NWA300

User Manual of NWA300 802.11ac Ceiling AP

This is the user manual of the NWA300, 11ac 1200Mbps Ceiling AP, which will approximate guide you to set and apply the AP, it provides a convenient graphical interface for network construction and maintenance person, as well as a user guide for simple and accurate operation, and configuration management of the wireless access point.

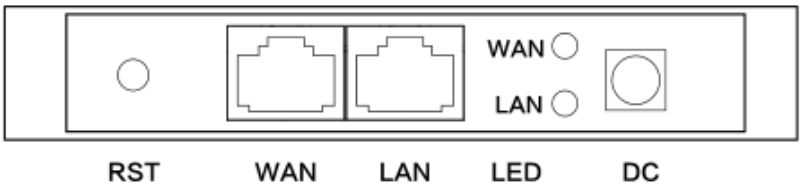
Contents

1 Hardware and Operation Mode Instruction

1.1 LED indicator

Green: Power Indicator
Blue: WiFi Indicator

1.2 AP Interface



RST: Reset Button, it make AP revert to default data after press it 15 seconds.
WAN: Gigabit WAN Port, connect with ADSL modem or Internet mainly. It will be LAN port under Wireless AP and WiFi Repeater operation mode
LAN: Gigabit LAN Port to end users
LED: LED Indicator of WAN port and LAN port
DC: DC power connector

1.3 Power Supply

1.3.1 PoE Adapter Power Supply

The connection diagram showed as P1, internet cable connect to PoE adapter's LAN Port, Ceiling AP's WAN port connect to PoE adapter's PoE Port, then PC will access into ceiling AP through cable or wireless
Please note, if the PD Wireless AP support 24V passive PoE, then the PoE adapter should be 24V Passive PoE,.
If the PD wireless AP support 48V IEEE 802.3af standard PoE, the PoE adapter should be 48V PoE standard.

P1

1.3.2 Powered by PoE Switch

The connection diagram shows as P2, Internet cable from PoE Switch to Ceiling AP's WAN Port, then PC access into ceiling AP wired/wireless.

Please note, if the PD Wireless AP support 24V passive PoE, then the PoE switch should be 24V Passive PoE,

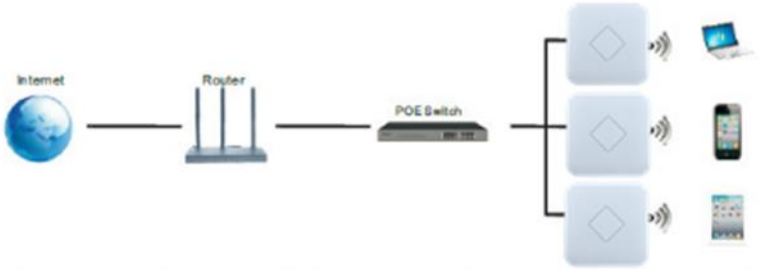
If the PD wireless AP support 48V IEEE 802.3af standard PoE, m the PoE switch should comply with 802.3af 48V PoE standard.

P2

1.4 Operation Mode

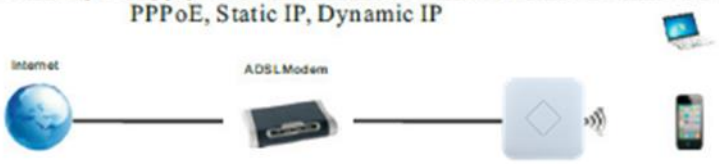
There are three operation modes on this wireless AP:

1. Wireless AP: Plug and Play to transmit Wireless signal for wireless end users from wired networking



2.Wireless Repeater: Wireless receive and transmit, to extend the existing wireless networking for more range.

3.Gateway: Supply WAN connection from DSL, Cable Modem or broadband mobile phone network through PPPoE, Static IP, Dynamic IP

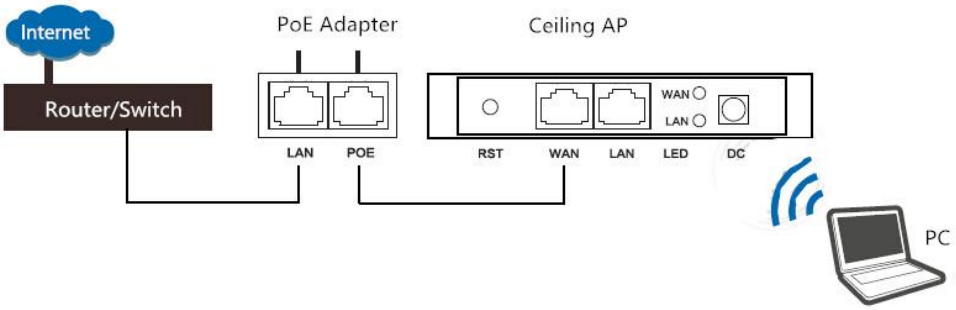


P3 Operation Mode

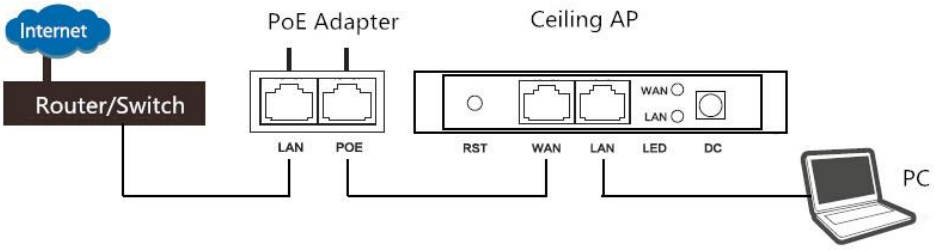
1.5 Connect Wireless AP with PC

You can connect the PC with the WAP through the Wireless SSID and LAN cable: The diagram of wireless connection is as follows:

Please note: the default SSID is WirelessAP2.4G/5.8G, SSID's password is 66666666



The diagram of LAN cable connection is as follows:

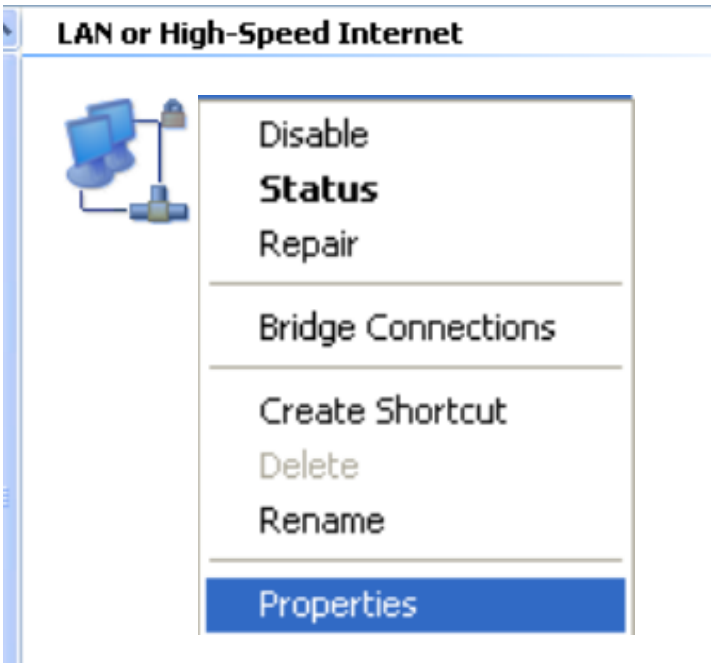


1.6 Login

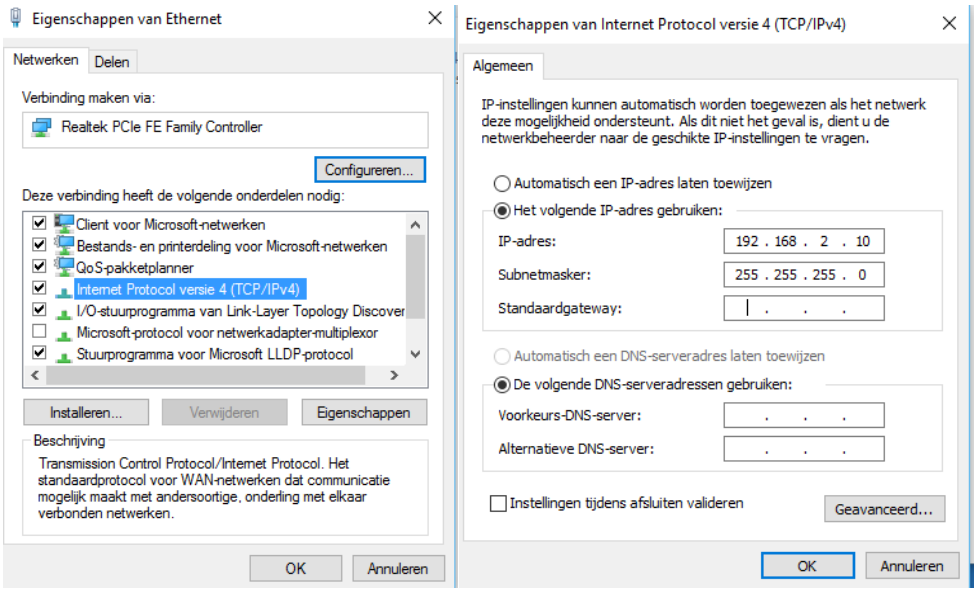
Default settings

Default IP: 192.168.2.200
User: admin
Password: admin

1. Connect the Ceiling AP with computer
2. Configure the PC's local connection IP address as 192.168.2.X (X is number from 2 to 254), subnet mask is 255.255.255.0, follow P4 and P5 to finish.



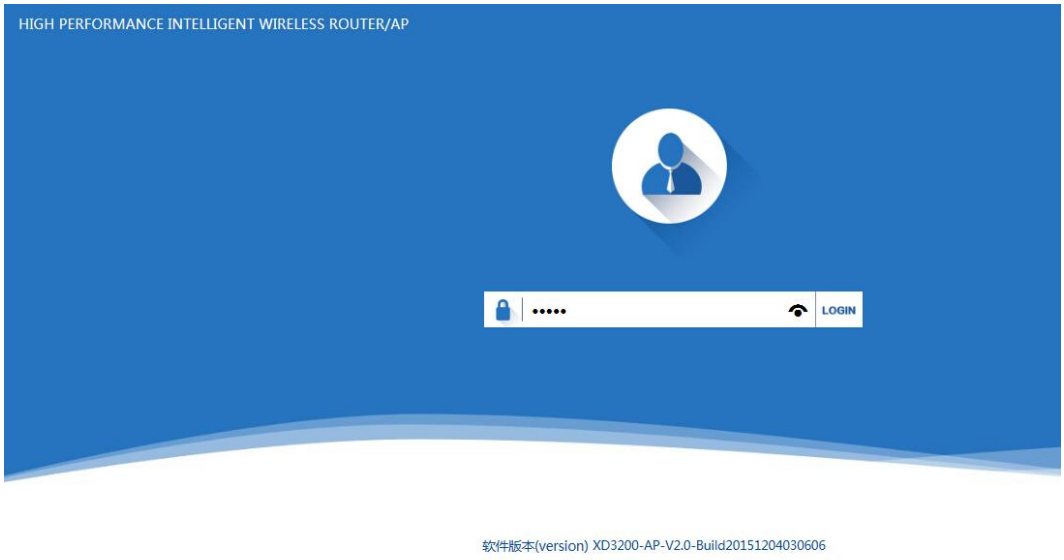
P4 Setting of computer's IP address



P 5 Settings of computer's IP address

3. Input 192.168.2.200 into browser, then pop up the login page

Default login user name: Admin, Passwords: admin, (P6)



P6 Login

2 WEB GUI interface Setting:

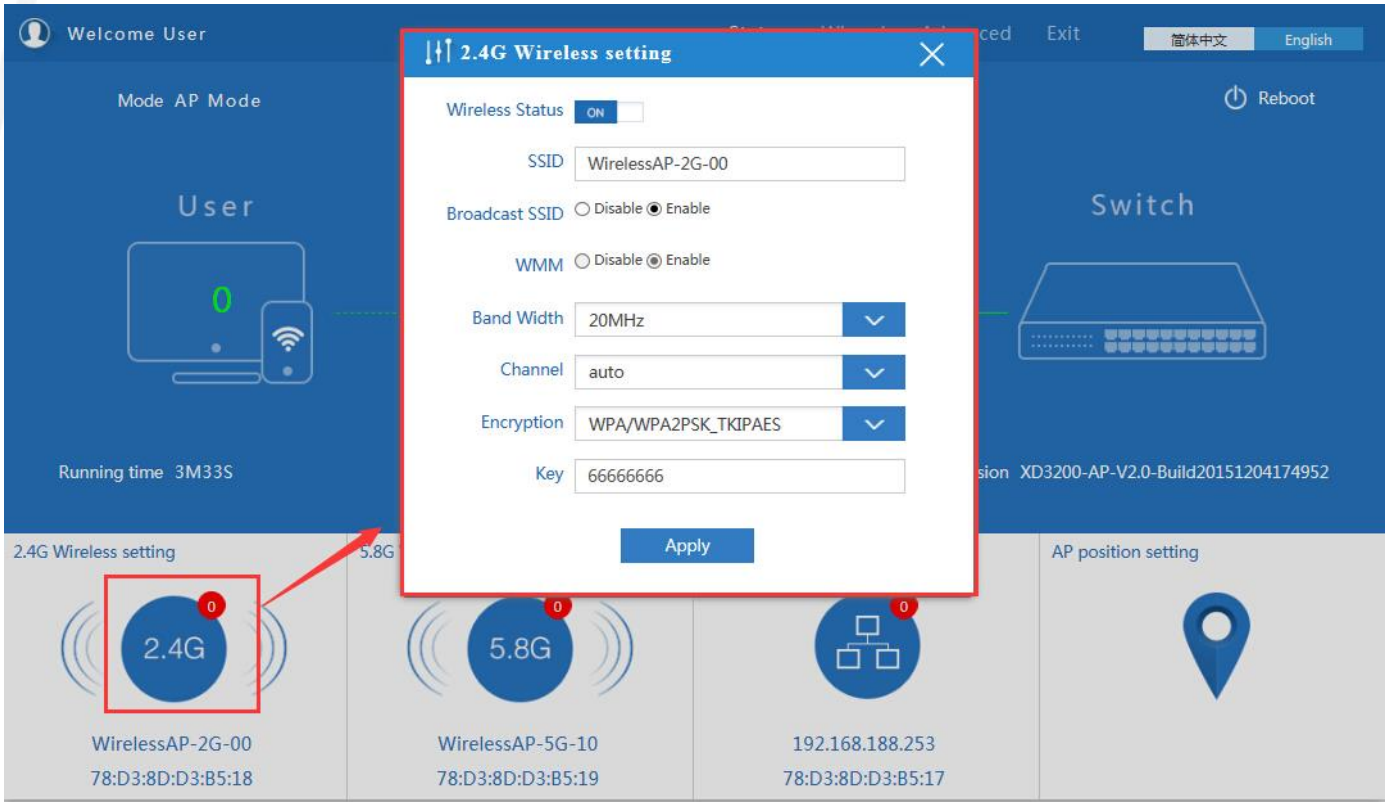
2.1 Status

After login, the P7 Device Status will be shown:

P7: Device Status

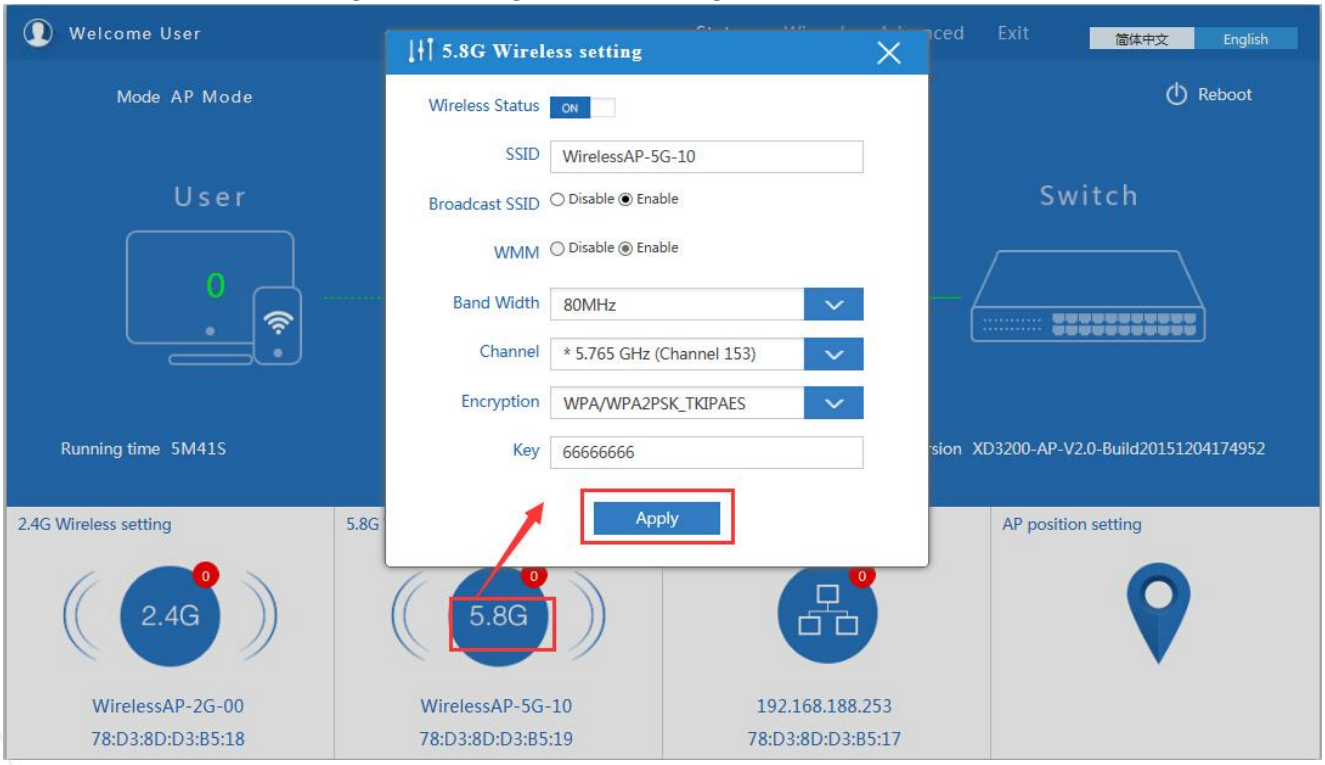
In this ceiling wireless AP, the default operation mode is AP mode.
Then in 2.4G Wireless Setting, GUI configuration page showed as below:

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



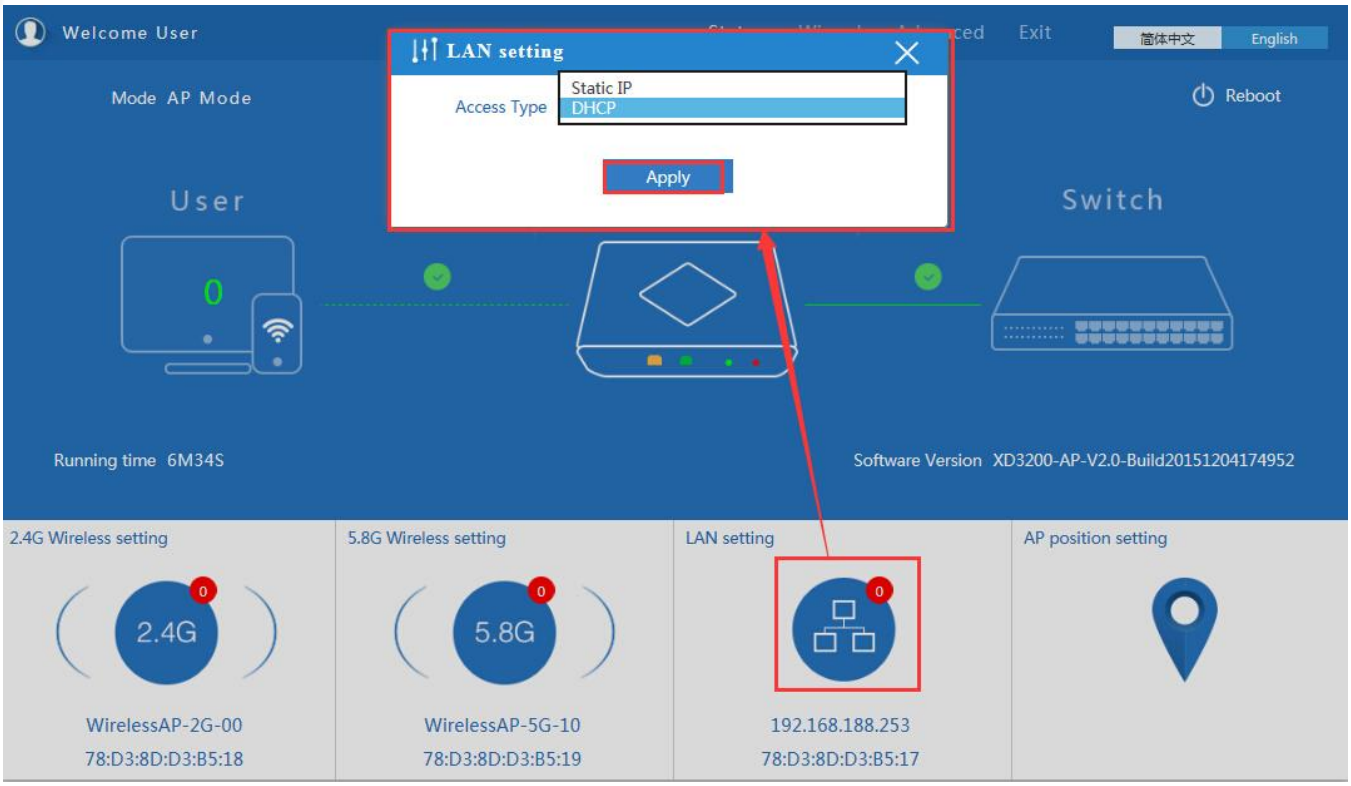
P8. 2.4G Wireless setting

5.8G Wireless Setting GUI configuration setting showed as P8:



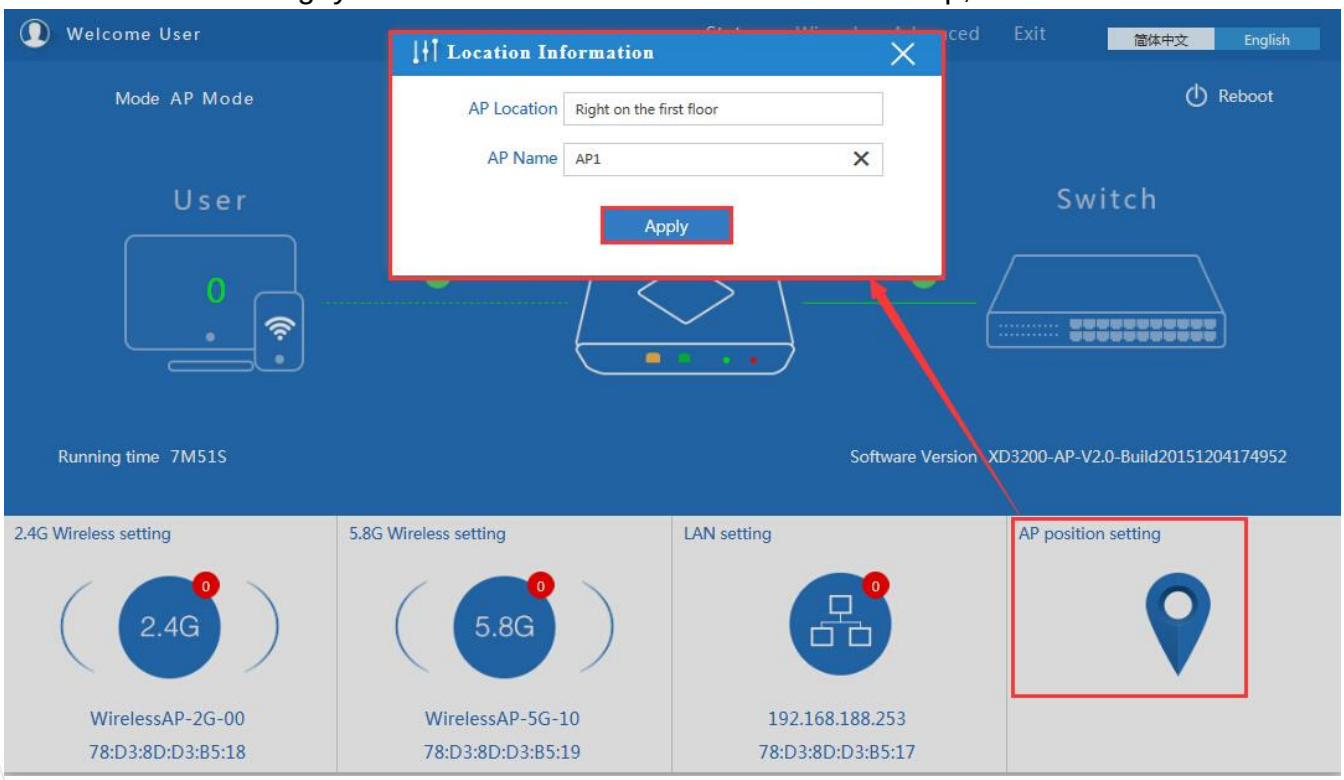
P9 5.8G Wireless Setting

LAN Setting to configure the DHCP or Fix IP



P10 LAN Setting

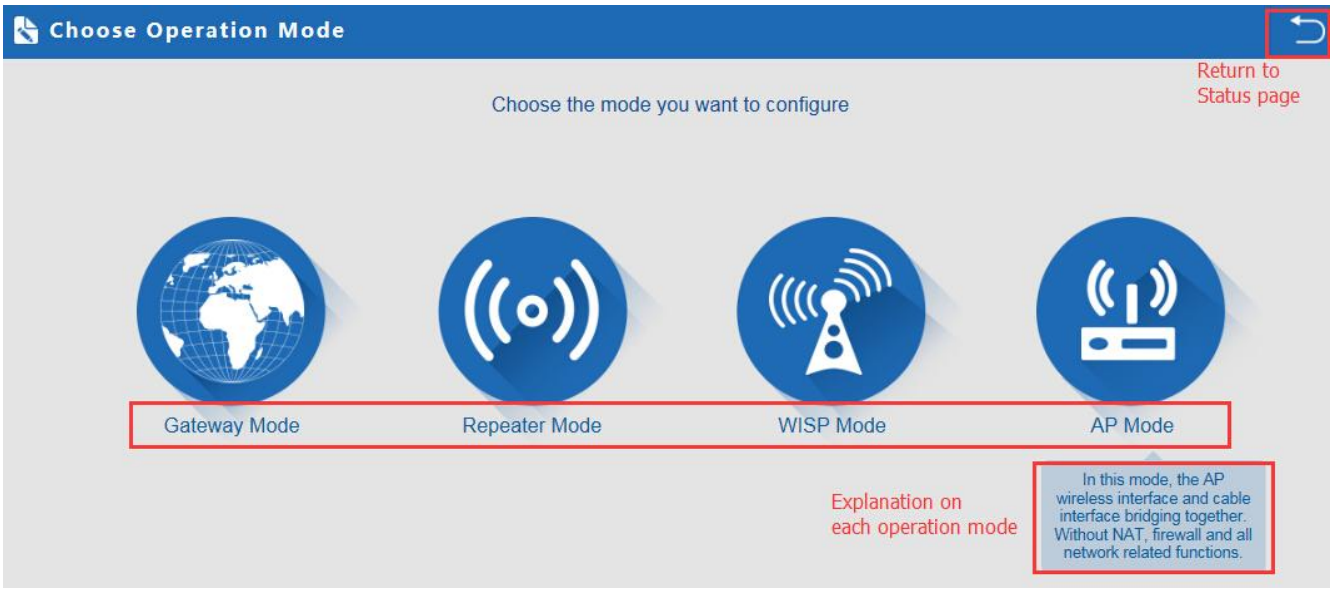
AP location setting: you can mark where the AP has been set up, and AP name as P11:



P11 AP Position setting

2.2 Wizard Configuration

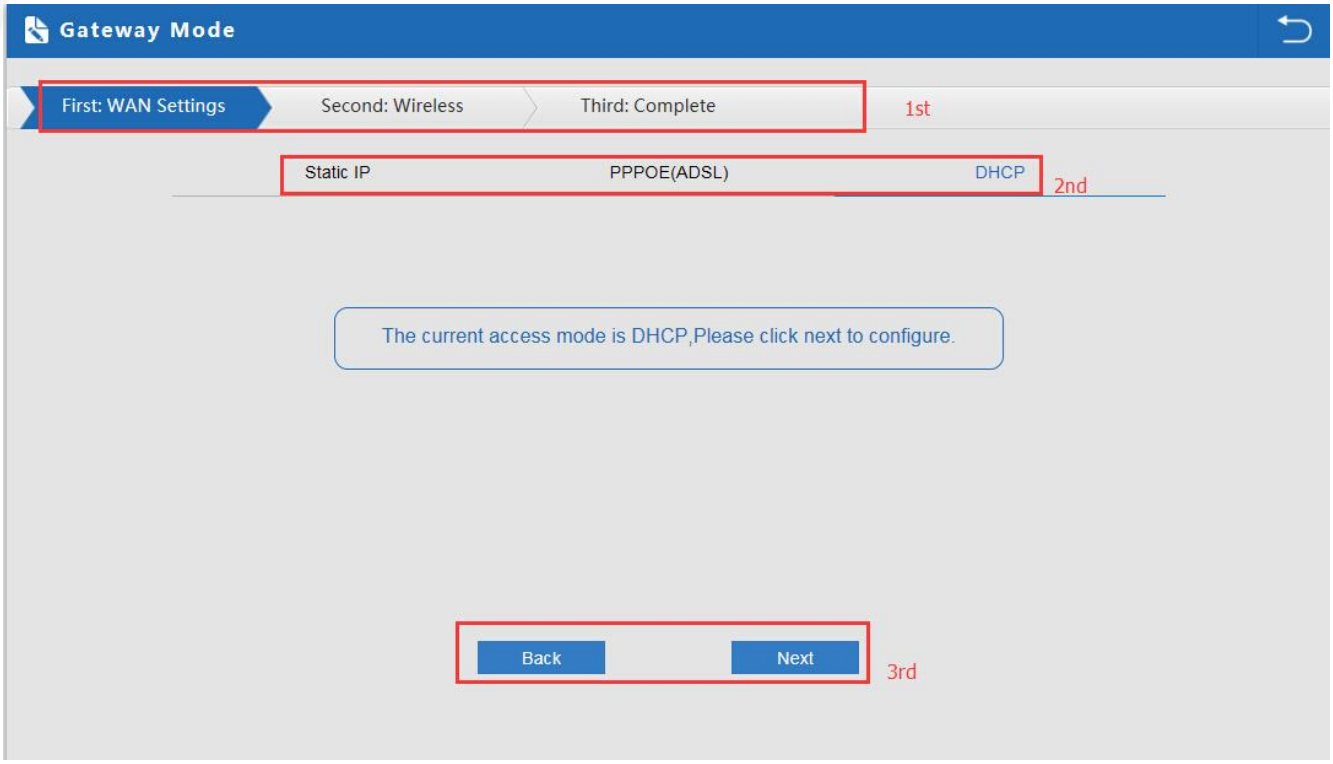
Click Wizard in Status page, will pop up following page to configure the operation mode:
There are four operation mode of this ceiling wireless AP, and there are explanation for each operation mode for better application.



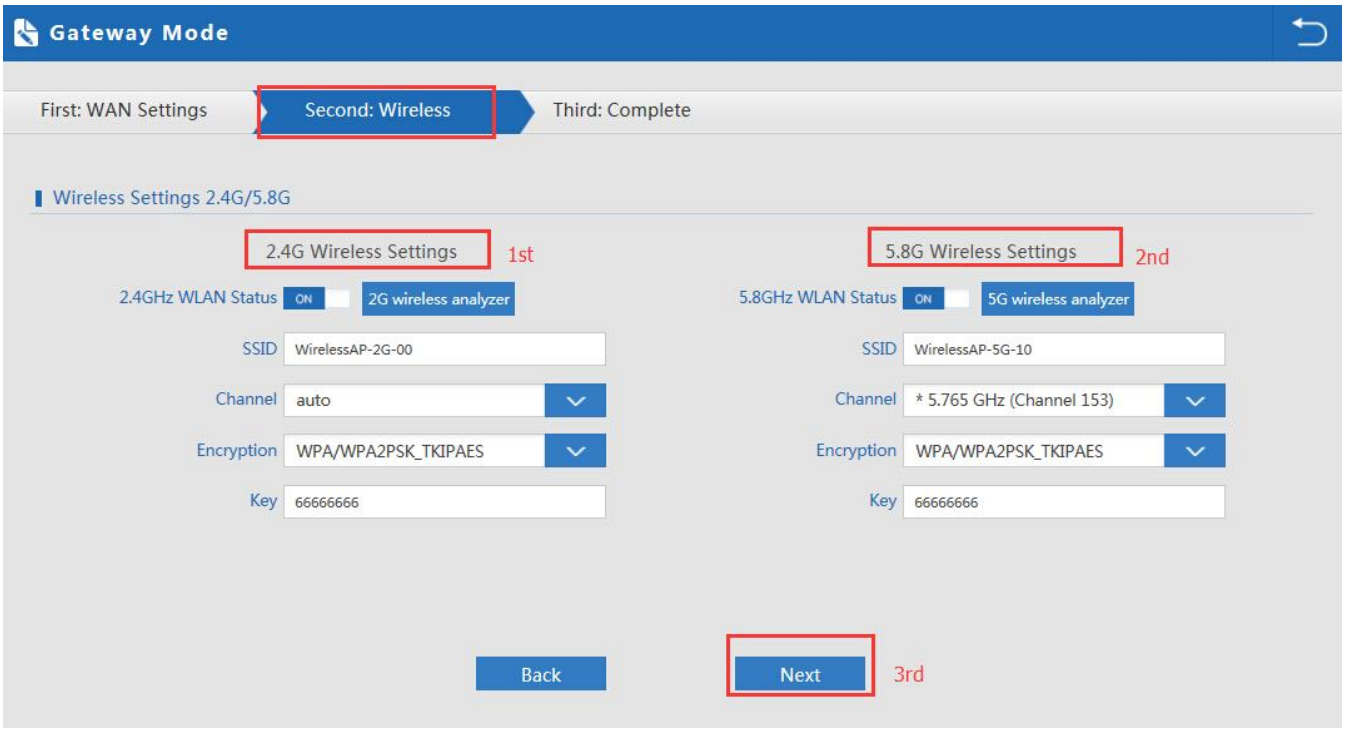
P12 Operation mode

2.2.1 Gateway Mode

Click Gateway mode, will pop up following pictures:
Please choose the right WAN setting mode, then click next to continue.

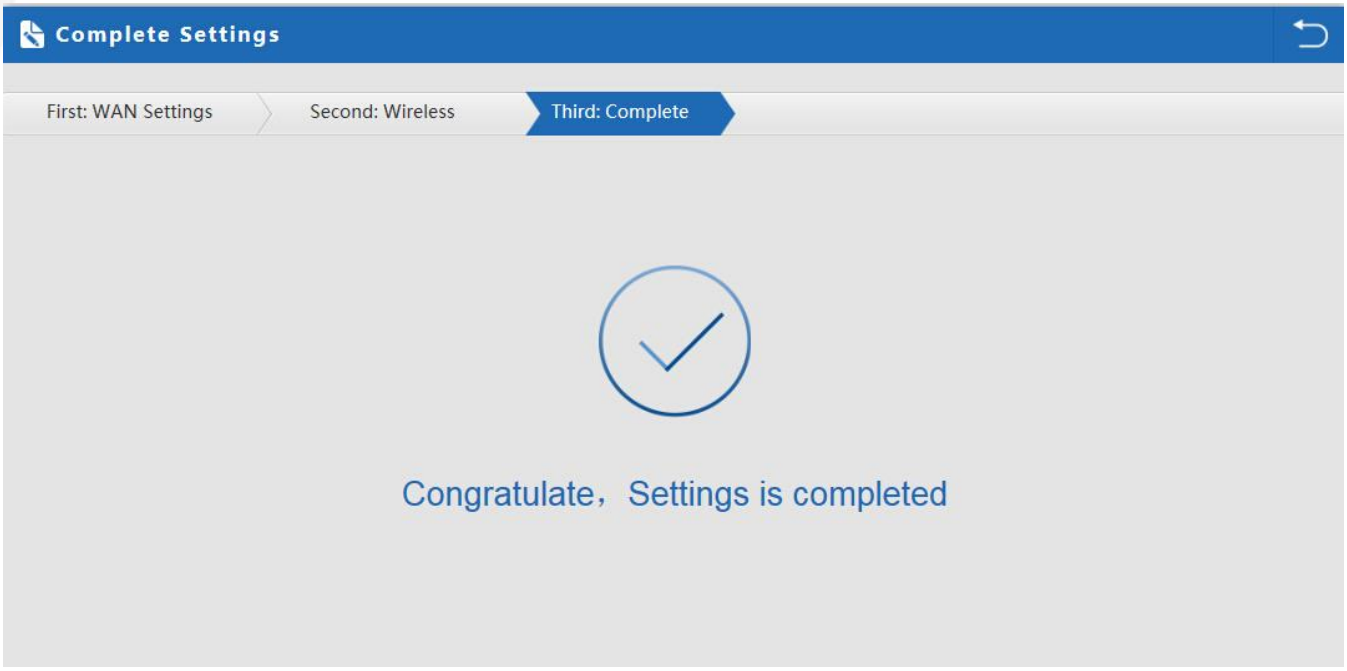


P13. WAN setting in Gateway Mode



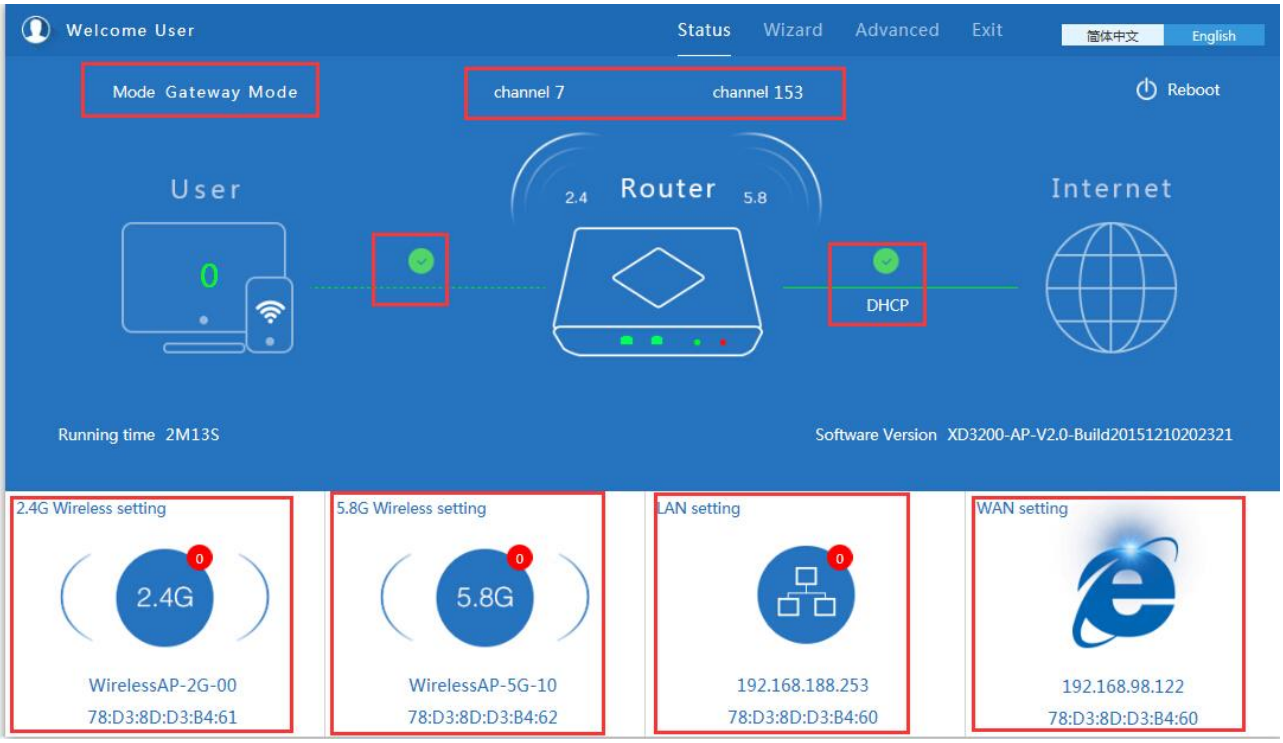
P14 Wireless Setting in Gateway Mode

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



P15 Complete the setting in Gateway Mode

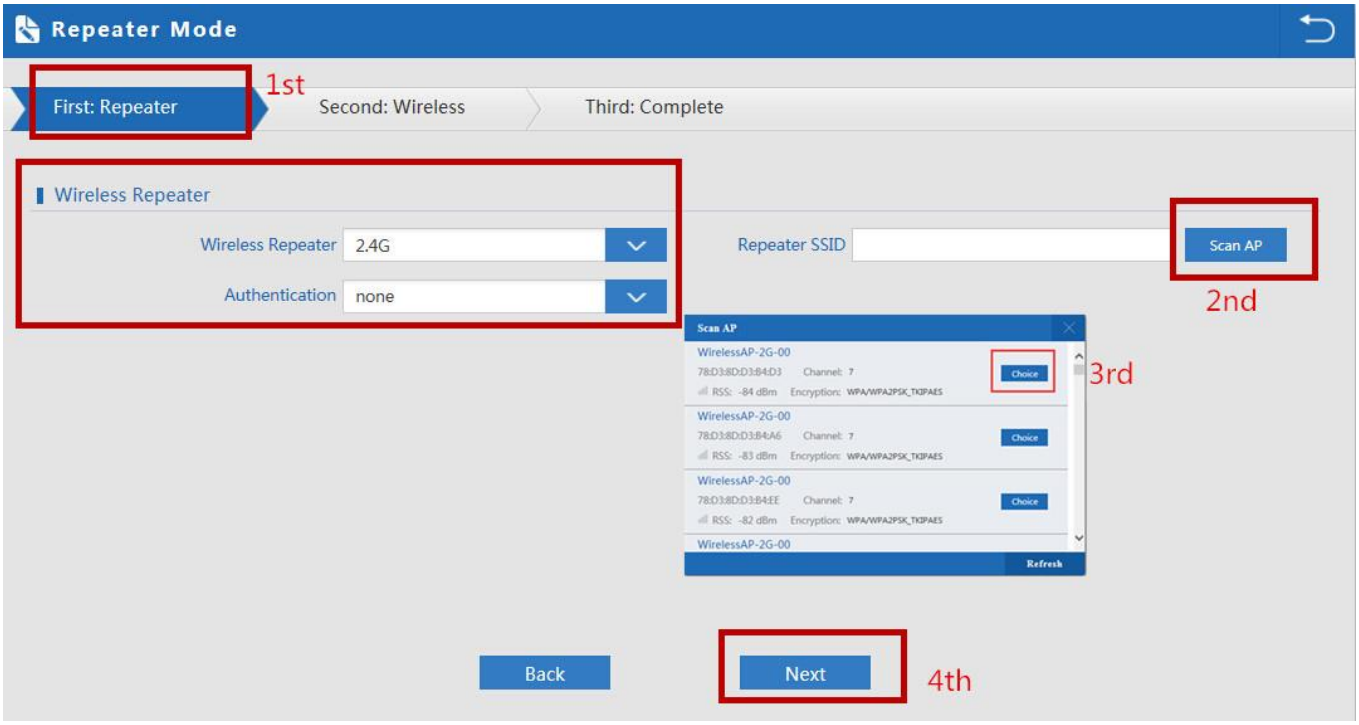
When return to Status, the page showed as follow:



P16 Status in Gateway Mode

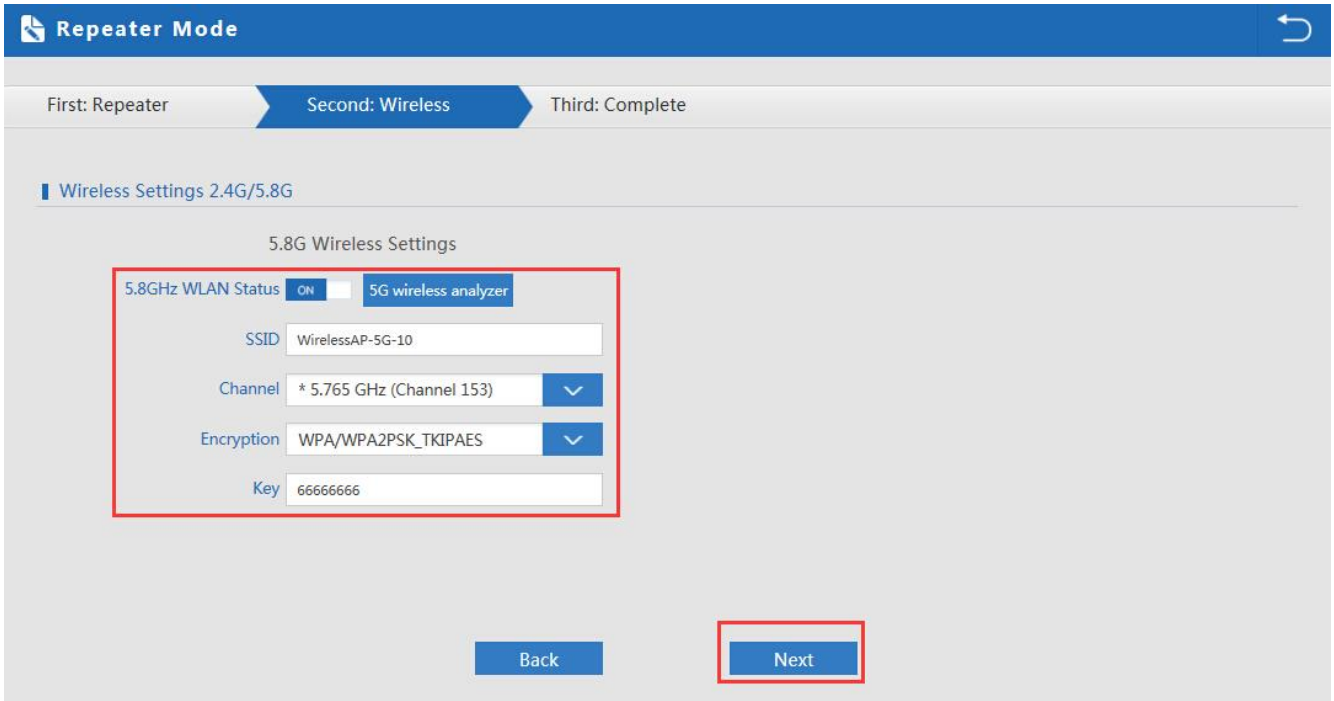
2.2.2 WiFi Repeater mode

Click WiFi Repeater operation mode in Wizard, then following page will pop up, and choose the right SSID to bridge, then next.



P17 Repeater Mode

After click Next button, then should configure the wireless settig as follow, then click Next to finish:

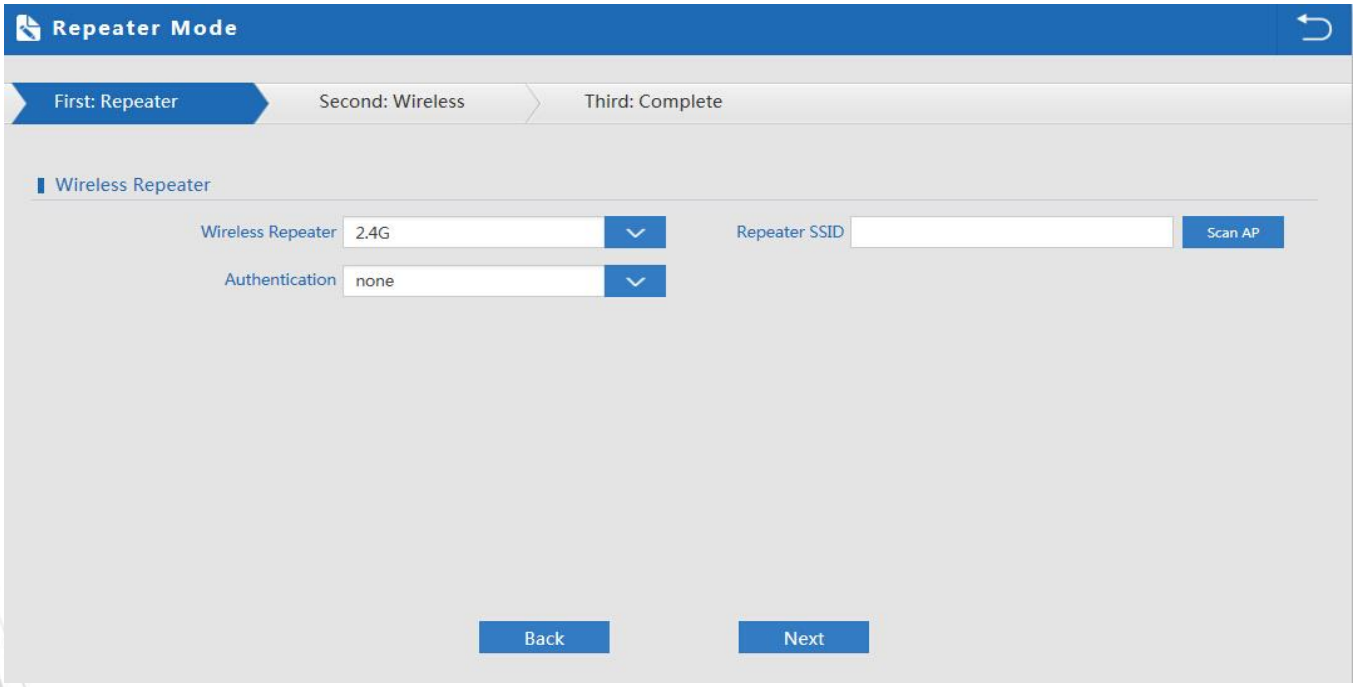


P18 Wireless Setting in Repeater Mode

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.

P19 Status in Repeater Mode

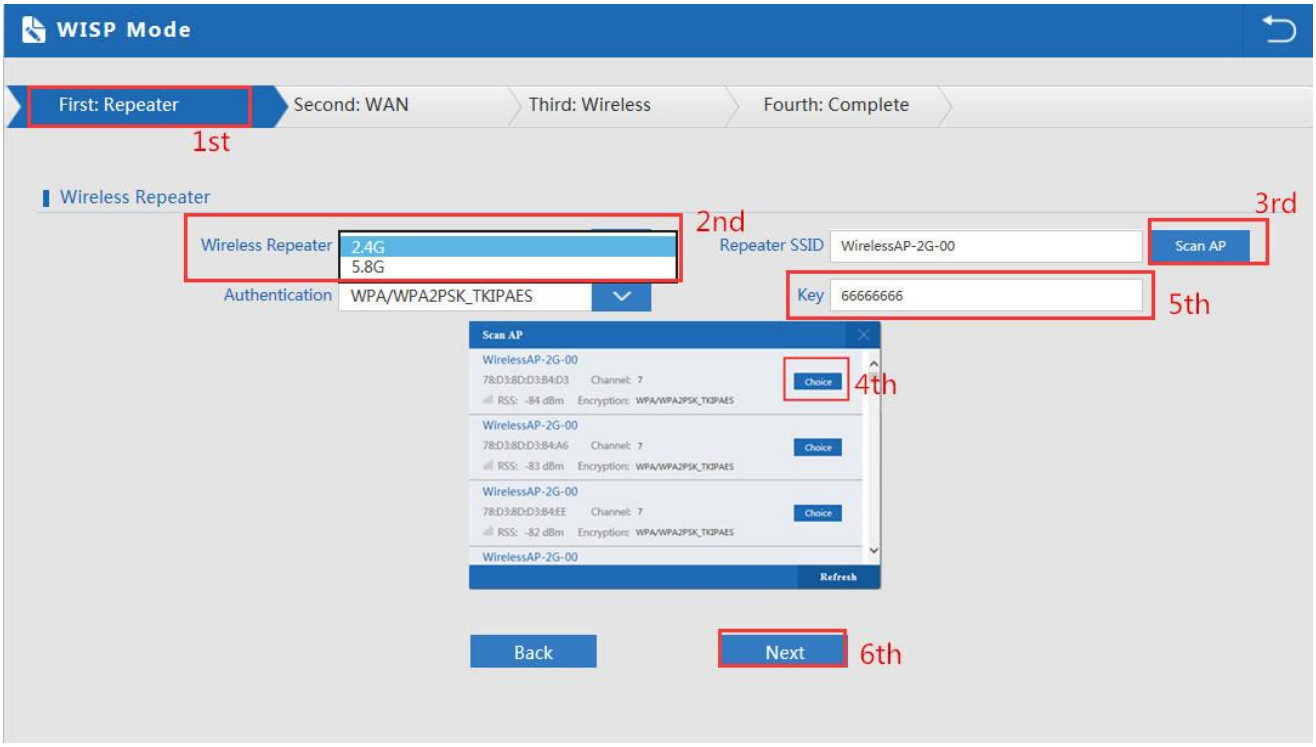
Please note, when click wireless relay setting, following page will pop up, you can make change from here easy:



P20 Wireless Relay Setting

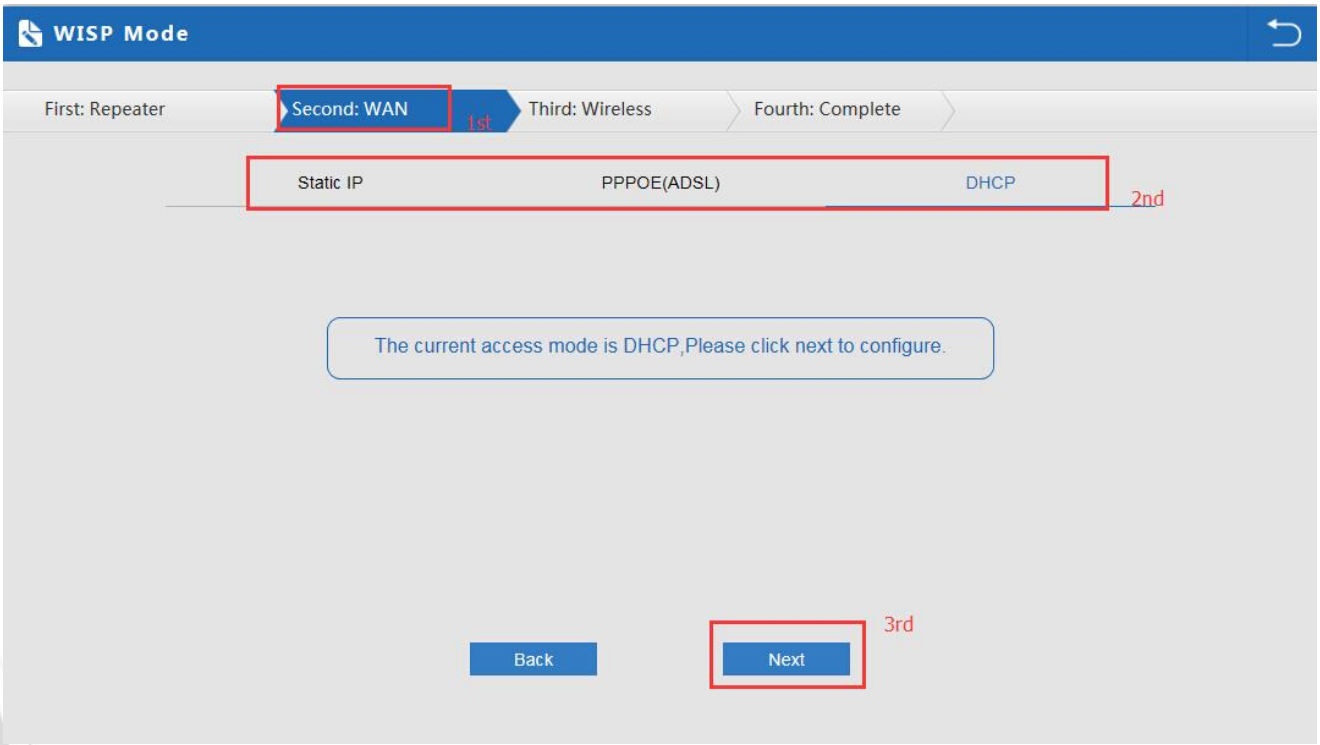
2.2.3 WISP Operation mode

Click WISP operation mode in Wizard, then will pop up the configure page, Please set the WISP operation mode



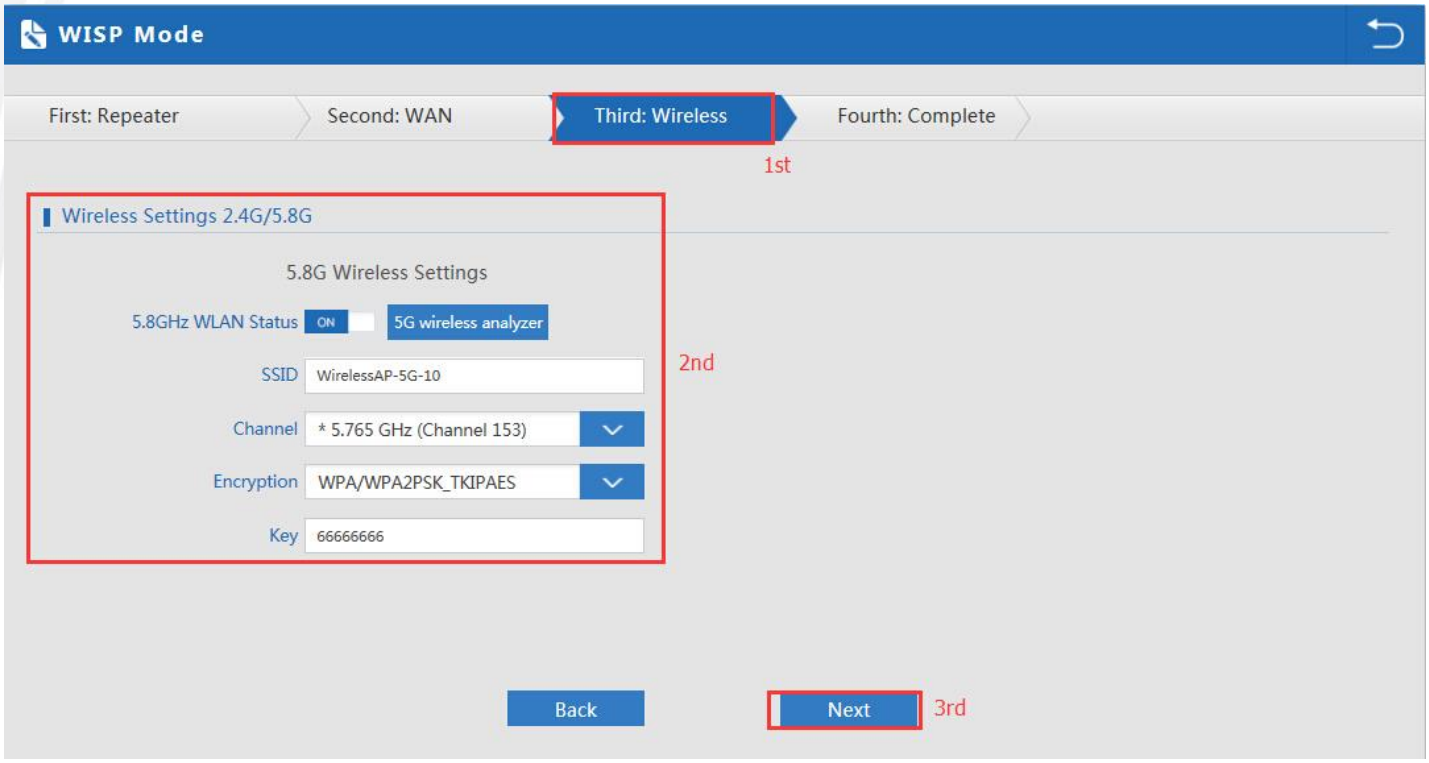
P21 WISP Mode

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



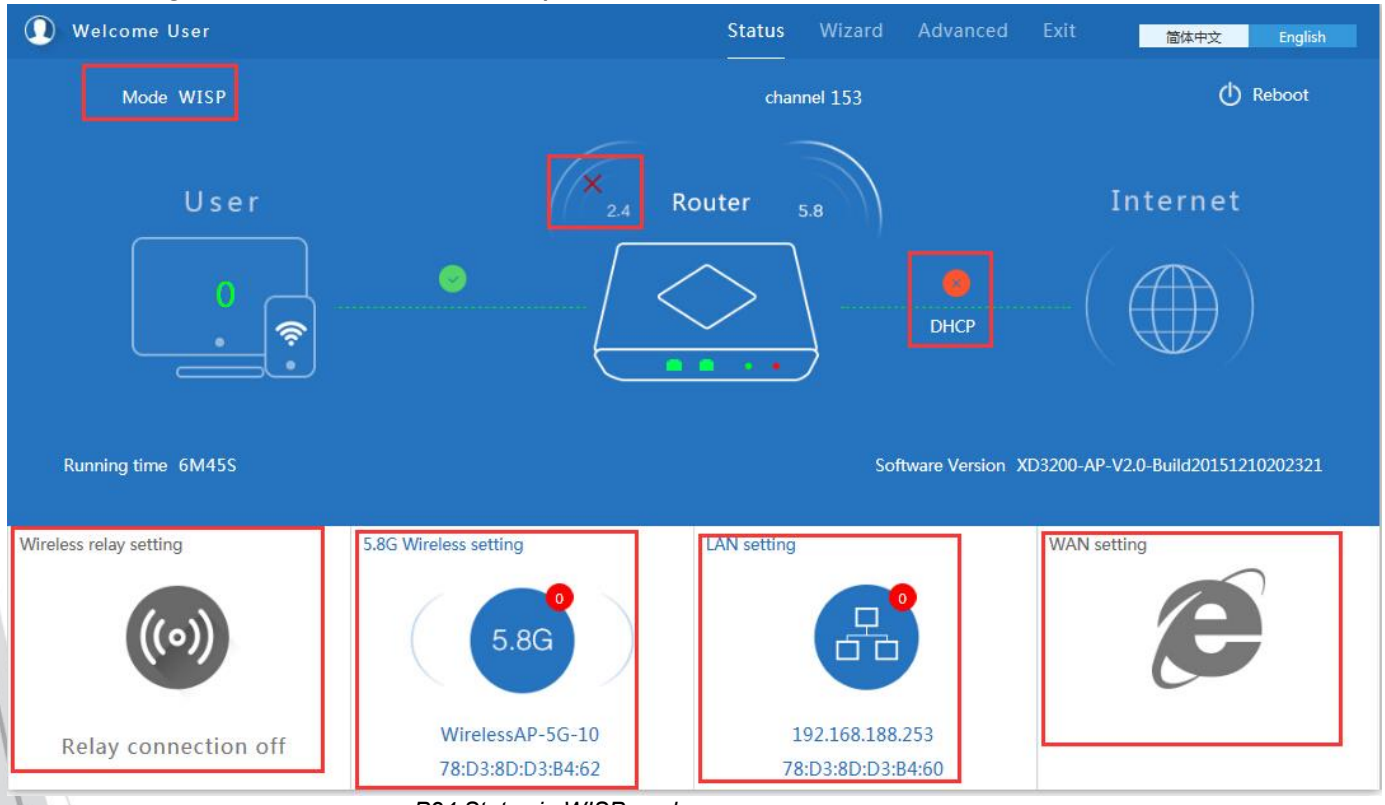
P22 WAN setting in WISP mode

Configure wireless data showed as follow:



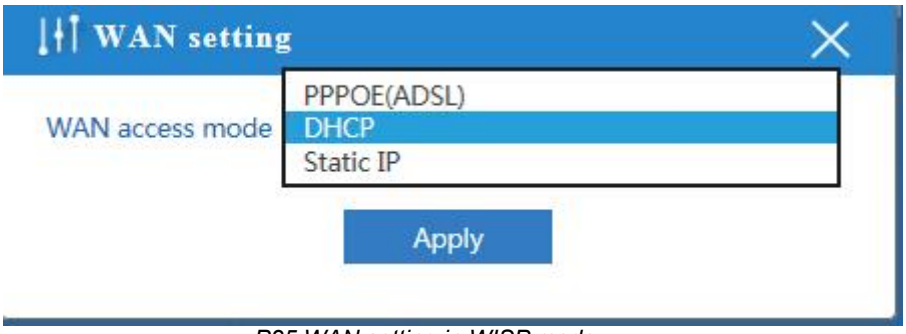
P23 Wireless Setting in WISP mode

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



P24 Status in WISP mode

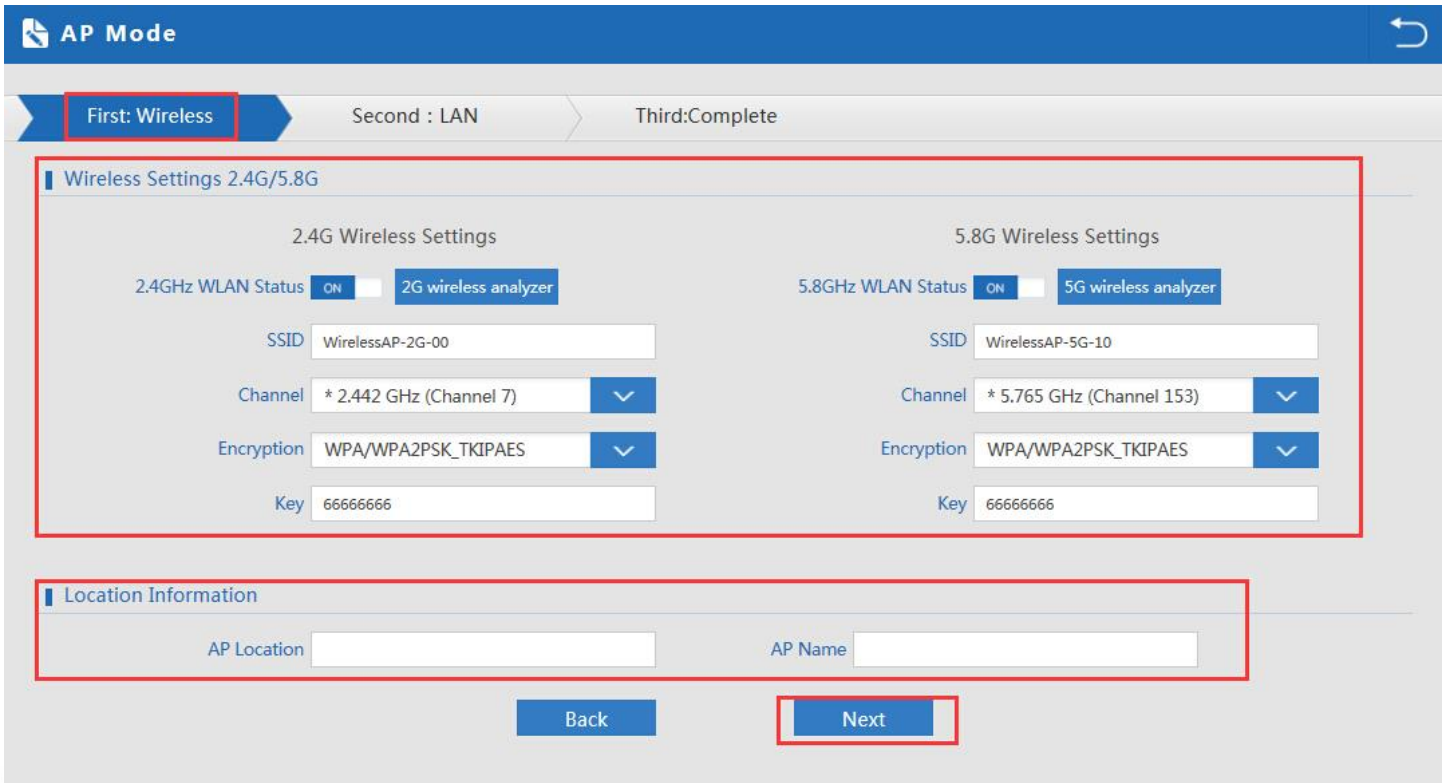
Remark: When click WAN Setting, will pop up following picture:



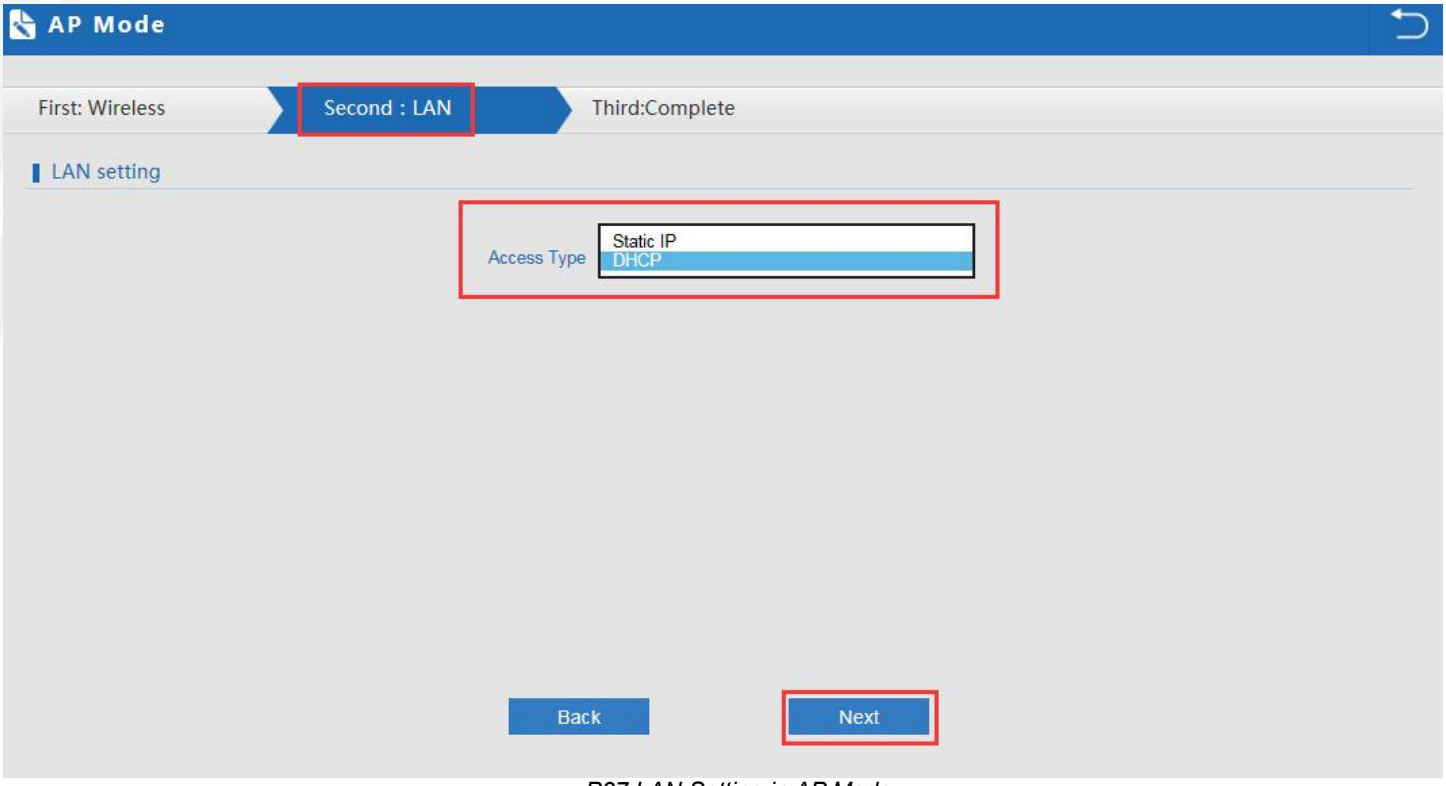
P25 WAN setting in WISP mode

2.2.4 AP Operation mode

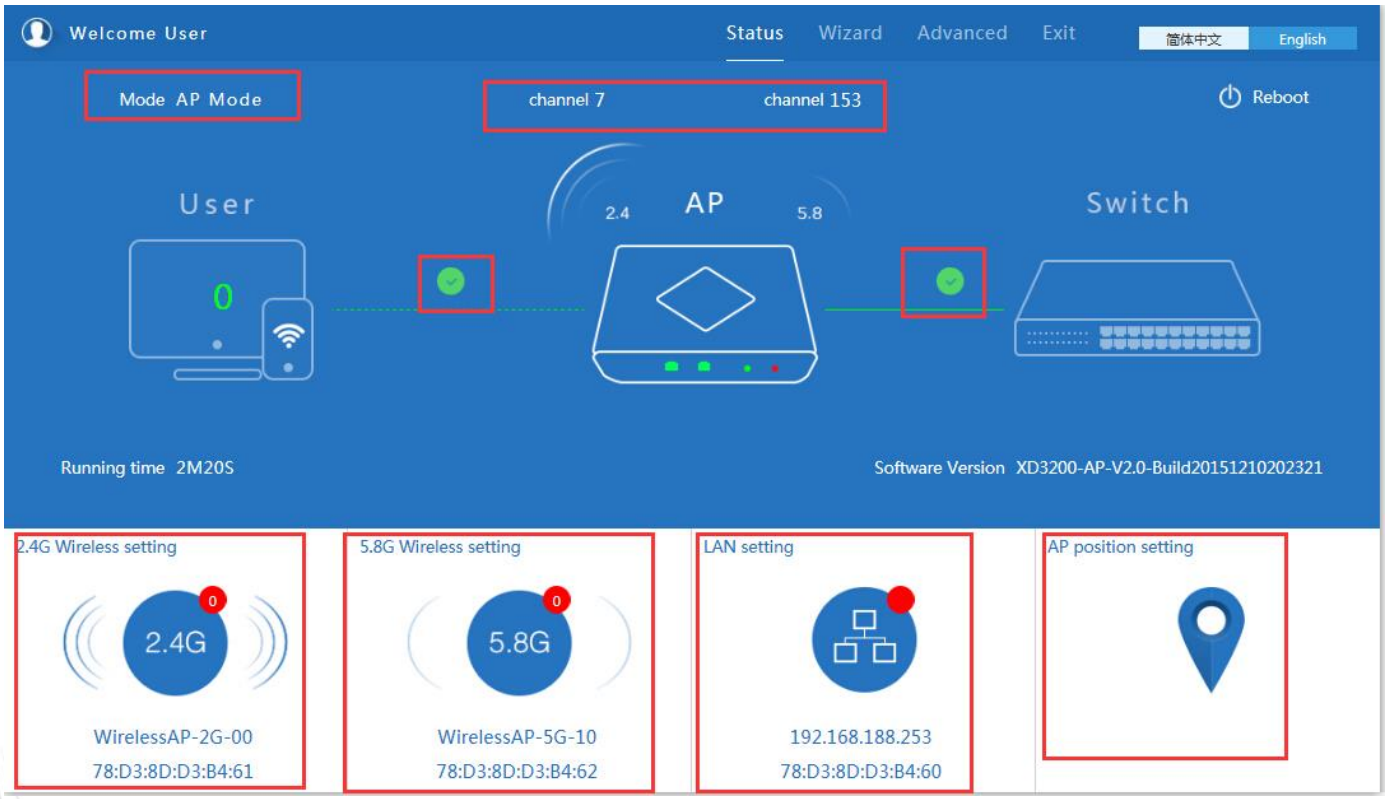
Set the wireless data, AP Location info as required, then click next to continue and enter into LAN setting. After LAN setting, complete the AP mode configuration and back to Status:



P26 Wireless setting in AP Mode



P27 LAN Setting in AP Mode



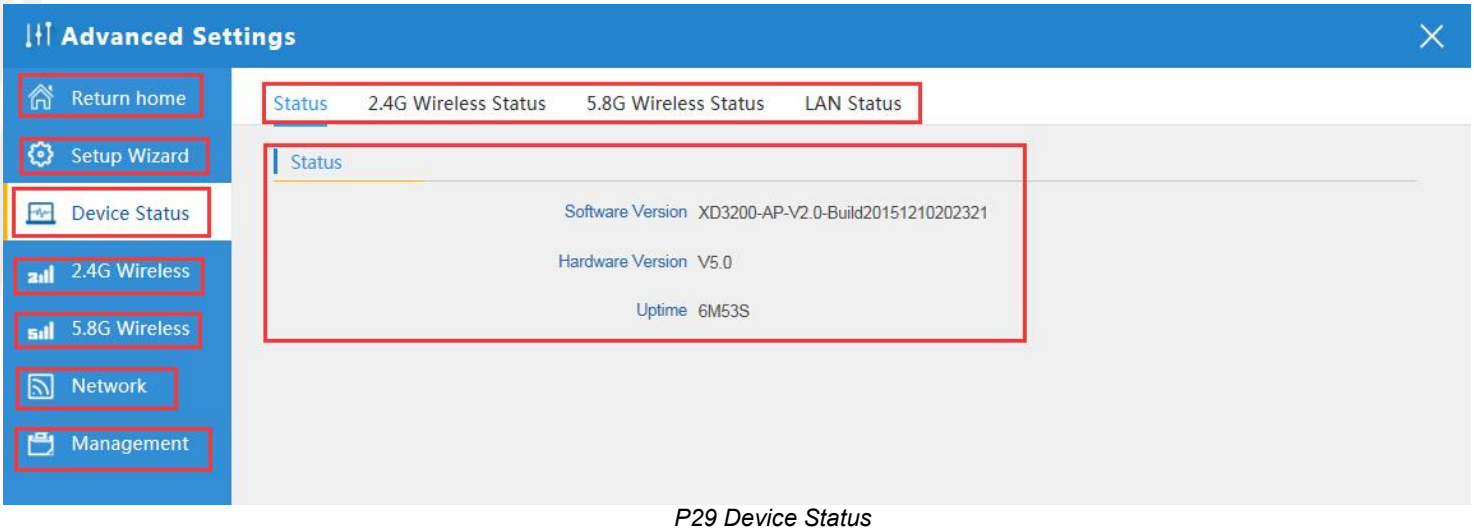
P28 Status in AP Mode

2.3 Advanced Settings

In advanced settings, user can check the ceiling AP's firmware version, working status, 2.4G wireless, 5.8G Wireless, LAN Status, upgrade firmware, Reset..., turn of LEDs

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

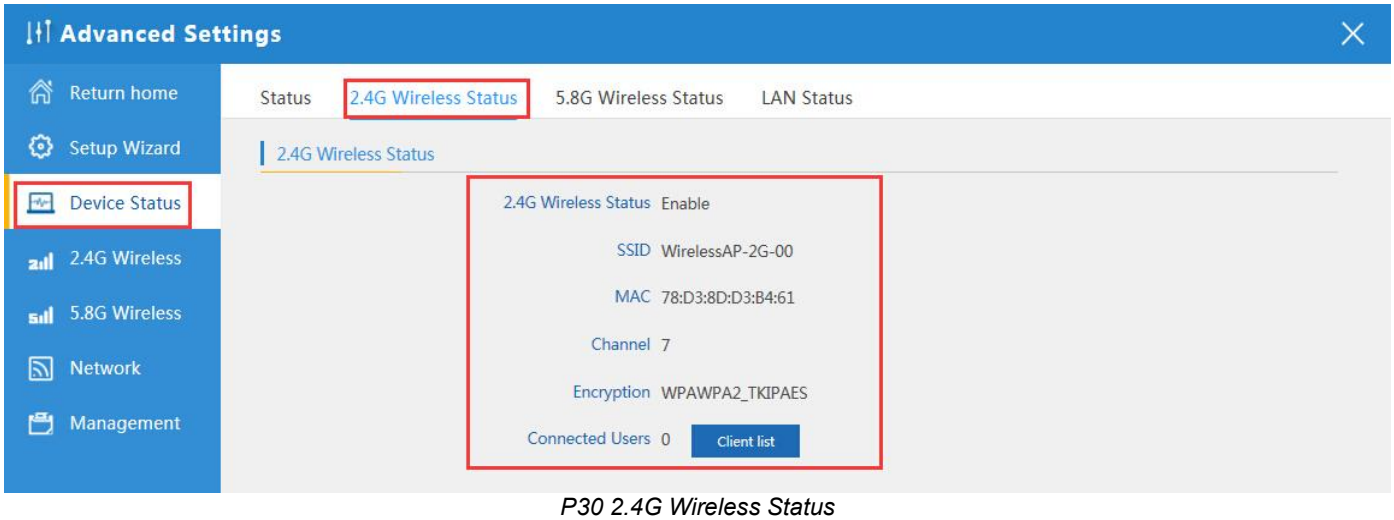
Let's shown mode in Device Status, 2.4G Wireless, 5.8G Wireless, Network and Management.



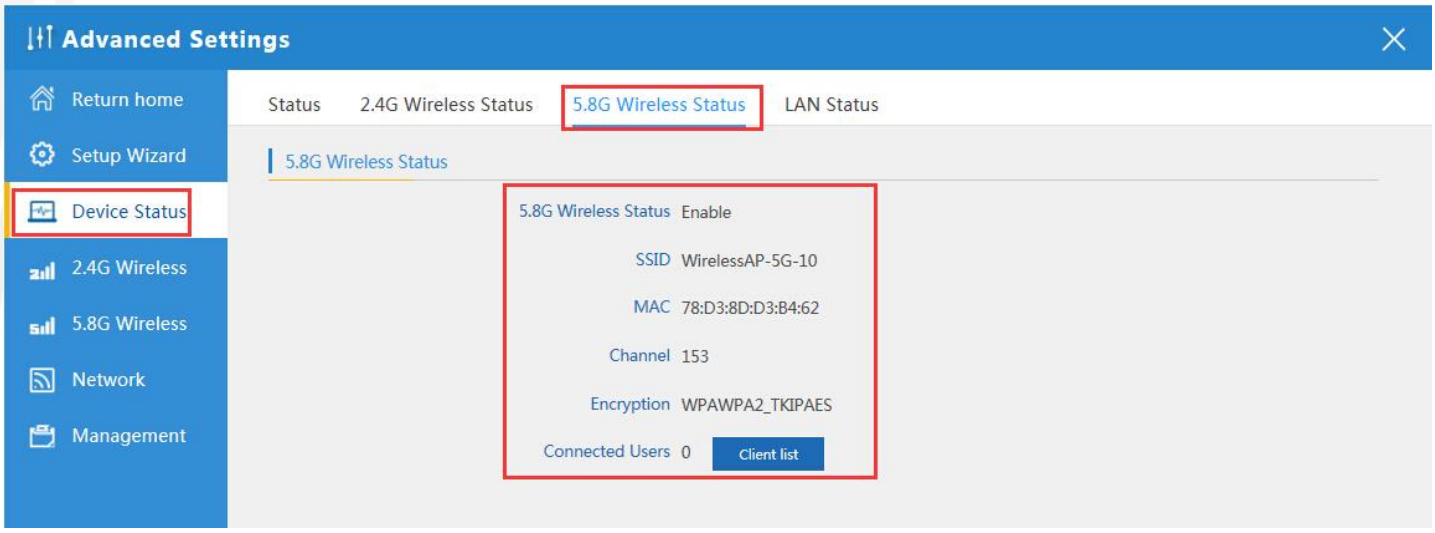
P29 Device Status

2.3.1 Device Status:

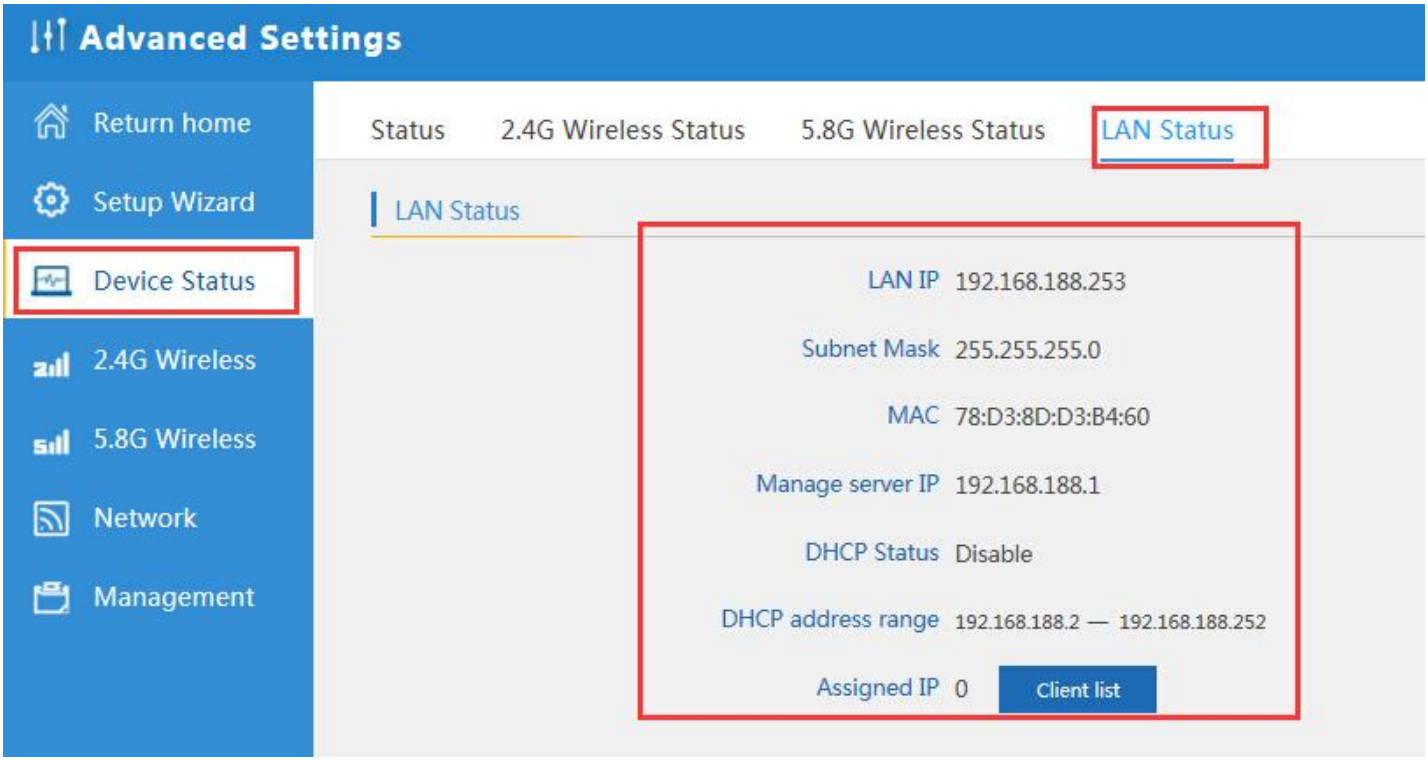
In this page, mainly to check the ceiling AP's status in firmware version, 2,4G Wireless, 5.8G Wireless and LAN status:



P30 2.4G Wireless Status



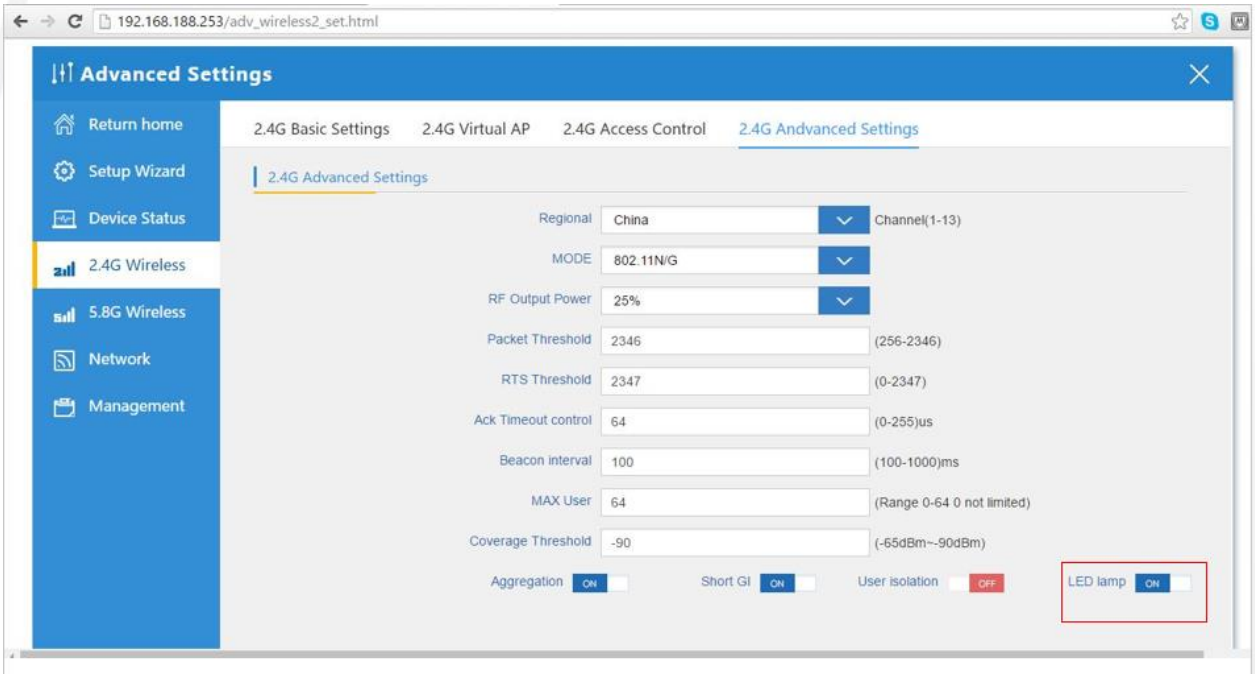
P31 5.8G Wireless Status



P32 LAN Status

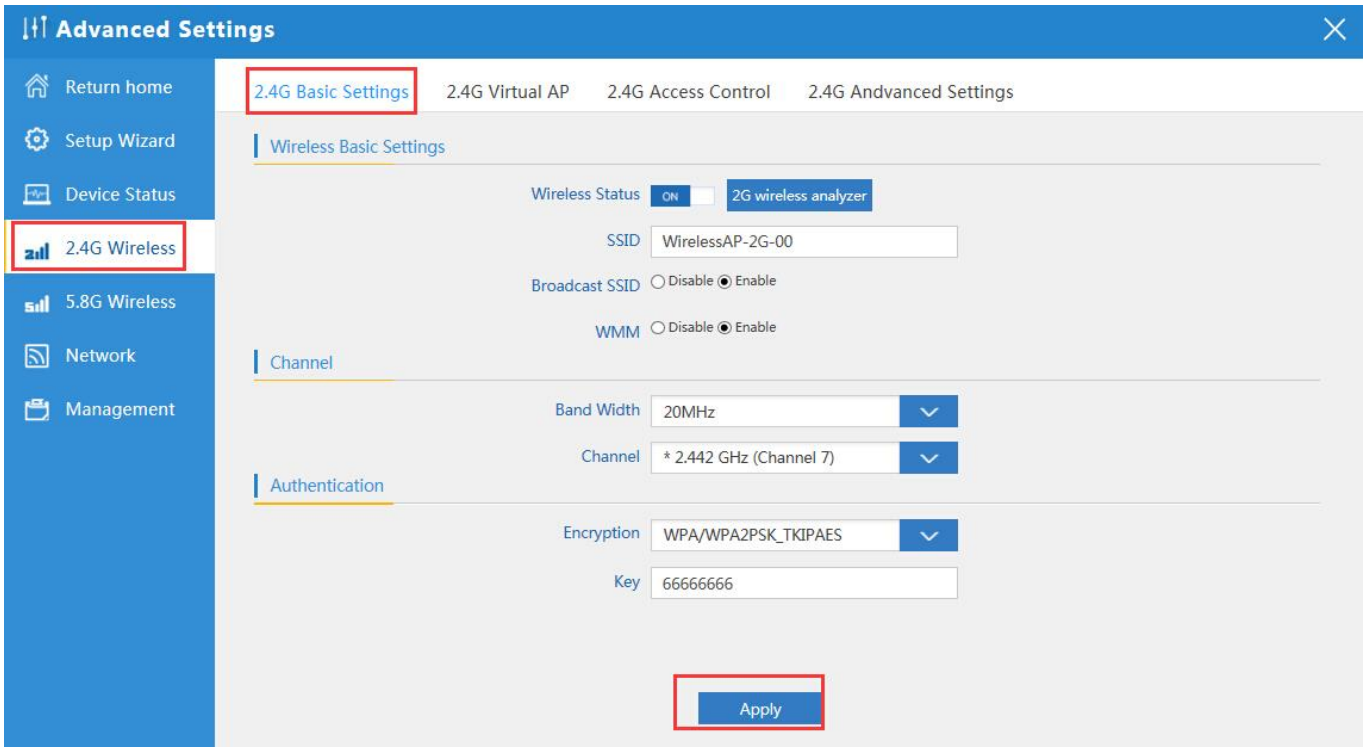
2.3.2 Turn off LEDs

Please see below how to turn off LED ligths in Accesspoint



2.3.3 2.4G Wireless Setting

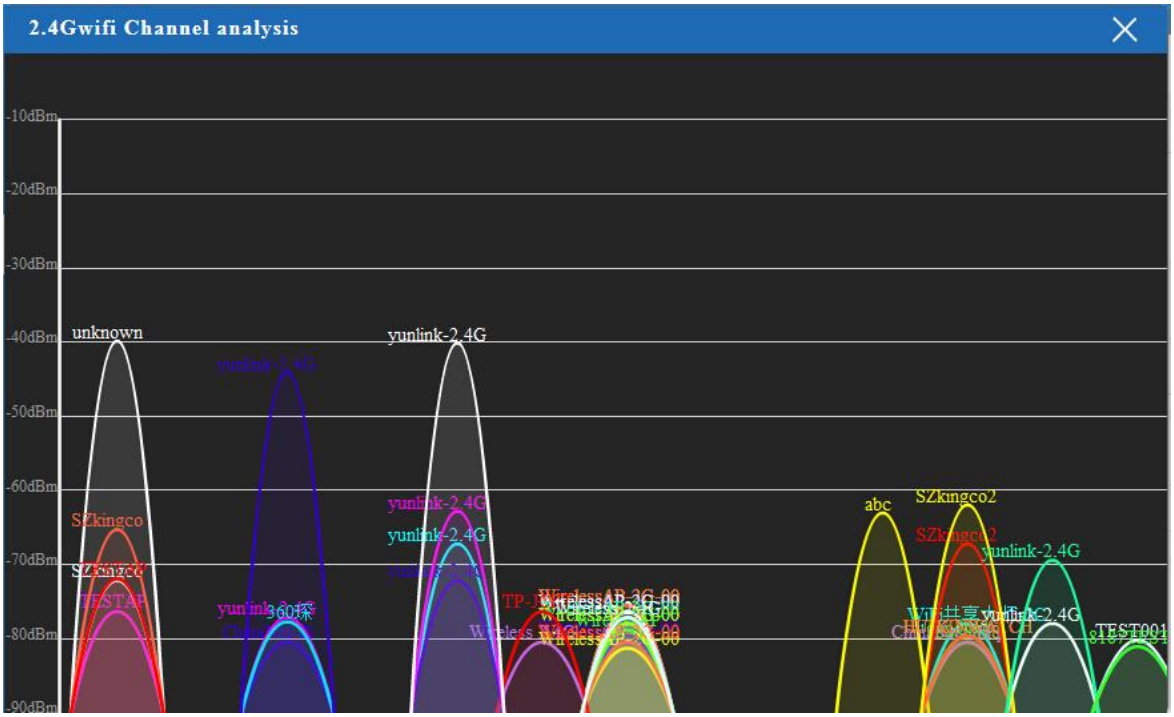
In this part, will show the 2.4G Basic Setting, Virtual AP, Access control and Advanced Setting:



P33 Basic Setting in 2.4G Wireless

2.3.4 2G Wireless Analyzer

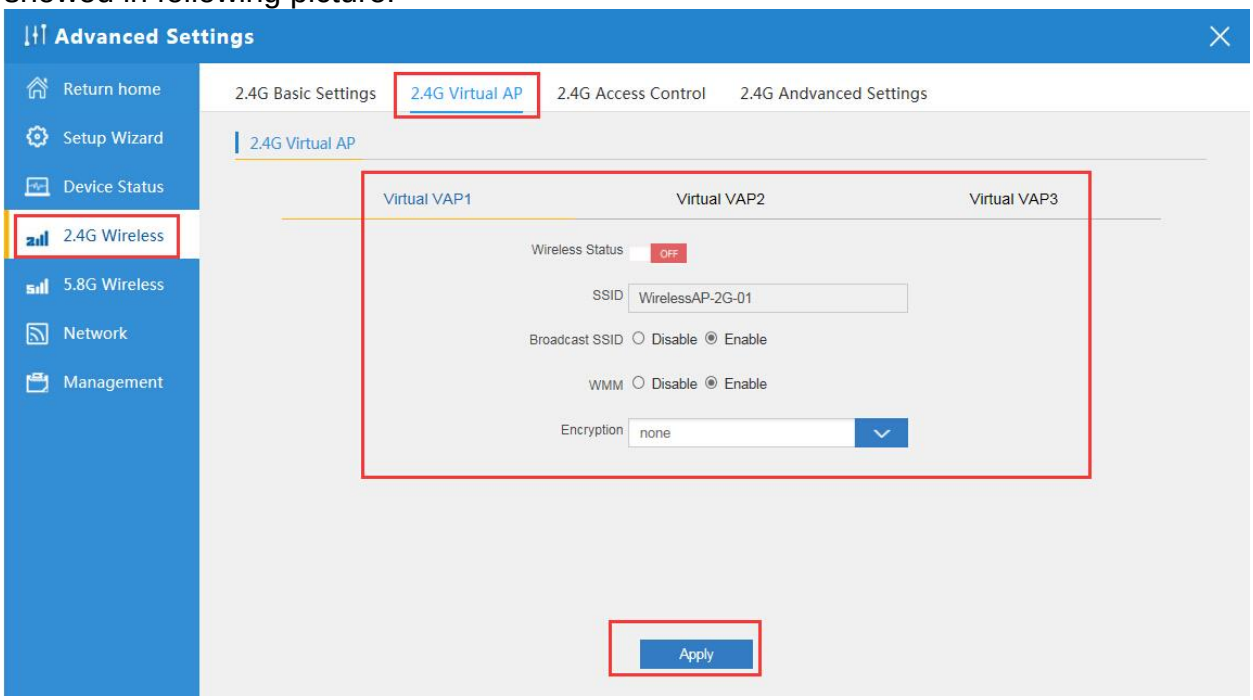
Mainly to analyze the AP's signal strength in some channel, to make user more easy to choose the right channel and avoid the Wi-Fi interface.



P34 Wireless Analyzer

2.3.5 Virtual AP

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



P35 Virtual AP

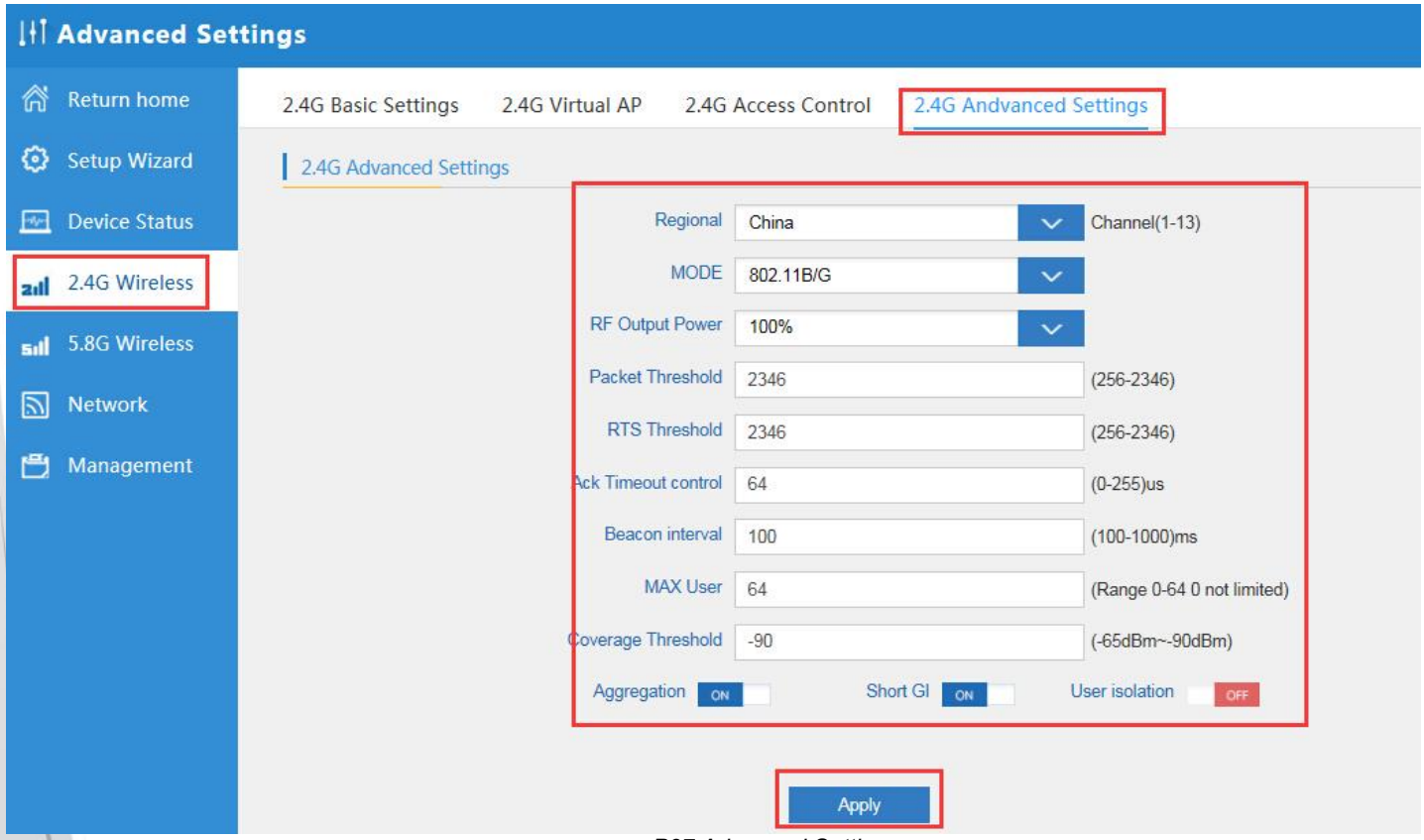
2.3.6 2.4G Access Control

Mainly show MAC allow or deny:

P36 MAC Access Control

2.3.7 2.4G Advanced Settings

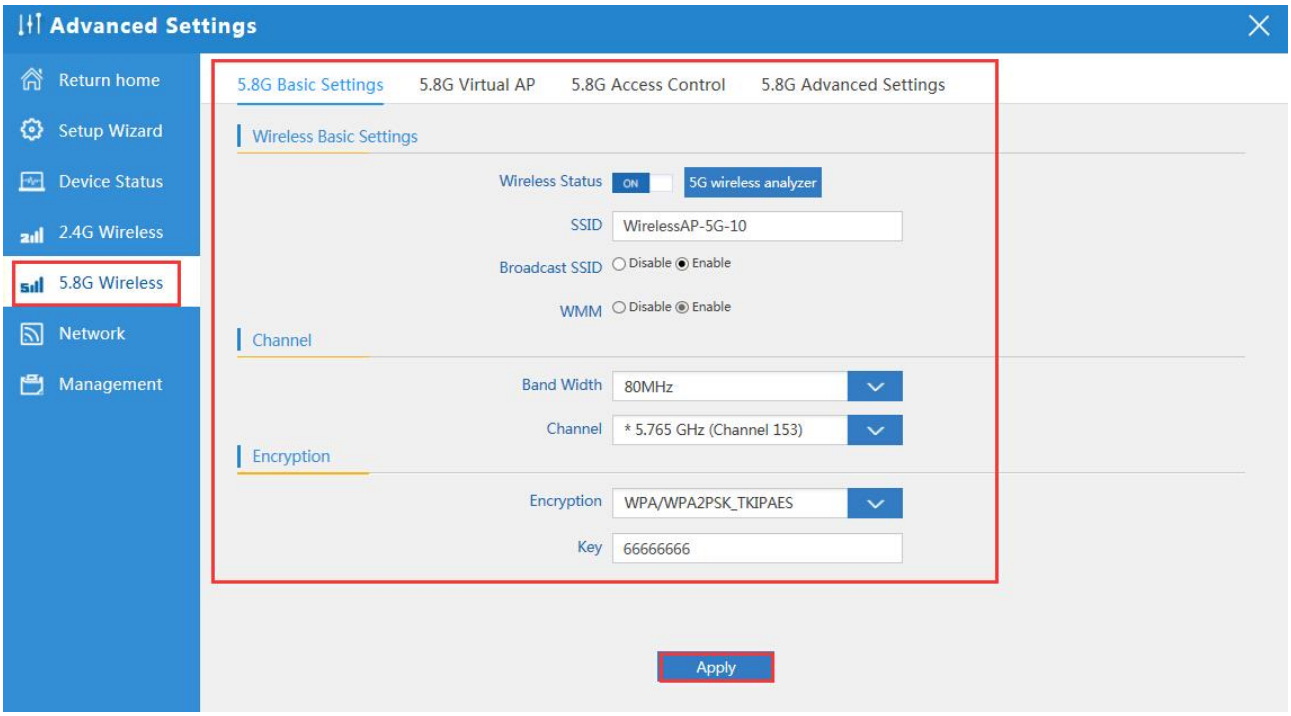
In this page, will show the regional, RF Power, Max user access...



P37 Advanced Setting

2.3.8 5.8G Wireless Setting

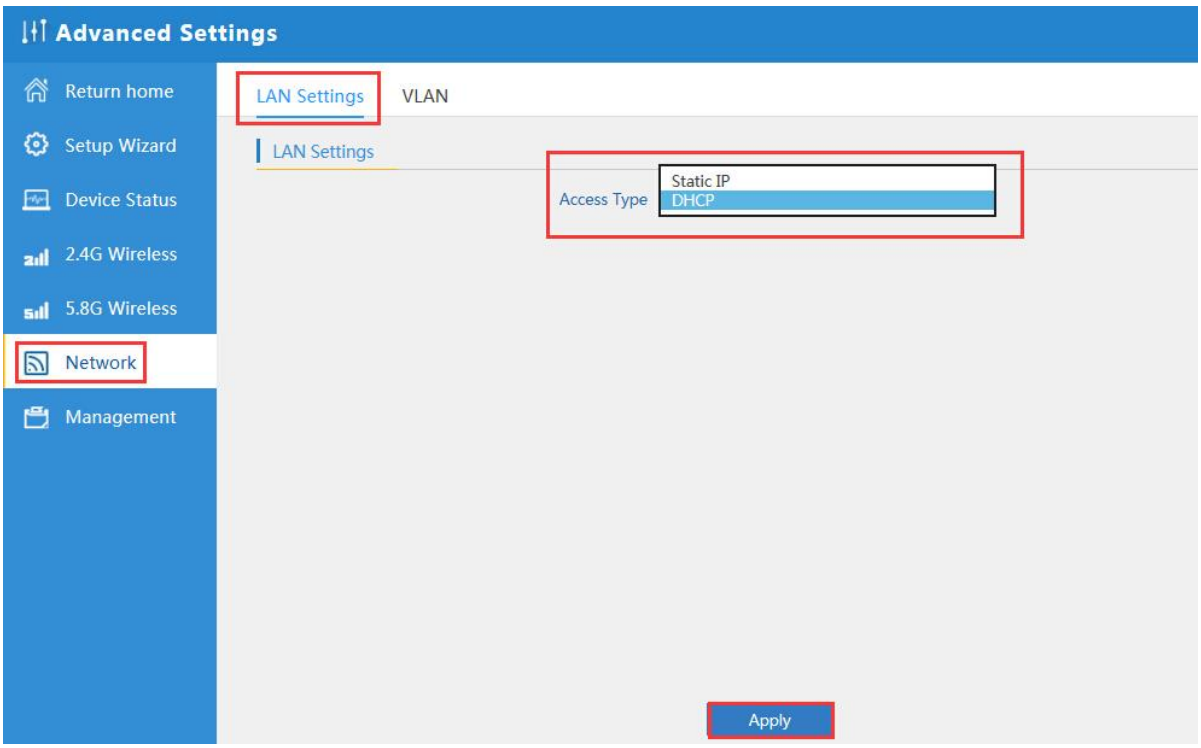
Almost same as 2.4G Wireless:



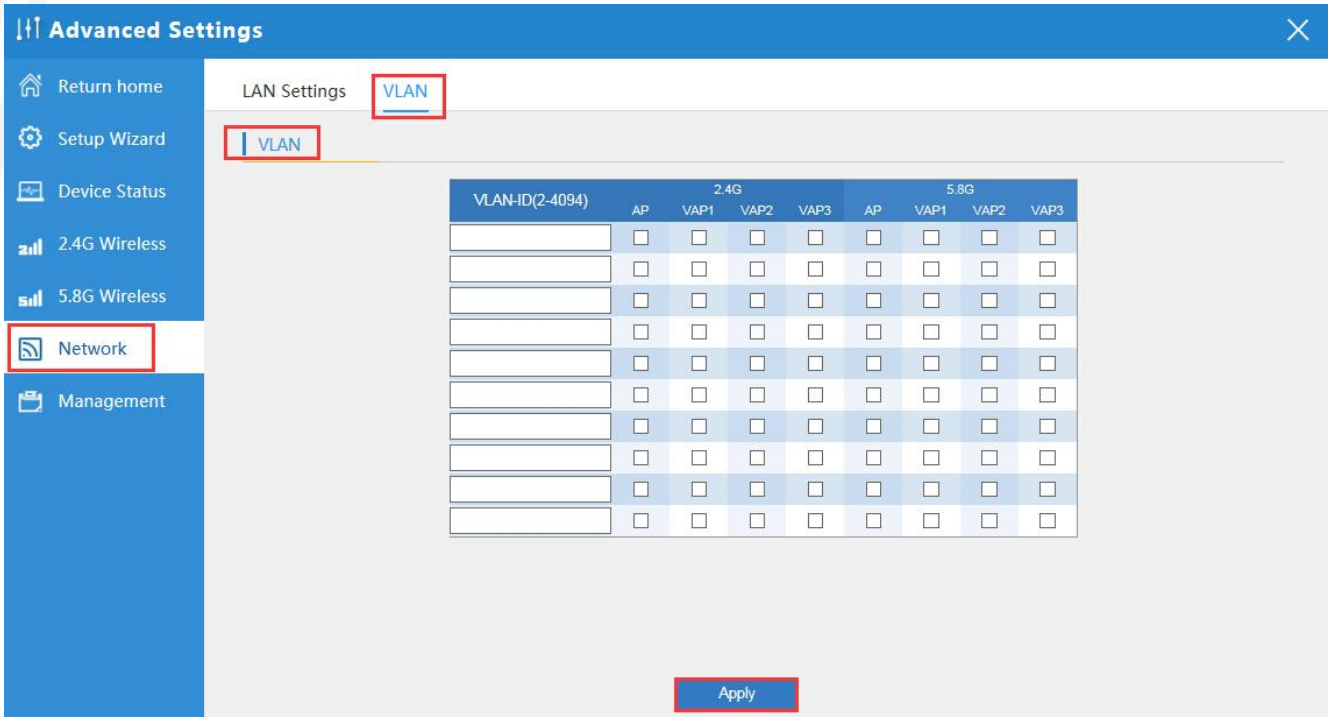
P38 5.8G Wireless Setting

2.3.9 Network setting

In this page, mainly to show the LAN setting and VLAN as follow:



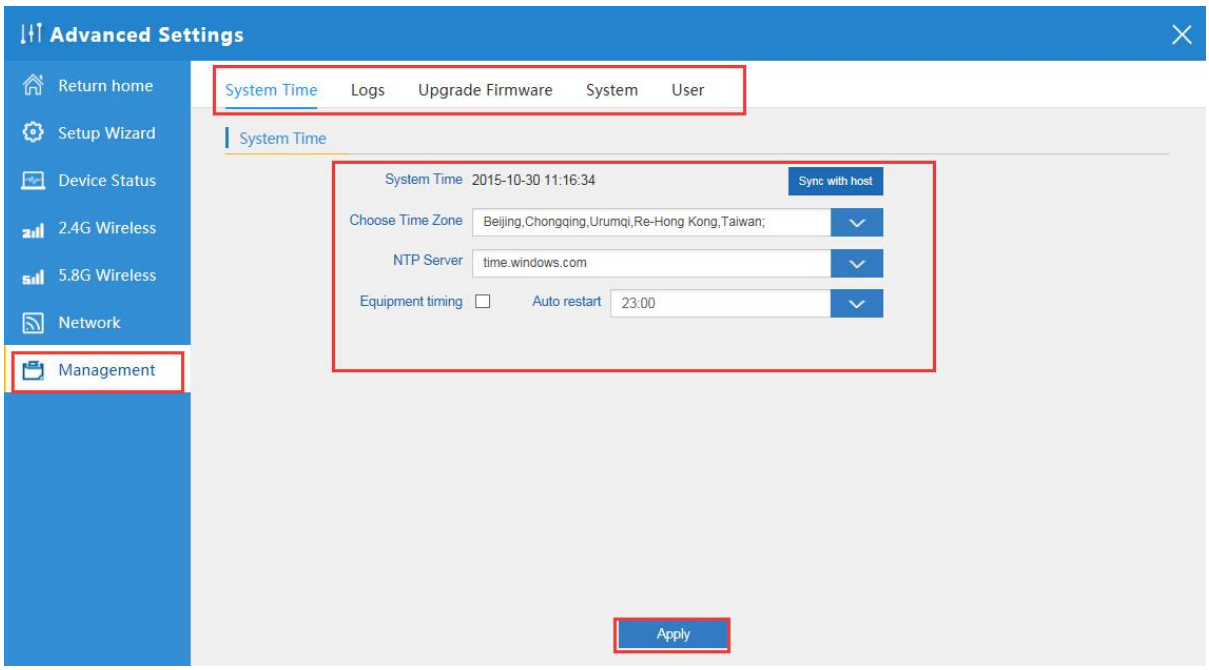
P39 Network Setting



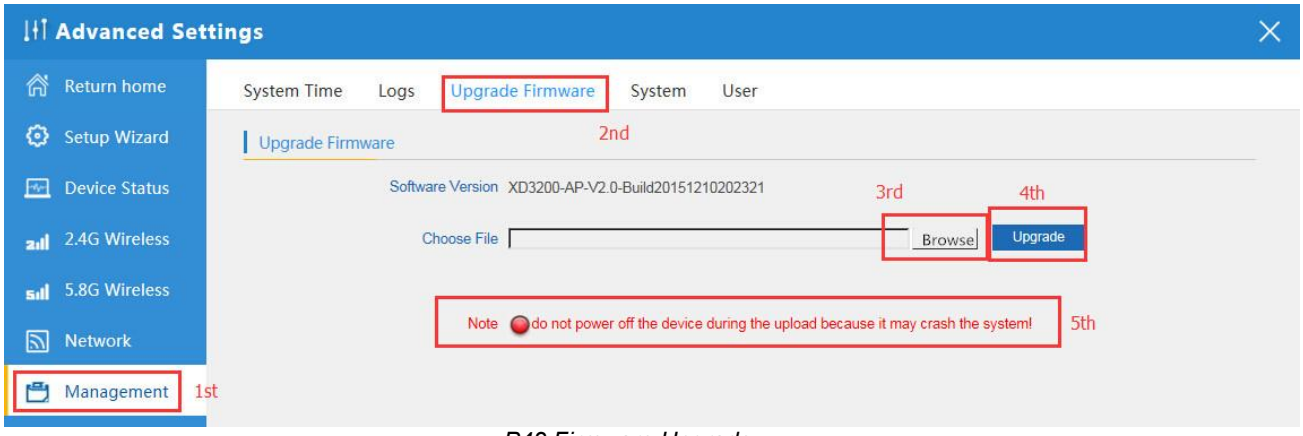
P40 Tag VLAN Setting

2.3.10 Management

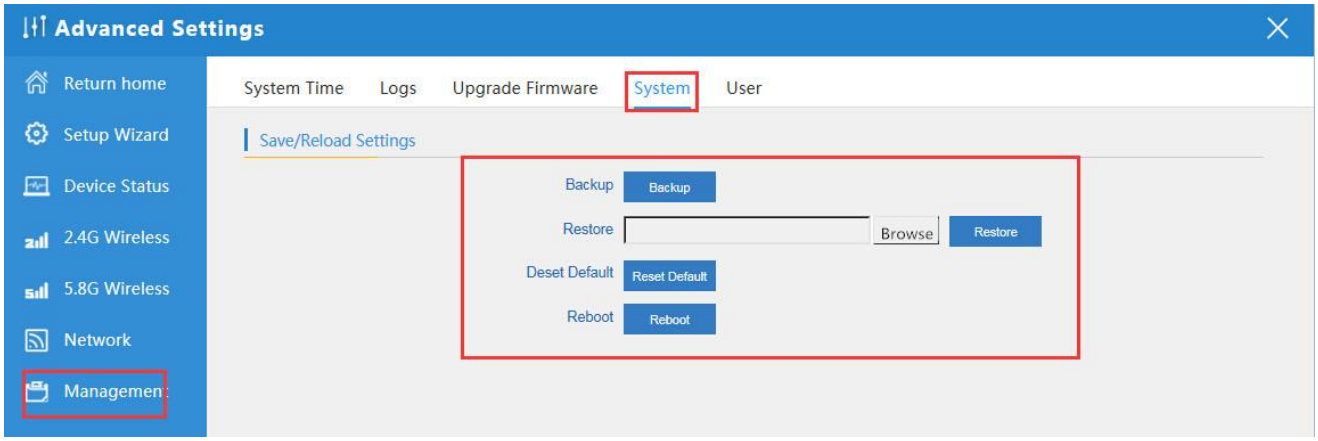
In this part, show the system time, Logs, upgrade firmware, system, user info. And we show System time, how to upgrade firmware and system page to users:



P41 System Time



P42 Firmware Upgrade

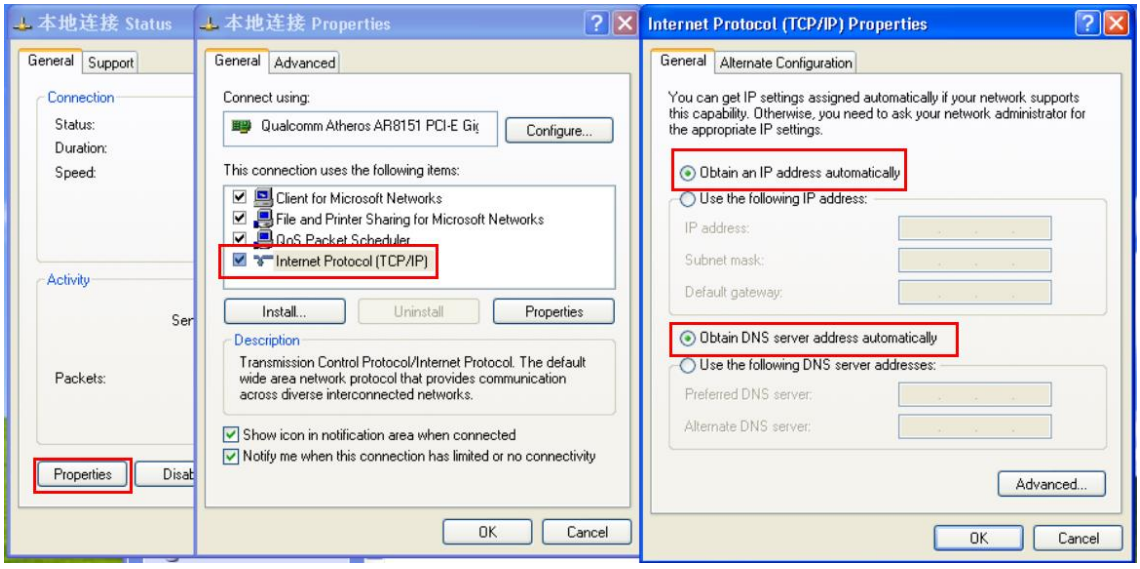


P43 System info

3 Share Internet and Obtain IP address automatically

Set computer's TPC/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.


本地连接 Status
General
Support
Connection
Status:
Duration:
Speed:
Activity
Packets:
Properties
本地连接 Properties
General
Advanced
Connect using:
Qualcomm Atheros AR8151 PCI-E Gig
Configure...
This connection uses the following items:
Client for Microsoft Networks
File and Printer Sharing for Microsoft Networks
QoS Packet Scheduler
Internet Protocol (TCP/IP)
Install...
Uninstall
Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Show icon in notification area when connected
Notify me when this connection has limited or no connectivity
OK
Cancel
Internet Protocol (TCP/IP) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

4 Trouble Shooting

Issue	Solution
SYS Indicator off	Please make sure the PoE module connection is right. POE Port connect with AP, LAN port connect with computer
Can't land to Wireless AP through Web page	Please check the IP address of computer and Wireless AP to see whether they are in same networking seg00nt, The method is click "start"-"Run" input"cmd"，ping 192.168.2.253 to test the Wireless AP connectivity. Reset Wireless AP and load it again; Please make sure the IP address 192.168.2.200 is not occupied by other device in Wireless AP's networking; Check computer and cable problem, 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 avaliable wireless networking again； Make sure the Wireless AP's wireless standard（11b/g/n, 2.4G）is correct； 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； 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	Please Check the computer's IP address and DNS setting. If it is dynamin, set the network card as automatically obtain. If it is static IP, Please 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.