



User Manual of 11 ac 1200Mbps Outdoor CPE NWA220

This is the user manual of 11ac 1200Mbps Outdoor CPE, which will approximate guide you how to set and apply the NWA 200 Outdoor CPE

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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.



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: 192.168.2.200

Username: admin

Password: admin

- 1) Connect the Outdoor CPE 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.
- 3) Input 192.168.2.200 into IE browser, then pop up the login page, the default login user name: Admin, Passwords: admin.

3rd: WEB GUI interface Setting

1 Status

After login, then P7 Device Status will be showed:



Device Status

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

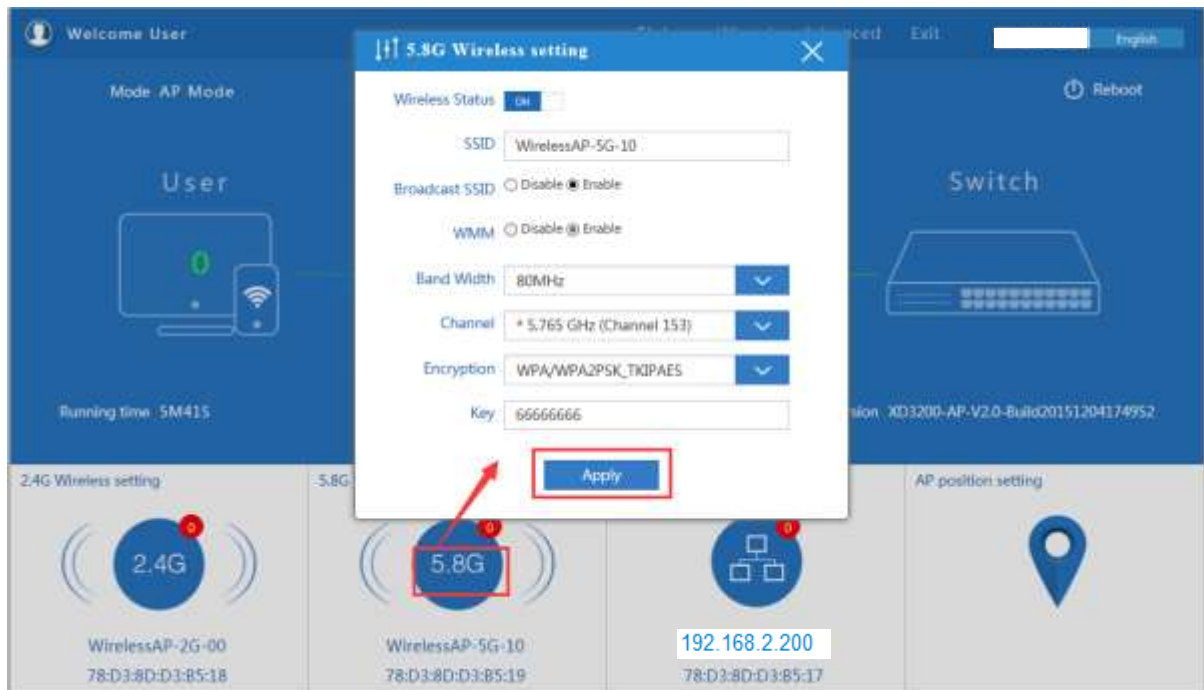
Then in 2.4G Wireless Setting, GUI configuration page showed as below:

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



2.4G Wireless setting

5.8G Wireless Setting GUI configuration setting showed as:



5.8G Wireless Setting

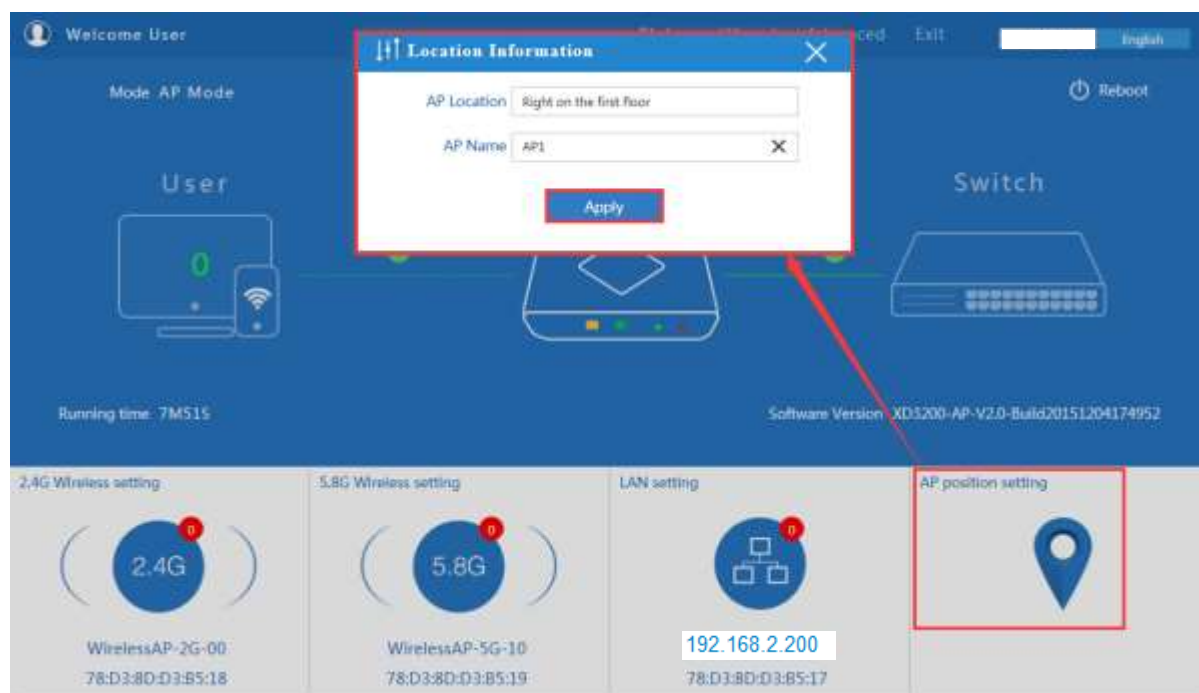


LAN Setting to configure the DHCP or Fix IP



LAN Setting

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



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.

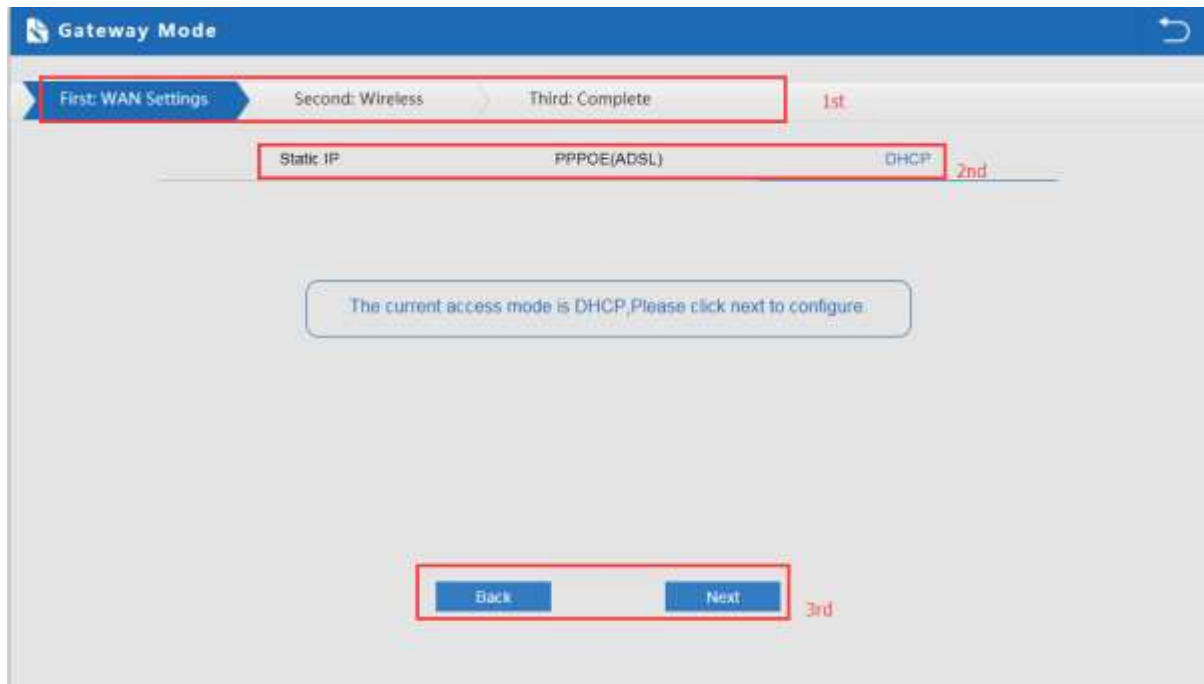


Operation mode

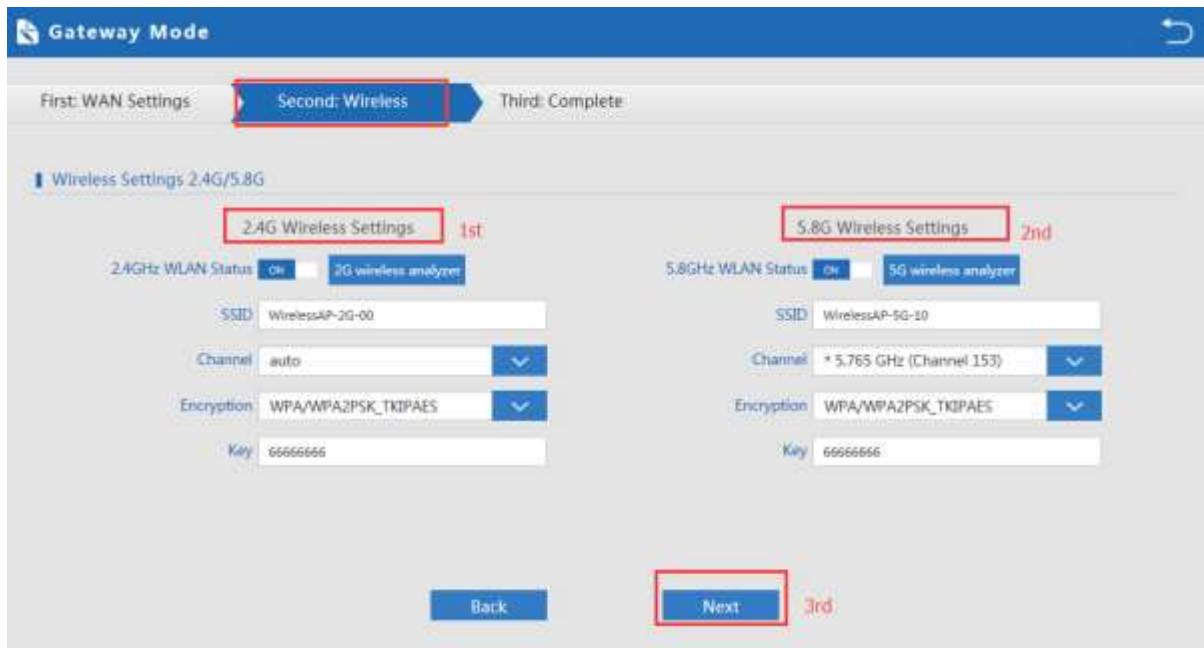
1. Gateway Mode:

Click Gateway mode, will pop up following pictures:

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



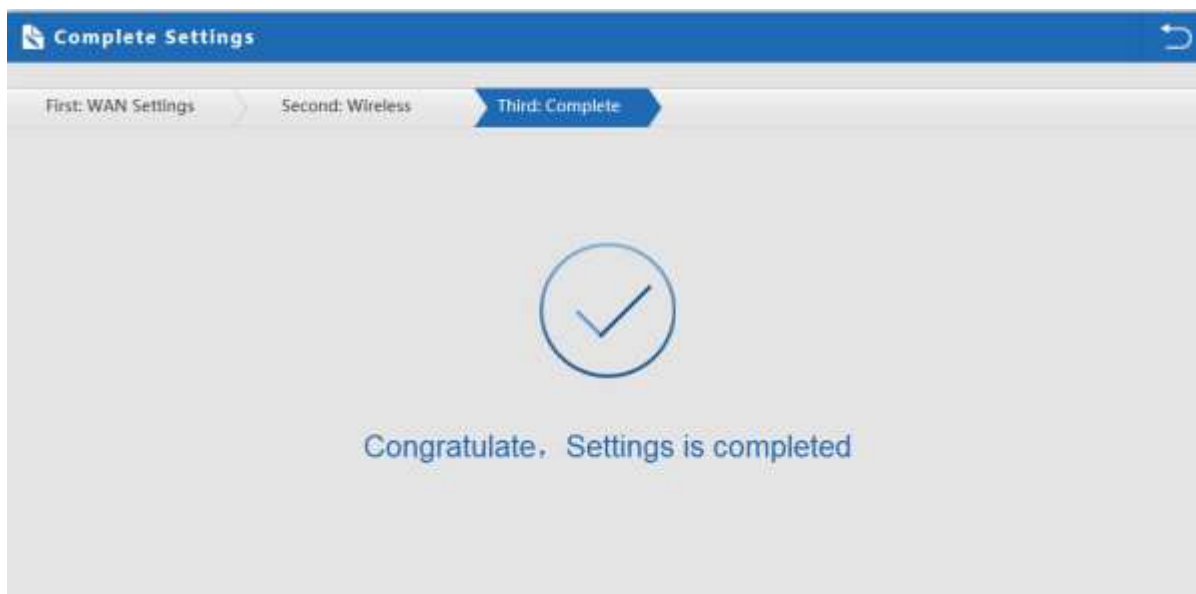
WAN setting in Gateway Mode



Wireless Setting in Gateway Mode



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



Complete the setting in Gateway Mode

When return to Status, the page showed as follow:

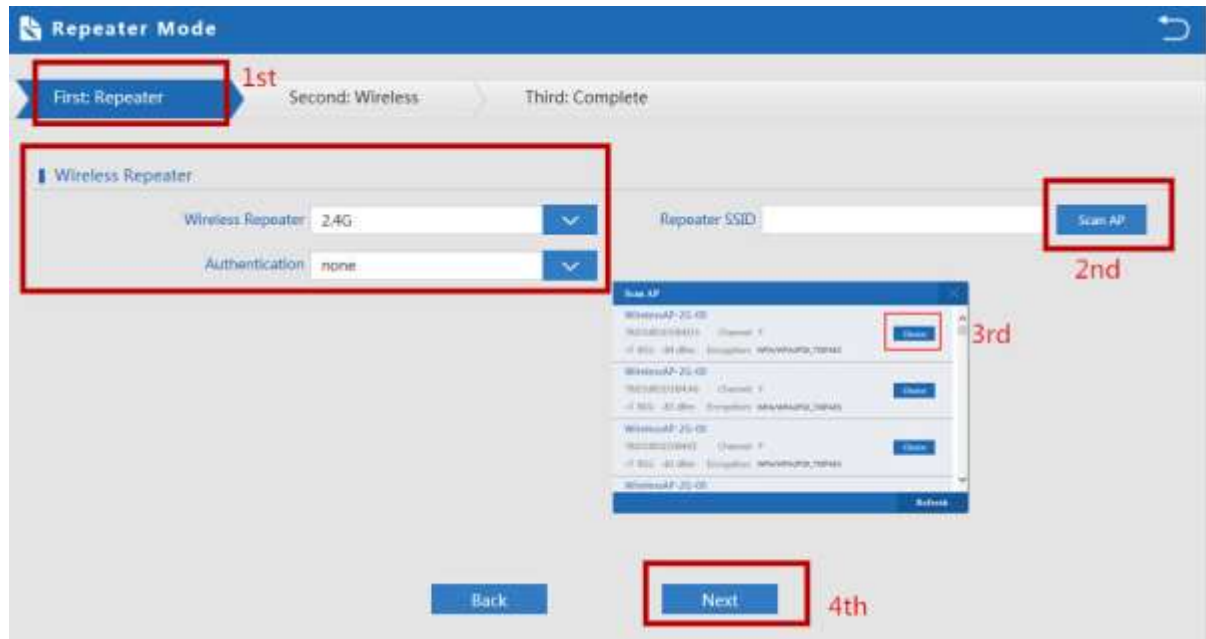


Status in Gateway Mode



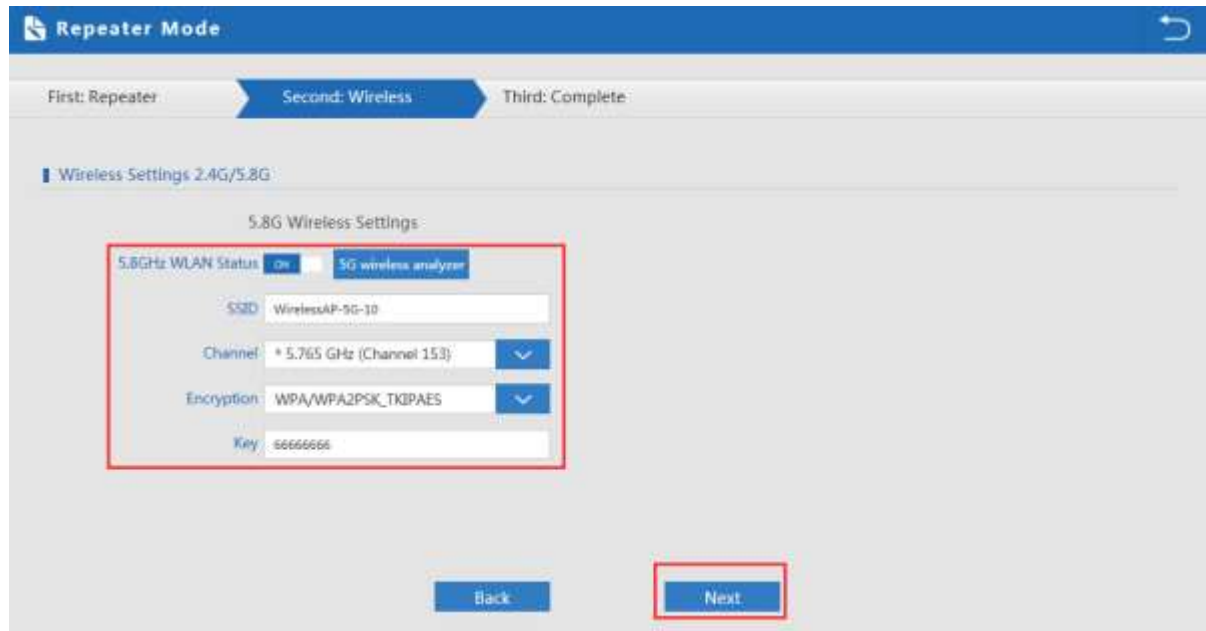
2. WiFi Repeater mode

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



Repeater Mode

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



P17 Wireless Setting in Repeater Mode

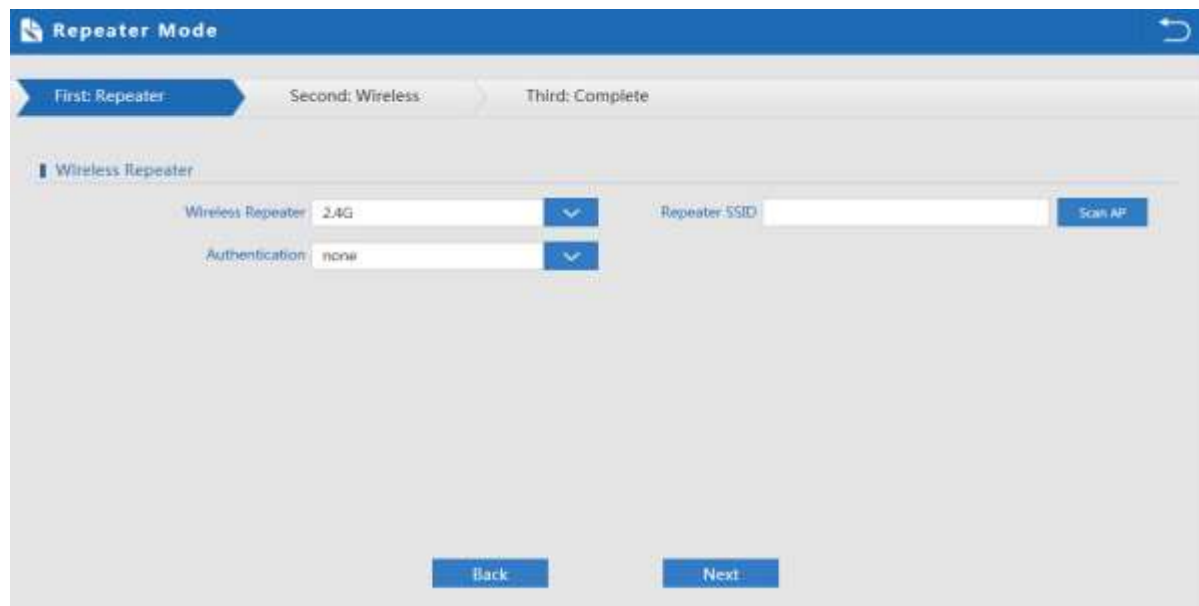


Click Return button, will back to Status, show Repeater mode data, show fail or success, and user can configure this data in this page if required.



Status in Repeater Mode

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



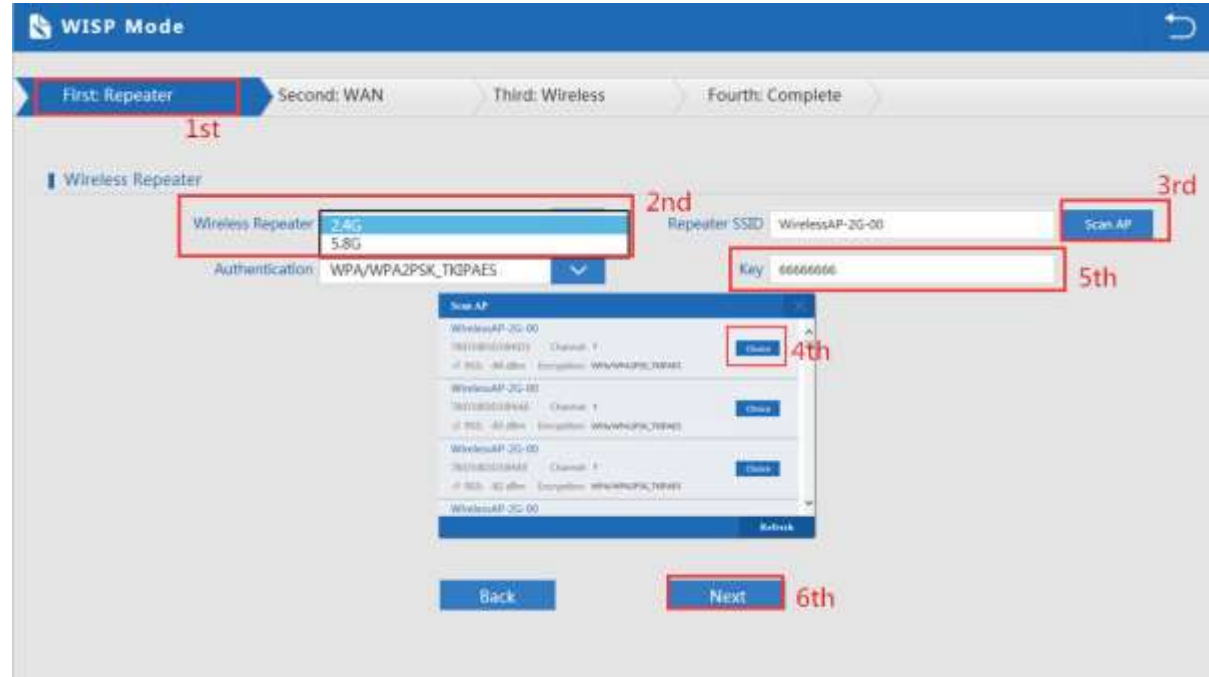
Wireless Relay Setting



3. WISP Operation mode:

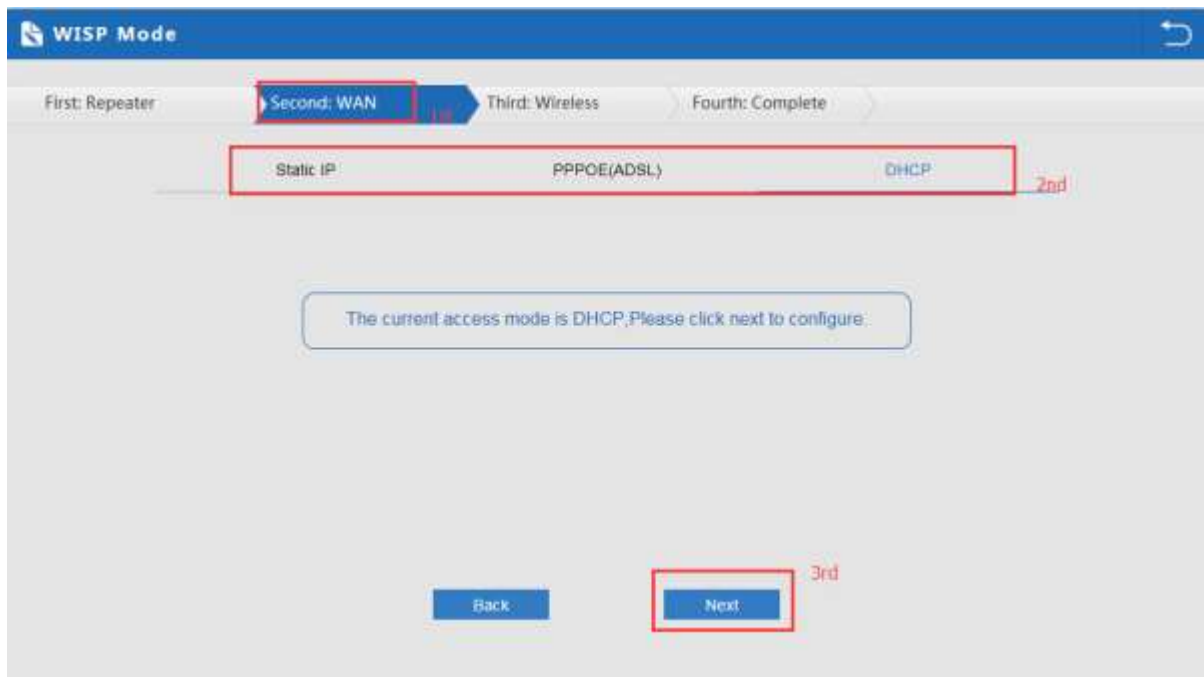
Click WISP operation mode in Wizard, then will pop up the configure page, please set the WISP operation mode based on

the steps showed in picture:



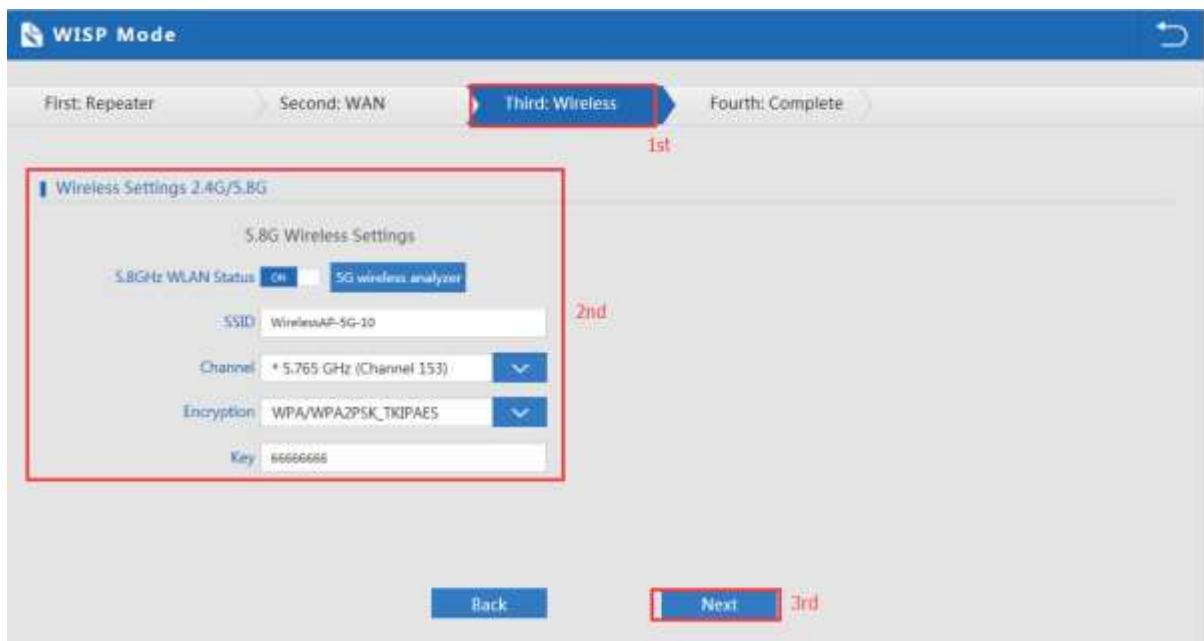
WISP Mode

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



WAN setting in WISP mode

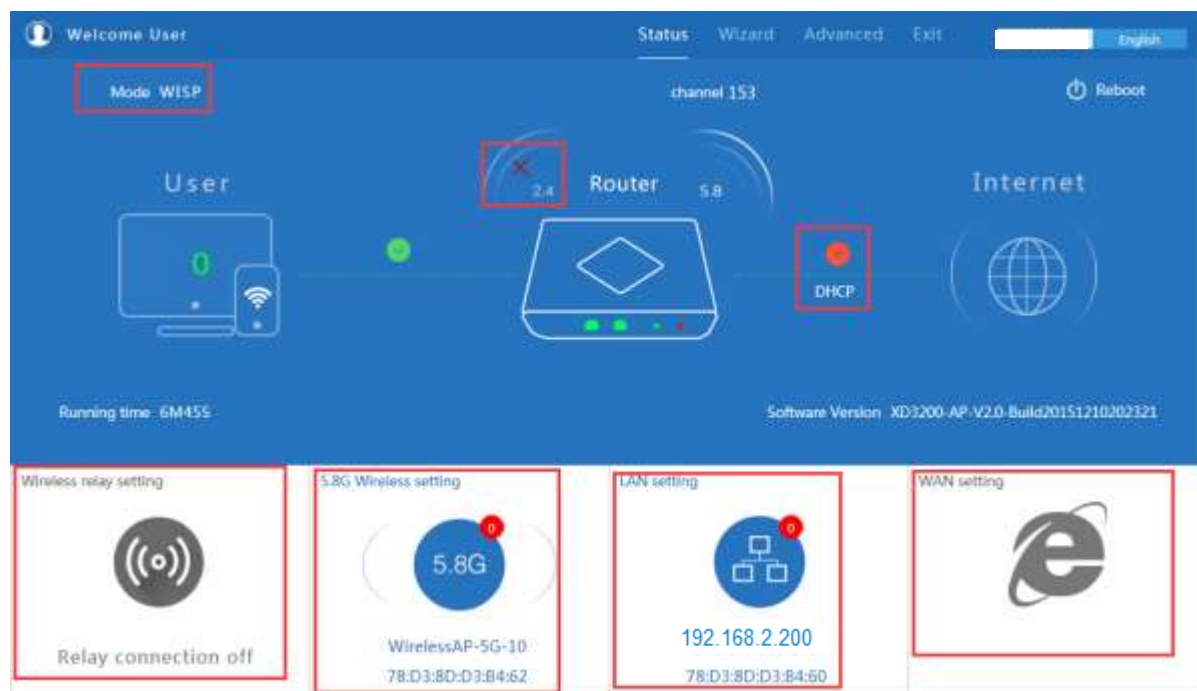
Configure wireless data showed as follow:



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:



Status in WISP mode

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



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:

The screenshot shows the 'AP Mode' configuration interface. At the top, there are three progress steps: 'First: Wireless', 'Second: LAN', and 'Third: Complete'. The 'First: Wireless' step is highlighted with a red box. Below this, the 'Wireless Settings 2.4G/5.8G' section is outlined in red. It contains two columns of settings: '2.4G Wireless Settings' and '5.8G Wireless Settings'. Each column has a 'WLAN Status' toggle set to 'on', a 'wireless analyzer' button, an 'SSID' field, a 'Channel' dropdown menu, an 'Encryption' dropdown menu, and a 'Key' field. Below the wireless settings is the 'Location Information' section, also outlined in red, with 'AP Location' and 'AP Name' text input fields. At the bottom, there are 'Back' and 'Next' buttons, with the 'Next' button highlighted by a red box.

Wireless setting in AP Mode

The screenshot shows the 'AP Mode' configuration interface. At the top, there are three progress steps: 'First: Wireless', 'Second: LAN', and 'Third: Complete'. The 'Second: LAN' step is highlighted with a red box. Below this, the 'LAN setting' section is outlined in red. It contains an 'Access Type' dropdown menu with 'Static IP' selected and 'DHCP' as an option. At the bottom, there are 'Back' and 'Next' buttons, with the 'Next' button highlighted by a red box.

LAN Setting in AP Mode



Status in AP Mode

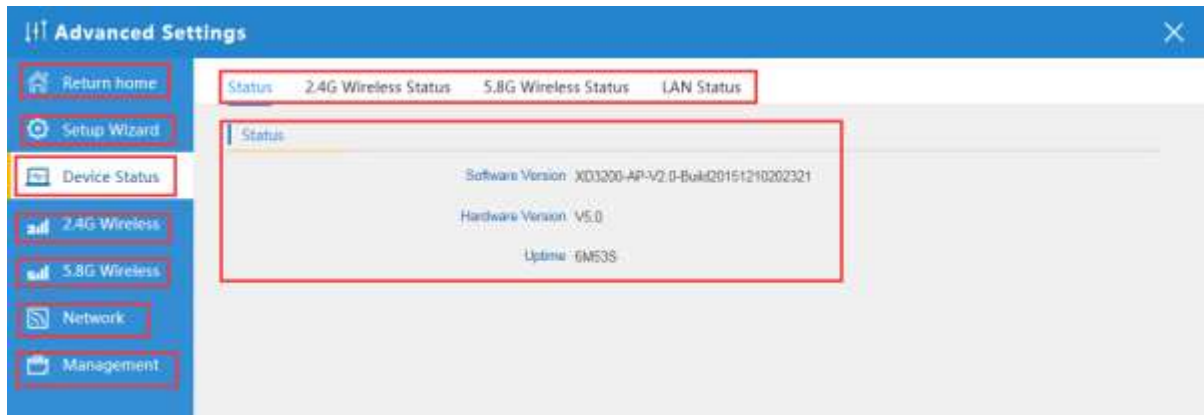
3) Advanced Setting:

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.



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:



The screenshot shows the 'Advanced Settings' interface with the '2.4G Wireless Status' tab selected. The 'Device Status' menu item is highlighted. A red box highlights the wireless status details:

- 2.4G Wireless Status: Enable
- SSID: WirelessAP-2G-00
- MAC: 78:D3:8D:D3:B4:61
- Channel: 7
- Encryption: WPAWPA2_TKIPAES
- Connected Users: 0
- Client list button

2.4G Wireless Status

The screenshot shows the 'Advanced Settings' interface with the '5.8G Wireless Status' tab selected. The 'Device Status' menu item is highlighted. A red box highlights the wireless status details:

- 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 button

5.8G Wireless Status

The screenshot shows the 'Advanced Settings' interface with the 'LAN Status' tab selected. The 'Device Status' menu item is highlighted. A red box highlights the LAN configuration details:

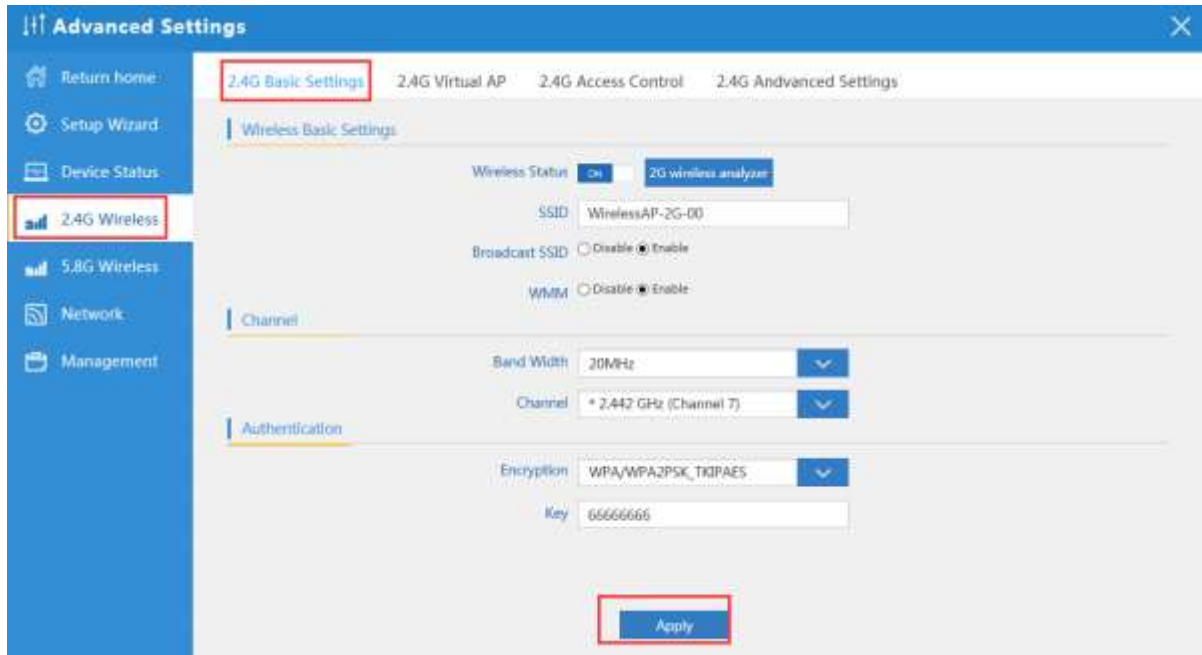
- LAN IP: 192.168.2.200
- Subnet Mask: 255.255.255.0
- MAC: 78:D3:8D:D3:B4:60
- Manage server IP: 192.168.188.1
- DHCP Status: Disable
- DHCP address range: 192.168.2.200 - 192.168.2.252
- Assigned IP: 0
- Client list button



LAN Status

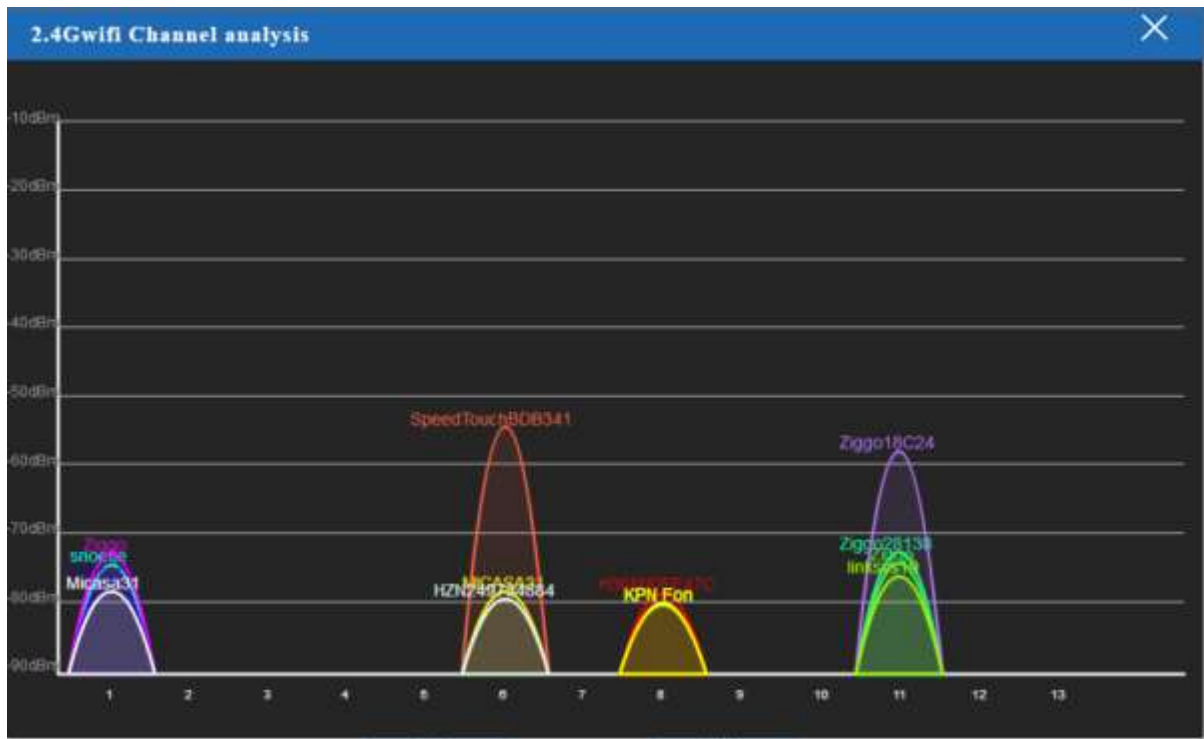
2.4G Wireless Setting:

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



Basic Setting in 2.4G Wireless

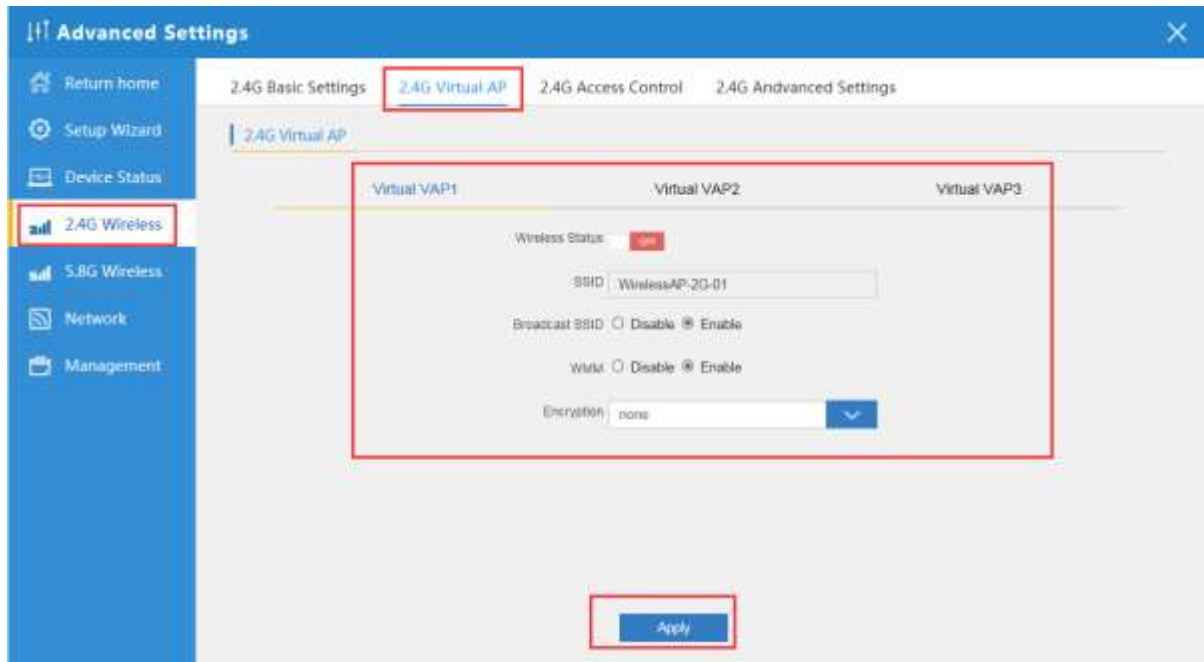
2G Wireless Analyzer: Mainly to analyze the AP's signal strength in some channel, to make user more easy to choose the right channel and avoid the Wi-Fi interface.



Wireless Analyzer

Virtual AP:

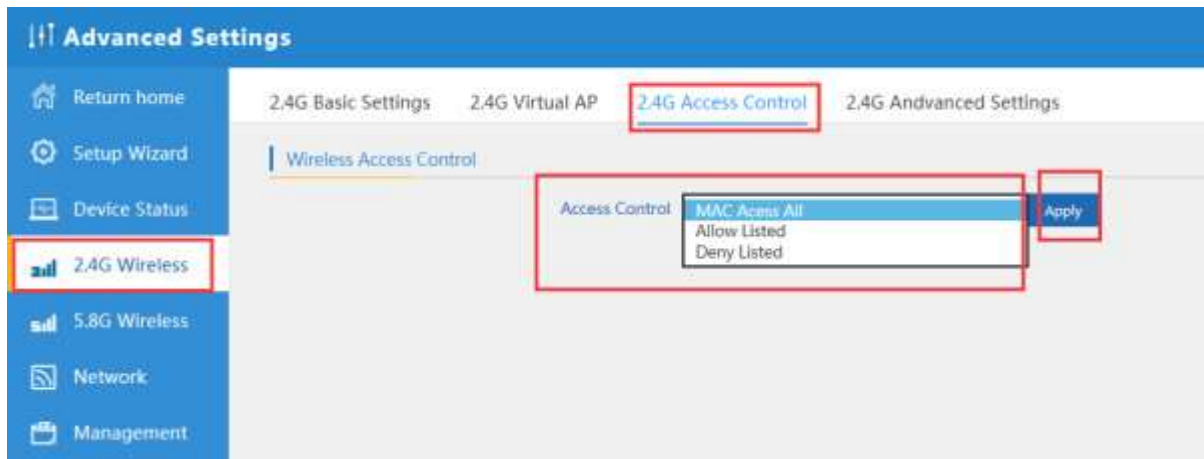
There are 3 virtual AP in 2.4G wireless, if need virtual SSID, then users can configure it showed in following picture:



Virtual AP



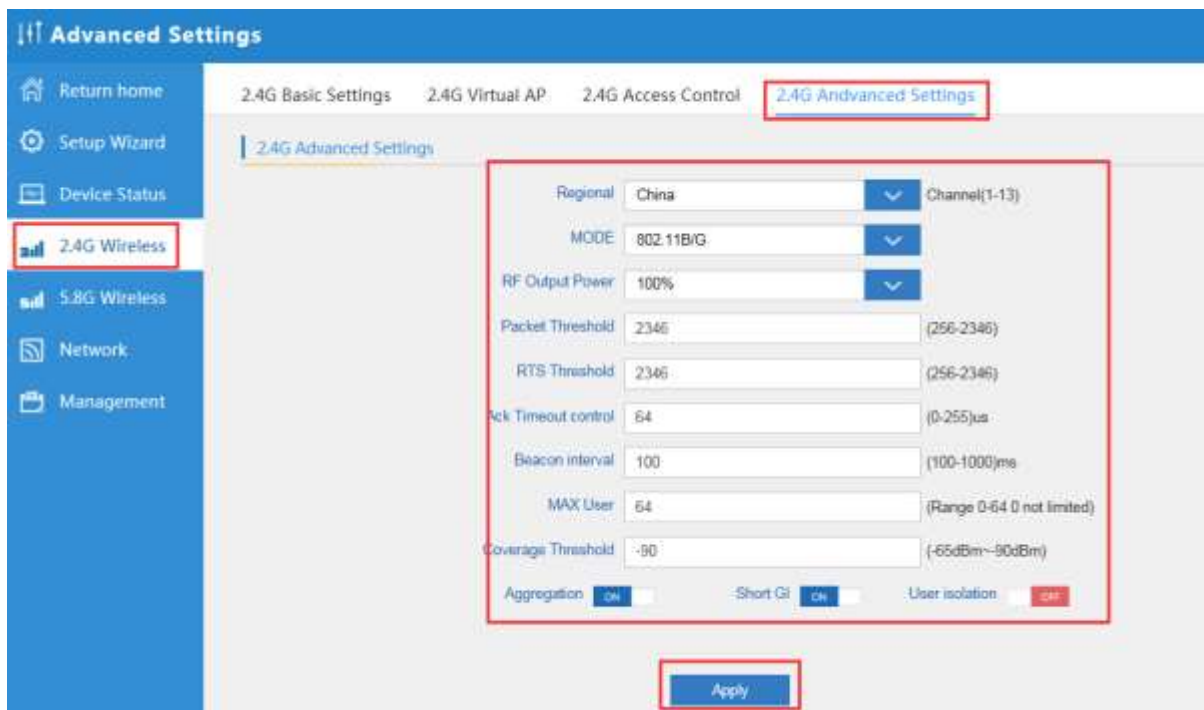
2.4G Access Control: Mainly show MAC allow or deny:



MAC Access Control

2.4G Advanced Settings:

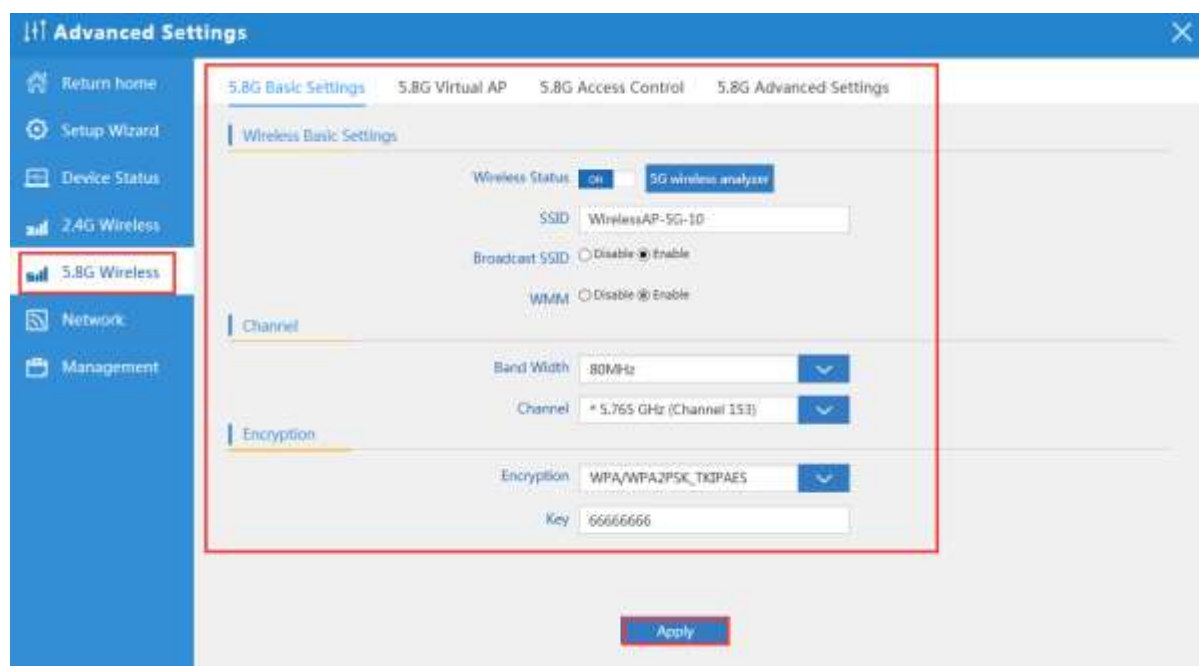
In this page, will show the regional, RF Power, Max user access...



Advanced Setting



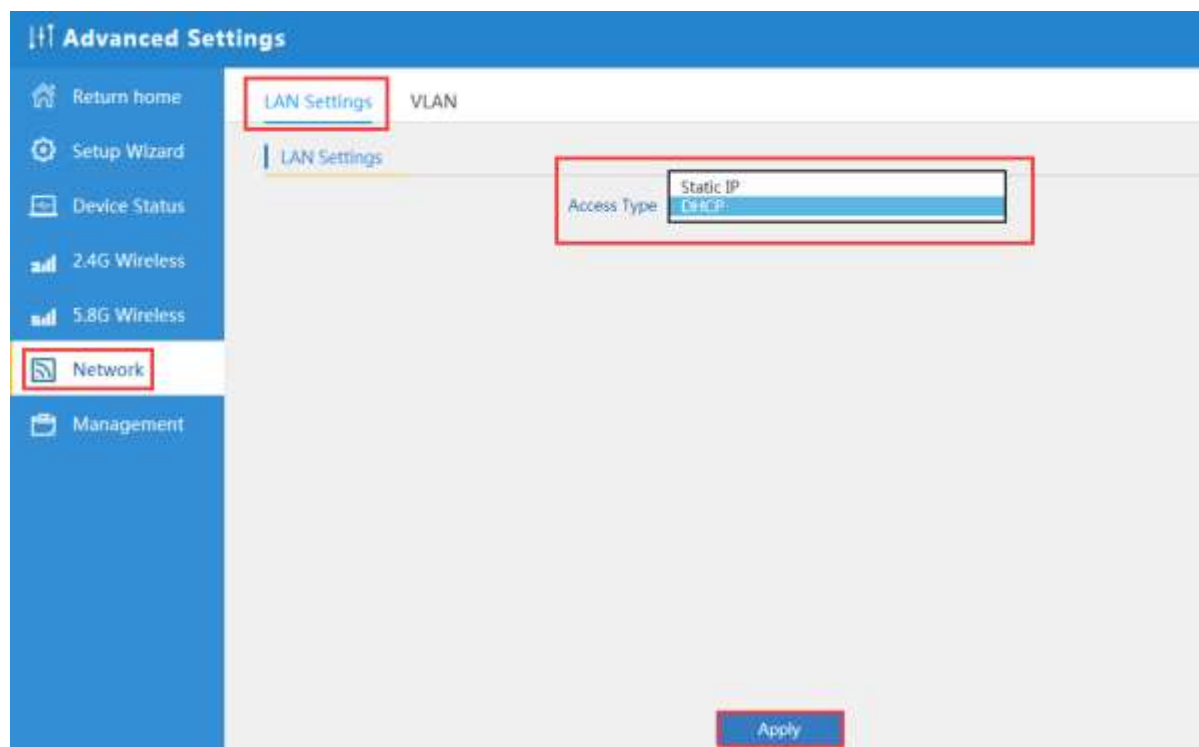
5.8G Wireless Setting: Almost same as 2.4G Wireless:



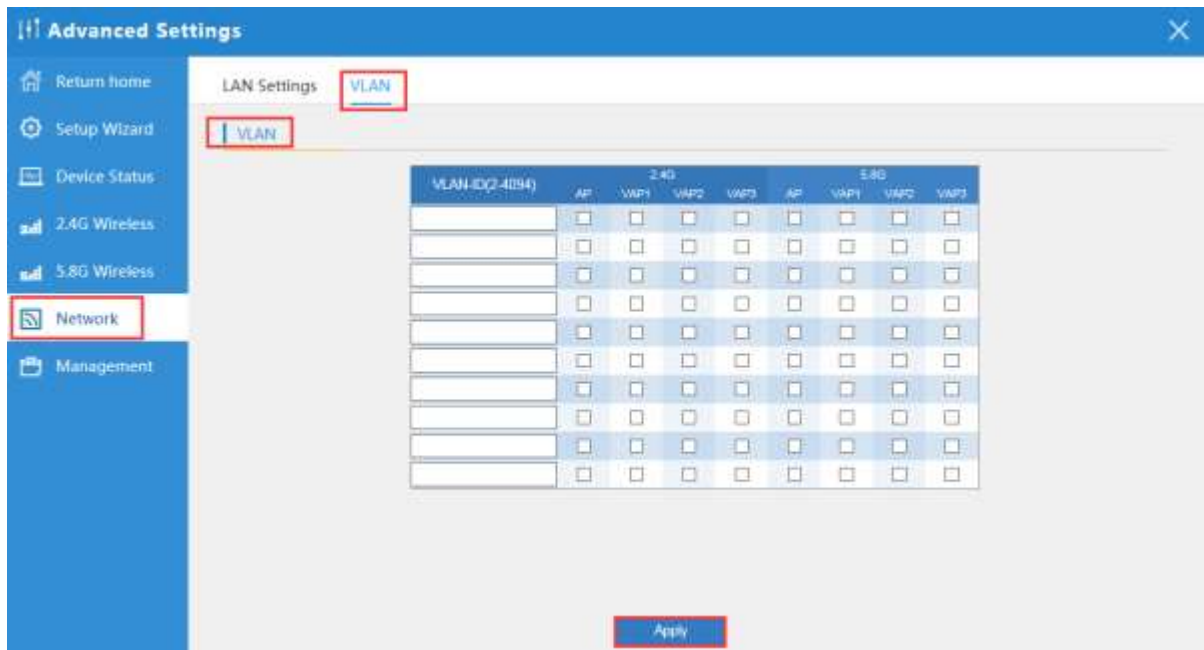
5.8G Wireless Setting

Network setting:

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



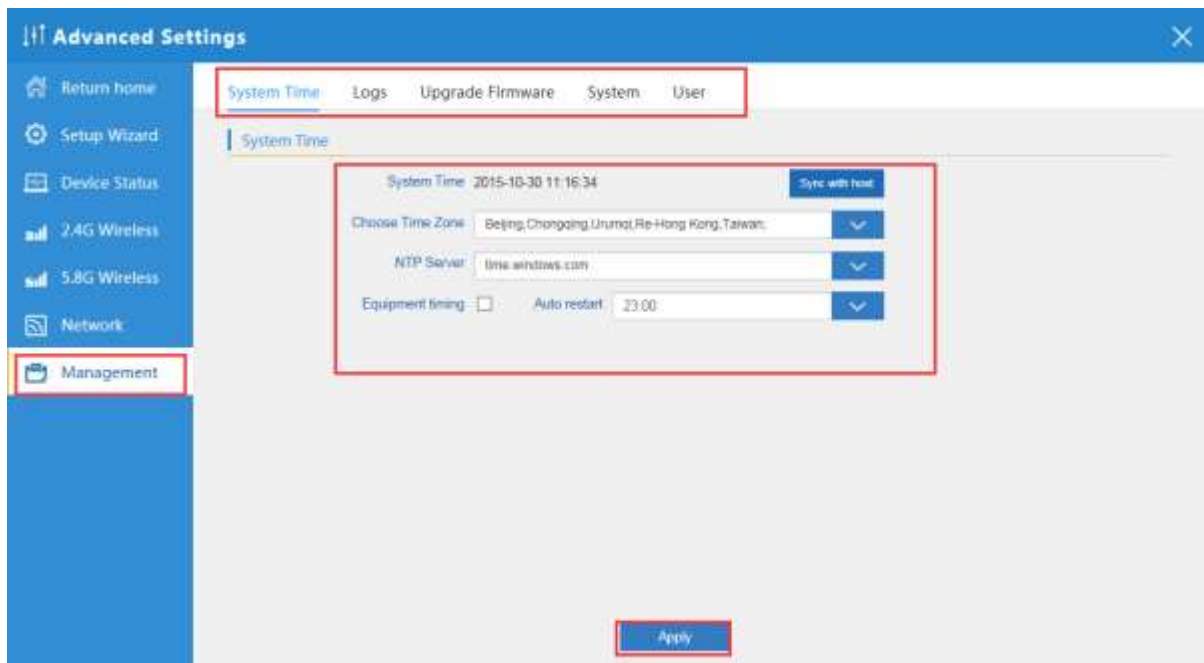
Network Setting



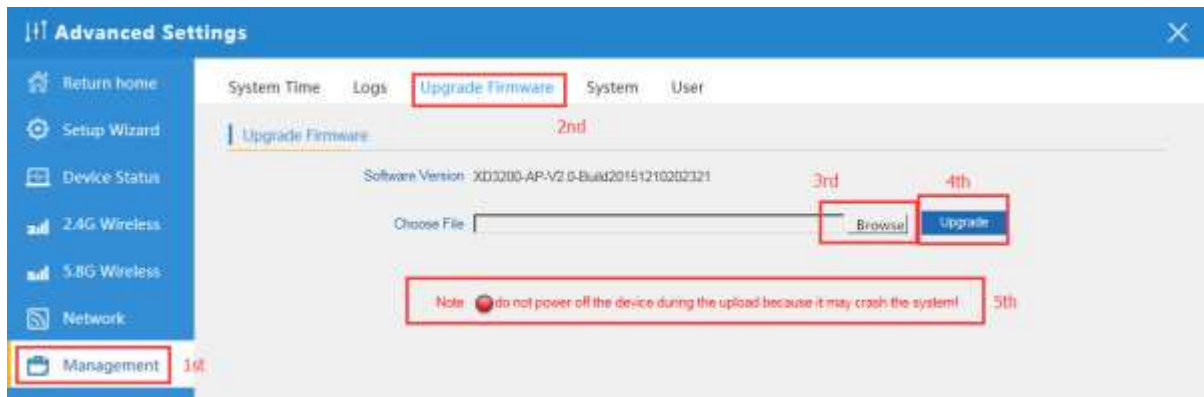
Tag VLAN Setting

Management:

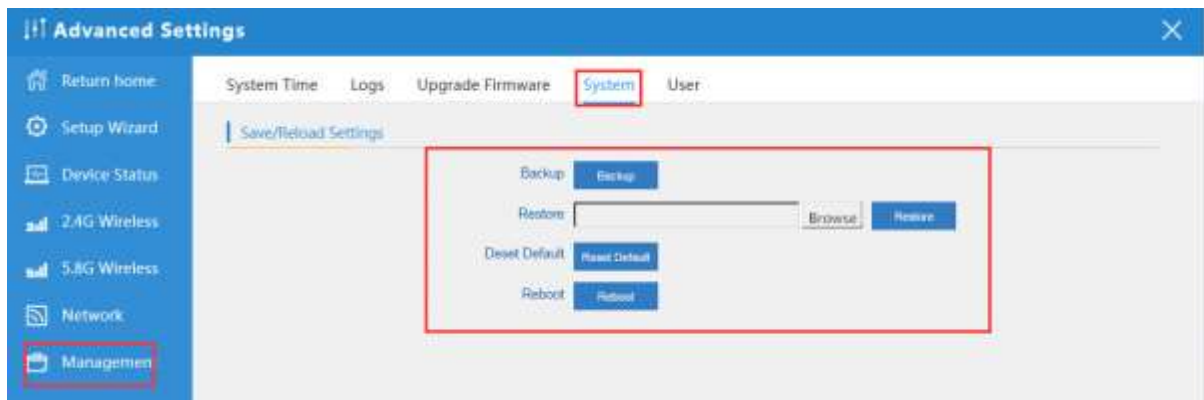
In this part, show the system time, Logs, upgrade firmware, system, user info. And we show System time, how to upgrade firmware and system page to users:



System Time



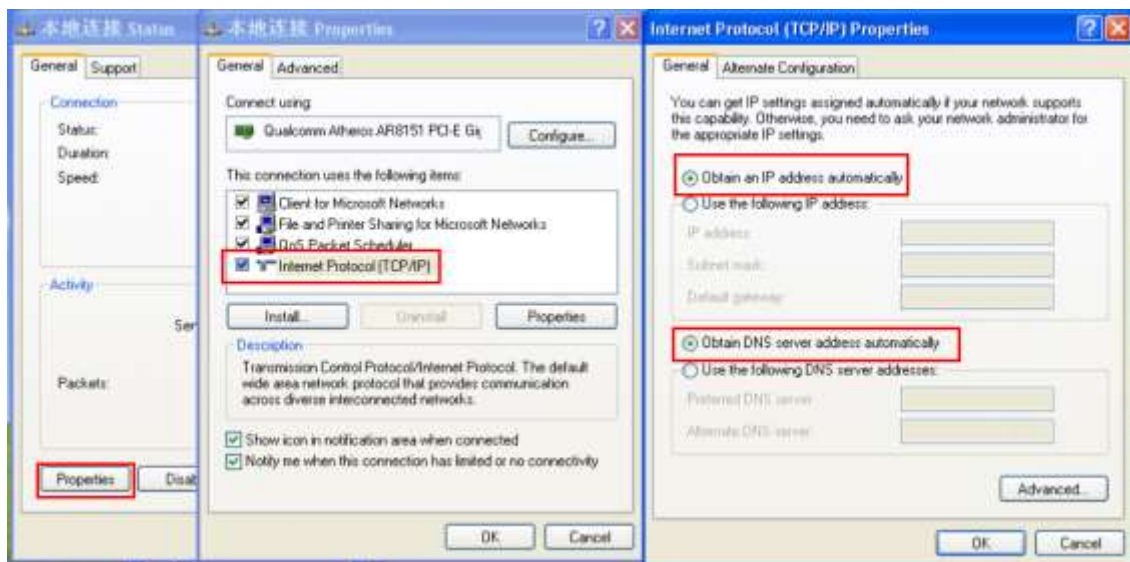
Firmware Upgrade



System info

4th 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.





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 192.168.2.200 to test the Outdoor CPE connectivity.</p> <p>Reset Outdoor CPE and load it again;</p> <p>Pls make sure the IP address 192.168.2.200 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>