picture showed.

the computer will obtain the IP address from router or base station to get Internet.



Chapter 6 Trouble Shooting

F 1 The Failure phenomenon and solution

Failure phenomenon	Solution
SYS Indicator off	Pls make sure you are using the right adapter according to the instruction on product label
Can't land to Wireless AP through Web page	Pls check the IP address of computer and Wireless AP to see whether they are in same networking segment, The method is click "start"- "Run" input "cmd", ping 192.168.188.253 to test the Wireless AP connectivity. Reset Wireless AP and load it again; Pls make sure the IP address 192.168.188.253 is not occupied by other device in Wireless AP's networking; Check computer and cable problem, recommend to use 10/100M UTP unshielded cable; Clean up Arp binding from "Start"- "Run" input "cmd" arp -d Clean the IE Brower's temporary files and Cache file.
Wireless AP can't connect with AP (the status display unconnected)	Try to scan the available wireless networking again; Make sure the Wireless AP's wireless standard is correct; (2.4Ghz signal should connect 2.4Ghz.) The Security and passwords are matched between Wireless AP and AP; The signal strength of AP is too weak to connect, should be more than -75dBm;
Can't scan the wireless AP	Scan it several times more; If using 5Ghz to scan, please make sure there are 5G signal existed. Reset the Wireless AP, scan it again after Wireless AP restart;
The connection of Wireless AP and AP is success, but the computer can't share internet	Pls Check the computer's IP address and DNS setting. If it is dynamain, set the network card as automatically obtain. If it is static IP, pls contact with ISP for correct IP address and DNS address.
How to Reset Wireless AP	Press the "Reset" button more than 15 seconds after power on. The Wireless AP will restore factory default after the Wireless AP restart.

Appendix A LICENSE STATEMENT / GPL CODE STATEMENT

This product resp. the here

(<http://global.level1.com/downloads.php?action=init>) for

downloading offered software includes software code developed by third parties, including software code subject to the GNU General Public License Version 2 (“GPLv2”) and GNU Lesser General Public License 2.1 („LGPLv2.1“).

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44319 Dortmund

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Fax: [+49 231 9075 - 184](tel:+492319075184)

Email: support@level1.com

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