



User Manual of 11ac 1200Mbps Outdoor CPE **NWA220**



NWA

This is the user manual of 11ac 1200Mbps Outdoor CPE, which will approximate guide you how to set and apply the NWA 220 Outdoor CPE

1st Hardware and Operation mode Instruction



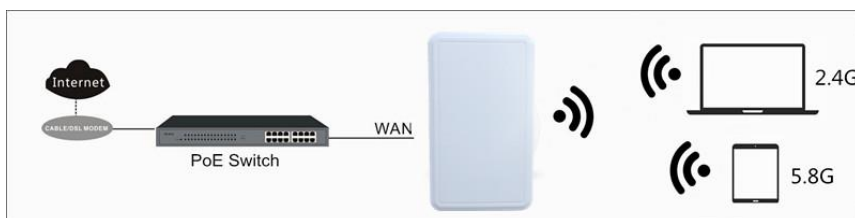
WAN: Gigabit WAN Port, connect with ADSL modem or Internet mainly. It will be LAN port under Outdoor CPE and WiFi Repeater operation mode

Power Supply:

Powered by PoE Switch

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

Pls note, the outdoor CPE support IEEE 802.3at PoE, the switch should comply with IEEE 802.3at PoE standard.



P2

Connect Outdoor CPE with PC:

User can connect the PC with Outdoor CPE by Wireless SSID and LAN cable:
The diagram of wireless connection showed as follow:

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

2nd : Login

Default IP: 192.168.188.253

Username: admin

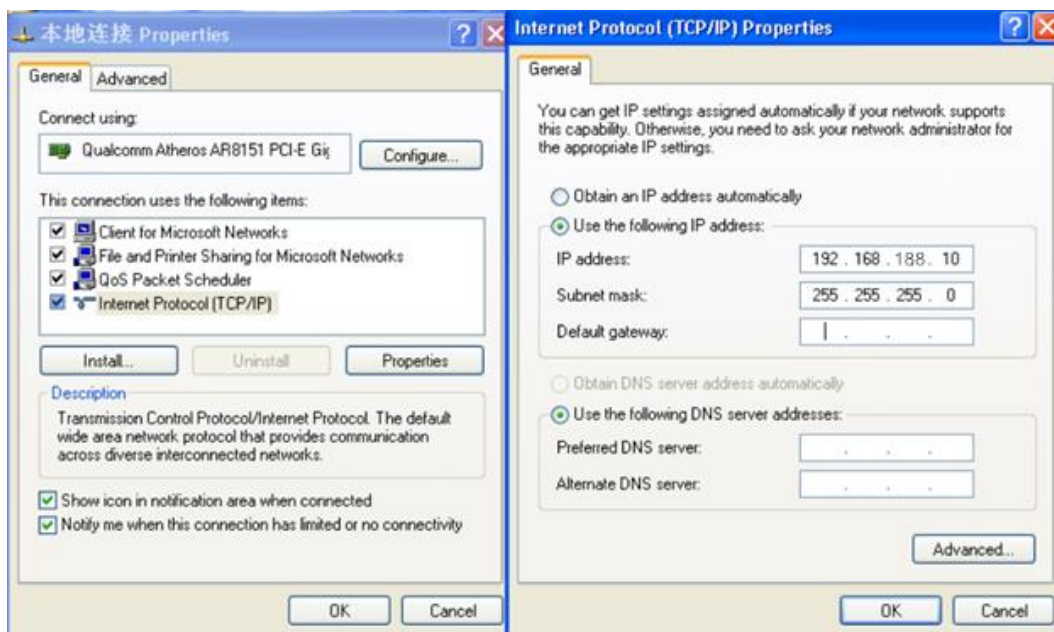
Password: admin

1) Connect the Outdoor CPE with computer

2) Configure the PC's local connection IP address as 192.168.188.X (X is number from 2 to 254), subnet mask is 255.255.255.0, follow P4 and P5 to finish.

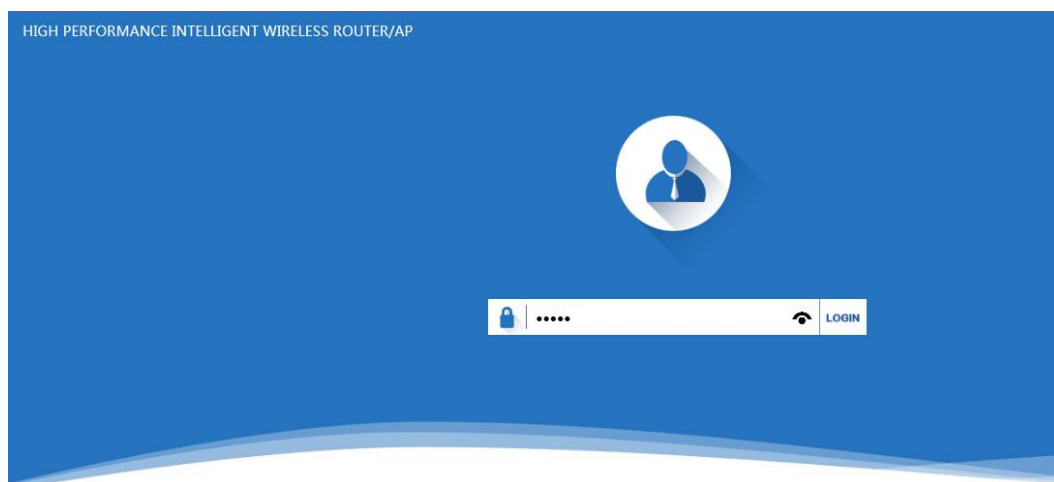


P4 Setting of computer's IP address



P 5 Setting of computer's IP address

3) Input 192.168.188.253 into IE browser, then pop up the login page, the default login user name: Admin, Passwords: admin, pls do following P6



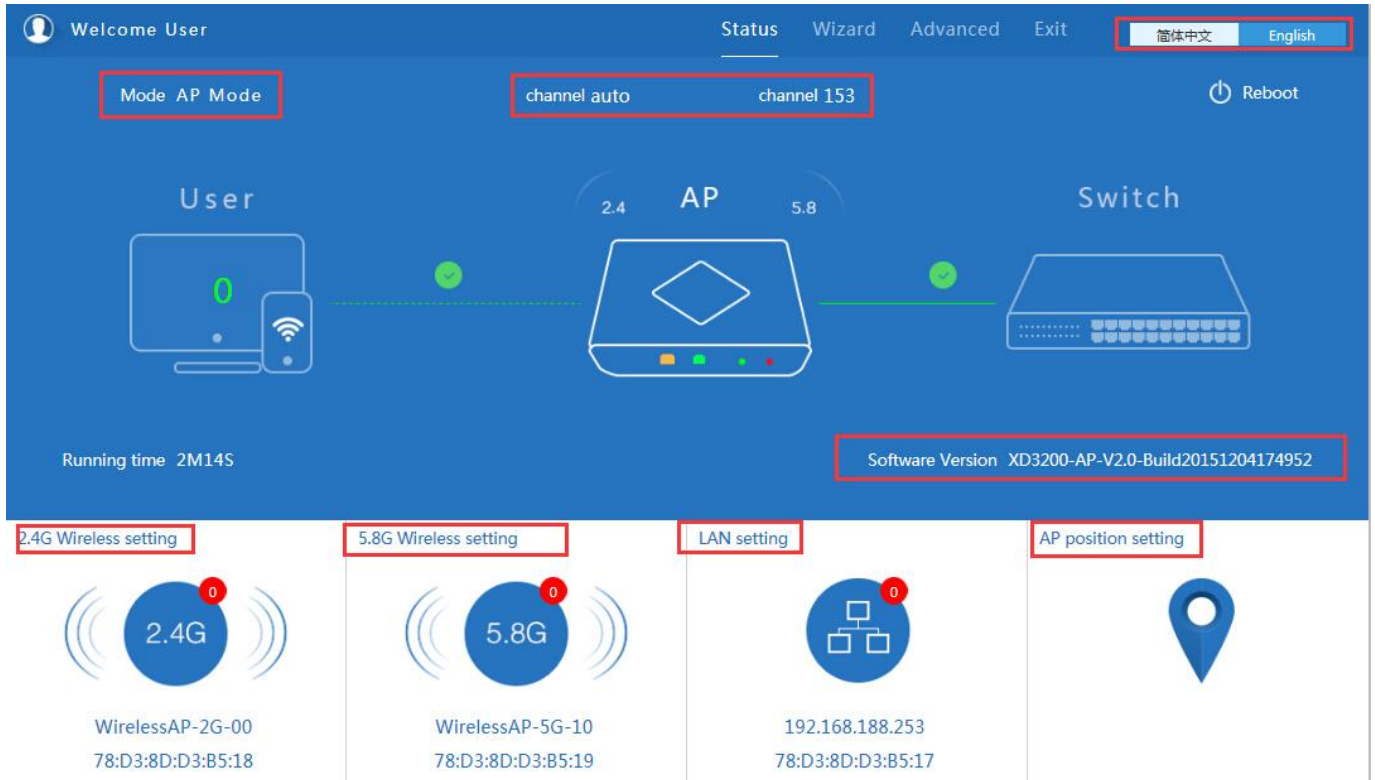
软件版本(version) XD3200-AP-V2.0-Build20151204030606

P6 Login

3rd : WEB GUI interface Setting:

1) Status

After login, then P7 Device Status will be showed:

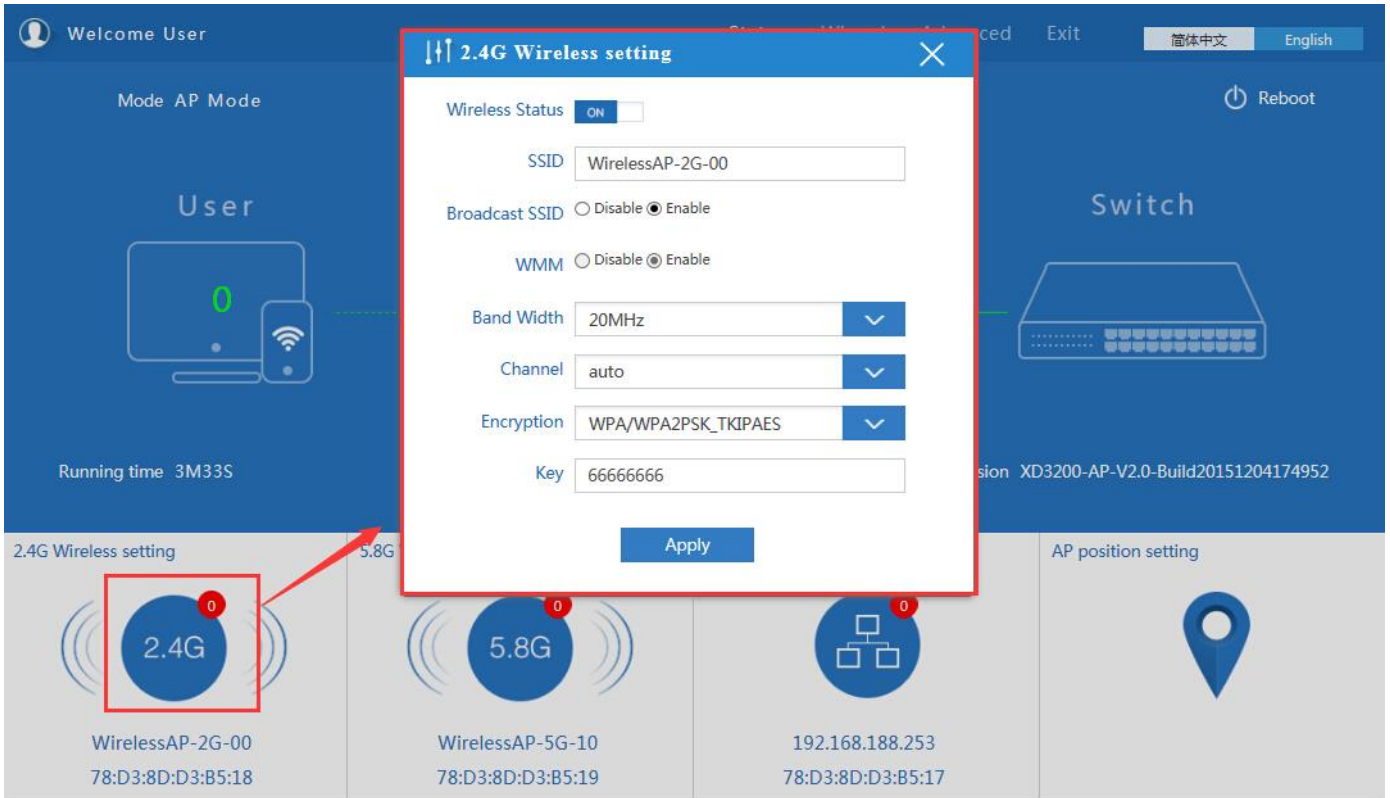


P7: Device Status

In this Outdoor CPE, the default operation mode is AP mode.

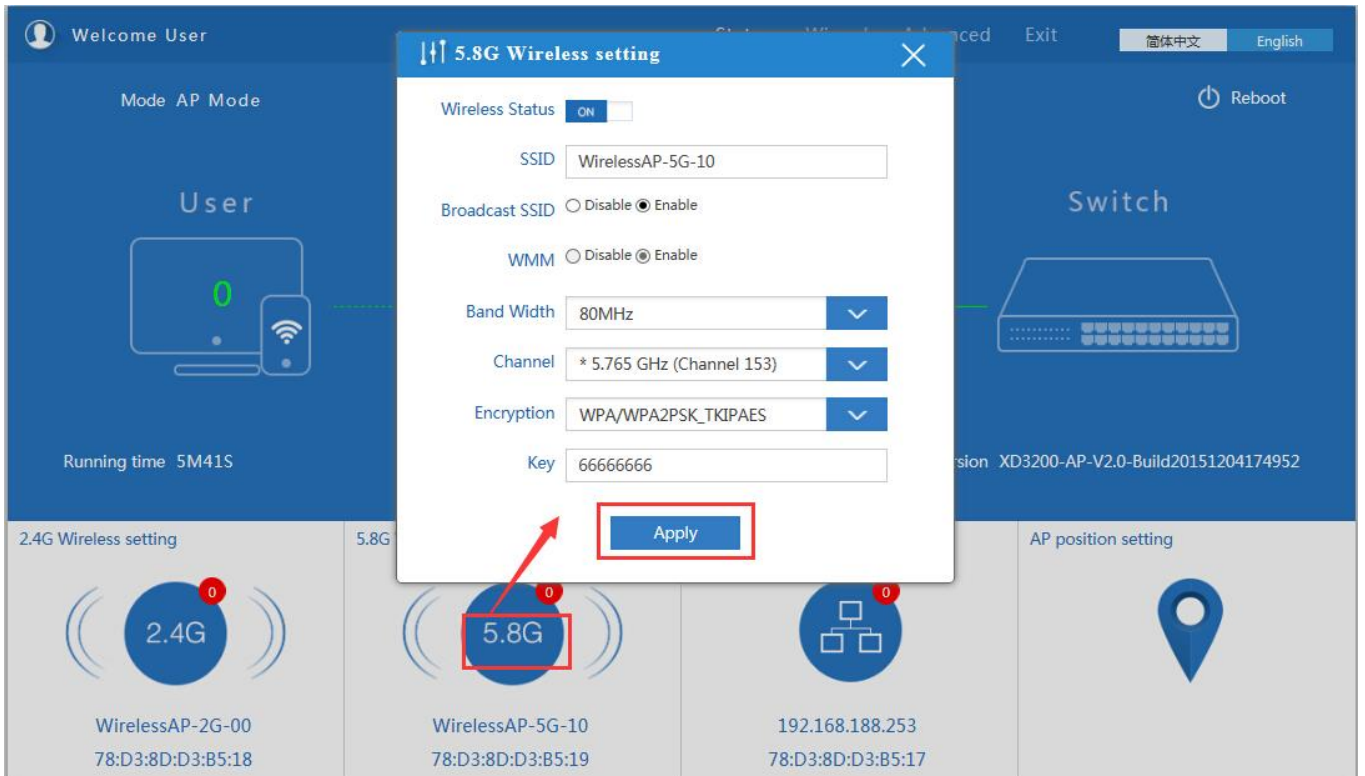
Then in 2.4G Wireless Setting, GUI configuration page showed as below:

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



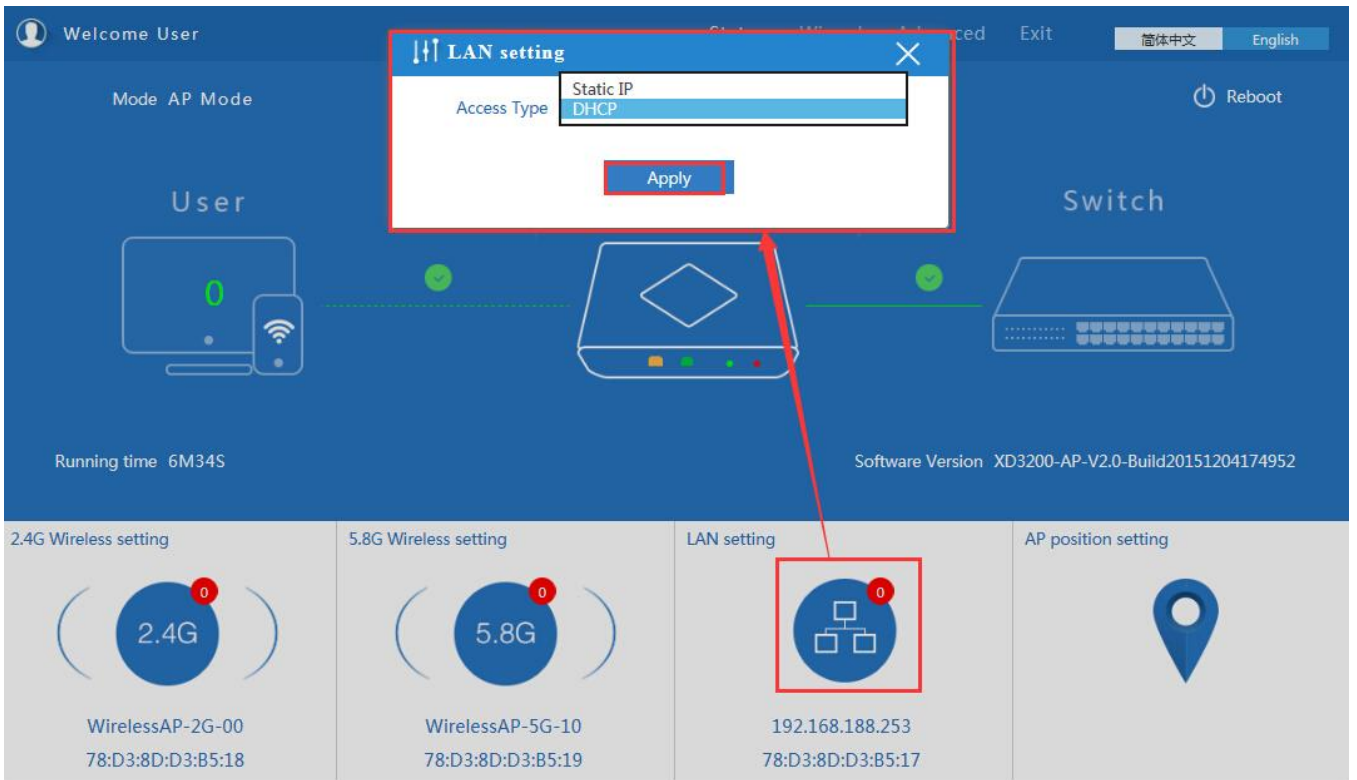
P8. 2.4G Wireless setting

5.8G Wireless Setting GUI configuration setting showed as P8:



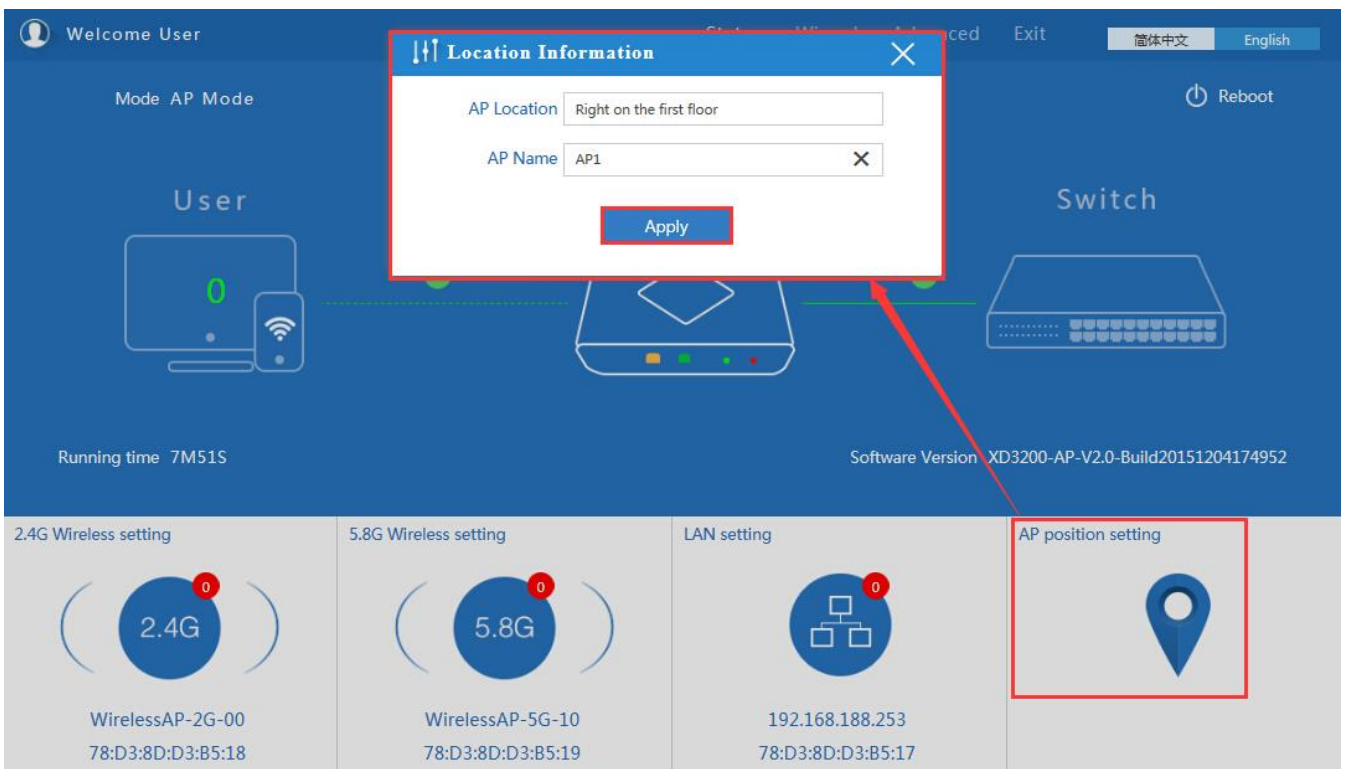
P9 5.8G Wireless Setting

LAN Setting to configure the DHCP or Fix IP



P10 LAN Setting

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

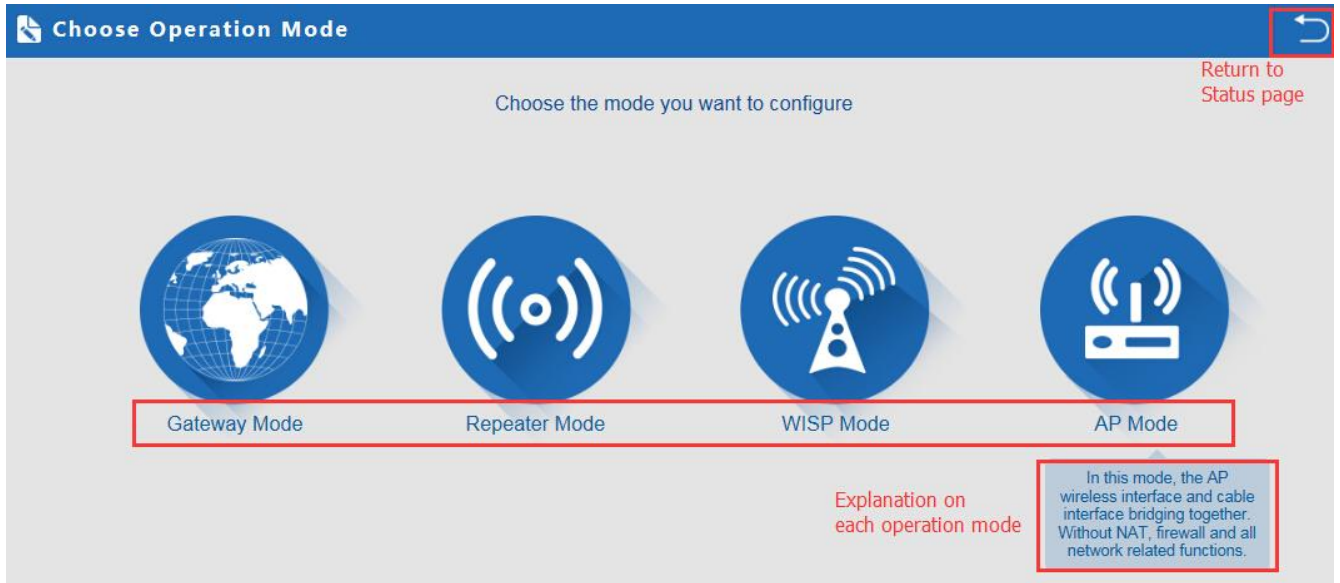


P11 AP Position setting

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 Outdoor CPE, and there are explanation for each operation mode for better application.

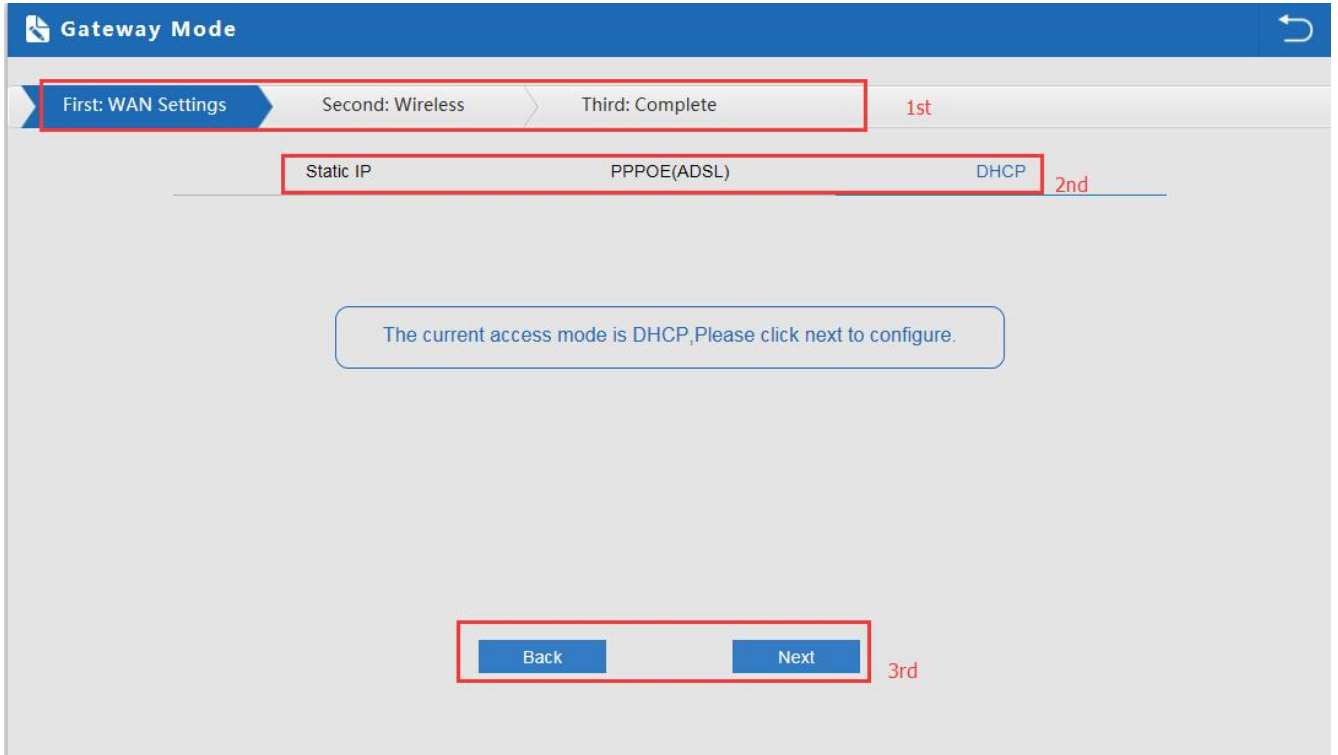


P12 Operation mode

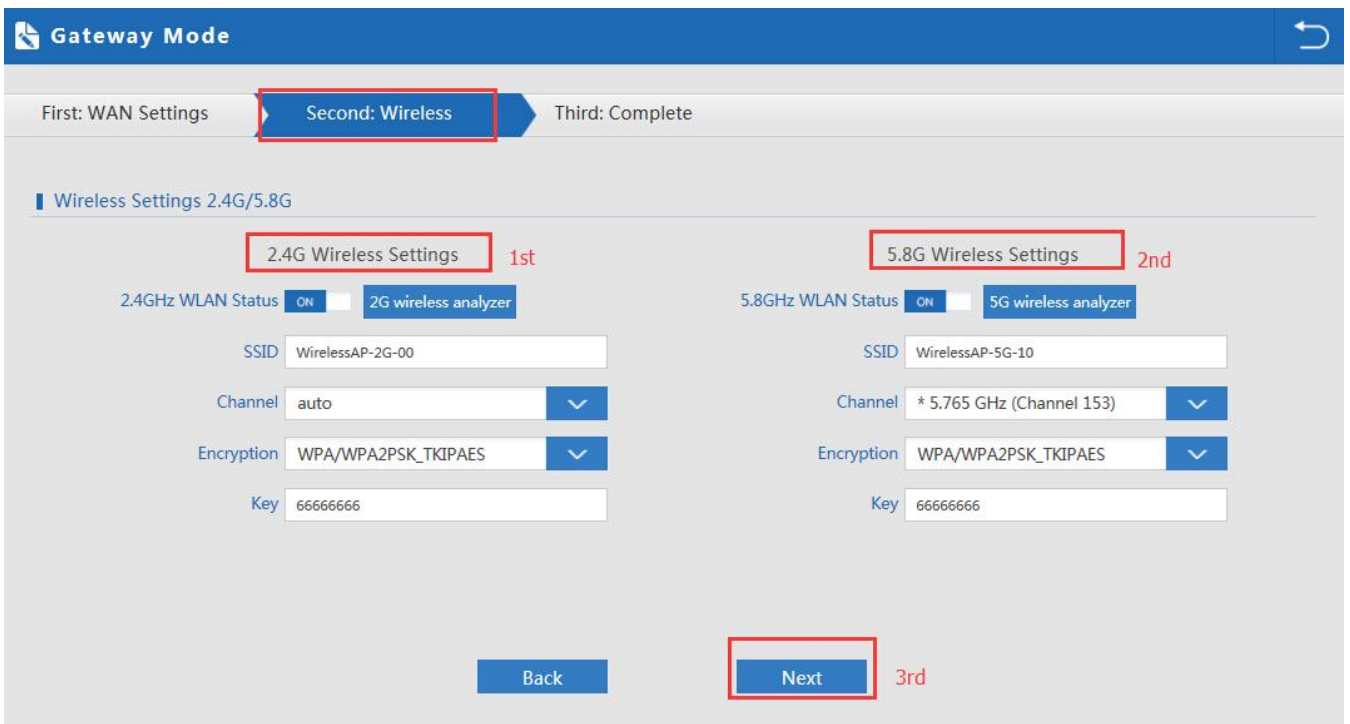
1. Gateway Mode:

Click Gateway mode, will pop up following pictures:

Pls choose the right WAN setting mode, then click next to continue.

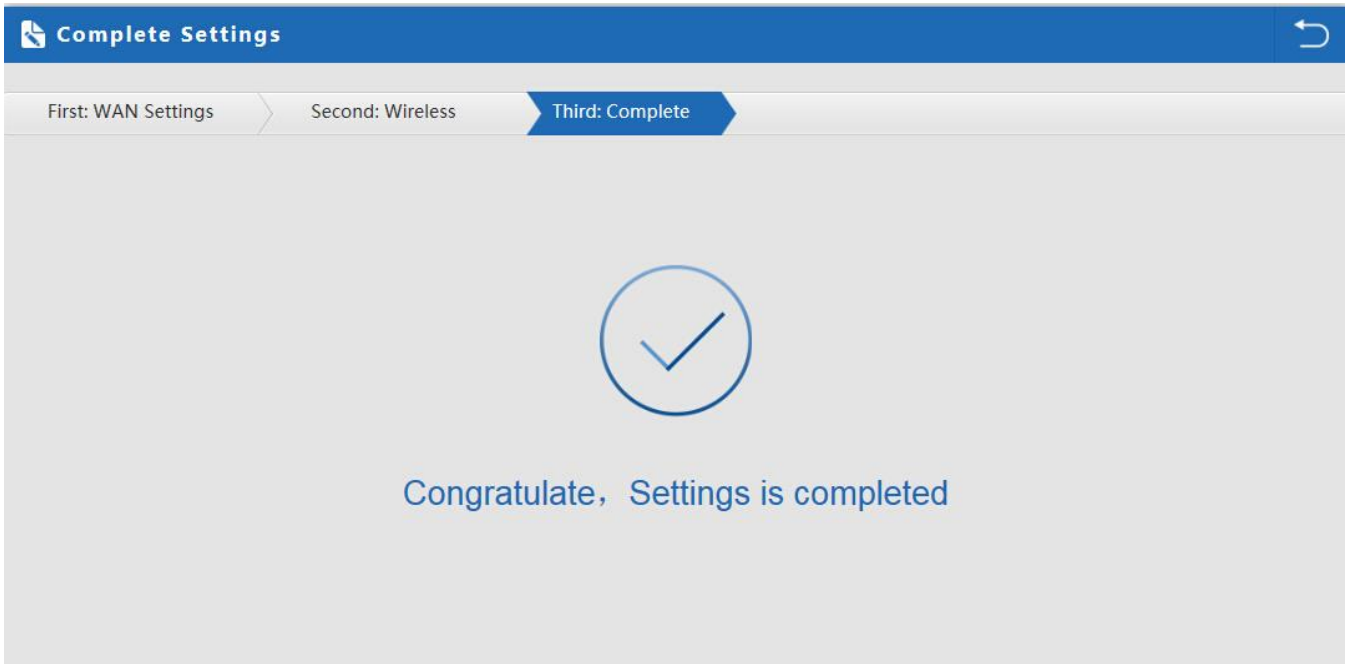


P13. WAN setting in Gateway Mode



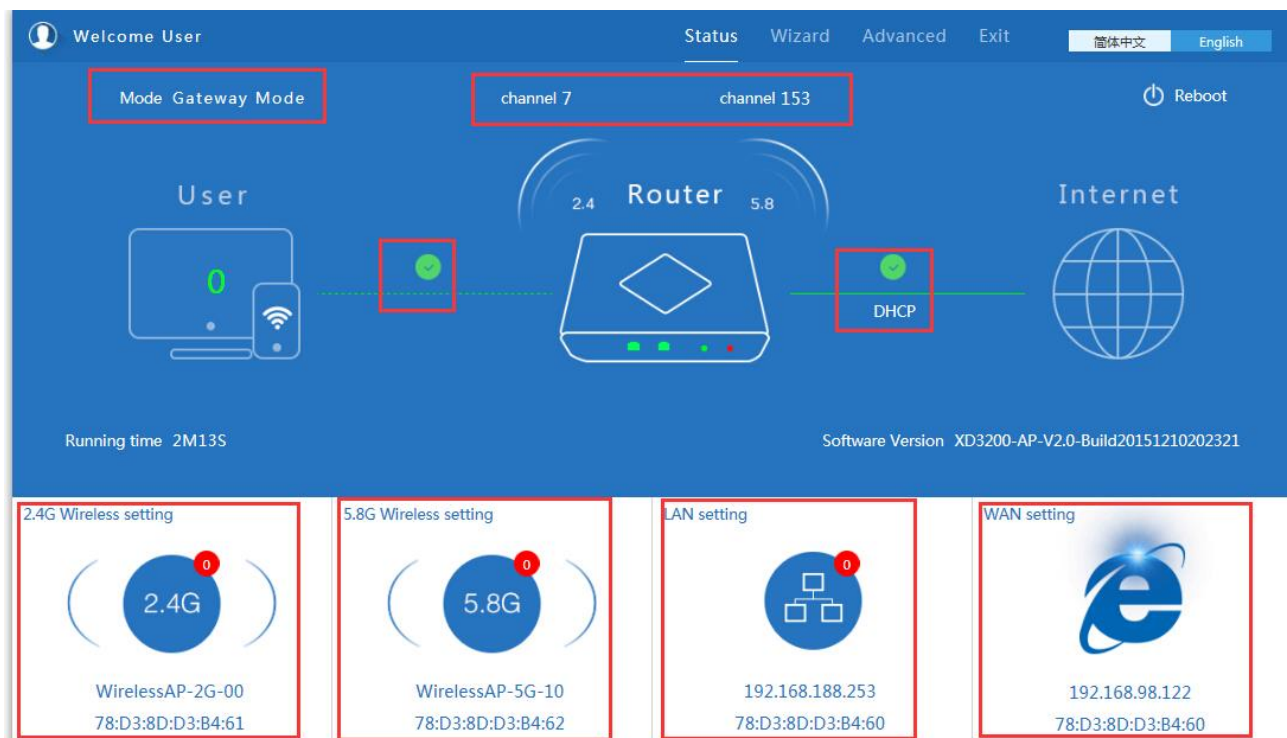
P14 Wireless Setting in Gateway Mode

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:

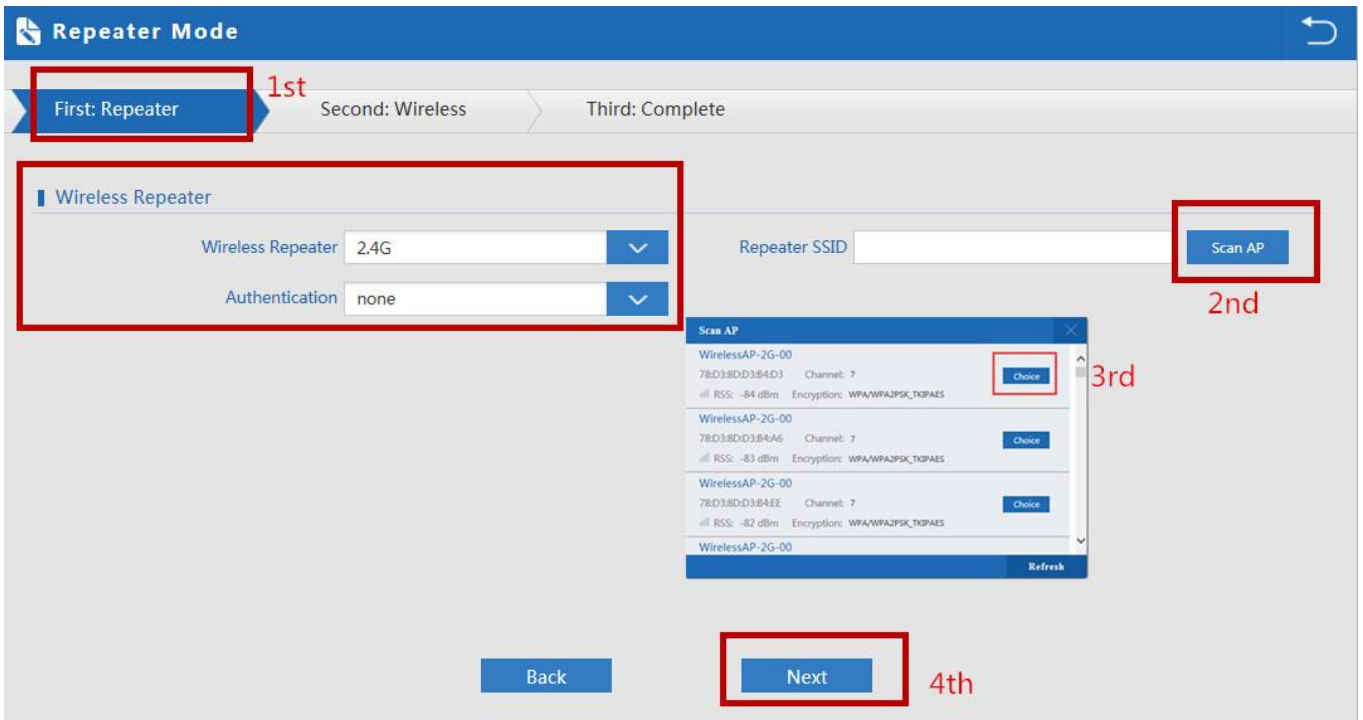


P16 Status in Gateway Mode

2. WiFi Repeater mode

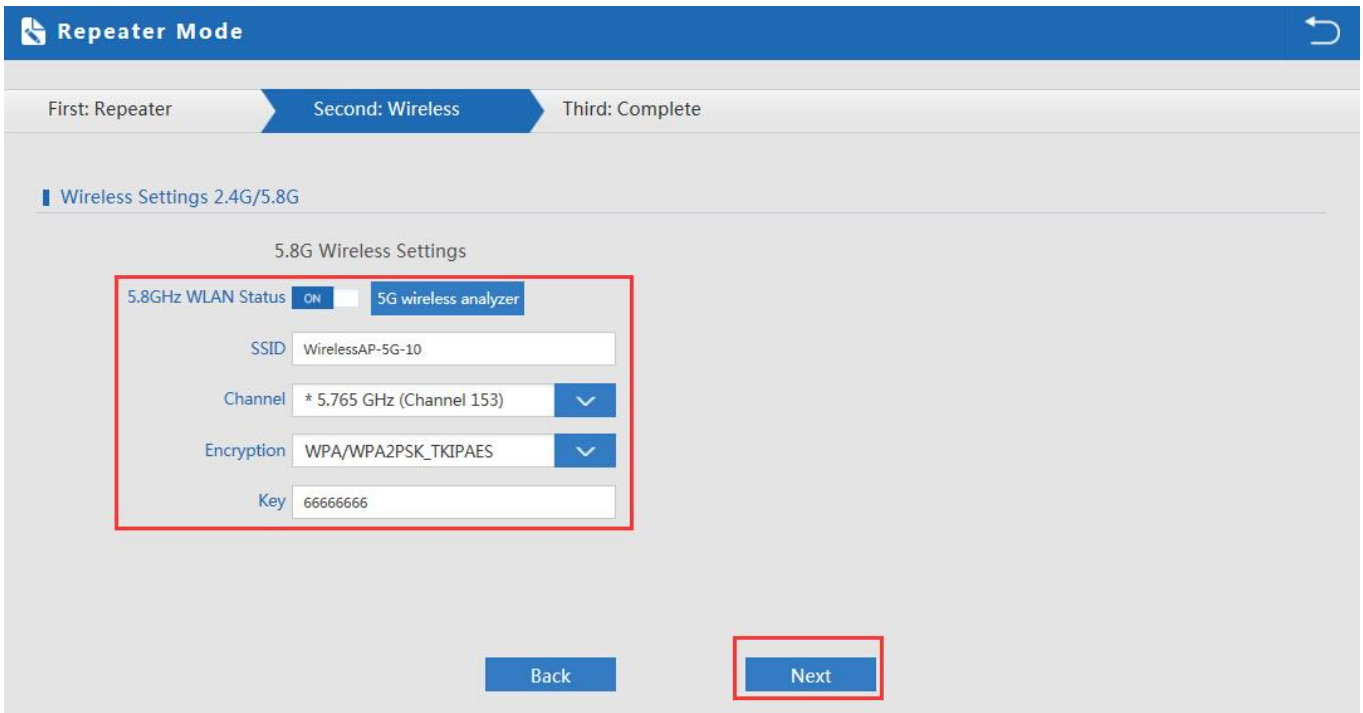
Click WiFi Repeater operation mode in Wizard, then following page will pop up, and choose the right SSID to bridge,

then next.



P17 Repeater Mode

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



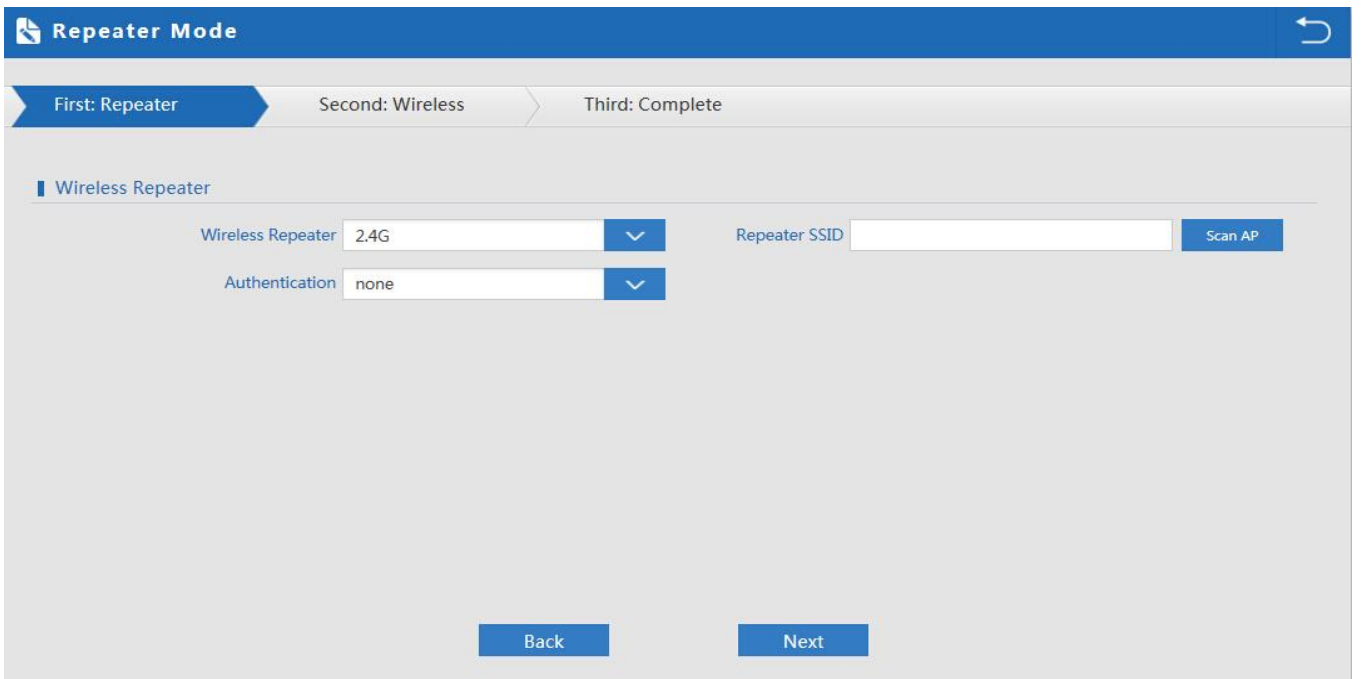
P18 Wireless Setting in Repeater Mode

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

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

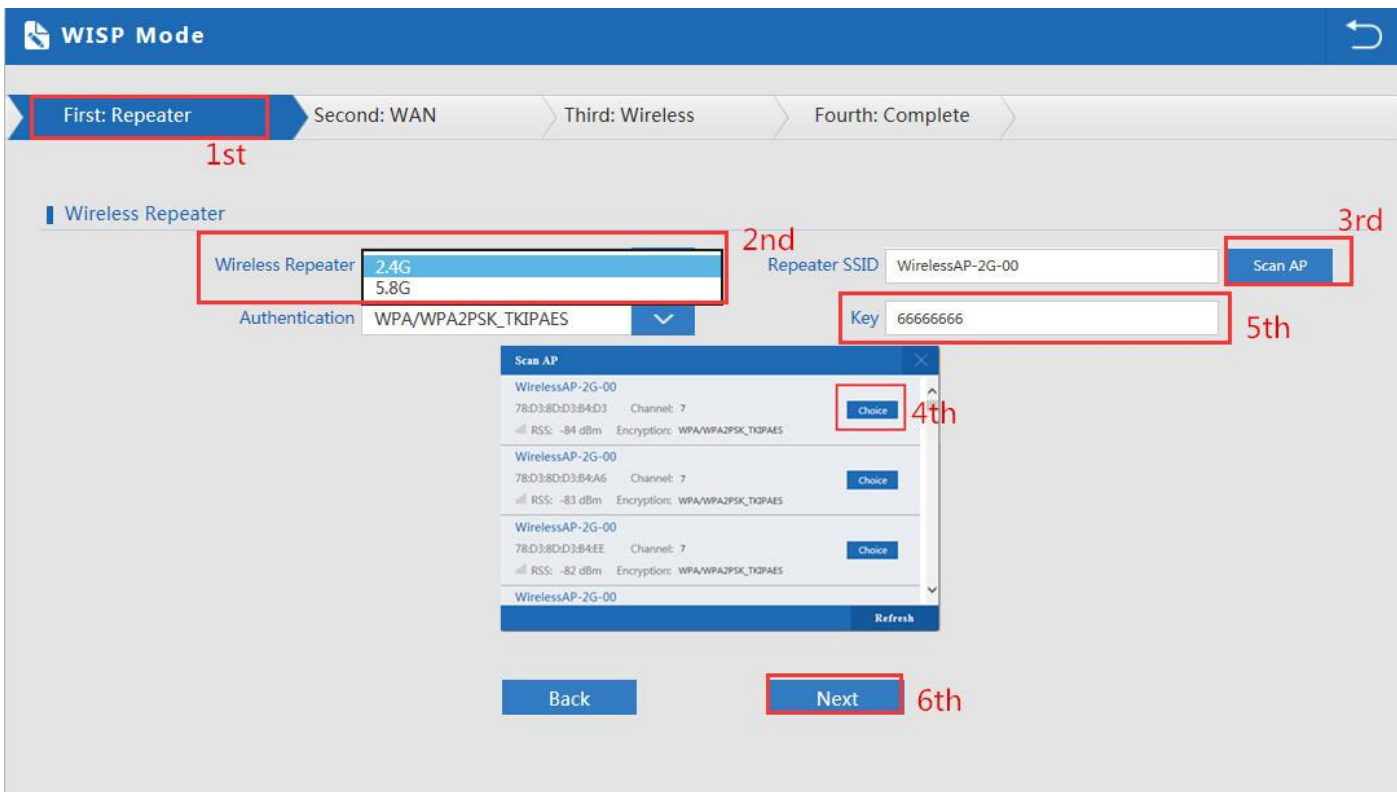


P20 Wireless Relay Setting

3. WISP Operation mode:

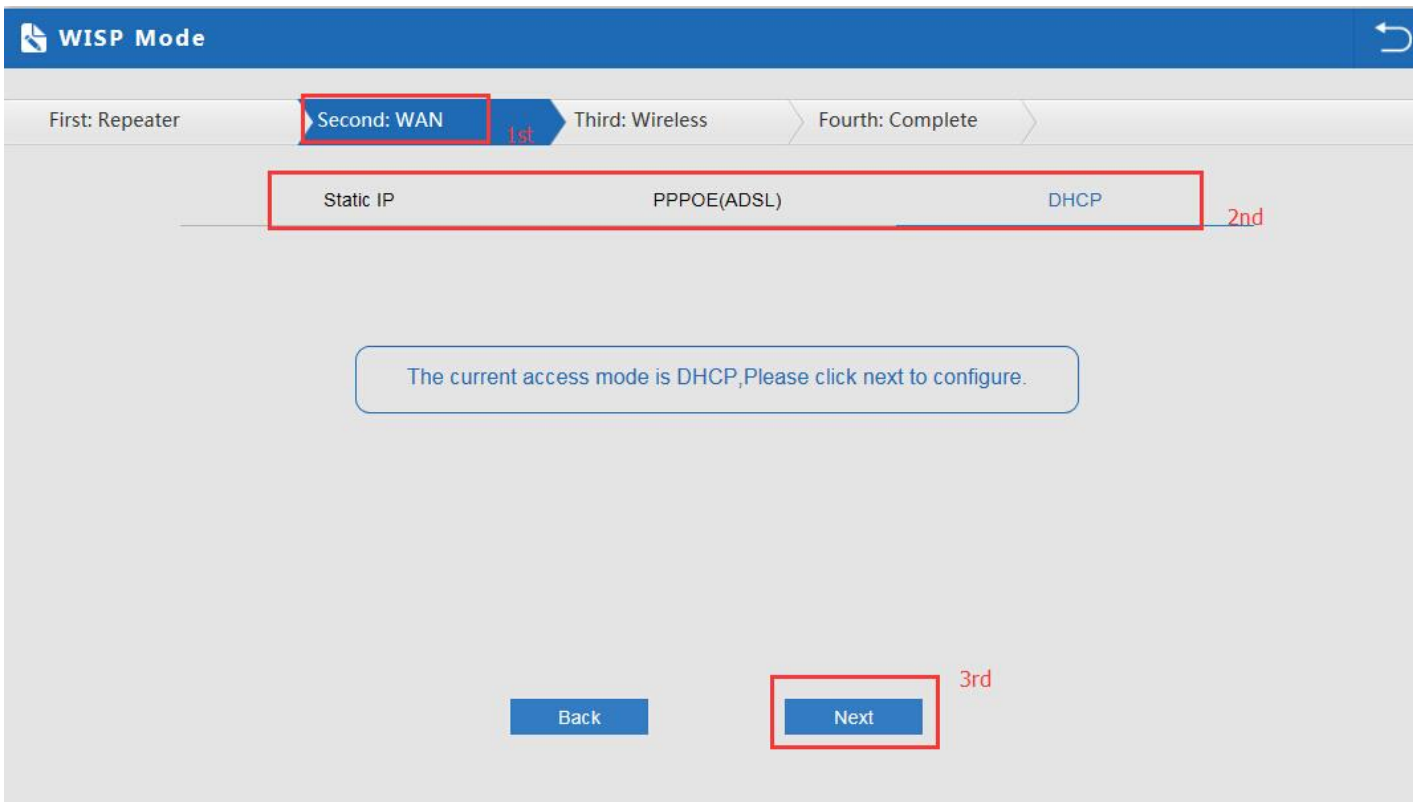
Click WISP operation mode in Wizard, then will pop up the configure page, please set the WISP operation mode based on

the steps showed in picture:



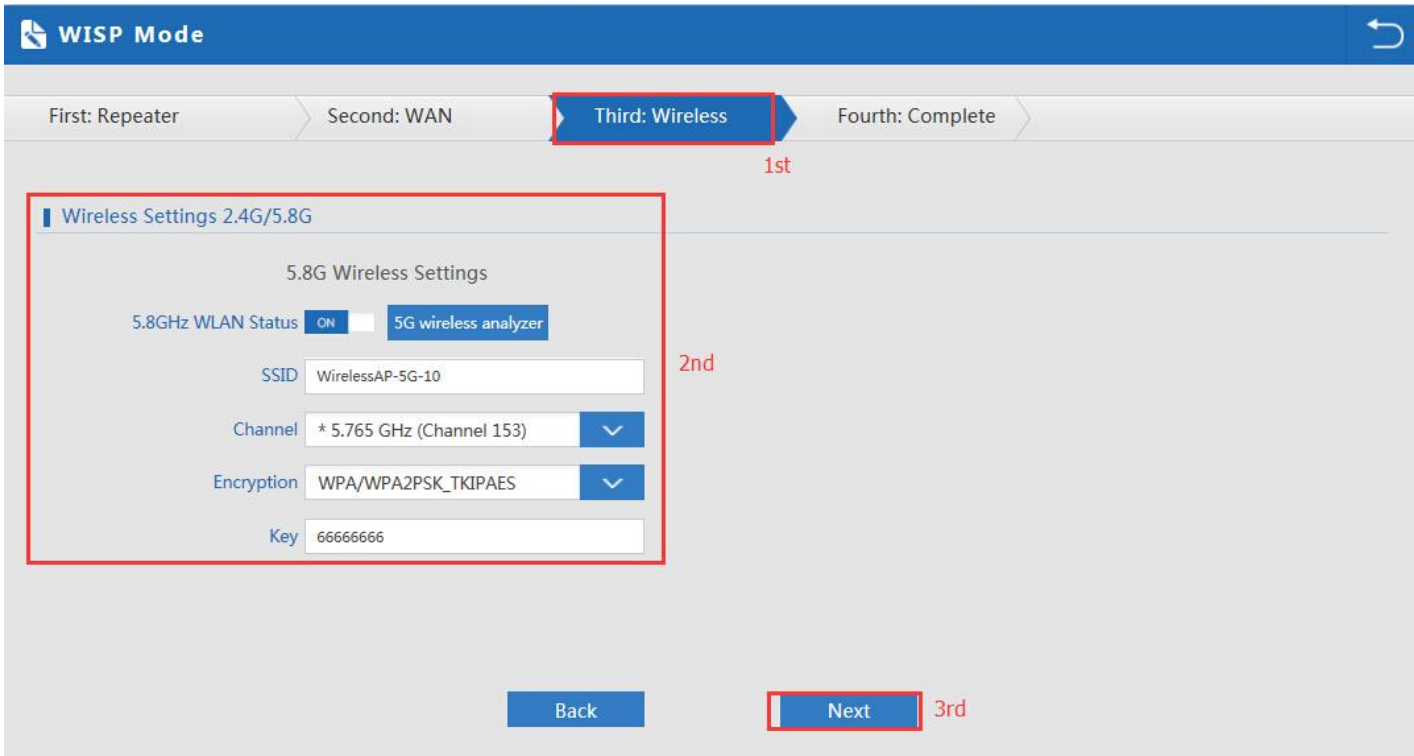
P21 WISP Mode

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



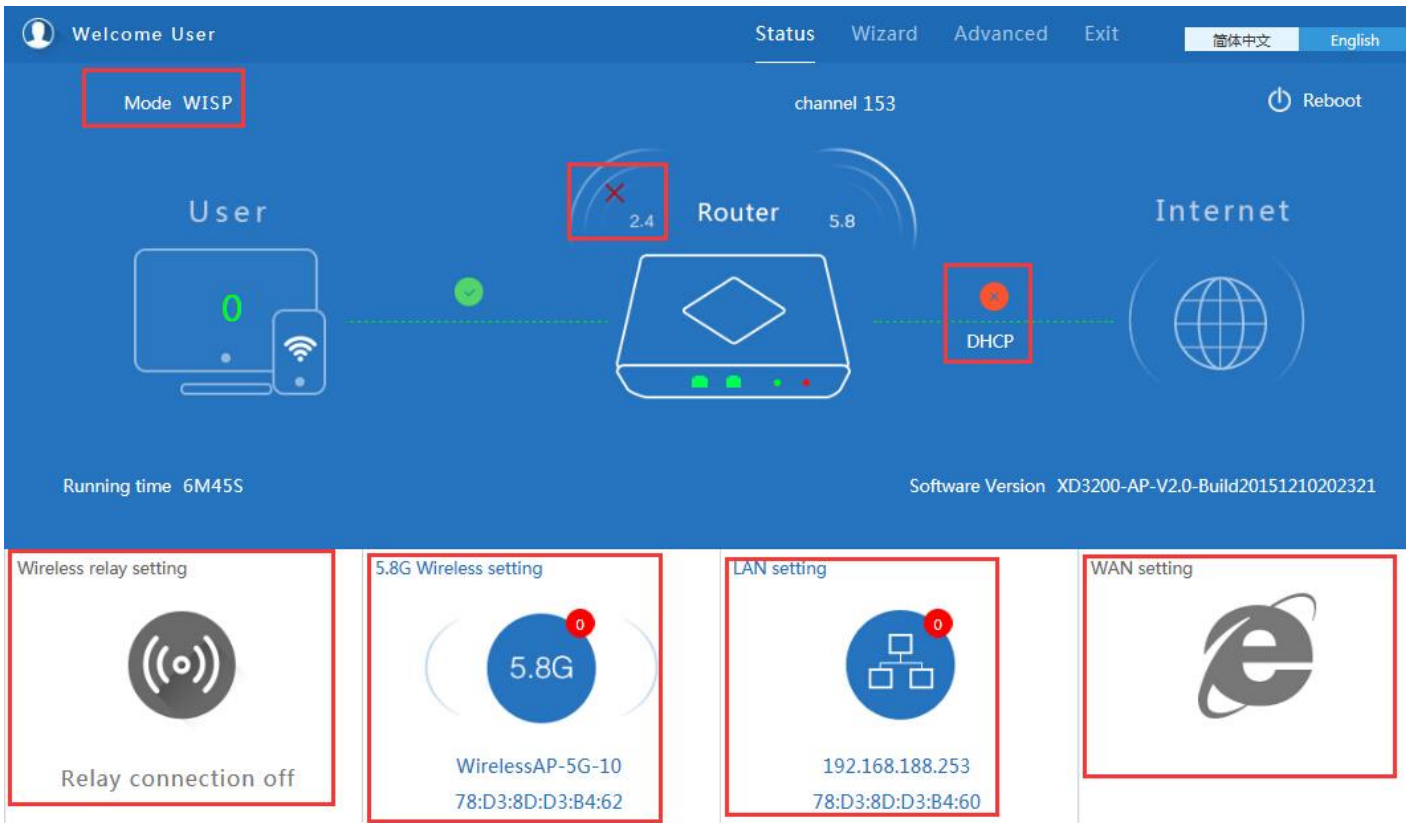
P22 WAN setting in WISP mode

Configure wireless data showed as follow:



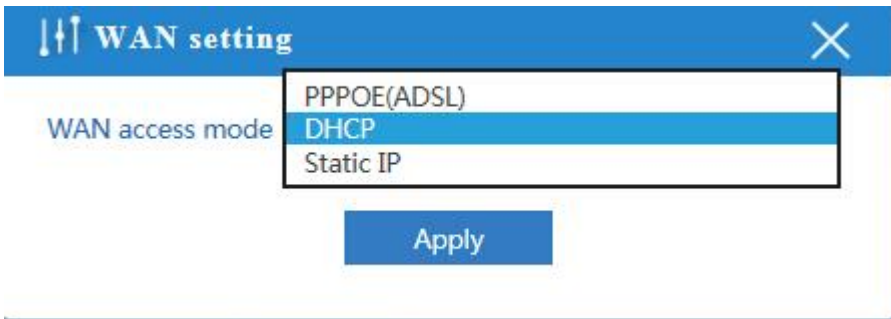
P23 Wireless Setting in WISP mode

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

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 2.4G/5.8G

2.4G Wireless Settings		5.8G Wireless Settings	
2.4GHz WLAN Status	<input checked="" type="checkbox"/> ON 2G wireless analyzer	5.8GHz WLAN Status	<input checked="" type="checkbox"/> ON 5G wireless analyzer
SSID	<input type="text" value="WirelessAP-2G-00"/>	SSID	<input type="text" value="WirelessAP-5G-10"/>
Channel	* 2.442 GHz (Channel 7) ▾	Channel	* 5.765 GHz (Channel 153) ▾
Encryption	WPA/WPA2PSK_TKIPAES ▾	Encryption	WPA/WPA2PSK_TKIPAES ▾
Key	<input type="text" value="66666666"/>	Key	<input type="text" value="66666666"/>

Location Information

AP Location AP Name

Back **Next**

P26 Wireless setting in AP Mode

AP Mode

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

LAN setting

Access Type

Back **Next**

P27 LAN Setting in AP Mode



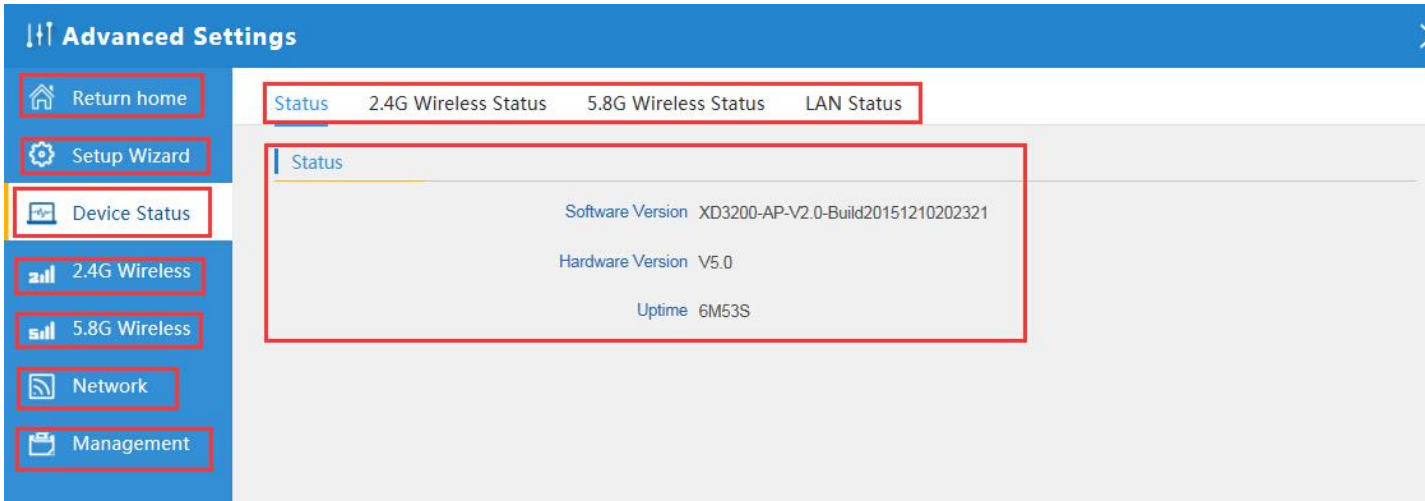
P28 Status in AP Mode

3) Advanced Setting:

In advanced setting, user can check the Outdoor CPE's firmware version, working status, 2.4G wireless, 5.8G Wireless, LAN Status, upgrade firmware, Reset...

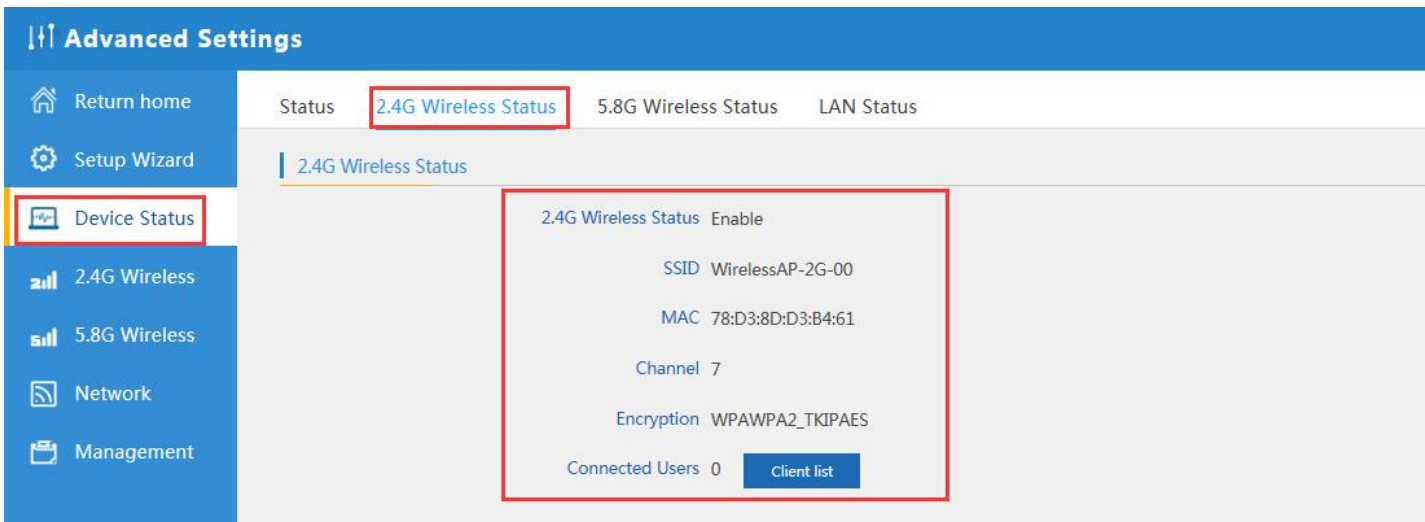
Let's Click Advanced Setting in status page, will show return home, Setup Wizard which we showed before.

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



P29 Device Status

Device Status: In this page, mainly to check the Outdoor CPE's status in firmware version, 2,4G Wireless, 5.8G Wireless and LAN status:



P30 2.4G Wireless Status

Advanced Settings

- Return home
- Setup Wizard
- Device Status**
- 2.4G Wireless
- 5.8G Wireless
- Network
- Management

Status 2.4G Wireless Status **5.8G Wireless Status** LAN Status

5.8G Wireless Status

5.8G Wireless Status: Enable

SSID: WirelessAP-5G-10

MAC: 78:D3:8D:D3:B4:62

Channel: 153

Encryption: WPAWPA2_TKIPAES

Connected Users: 0 [Client list](#)

P31 5.8G Wireless Status

Advanced Settings

- Return home
- Setup Wizard
- Device Status**
- 2.4G Wireless
- 5.8G Wireless
- Network
- Management

Status 2.4G Wireless Status 5.8G Wireless Status **LAN Status**

LAN Status

LAN IP: 192.168.188.253

Subnet Mask: 255.255.255.0

MAC: 78:D3:8D:D3:B4:60

Manage server IP: 192.168.188.1

DHCP Status: Disable

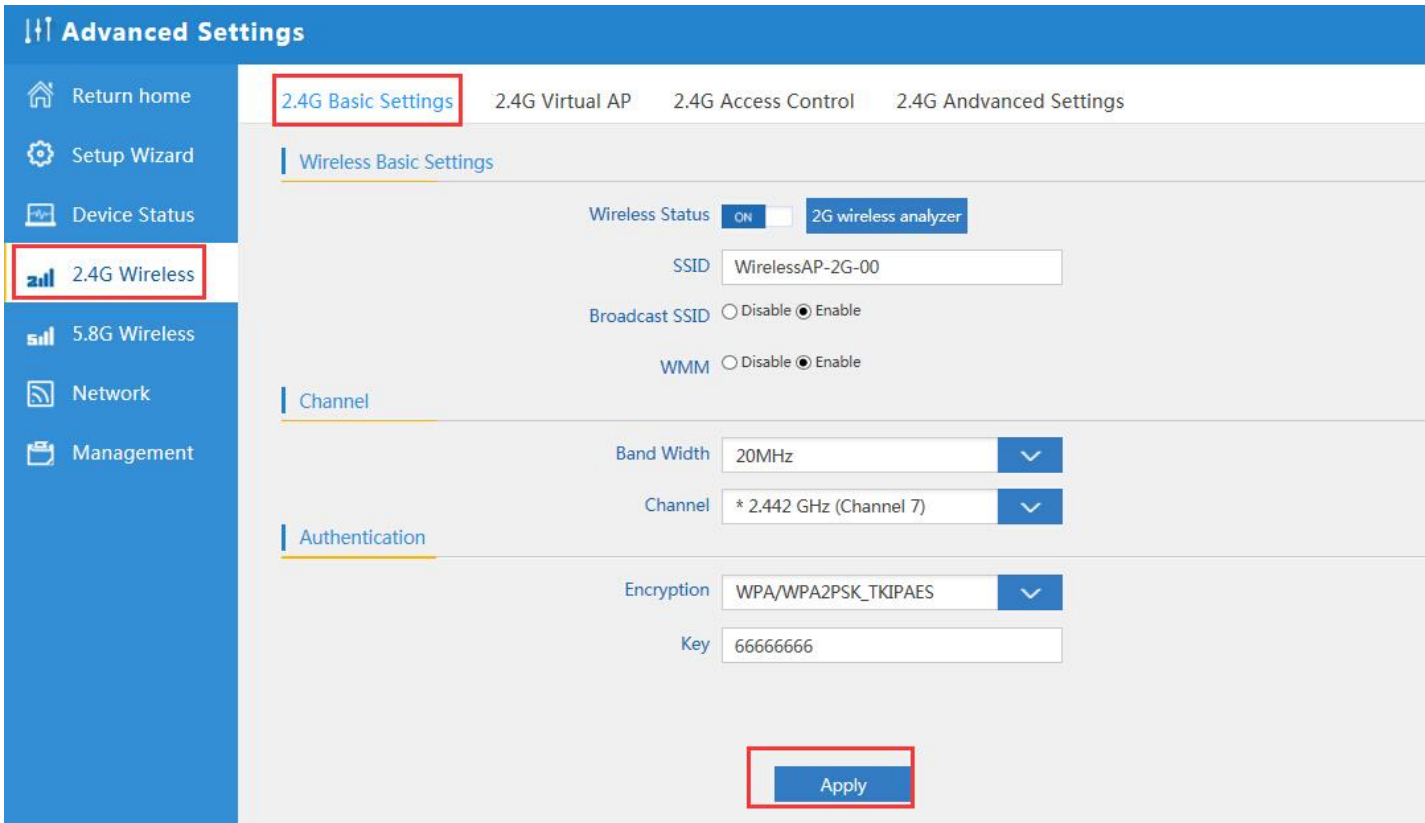
DHCP address range: 192.168.188.2 — 192.168.188.252

Assigned IP: 0 [Client list](#)

P32 LAN Status

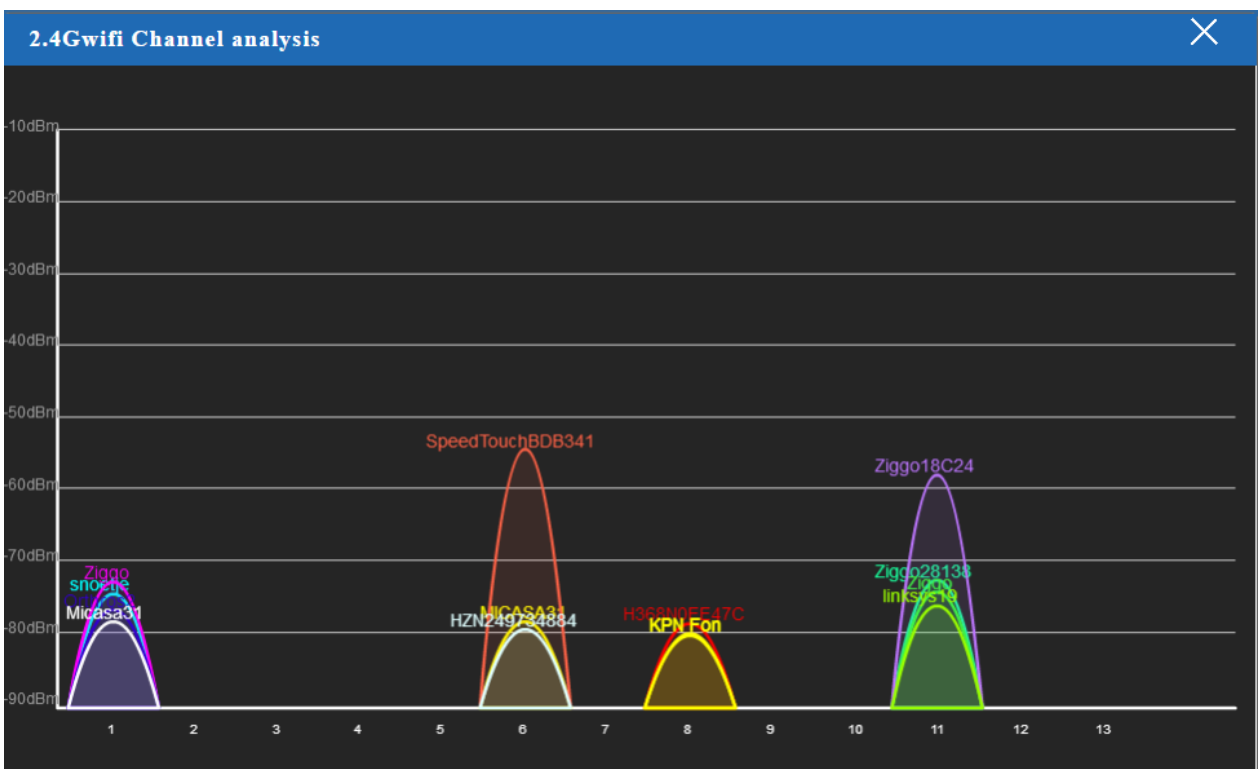
2.4G Wireless Setting:

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



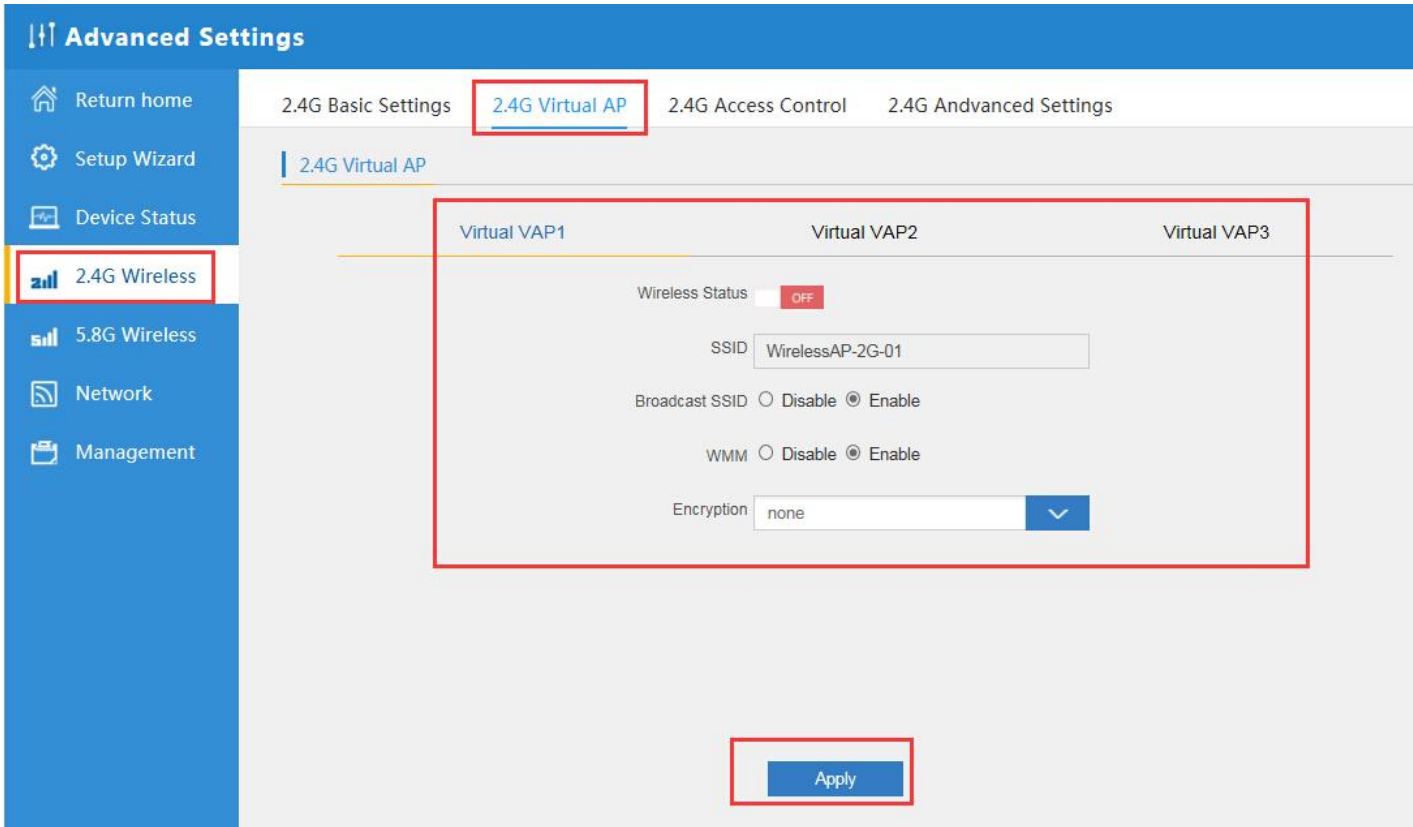
P33 Basic Setting in 2.4G Wireless

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.



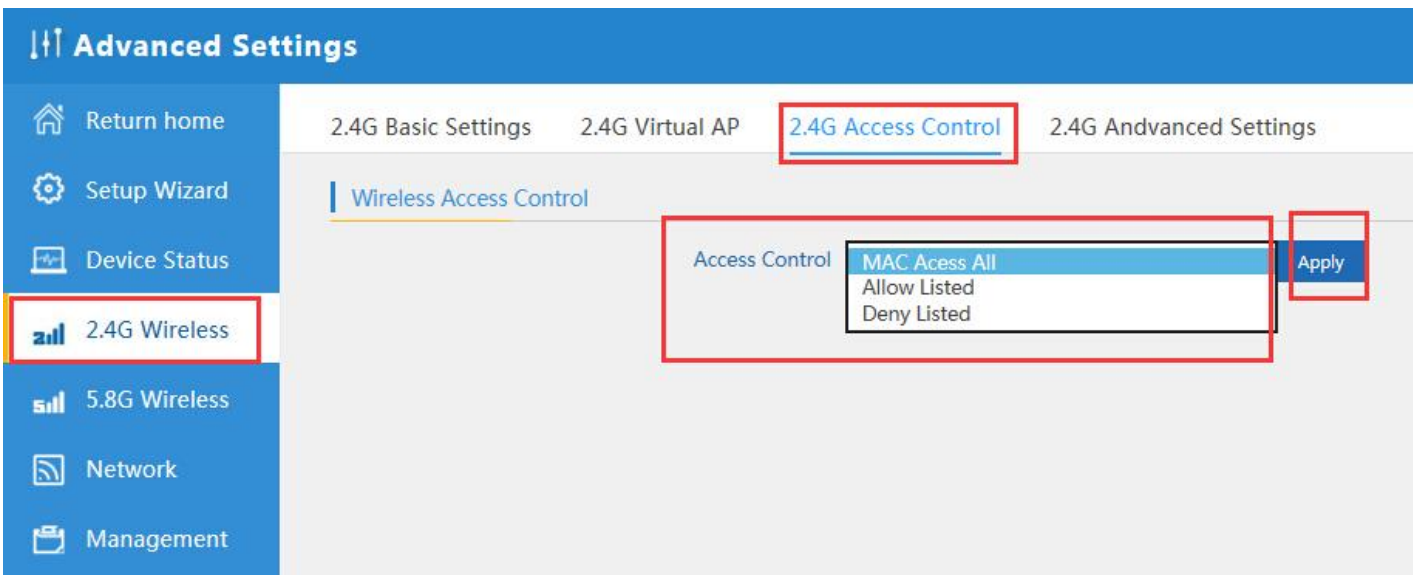
Virtual AP:

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

2.4G Access Control: Mainly show MAC allow or deny:



P36 MAC Access Control

2.4G Advanced Settings:

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

The screenshot displays the 'Advanced Settings' interface for a device. The left sidebar contains navigation options: 'Return home', 'Setup Wizard', 'Device Status', '2.4G Wireless' (highlighted with a red box), '5.8G Wireless', 'Network', and 'Management'. The main content area shows tabs for '2.4G Basic Settings', '2.4G Virtual AP', '2.4G Access Control', and '2.4G Advanced Settings' (highlighted with a red box). Below the tabs, the '2.4G Advanced Settings' section is visible, containing the following configuration items:

- Regional: China (dropdown menu)
- MODE: 802.11B/G (dropdown menu)
- RF Output Power: 100% (dropdown menu)
- Packet Threshold: 2346 (range: 256-2346)
- RTS Threshold: 2346 (range: 256-2346)
- Ack Timeout control: 64 (range: 0-255)us
- Beacon interval: 100 (range: 100-1000)ms
- MAX User: 64 (range: 0-64 0 not limited)
- Coverage Threshold: -90 (range: -65dBm~-90dBm)
- Aggregation: ON (checkbox)
- Short GI: ON (checkbox)
- User isolation: OFF (checkbox)

An 'Apply' button is located at the bottom right of the settings area, also highlighted with a red box.

P37 Advanced Setting

5.8G Wireless Setting: Almost same as 2.4G Wireless:

Advanced Settings

- Return home
- Setup Wizard
- Device Status
- 2.4G Wireless
- 5.8G Wireless**
- Network
- Management

5.8G Basic Settings 5.8G Virtual AP 5.8G Access Control 5.8G Advanced Settings

Wireless Basic Settings

Wireless Status ON 5G wireless analyzer

SSID

Broadcast SSID Disable Enable

WMM Disable Enable

Channel

Band Width

Channel

Encryption

Encryption

Key

P38 5.8G Wireless Setting

Network setting:

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

Advanced Settings

- Return home
- Setup Wizard
- Device Status
- 2.4G Wireless
- 5.8G Wireless
- Network**
- Management

LAN Settings **VLAN**

LAN Settings

Access Type: Static IP / DHCP

Apply

P39 Network Setting

Advanced Settings

- Return home
- Setup Wizard
- Device Status
- 2.4G Wireless
- 5.8G Wireless
- Network**
- Management

LAN Settings **VLAN**

VLAN

VLAN-ID(2-4094)	2.4G			5.8G				
	AP	VAP1	VAP2	VAP3	AP	VAP1	VAP2	VAP3
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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P40 Tag VLAN Setting

Management:

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

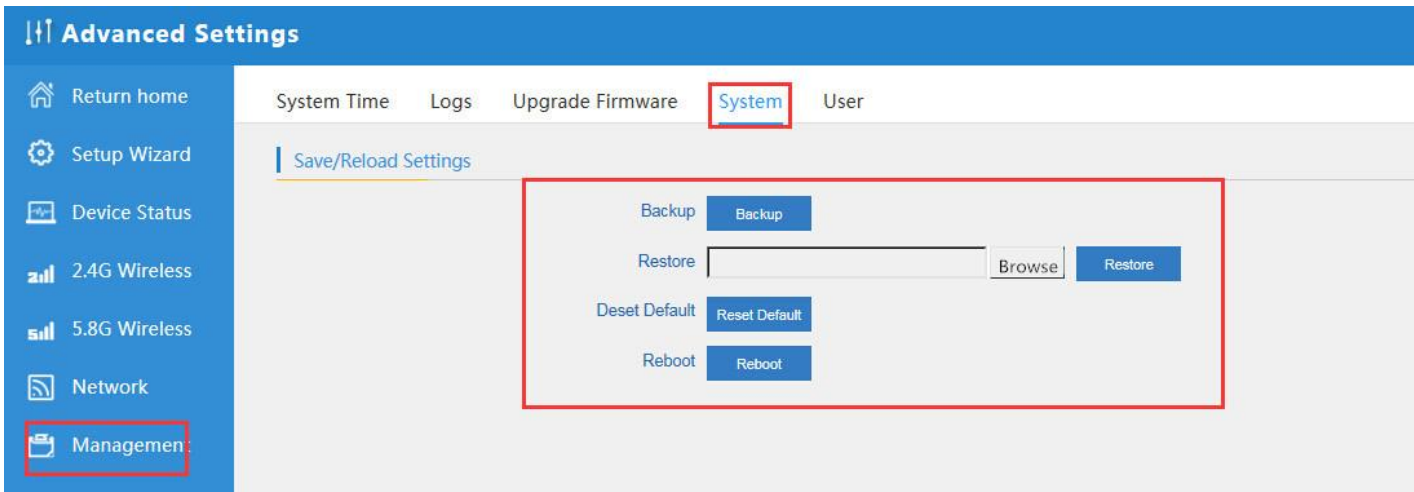
And we show System time, how to upgrade firmware and system page to users:

The screenshot displays the 'Advanced Settings' page with a sidebar on the left containing navigation options: Return home, Setup Wizard, Device Status, 2.4G Wireless, 5.8G Wireless, Network, and Management. The 'Management' option is highlighted with a red box. The main content area shows a navigation bar with 'System Time', 'Logs', 'Upgrade Firmware', 'System', and 'User'. The 'System Time' page is active, showing the current system time as 2015-10-30 11:16:34 and a 'Sync with host' button. Below this, there are three dropdown menus: 'Choose Time Zone' (set to Beijing, Chongqing, Urumqi, Re-Hong Kong, Taiwan), 'NTP Server' (set to time.windows.com), and 'Equipment timing' (with an unchecked checkbox and 'Auto restart' set to 23:00). An 'Apply' button is located at the bottom right of the configuration area.

P41 System Time

The screenshot displays the 'Advanced Settings' page with the 'Upgrade Firmware' option highlighted in the navigation bar. The 'Management' option in the sidebar is also highlighted with a red box and labeled '1st'. The 'Upgrade Firmware' page shows the current software version as XD3200-AP-V2.0-Build20151210202321. Below this, there is a 'Choose File' input field with a 'Browse' button and an 'Upgrade' button, both highlighted with red boxes. A note at the bottom states: 'Note do not power off the device during the upload because it may crash the system!' with a red circle icon. The 'Upgrade' button is labeled '4th' and the note is labeled '5th'.

P42 Firmware Upgrade

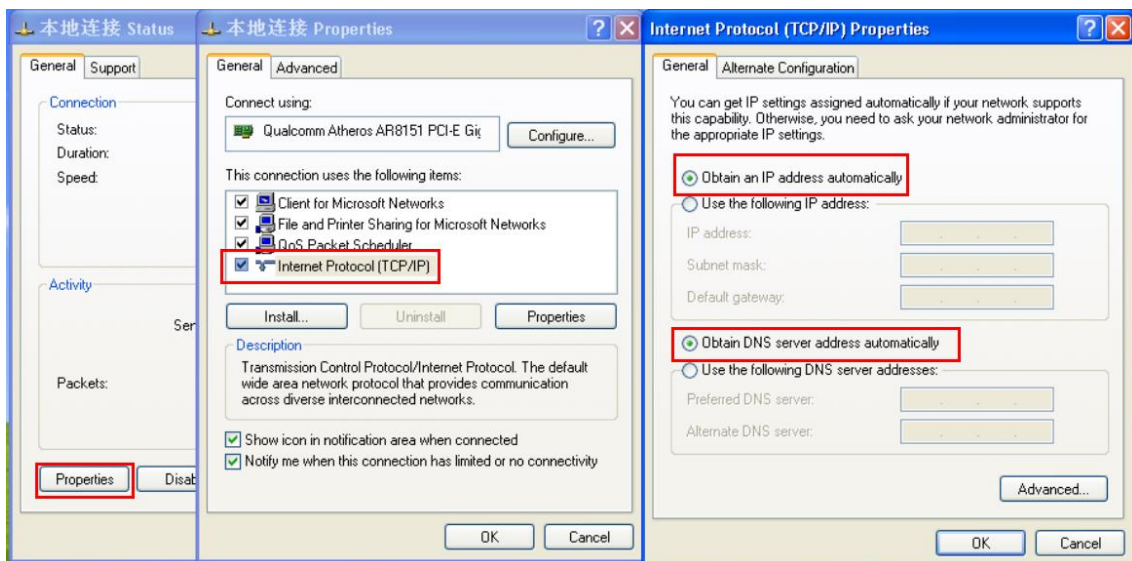


P43 System info

4th 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.



Trouble Shooting:

F 1 The Failure phenomenon and solution

Failure phenomenon	Solution
Can't land to Outdoor CPE through Web page	<p>Pls check the IP address of computer and Outdoor CPE 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 Outdoor CPE connectivity.</p> <p>Reset Outdoor CPE and load it again;</p> <p>Pls make sure the IP address 192.168.188.253 is not occupied by other device in Outdoor CPE's networking;</p> <p>Check computer and cable problem, recommend to use 10/100M UTP unshielded cable;</p> <p>Clean up Arp binding from "Start"- "Run" input "cmd" arp -d</p> <p>Clean the IE Brower's temporary files and Cache file。</p>
Outdoor CPE can't connect with AP (the status display unconnected)	<p>Try to scan the available wireless networking again;</p> <p>Make sure the Outdoor CPE's wireless standard (11b/g/n, 2.4G) is correct;</p> <p>The Security and passwords are matched between Outdoor CPE and AP;</p> <p>The signal strength of AP is too weak to connect, should be more than -75dBm;</p>
Can't scan the Outdoor CPE	<p>Scan it several times more;</p> <p>Make sure there are 5G signal existed.</p> <p>Reset the Outdoor CPE, scan it again after Outdoor CPE restart;</p>
The connection of Outdoor CPE and AP is success, but the computer can't share internet	<p>Pls 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, pls contact with ISP for correct IP address and DNS address.</p>