User Manual

(WAP-8123)

HW: V1
UM: V1. 0

Default Settings

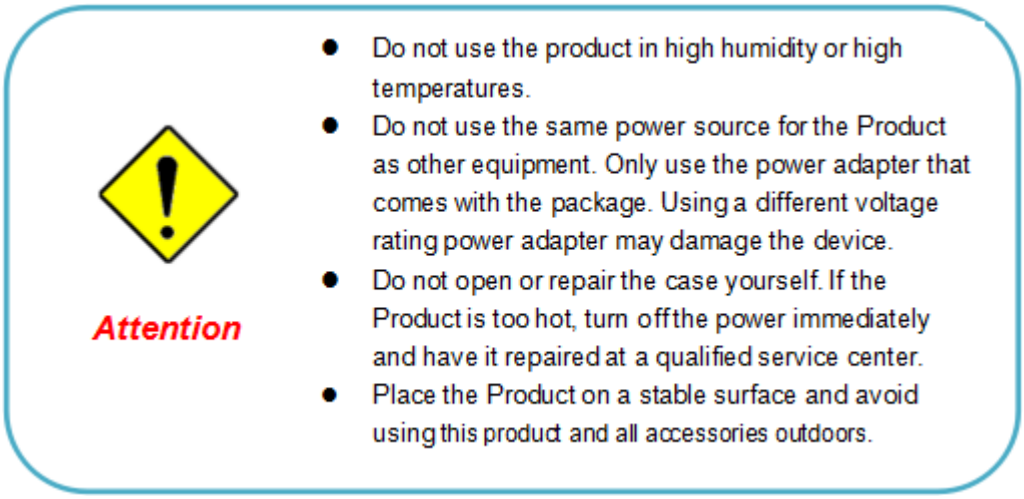
IP Address	192.168.188.253
Password	admin
WiFi SSID	LevelOne 2.4G / LevelOne 5.8G
Password	66666666

Attention:

Check box contents:

1. Screw Kit
2. RJ45 Network Cable
3. Quick Installation Guide
4. Resource CD (User Manual, QIG)

Warning:



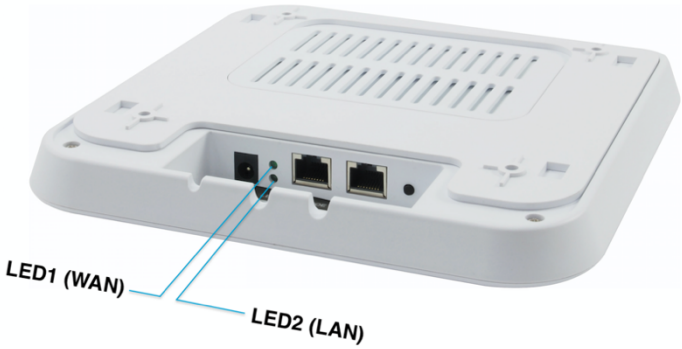
Contents

Chapter 1 Hardware and Operation mode Instruction

LED indicator:

▲ **Front View of the WAP-8123**

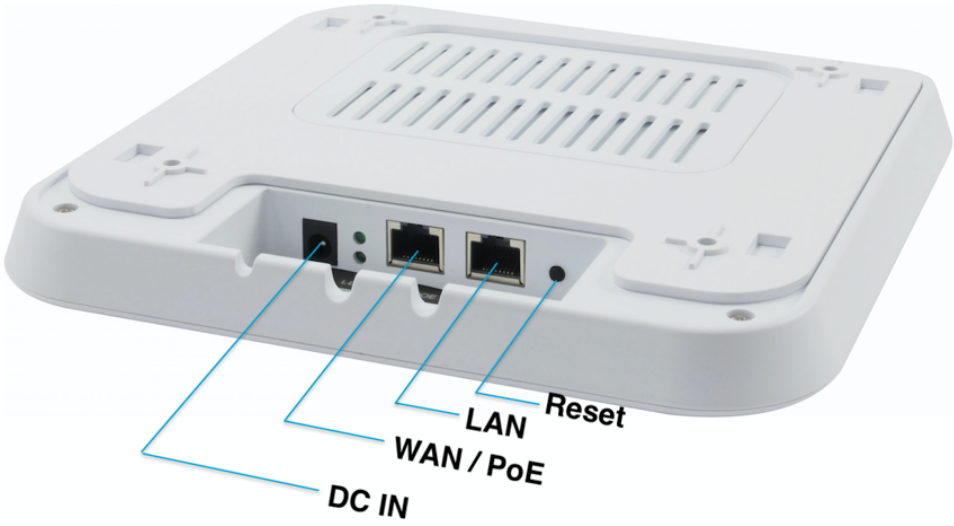
LED indicator	Color	Status	Description
SYS	Blue	On	Device Startup state
	Blue	Off	Device Startup state is completed, SYS goes out and the WIFI blue light flashes.
	Blue	Fast Blinking	Reset to Defaults
2.4G / 5G	Blue	Blinking	WIFI SSID Broadcast ON



▲ Rear View of the WAP-8123

LED	Color	Status	Description
LAN (10/100/1000Mbps RJ45 Ports)	Green	Fast Blinking	The port is transmitting/receiving packets
	Green	Solow Blinking	On LAN is connected
	--	Off	The port has no active network cable connected, or it is not established a link to connected device.
WAN (10/100/1000Mbps RJ45 Ports)	Green	Fast Blinking	The port is transmitting/receiving packets
	Green	Solow Blinking	On WAN is connected
	--	Off	The port has no active network cable connected, or it is not established a link to connected device.

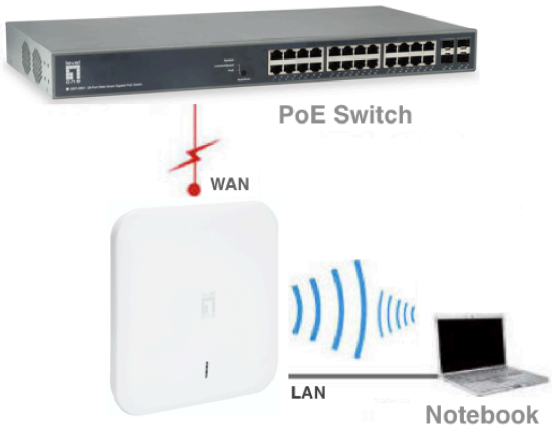
1.1 AP Interface:



LED/Button/Interface	Description
RESET (Reset to Default)	With the AP powered on, press the Reset button for 8~10 seconds until the Signal Strength LED blink faster than ever. The AP will restart itself and reset the device to factory default settings.
LAN port (10/100/1000Mbps RJ45 port)	The LAN port is used to connect to network devices, such as a switch or PC / NB
WAN / PoE port (10/100/1000Mbps RJ45 port)	The WAN/POE port is used to connect to network devices, such as a POE switch OR POE adapter to power the device (IEEE802.3at) 48 VDC. (PoE adapter unit is to be ordered separately)
DC IN	12V/1.5A DC input Power Adapter **Note:** Adapter unit is to be ordered separately

1.3 Way to supply power for this device :

1. PoE Power supply : pls make sure the PoE switch comply with IEEE 802.3at standard.



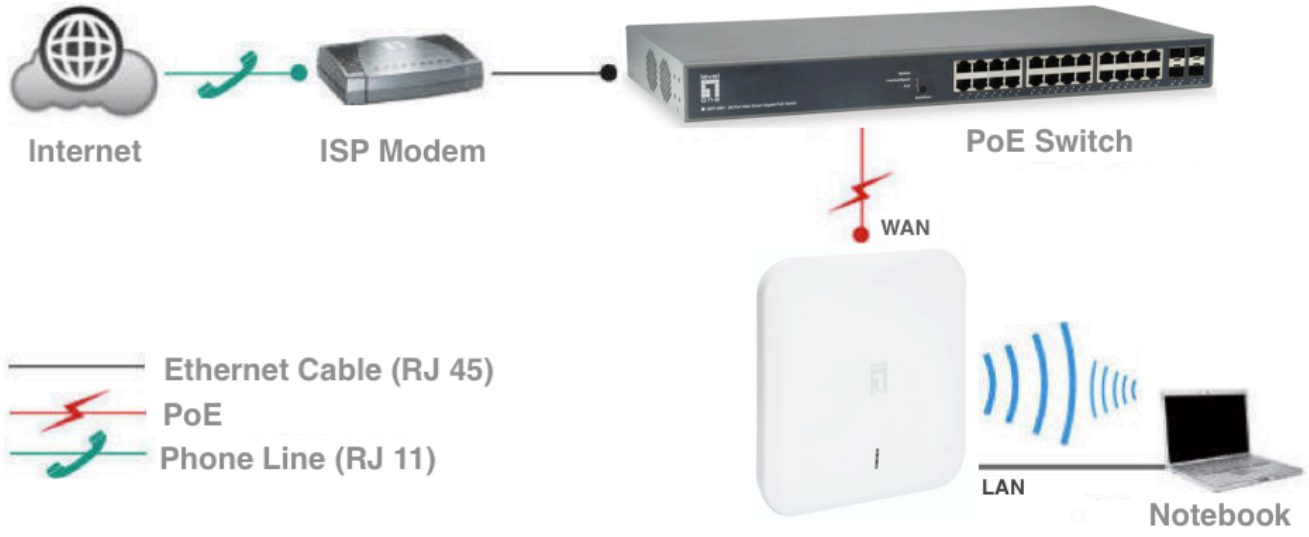
2. The WAN port connects to the POE adapter (48V DC).

Note: Adapter unit is to be ordered separately

1.4 Operation Mode description and usage:

There are four operation mode : Gateway mode , Repeater mode , WISP Mode, AP Mode .

- **Gateway mode:** Connect to the ISP Modem through the cable network to connect to the Internet and use with 3 types of Internet access (PPPoE , DHCP, Static IP)

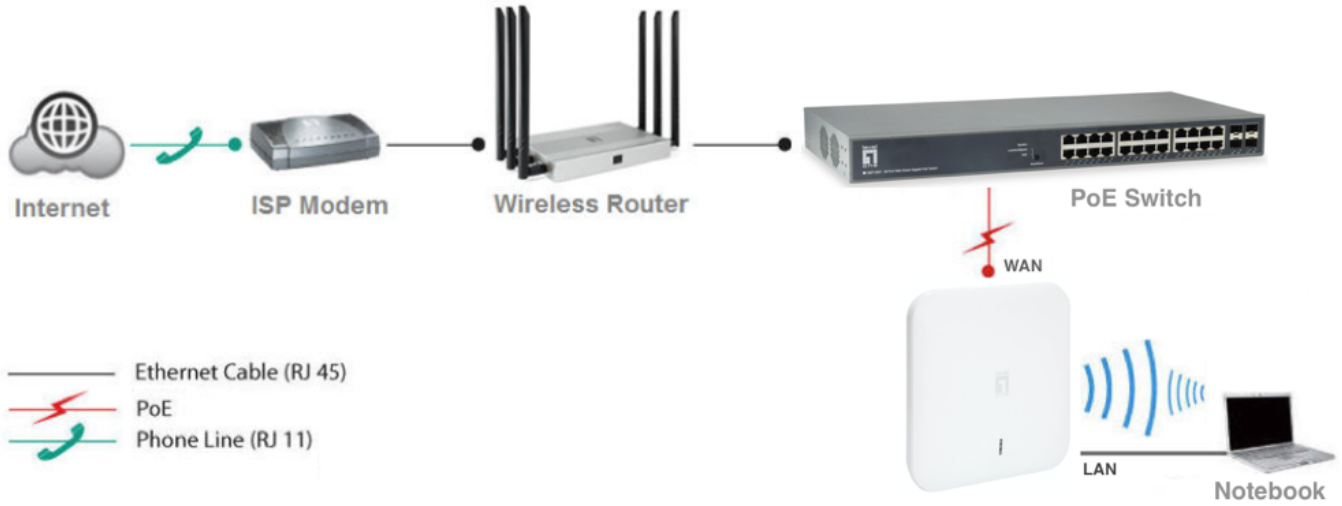


- **WISP mode:** Receive ISP Modem Wireless network and select one of them Internet access method (PPPoE, DHCP, static IP) .

  (**Note:** Adapter unit is to be ordered separately)

- **Repeater mode:** The WAP-8123 can bridge and extend the existing WiFi signal in this operation mode **.** (**Note:** Adapter unit is to be ordered separately)

- **AP Mode:** Please Make sure that the upper device has a router, Only after confirming can use AP Mode

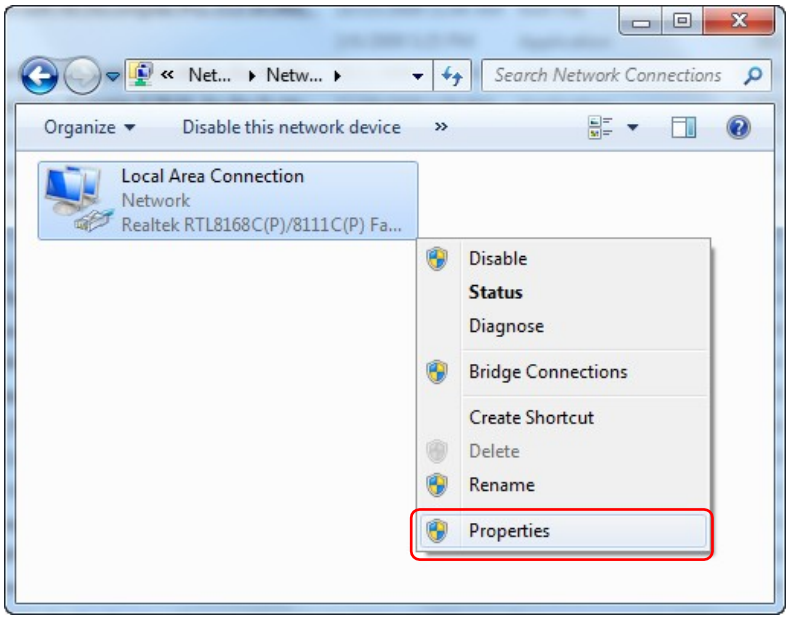


Chapter 2 Login

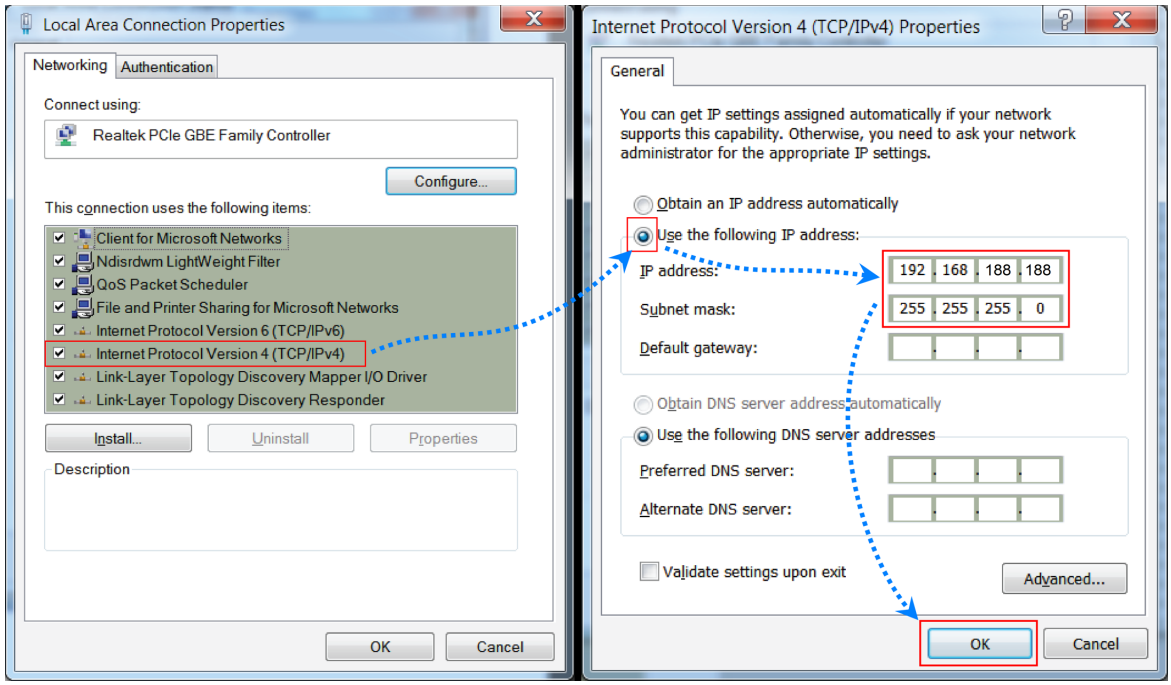
The necessary information about log in is displayed on the sticker of the product, including the URL, User Name and Pass Word

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 P1 and P2 to finish.

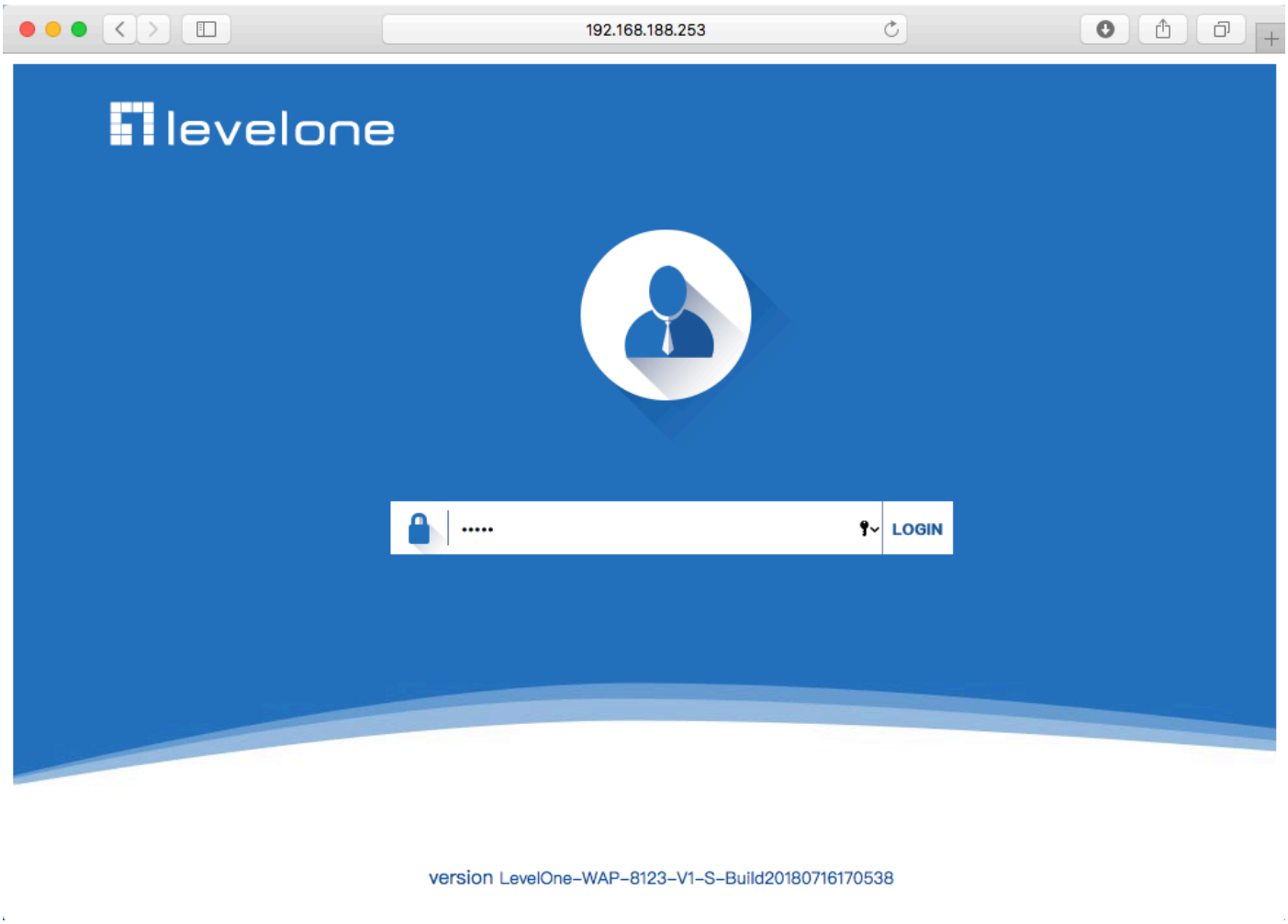


▲ P1 Setting of computer's IP address

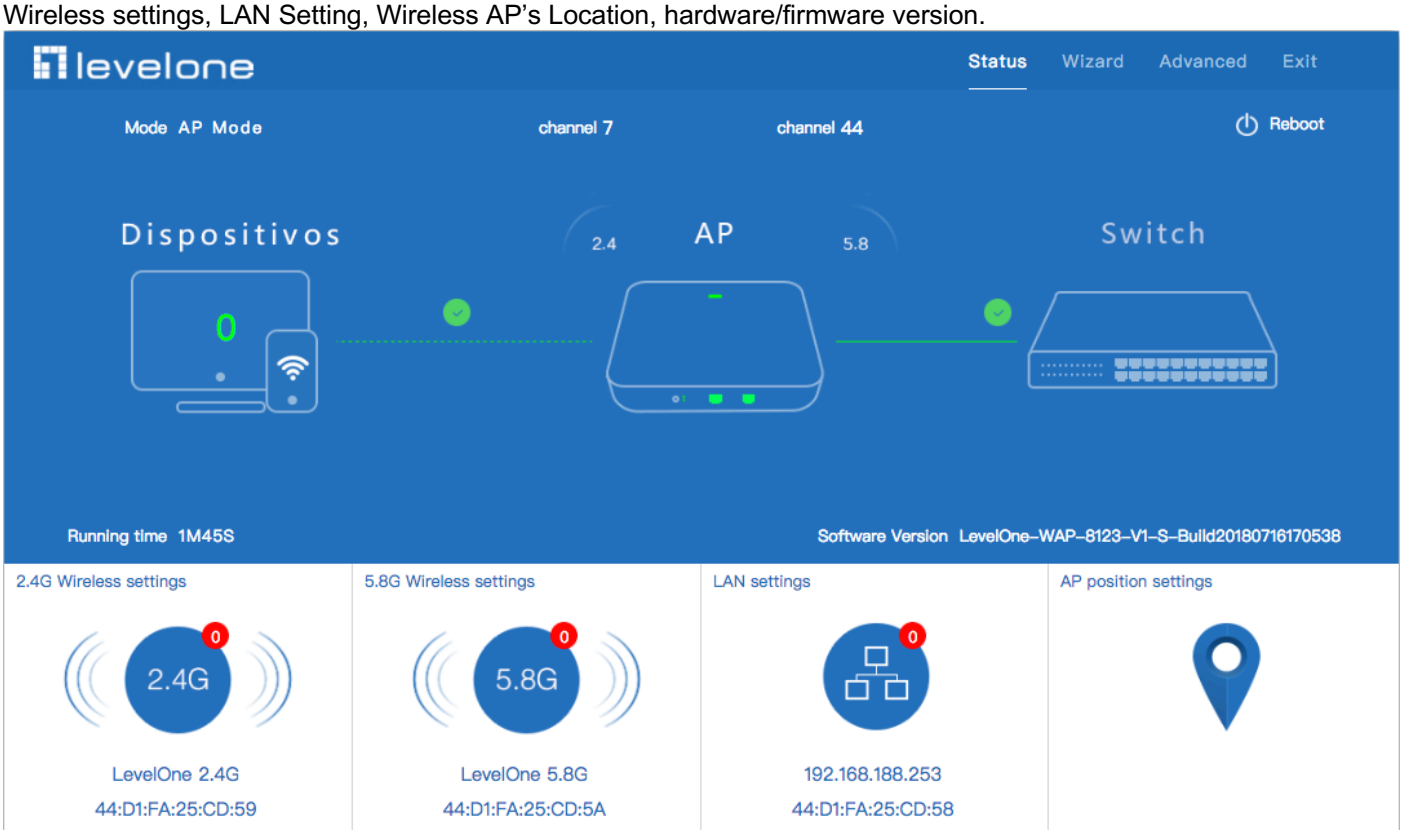


▲ P 2 Setting of computer's IP address

3.Input 192.168.188.253 into browser, then pop up the login page, the default login password: **admin**, then login,

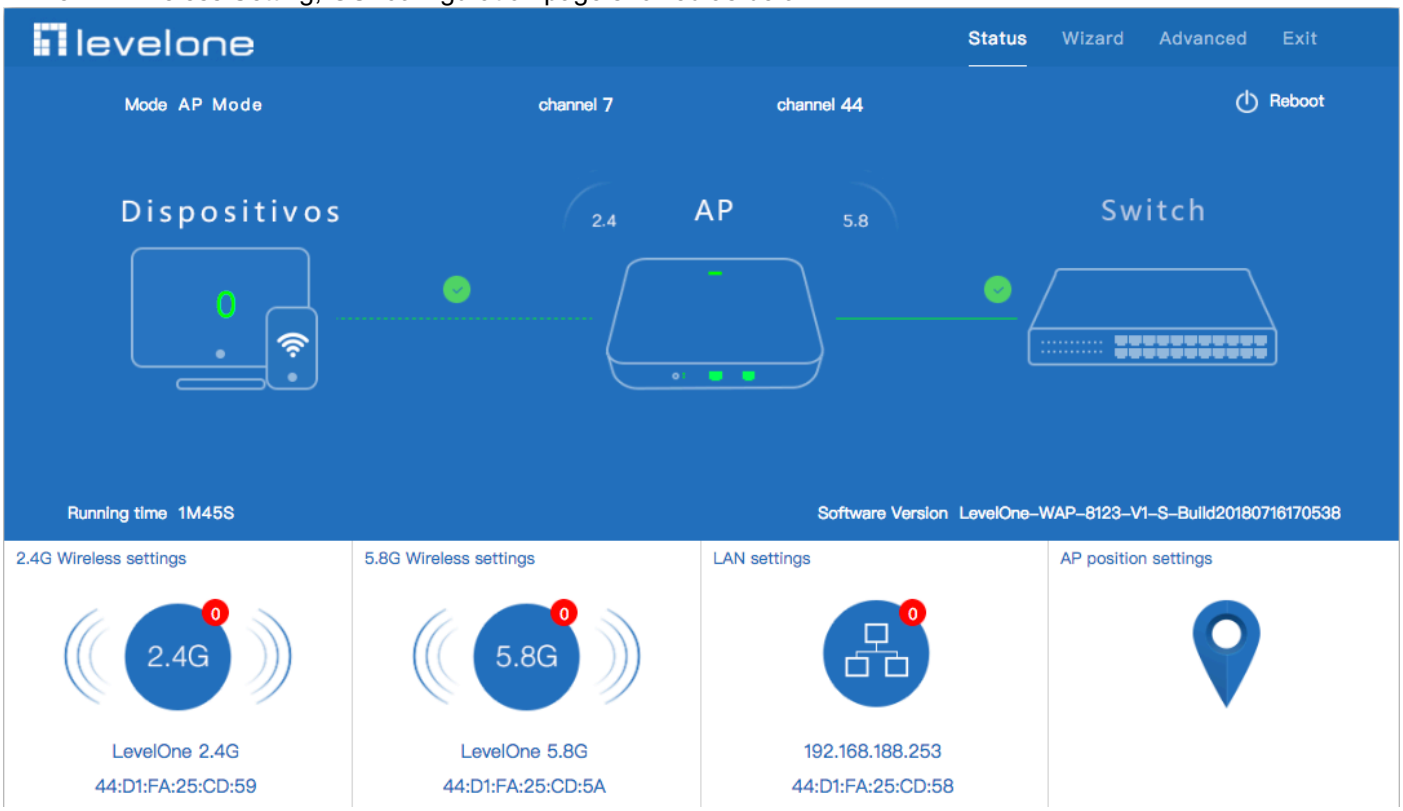


4.After login, This page will show the Wireless AP's default operation mode, channel, connection status, CPU usage, Wireless settings, LAN Setting, Wireless AP's Location, hardware/firmware version.

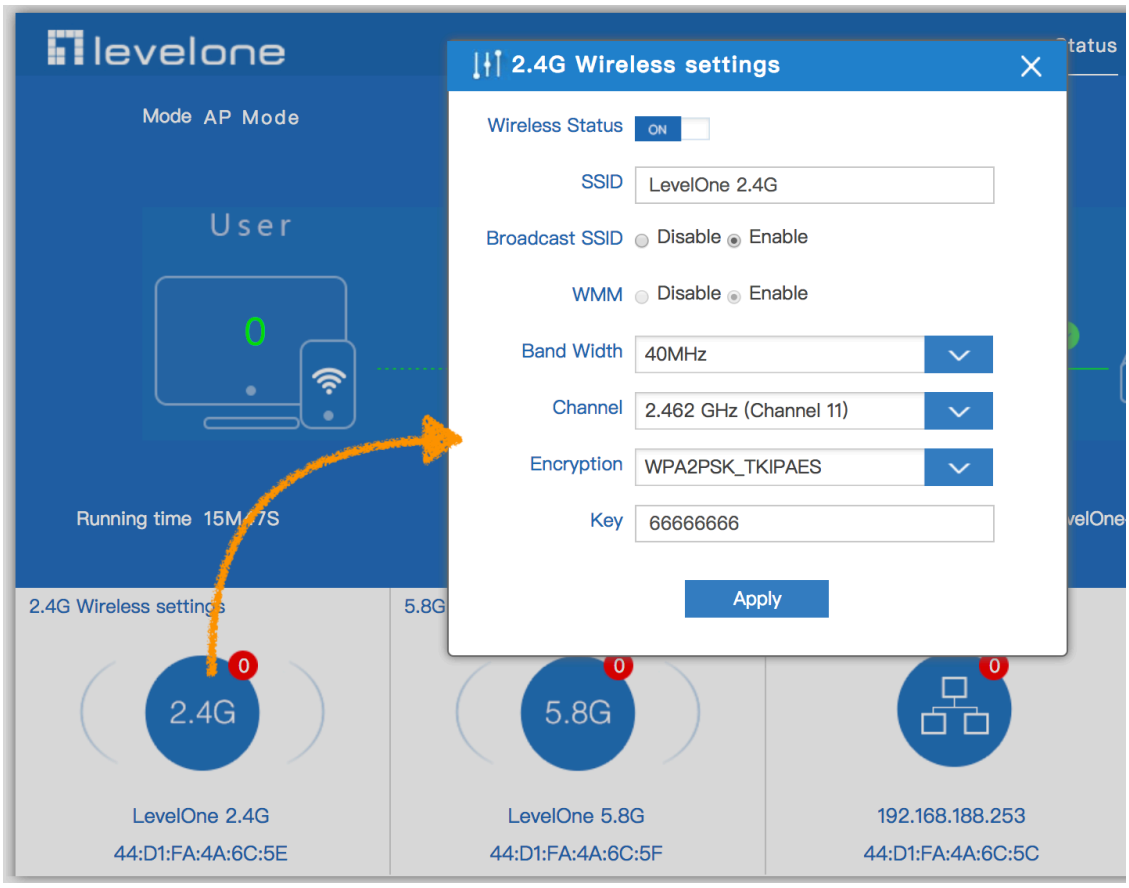


Chapter 3 WEB GUI interface Setting

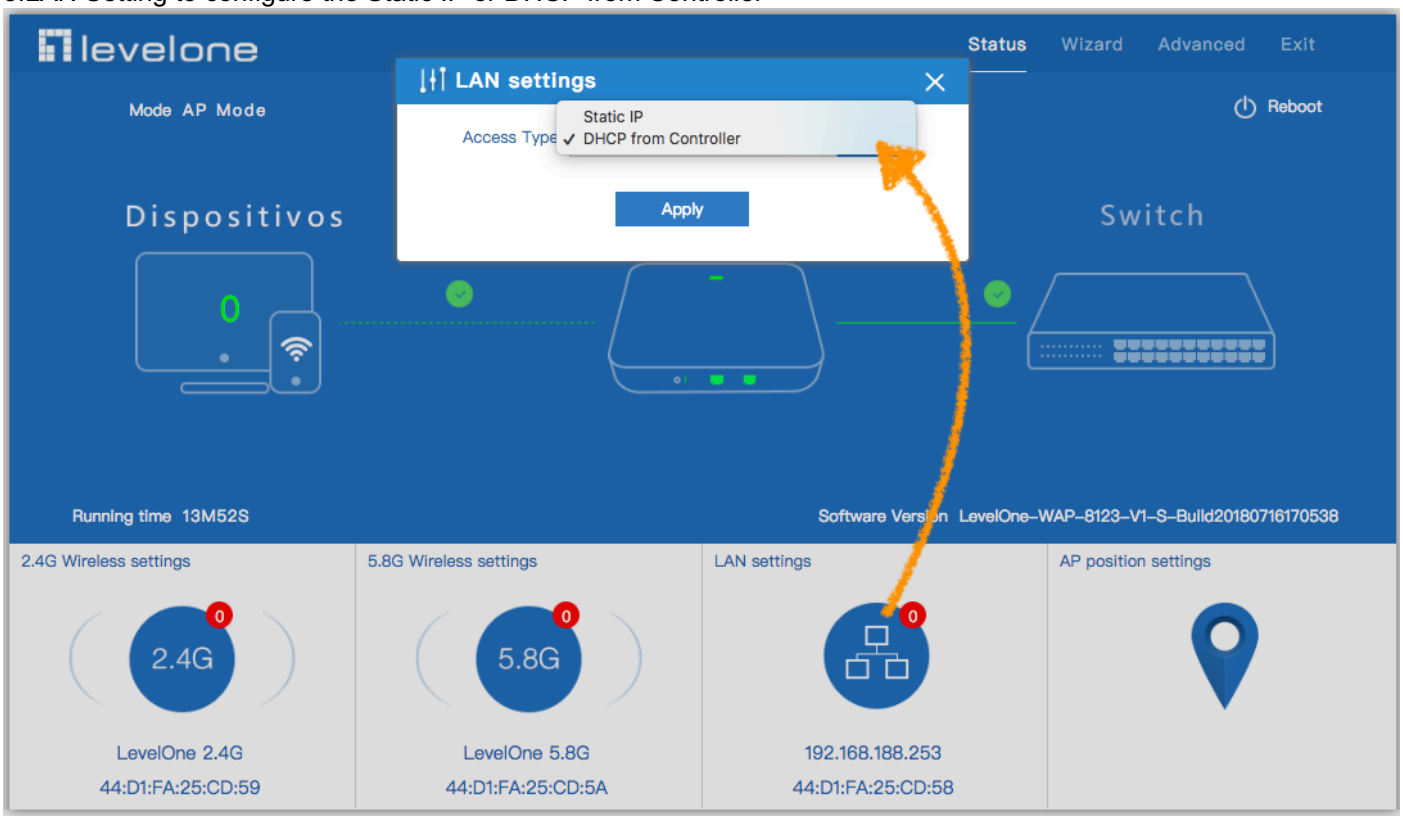
1.Then in Wireless Setting, GUI configuration page showed as below:



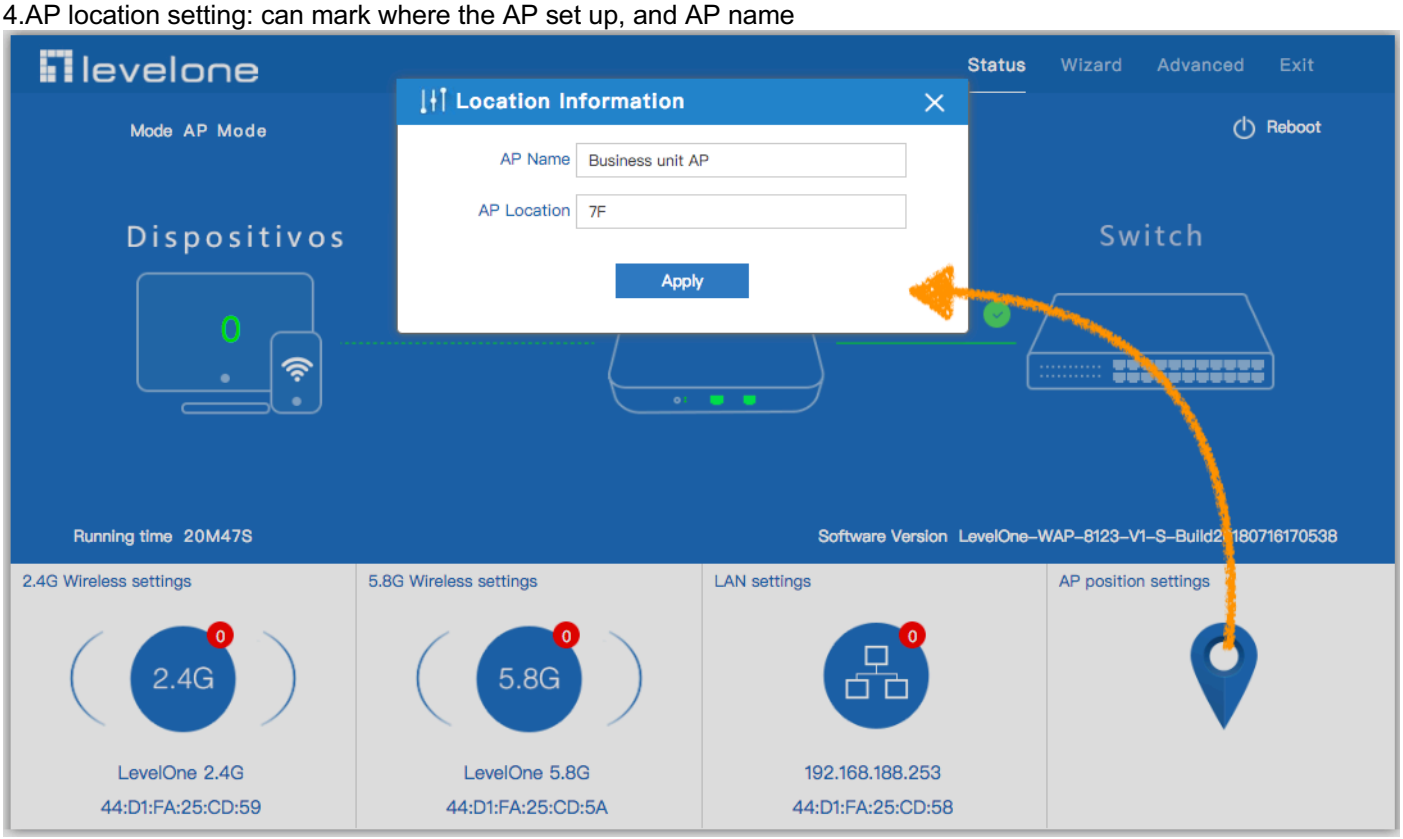
2.Then in Wireless Setting, GUI configuration page showed as below:
User can configure the SSID, password, band width, channel here, then Apply to finish.



3.LAN Setting to configure the Static IP or DHCP from Controller

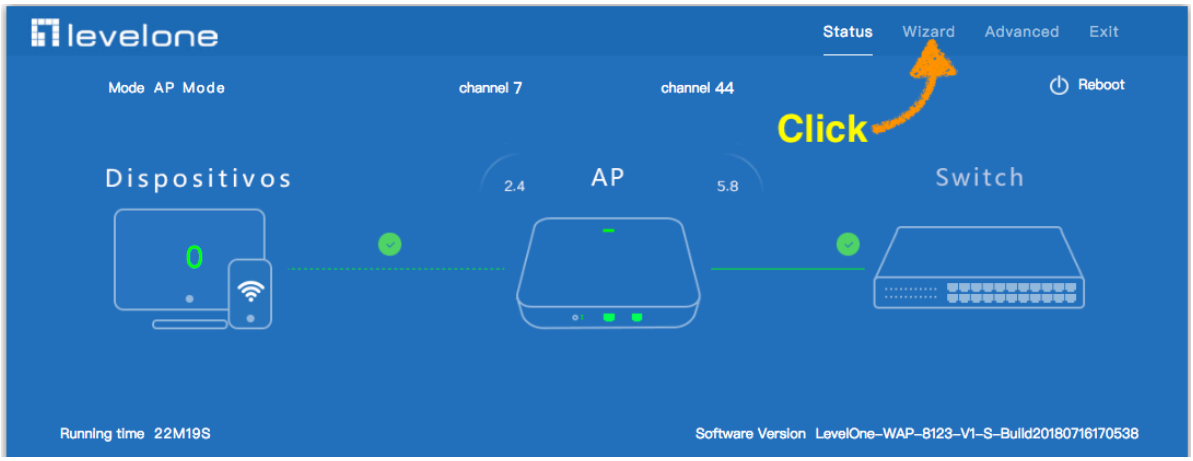


4.AP location setting: can mark where the AP set up, and AP name



3.1 Wizard :

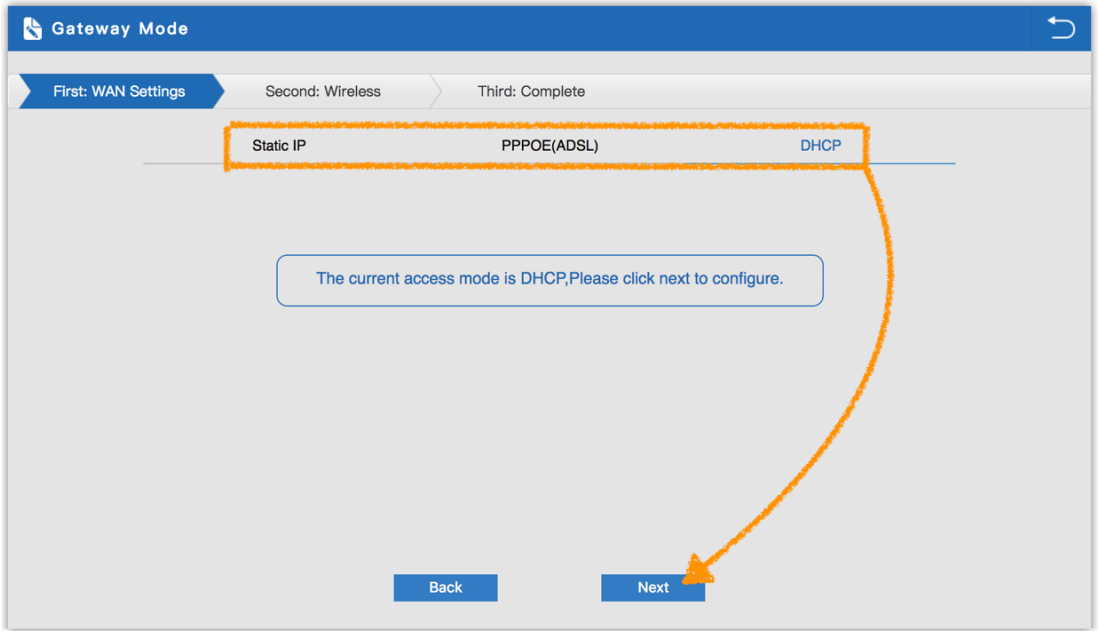
1.Click Wizard in Status page, will pop up following page to configure the operation mode and there are explanation for each operation mode for better application.



2.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.

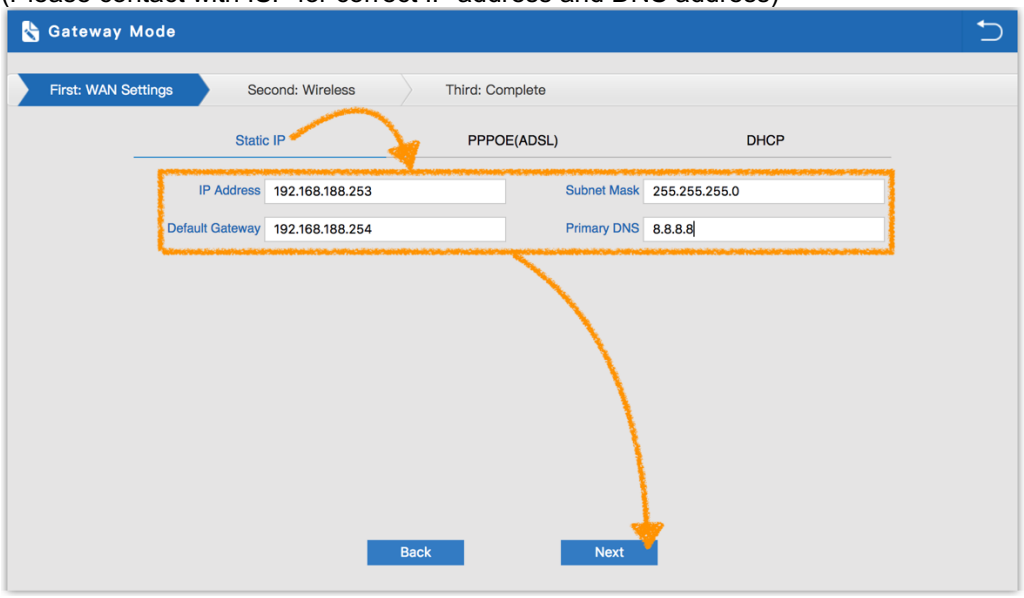
3.2 Gateway Mode:

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.

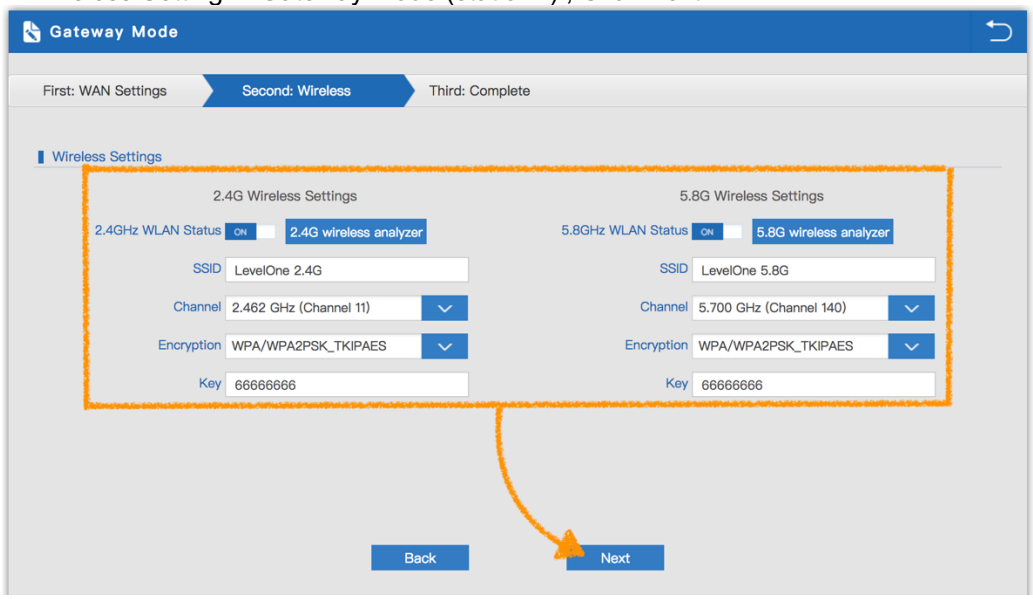


3.2.1 Static IP setting in Gateway Mode :

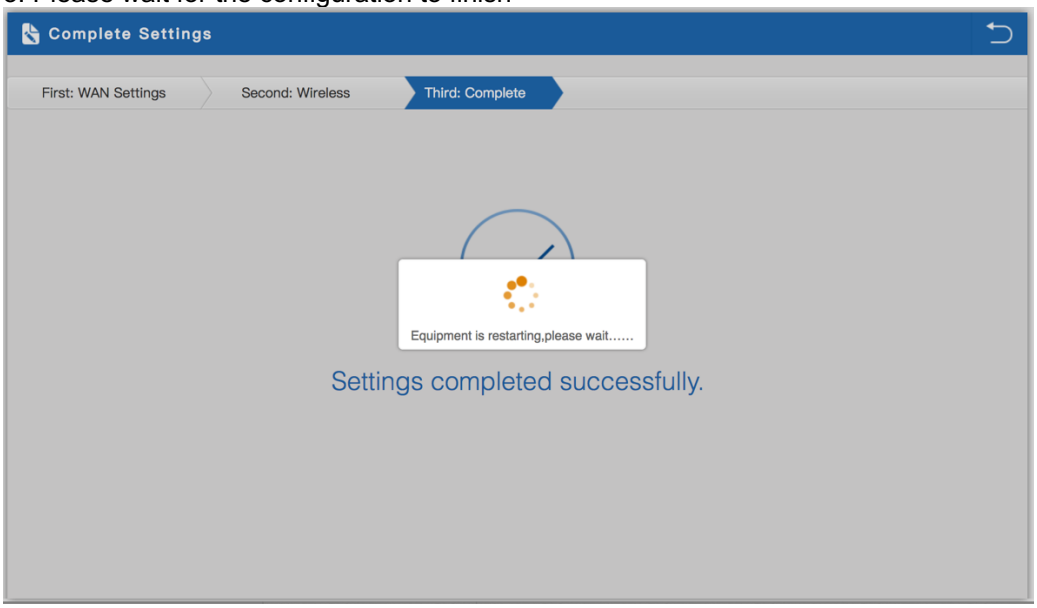
1. Sample Static IP mode setting method, then click next to continue.
(Please contact with ISP for correct IP address and DNS address)



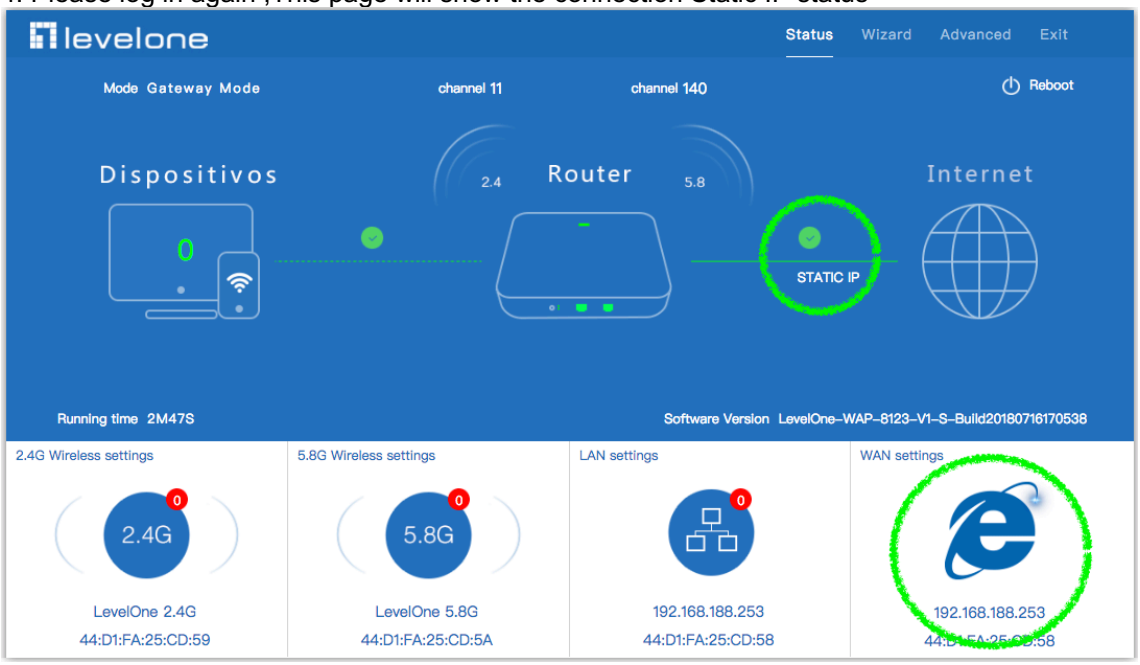
2. Wireless Setting in Gateway Mode (static IP) , Click Next



3. Please wait for the configuration to finish

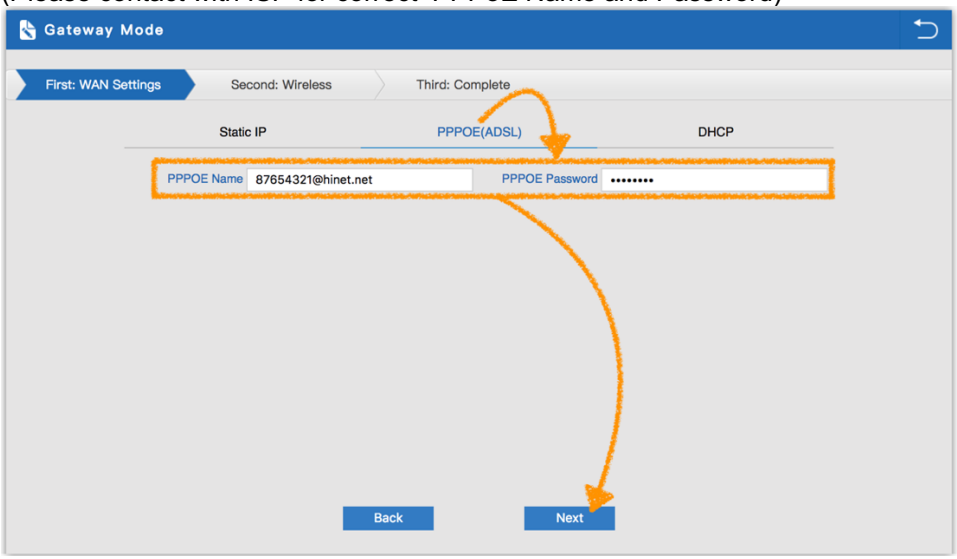


4. Please log in again ,This page will show the connection Static IP status

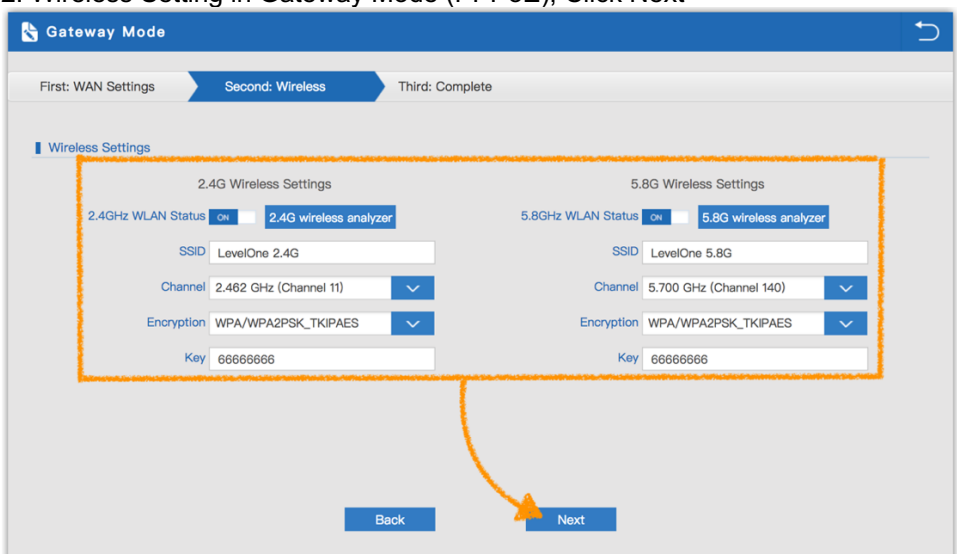


3.2.2 PPPoE(ADSL) setting in Gateway Mode :

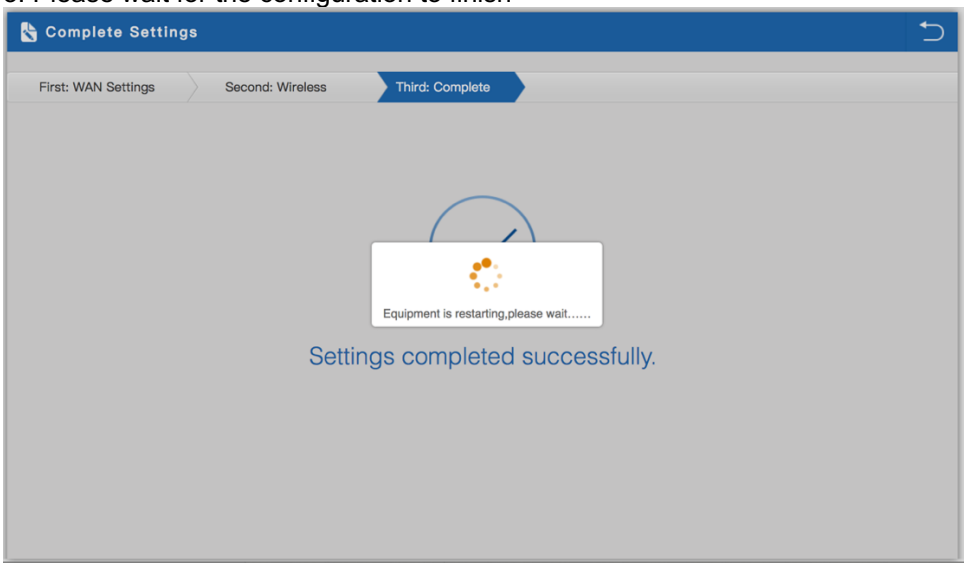
1. Sample PPPoE mode setting method, then click next to continue.
(Please contact with ISP for correct PPPoE Name and Password)



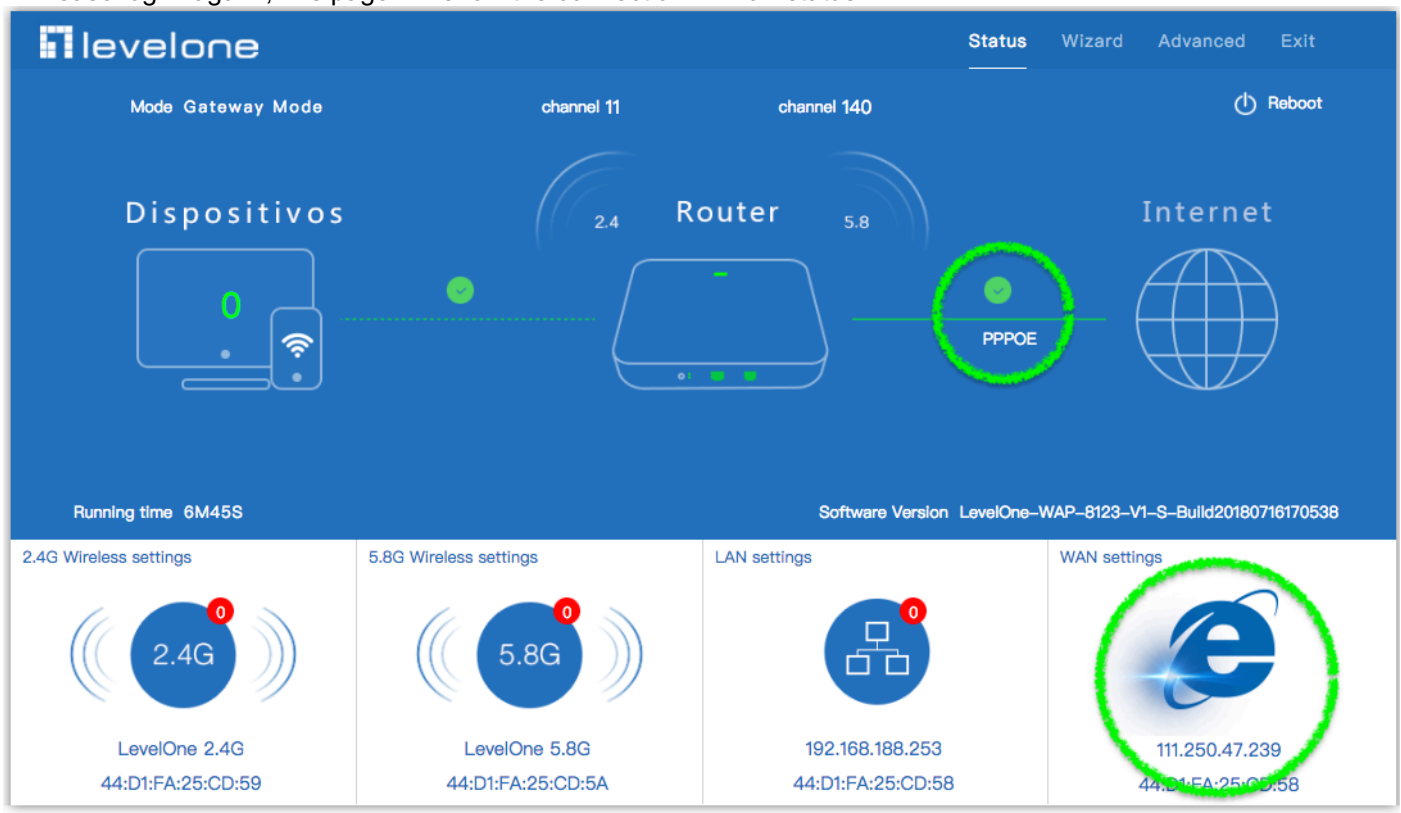
2. Wireless Setting in Gateway Mode (PPPoE), Click Next



3. Please wait for the configuration to finish



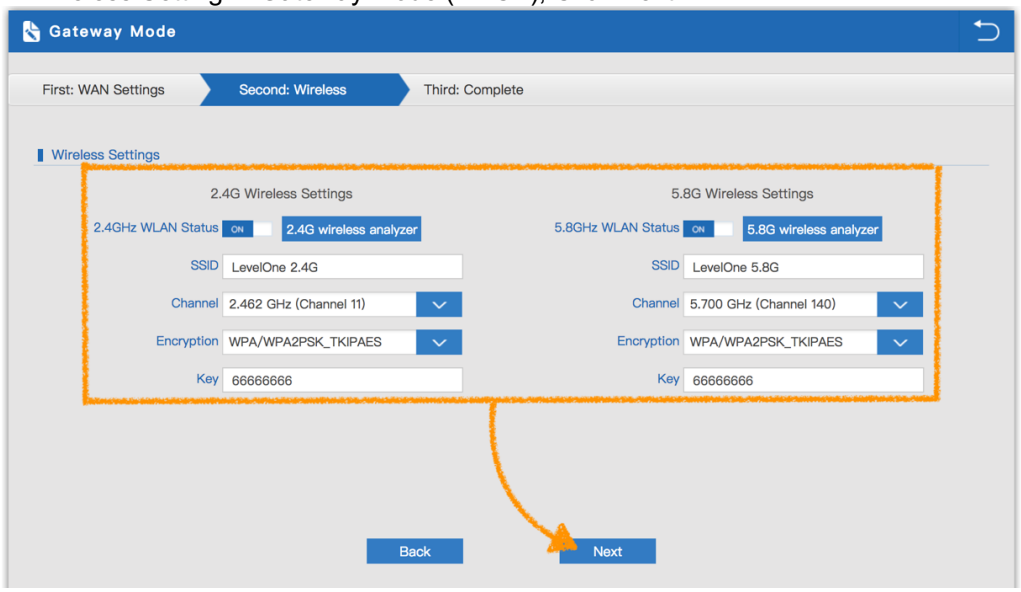
4. Please log in again ,This page will show the connection PPPoE status



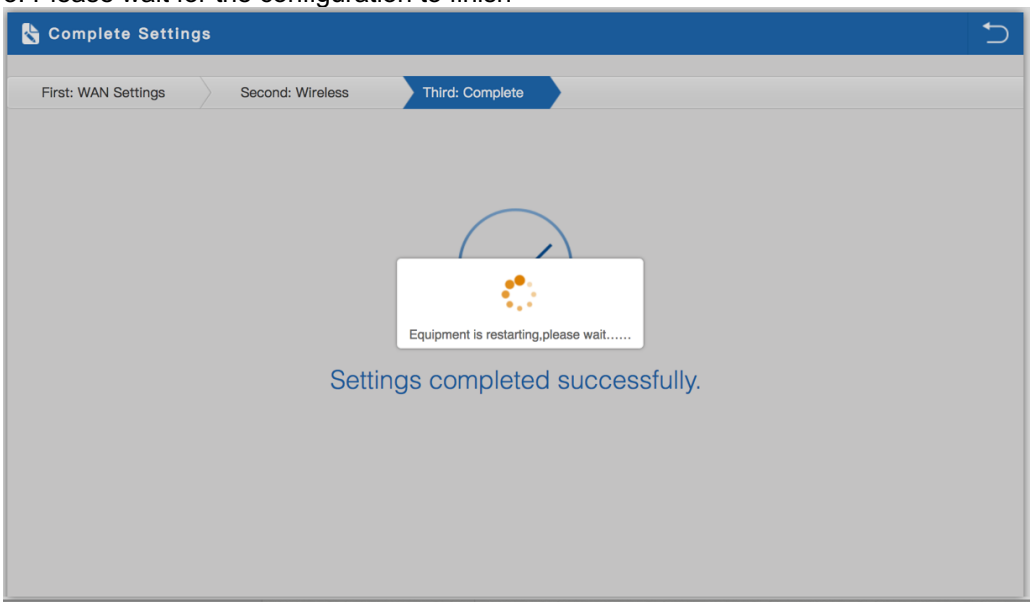
3.2.3 DHCP setting in Gateway Mode :

1. Sample DHCP mode setting method, then click next to continue.
(Please contact with ISP for correct IP address and DNS address.)

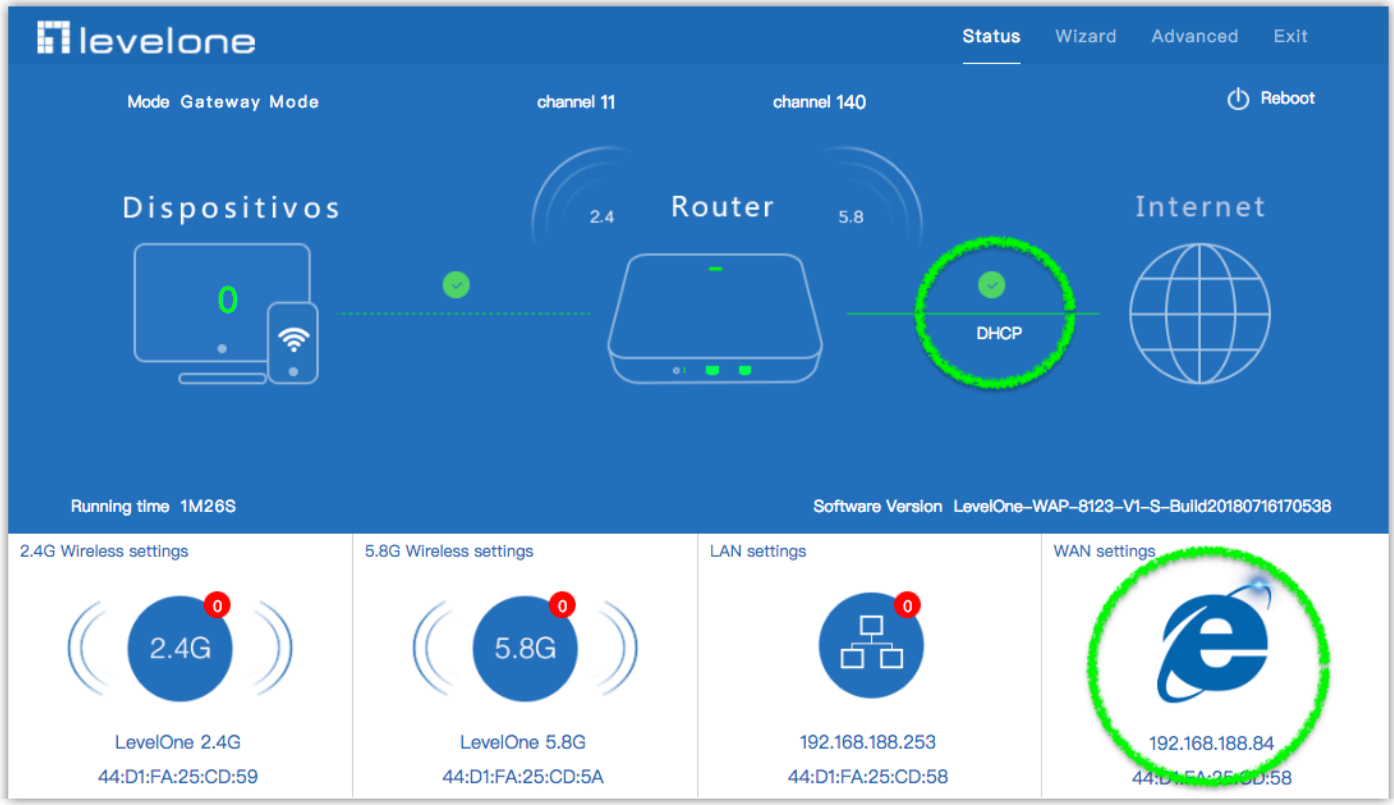
2. Wireless Setting in Gateway Mode (DHCP), Click Next



3. Please wait for the configuration to finish

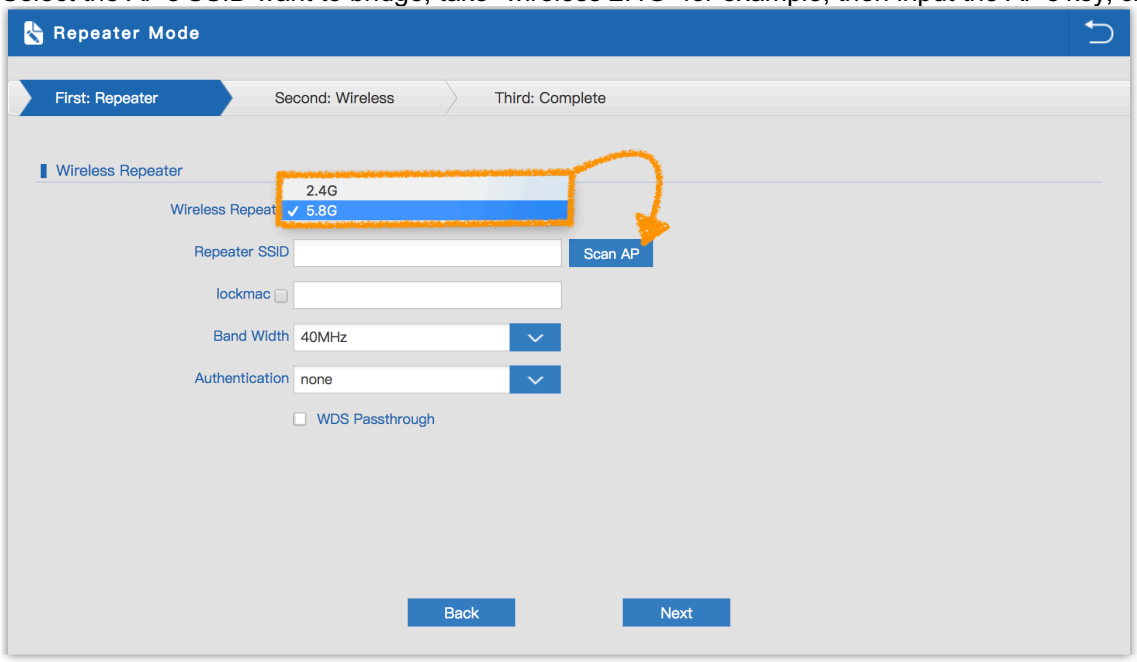


4. Please log in again ,This page will show the connection DHCP status

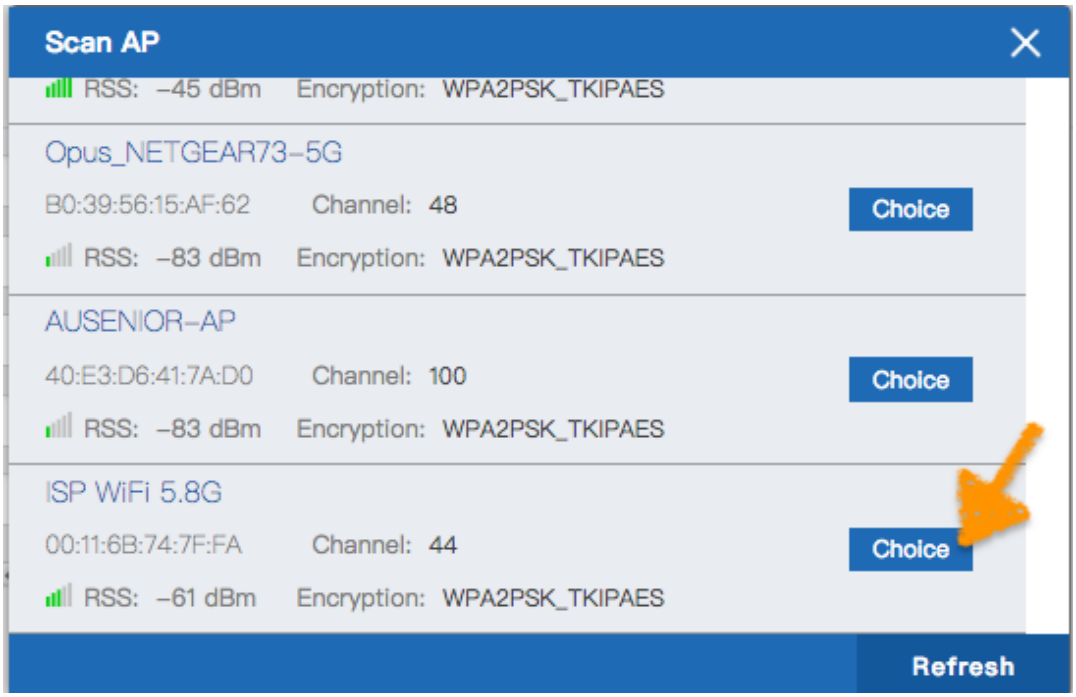


3.3 Repeater mode :

1.Can choose to relay the front-end 2.4G or 5.8G wireless signal to extend the wireless signal range.
Select the AP's SSID want to bridge, take "wireless 2.4G" for example, then input the AP's key, click Scan AP

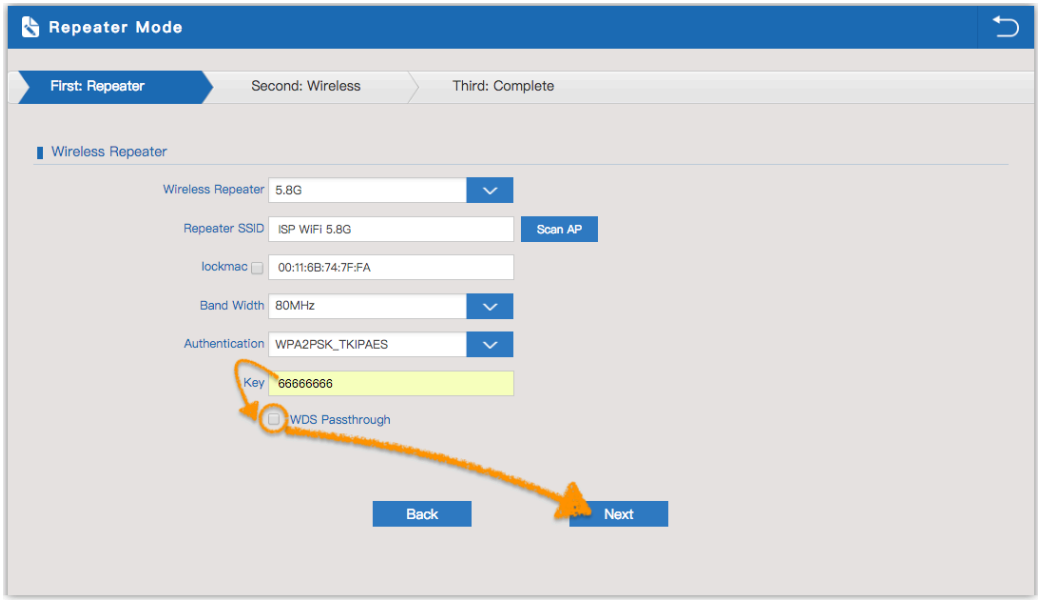


2.Please select WIFI SSID to connect

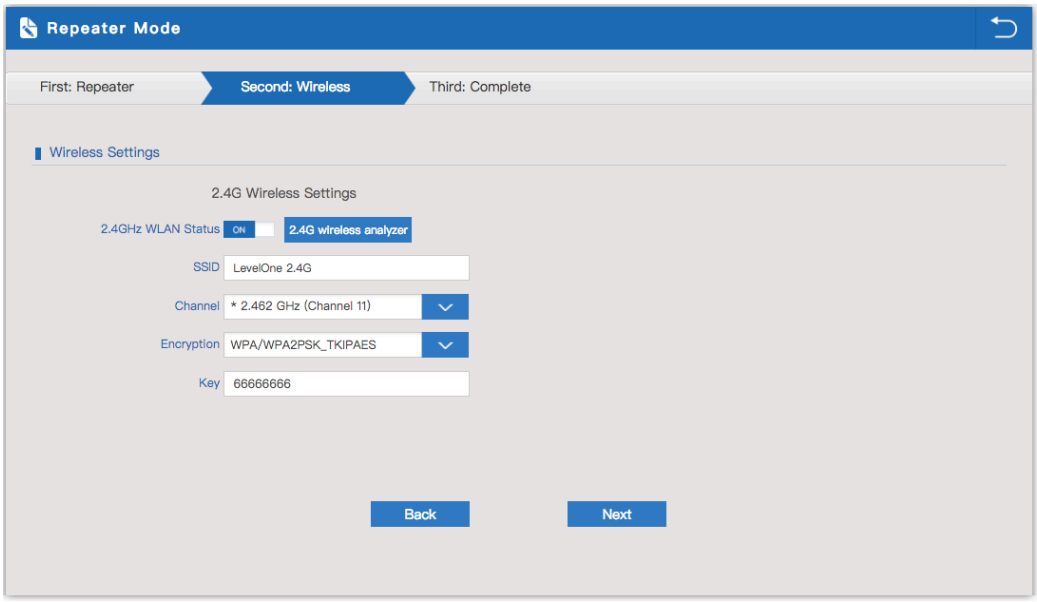


3. Enter the WIFI SSID password to be linked, When click Next.

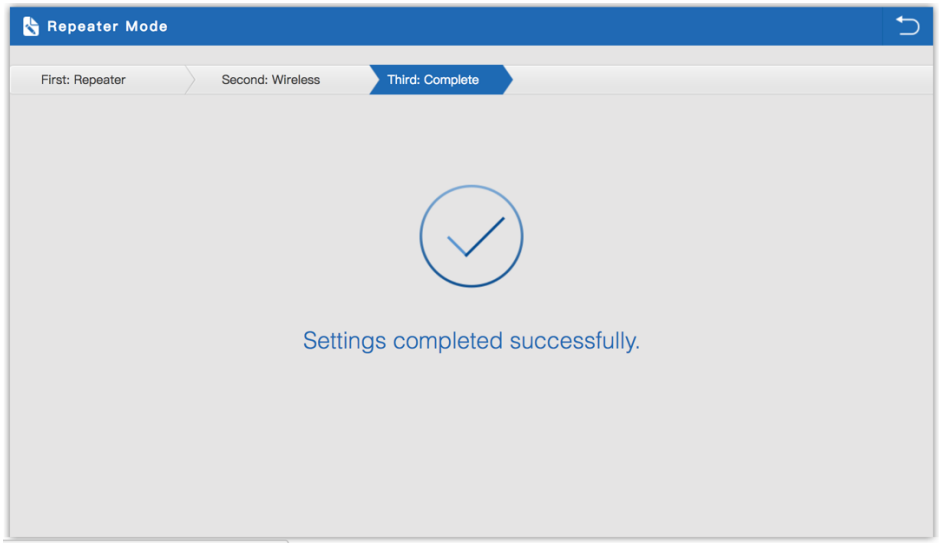
Suggestion: If the upper wireless device is not the same model (WAP-8123), Don't click to WDS Passthrough.



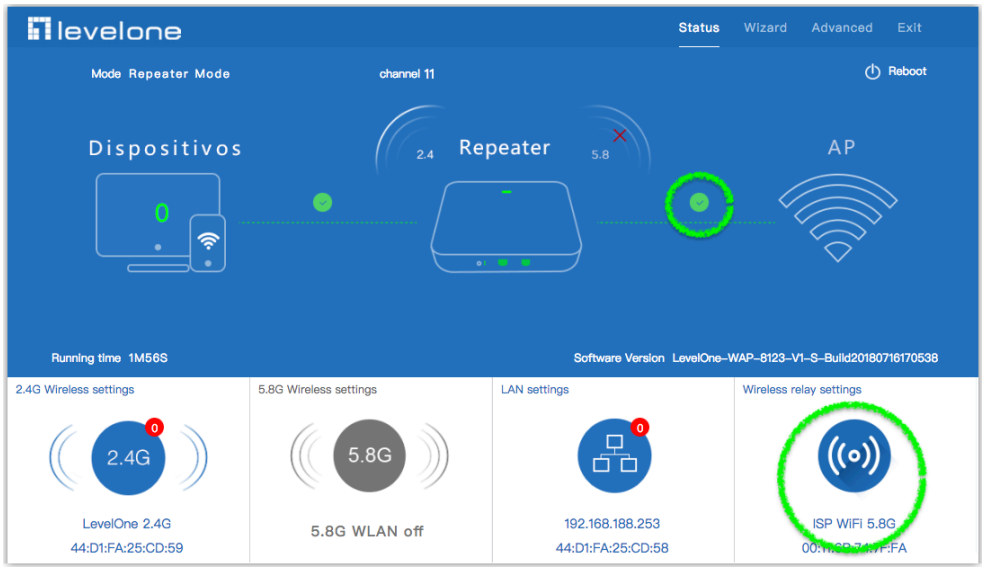
4. If choose to relay the front-end 5.8G wireless signal to extend the wireless signal range. Can choose to enable or disable the 2.4G wireless broadcast of the WAP-8123 itself.



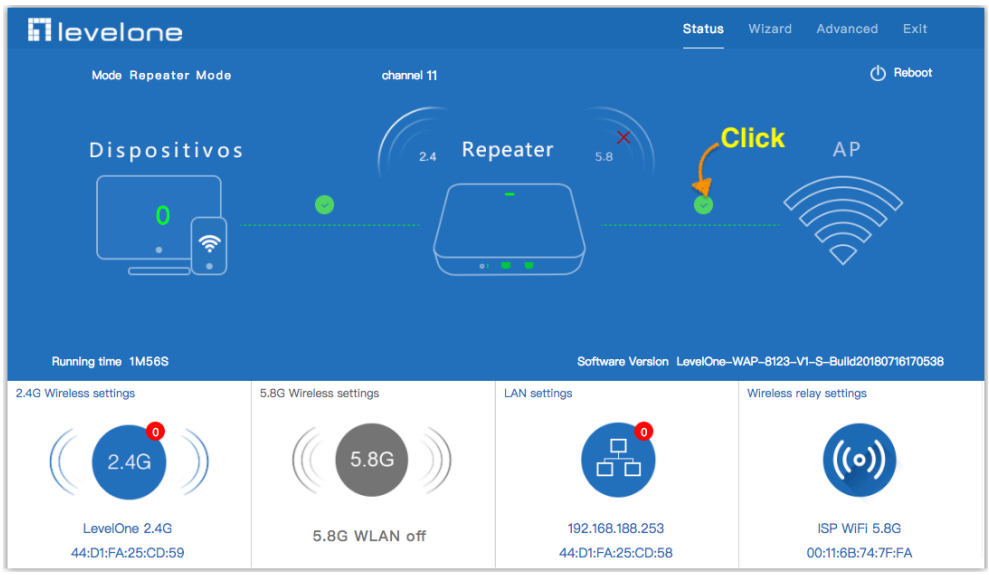
5.Click Return button, will back to Status, show Repeater mode data, show fail or success



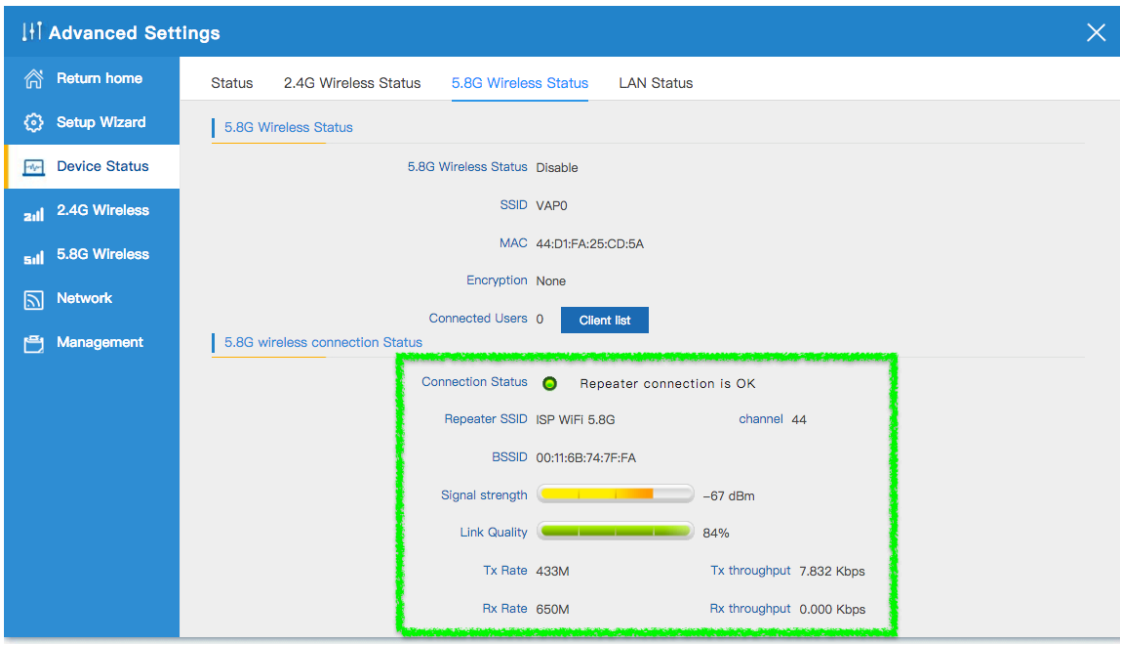
6. Check WIFI Repeater mode data. If choose to relay the front-end 5.8G wireless signal to extend the wireless signal range. In wifi repeater operation mode, WAP-8123 the default is 5.8G SSID disable.



7.Click Status button

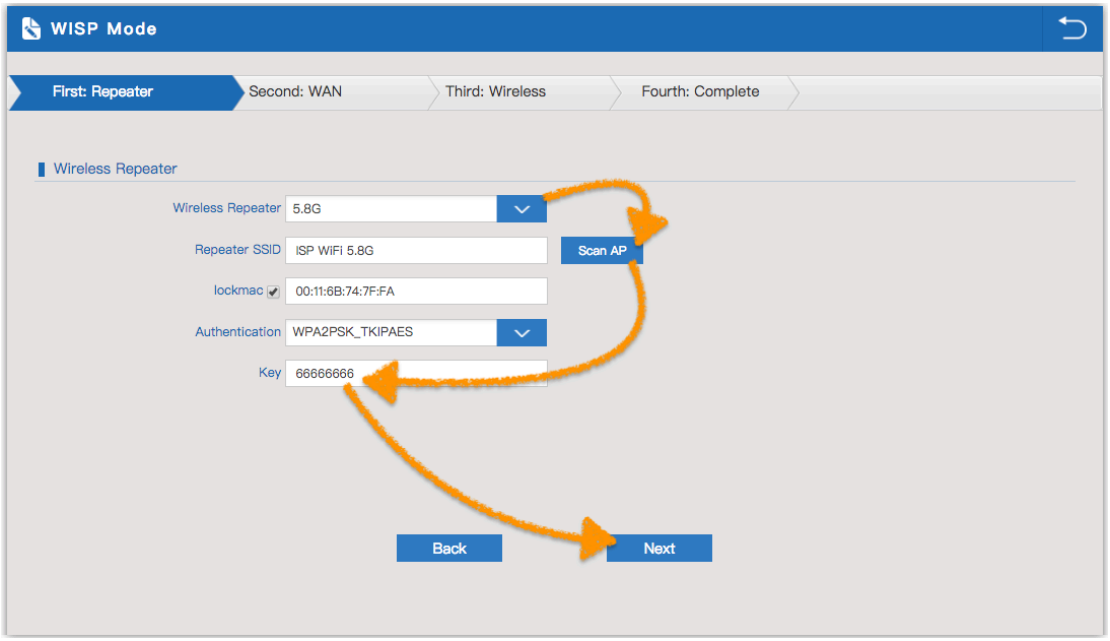


8. Check WIFI Repeater mode data

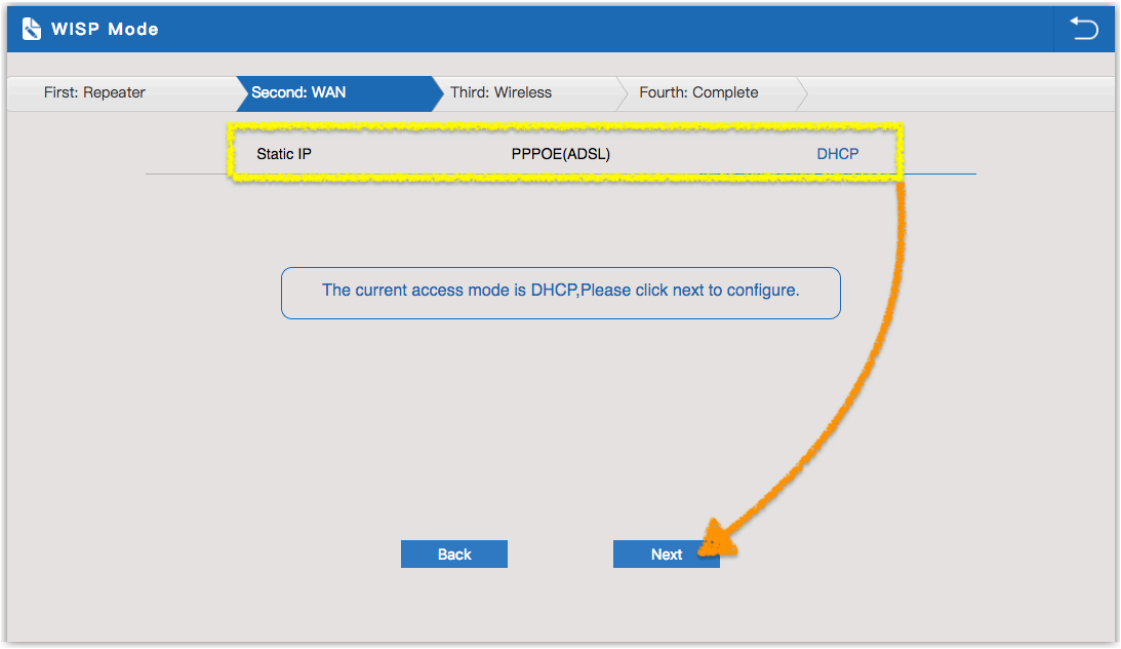


3.4 WISP Mode:

1.Select the AP's SSID want to bridge, take "wireless 5.8G" for example,
then input the AP's key, click Scan AP. Enter the WIFI SSID password to be linked, When click Next

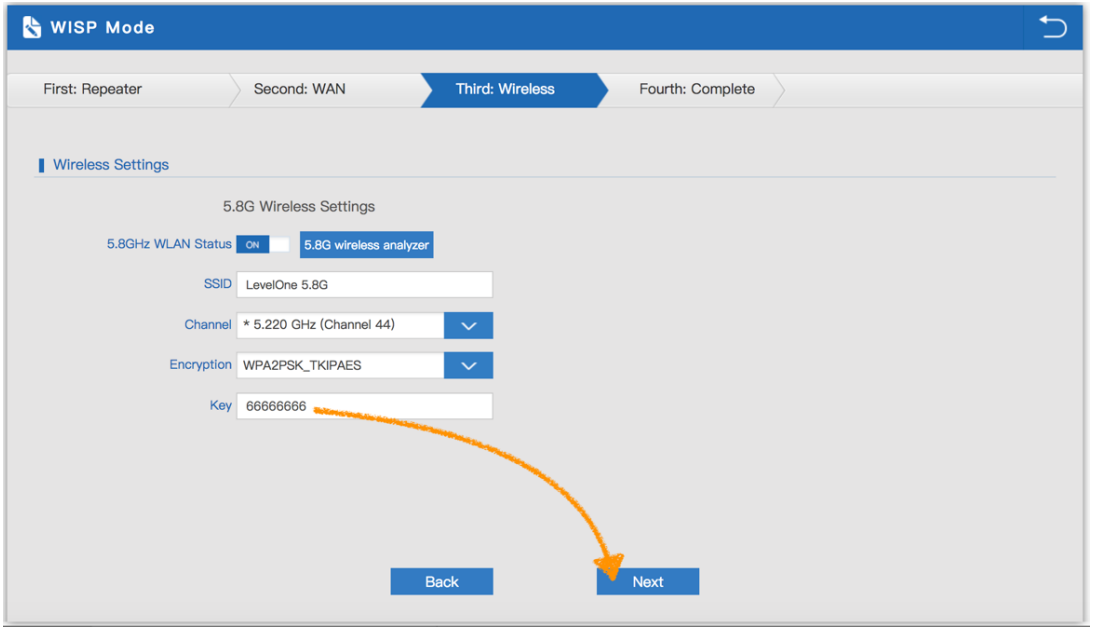


2.Before Click WISP Mode, confirm your ISP WIFI will be static IP, PPPoE, or DHCP:
Then will pop up following picture after click it, Please choose the right WAN setting mode,then click next to continue.

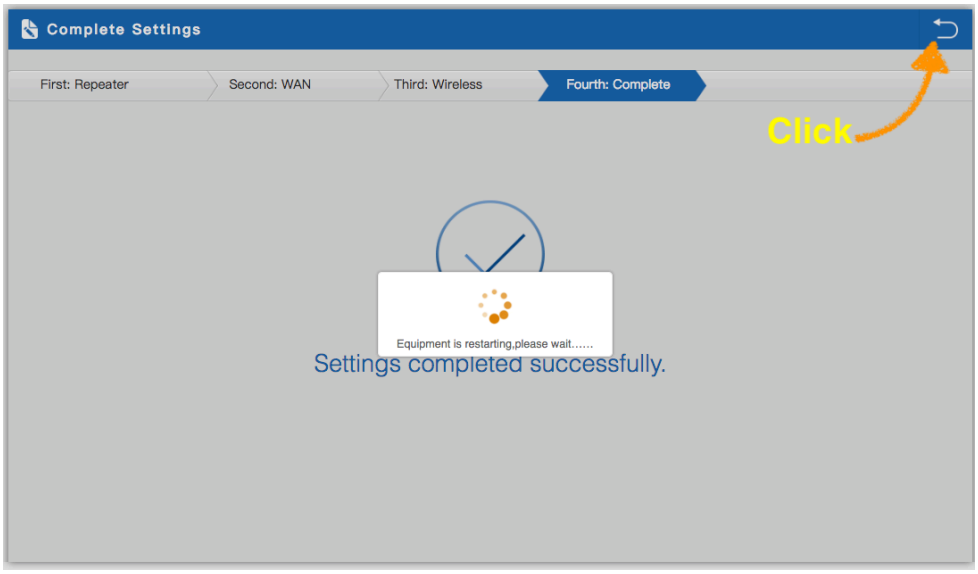


3.Take **DHCP** for example.

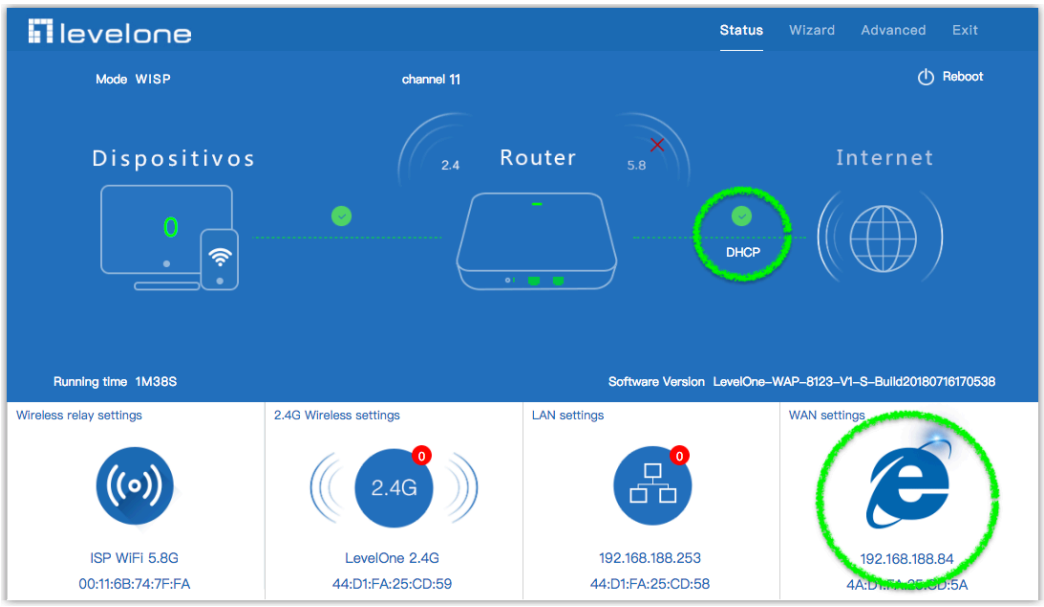
4. Configure the SSID and password AP going to broadcast.



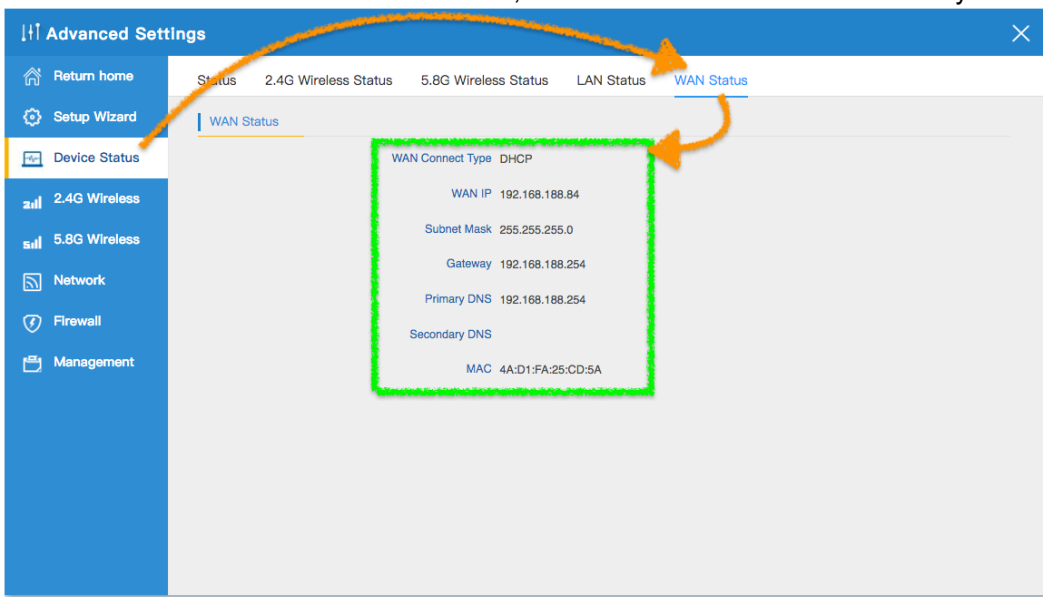
5.Click Return button, will back to Status, show WISP mode data, show fail or success



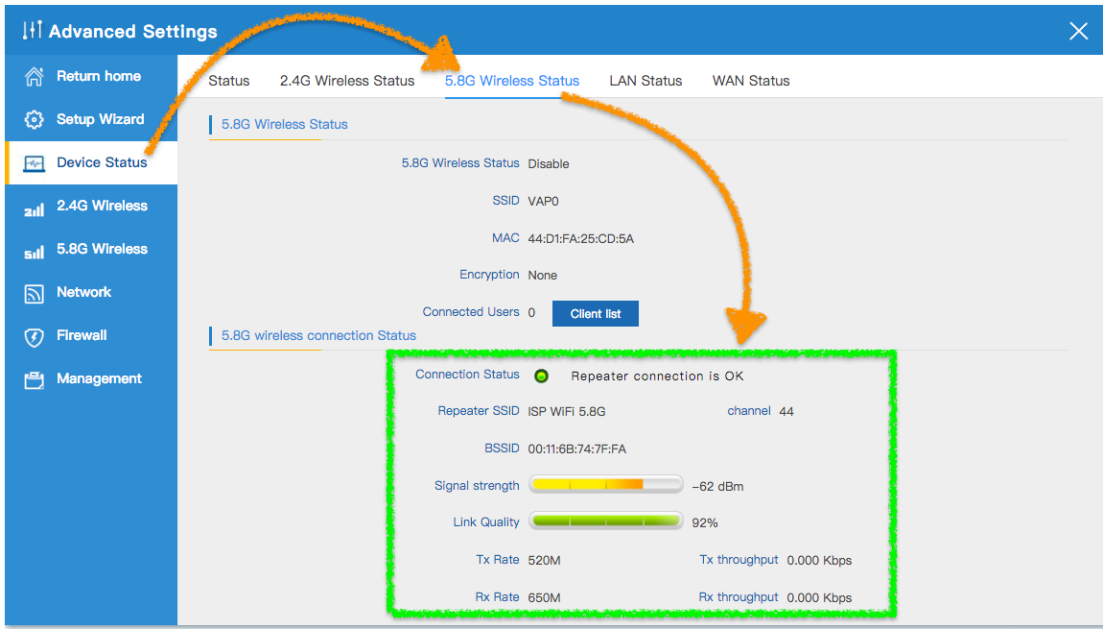
6.Check WISP Mode Status show fail or success



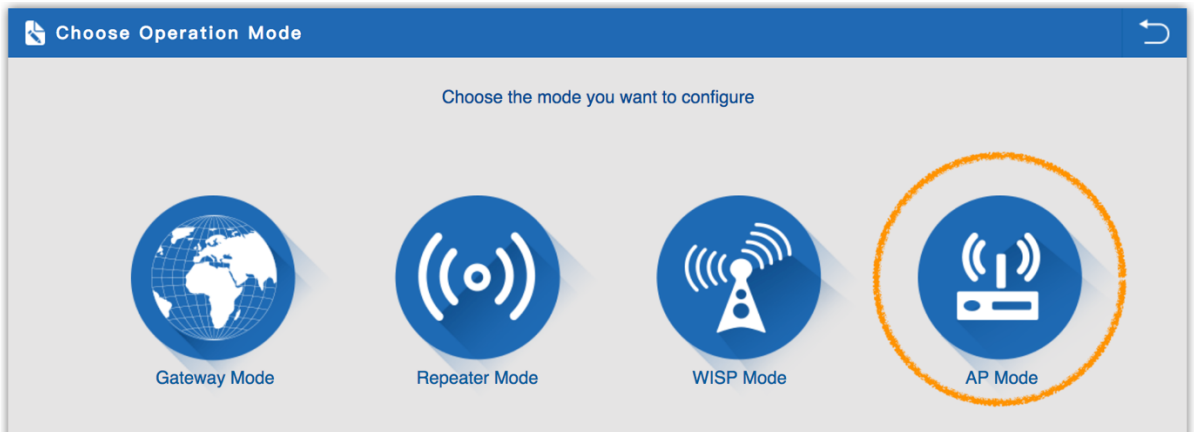
7. Check WISP Mode data for WAN Status , Check IP address that is received by DHCP .



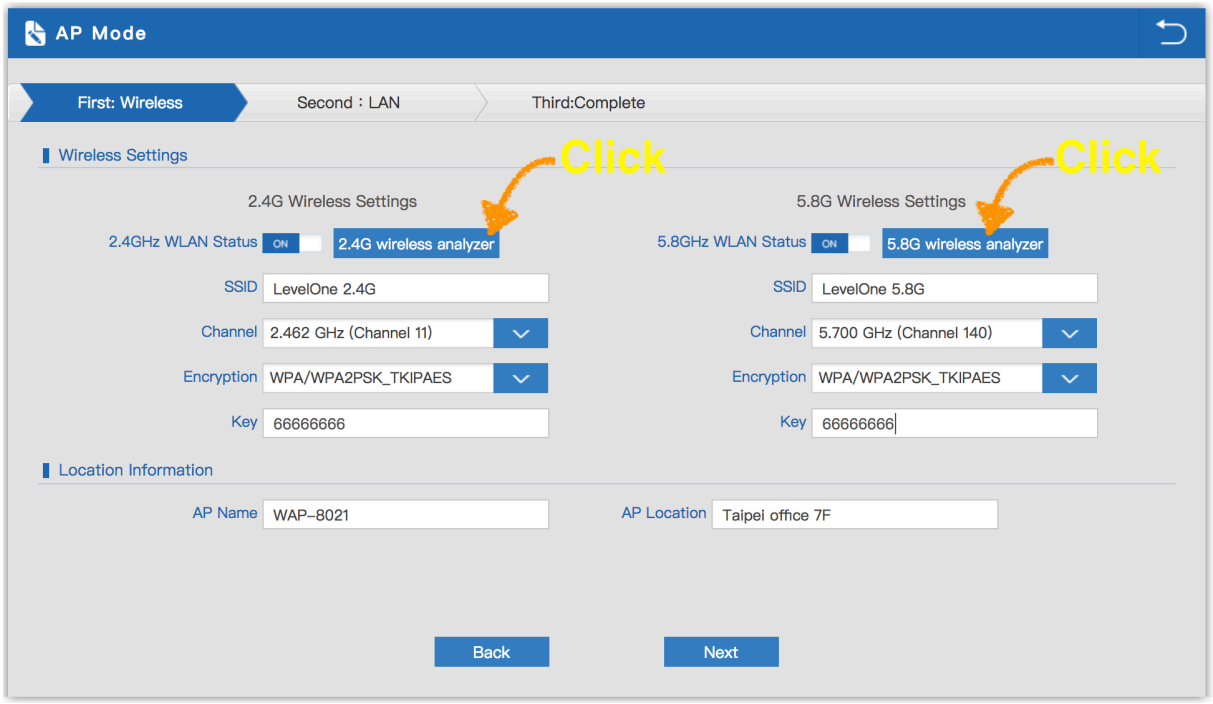
8.Check WISP Mode Status data



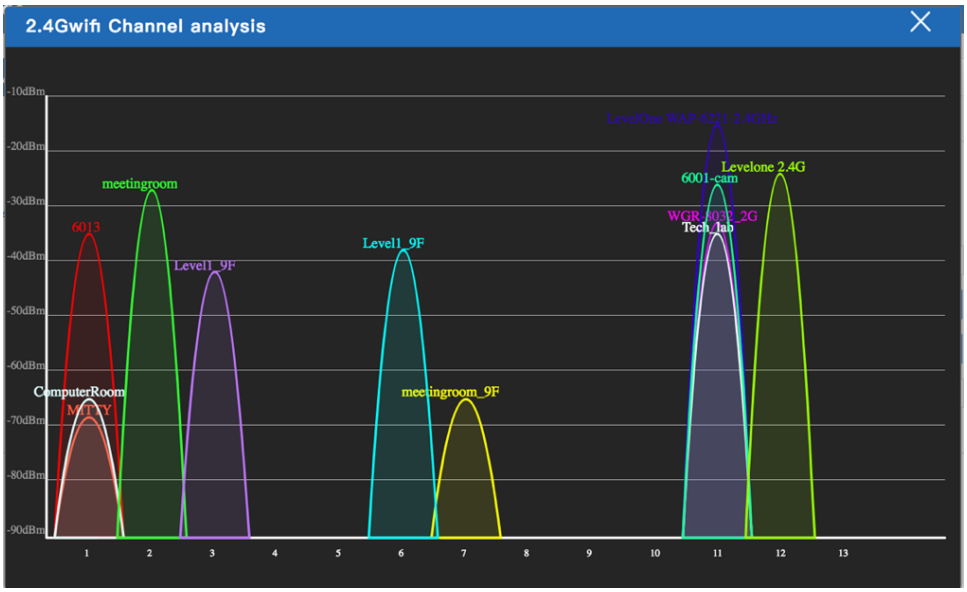
3.5 AP mode & Wireless analyzer :



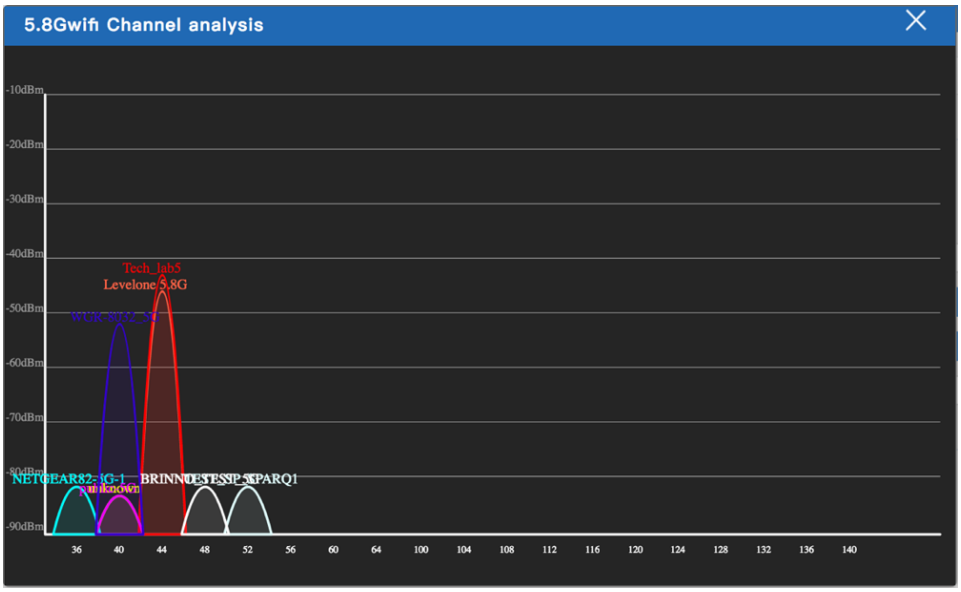
1.To make the WAP-8123 work in some clear channel, user can click wireless analyzer at first. Look for Unoccupied channel, then Wireless performance will be more stable. Picture showed as below.



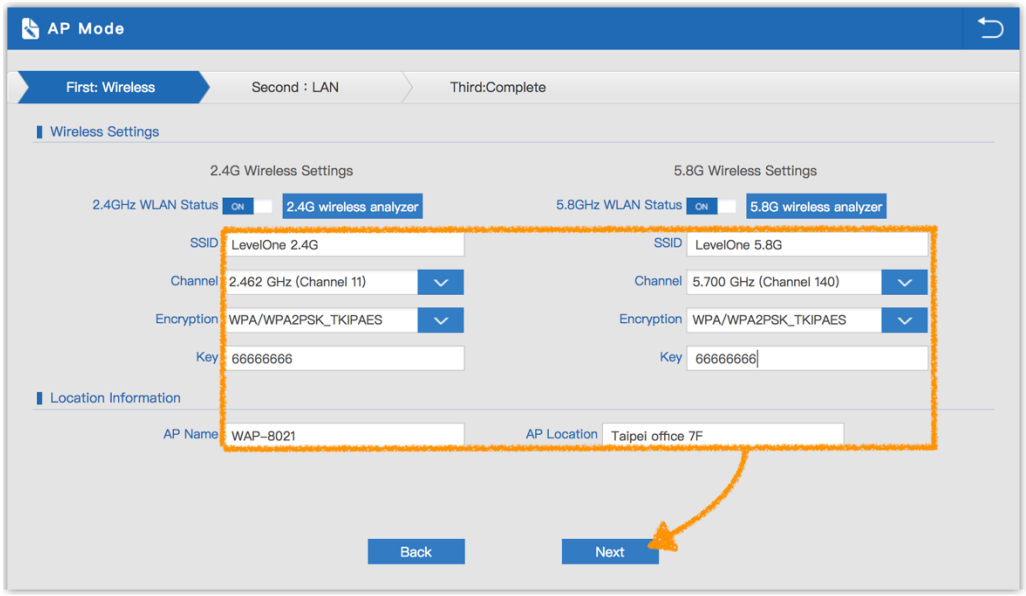
2. Wireless analyzer Look for Unoccupied channel (2.4GHz)



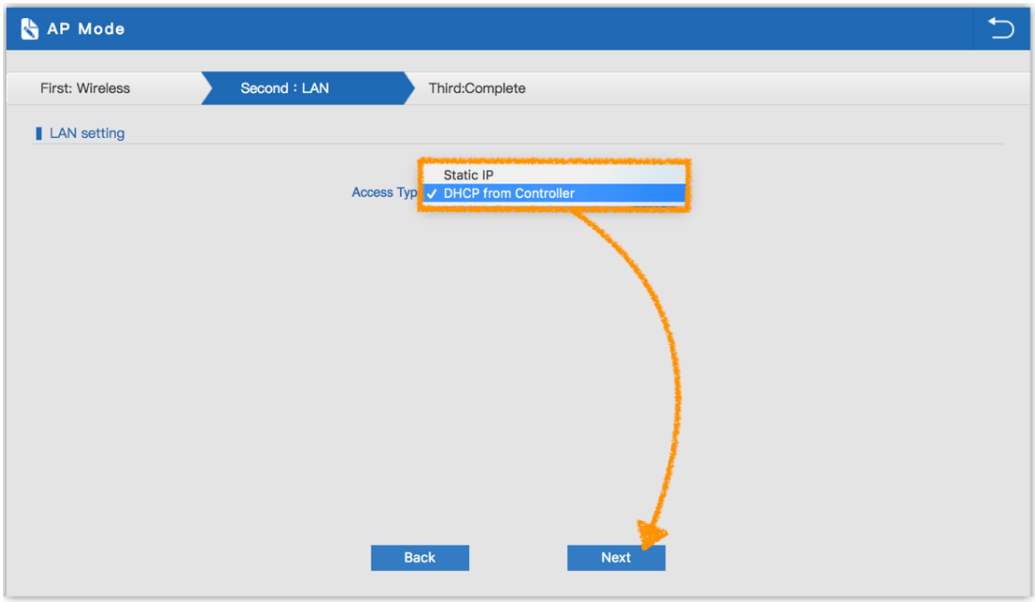
3. Wireless analyzer Look for Unoccupied channel (5.8GHz)



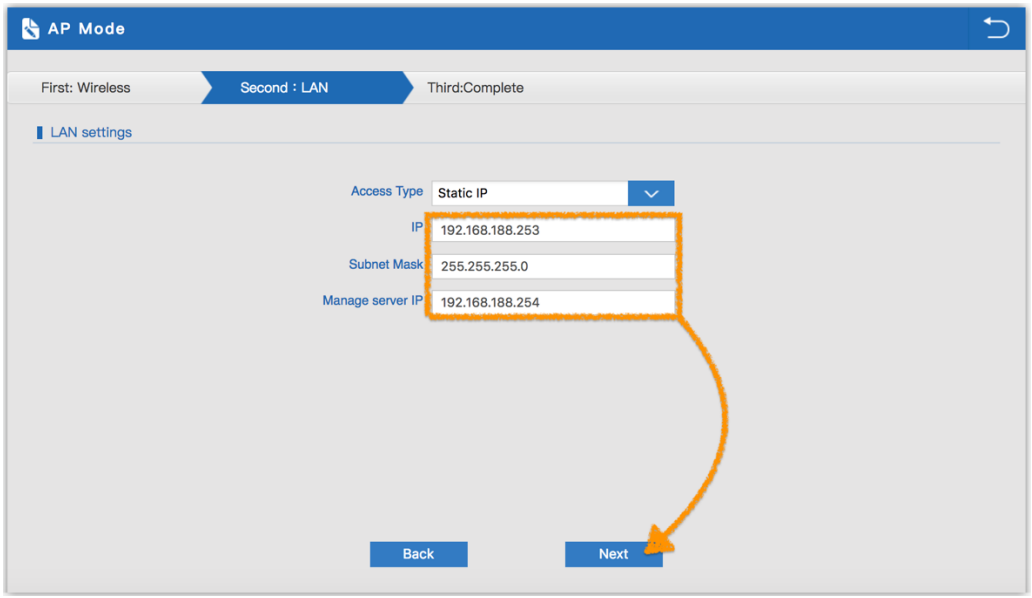
4. Set the wireless data, AP Location info as required, then click next to continue and enter into LAN setting. After LAN setting, complete the AP mode configuration and back to Status.



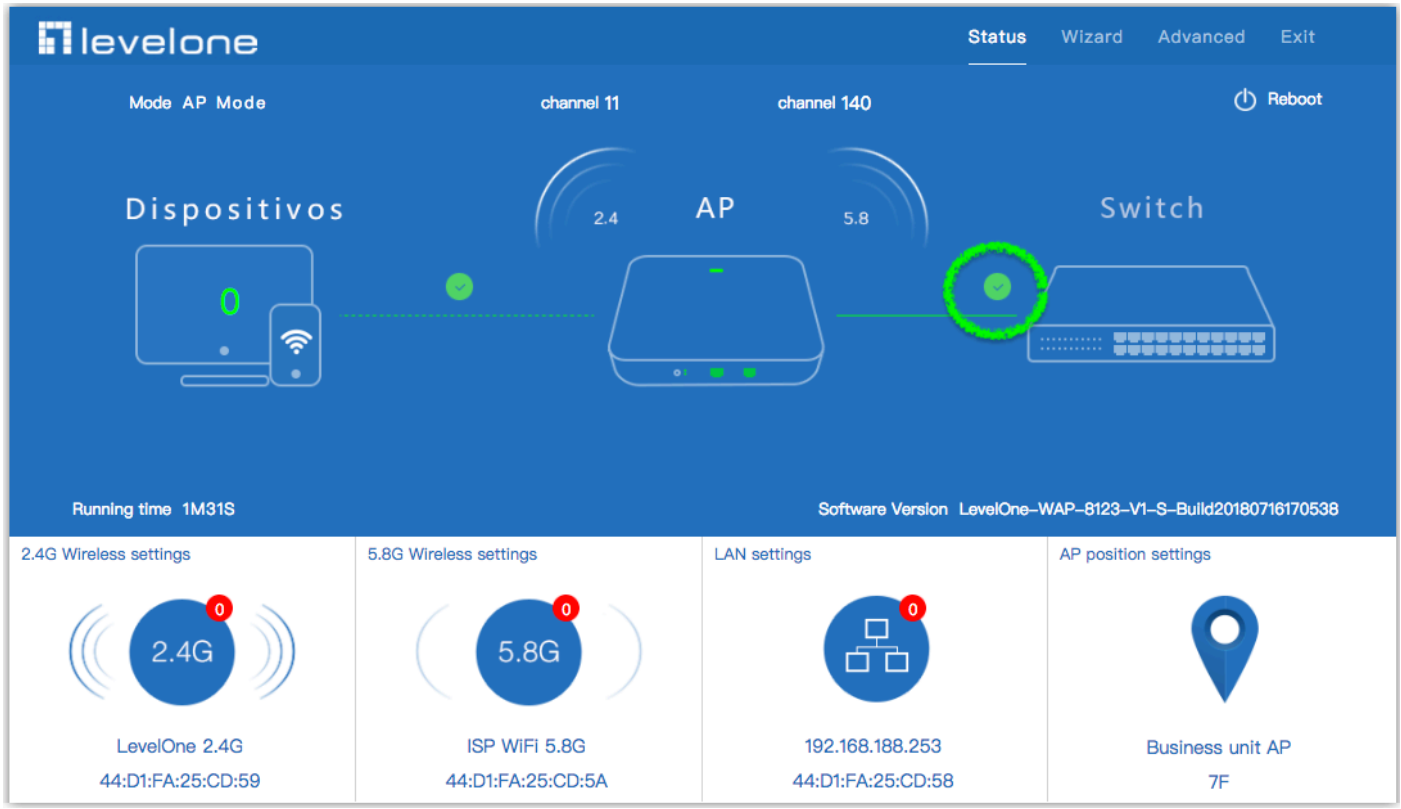
5.Set according to environmental requirements.



6.Demo Static IP setting



7. Check AP Mode Status show fail or success.

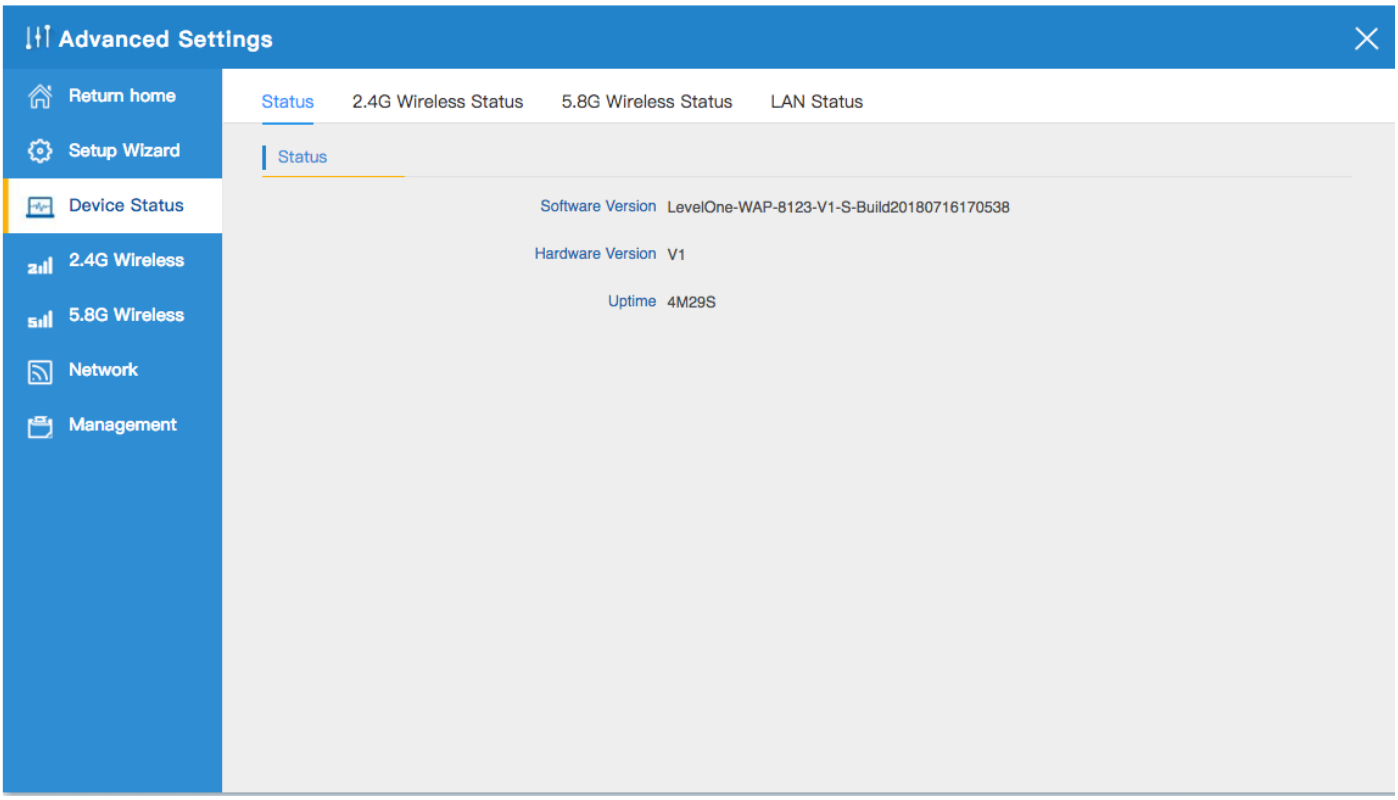


Chapter 4 Advanced Setting

4.1 Device Status

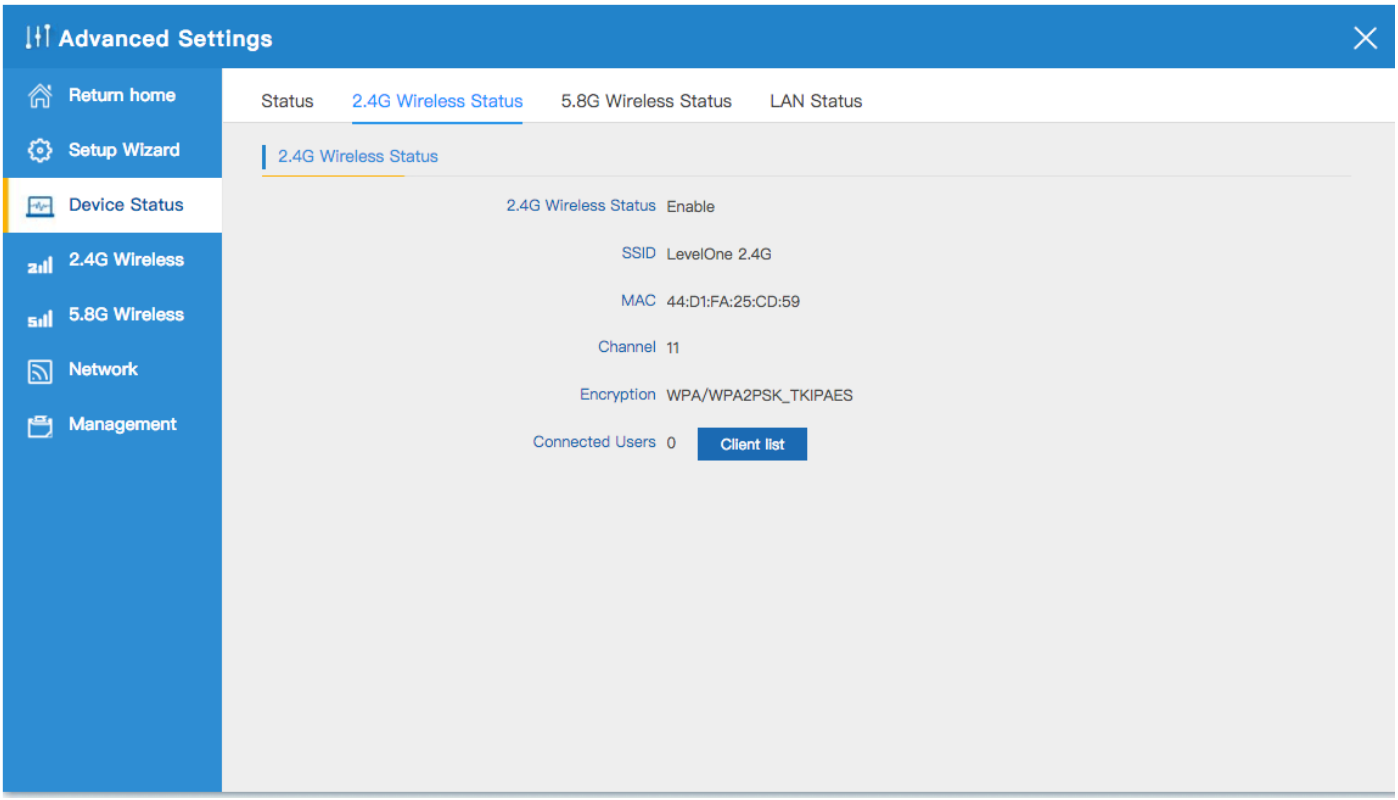
4.1.1 Status:

- Mainly to check the wireless AP's firmware version, hardware version, uptime info.



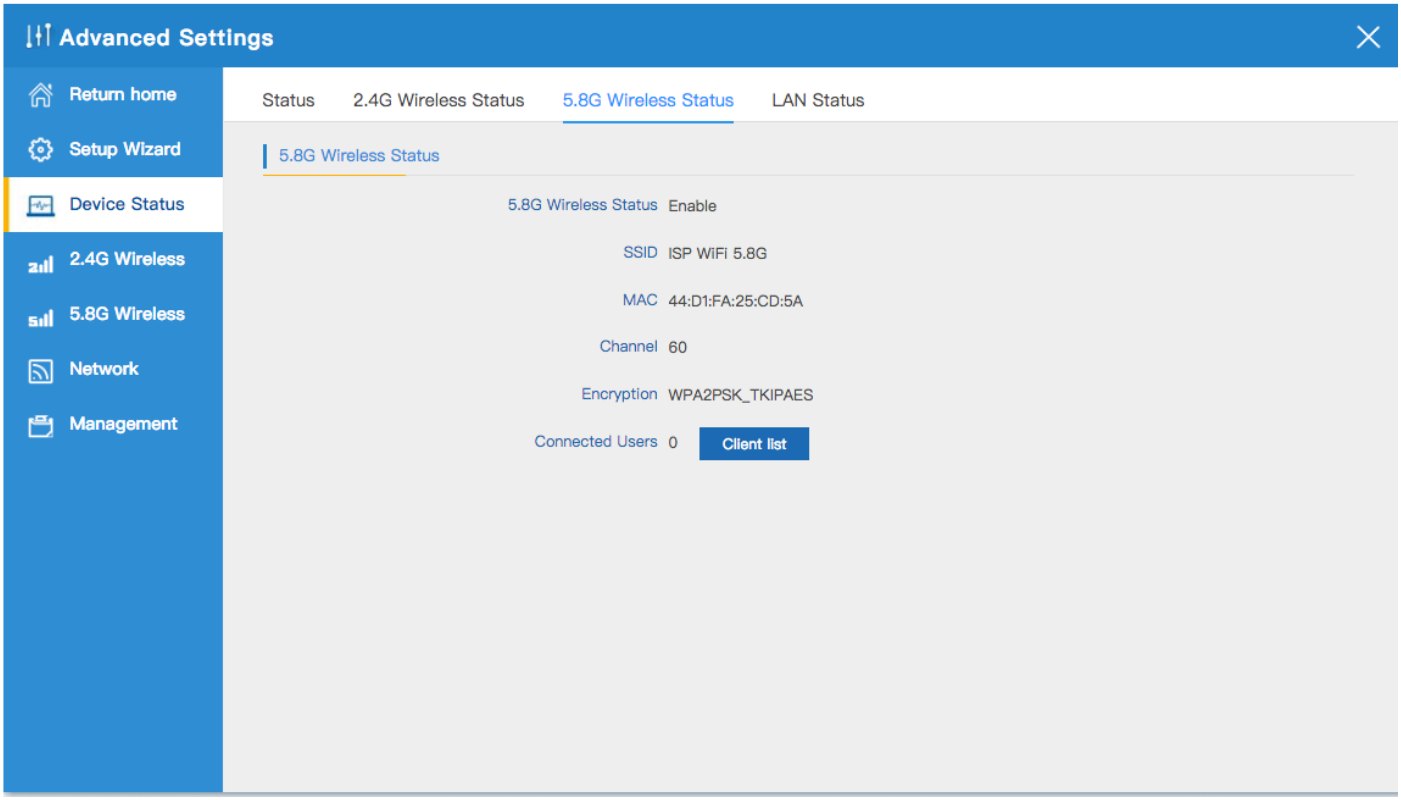
4.1.2 2.4G Wireless Status:

- Show wireless AP's SSID, MAC address for WiFi, Channel, Encryption, Client List info.



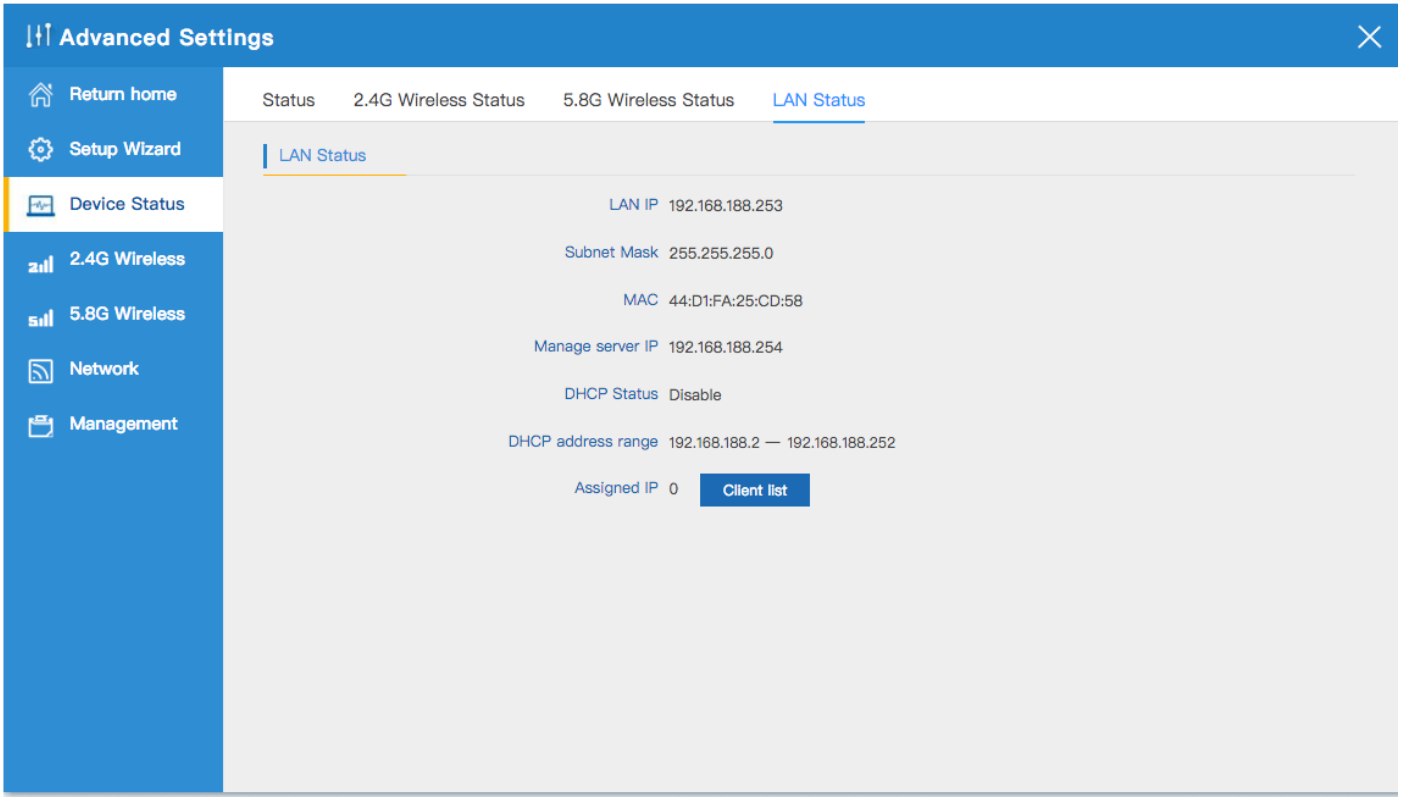
4.1.3 5.8G Wireless Status:

- Show wireless AP's SSID, MAC address for WiFi, Channel, Encryption, Client List info.



4.1.4 LAN Status:

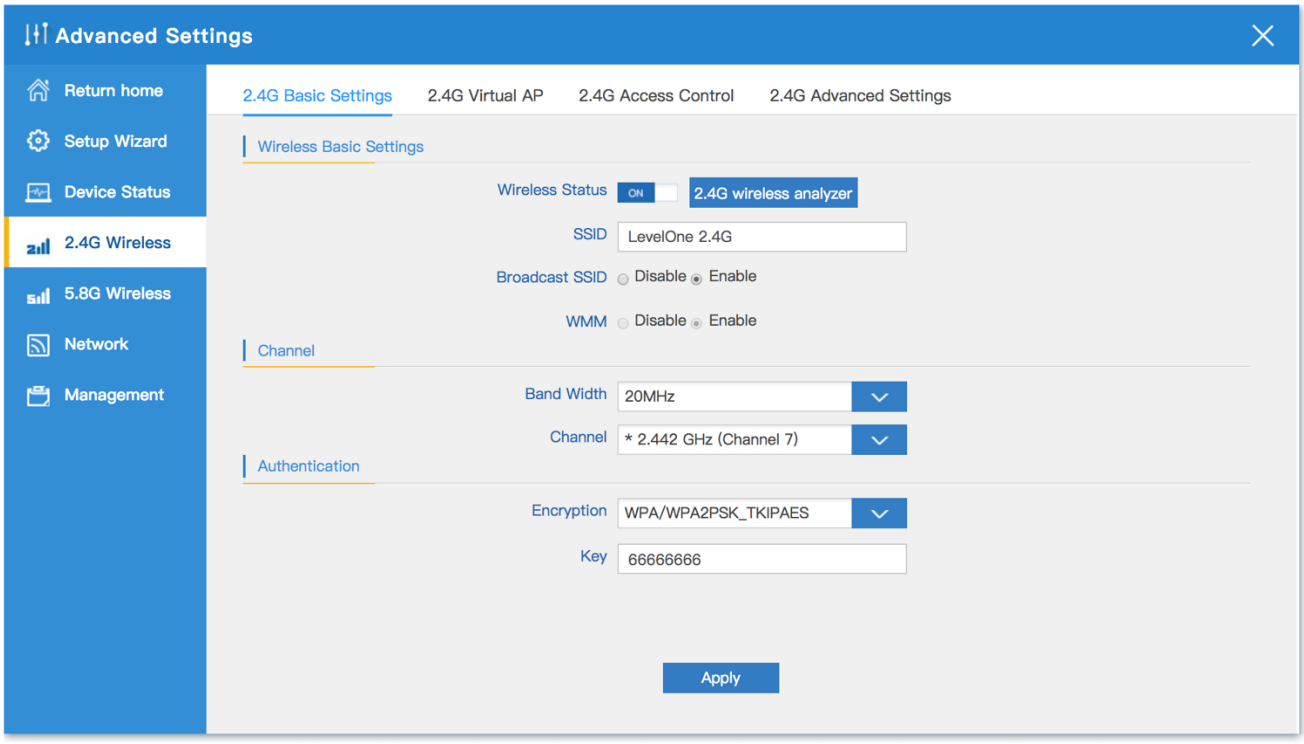
- Check wireless AP's IP address, Subnet Mask, LAN MAC address and other info showed in following picture



4.2 2.4G Wireless

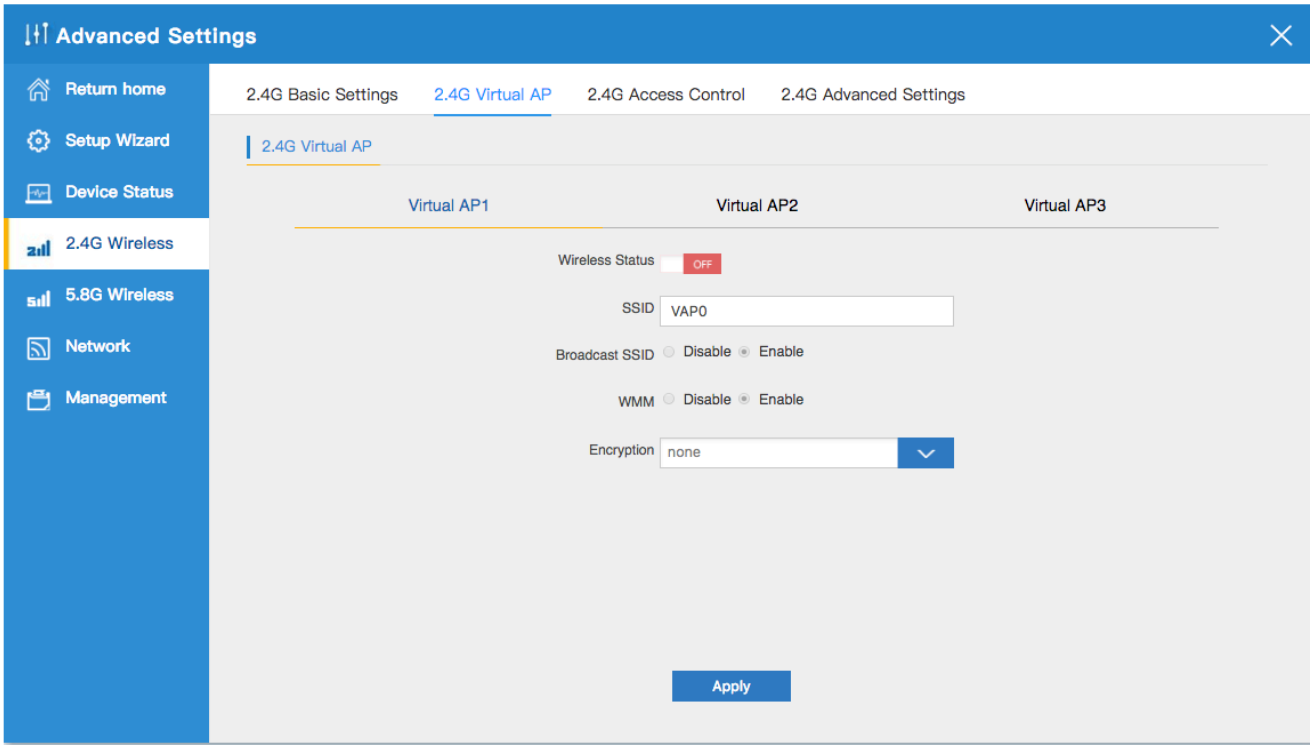
4.2.1 2.4G Basic Settings :

- Mainly to configure the wireless SSID, password, band width ,encryption, channel, Multi SSID.



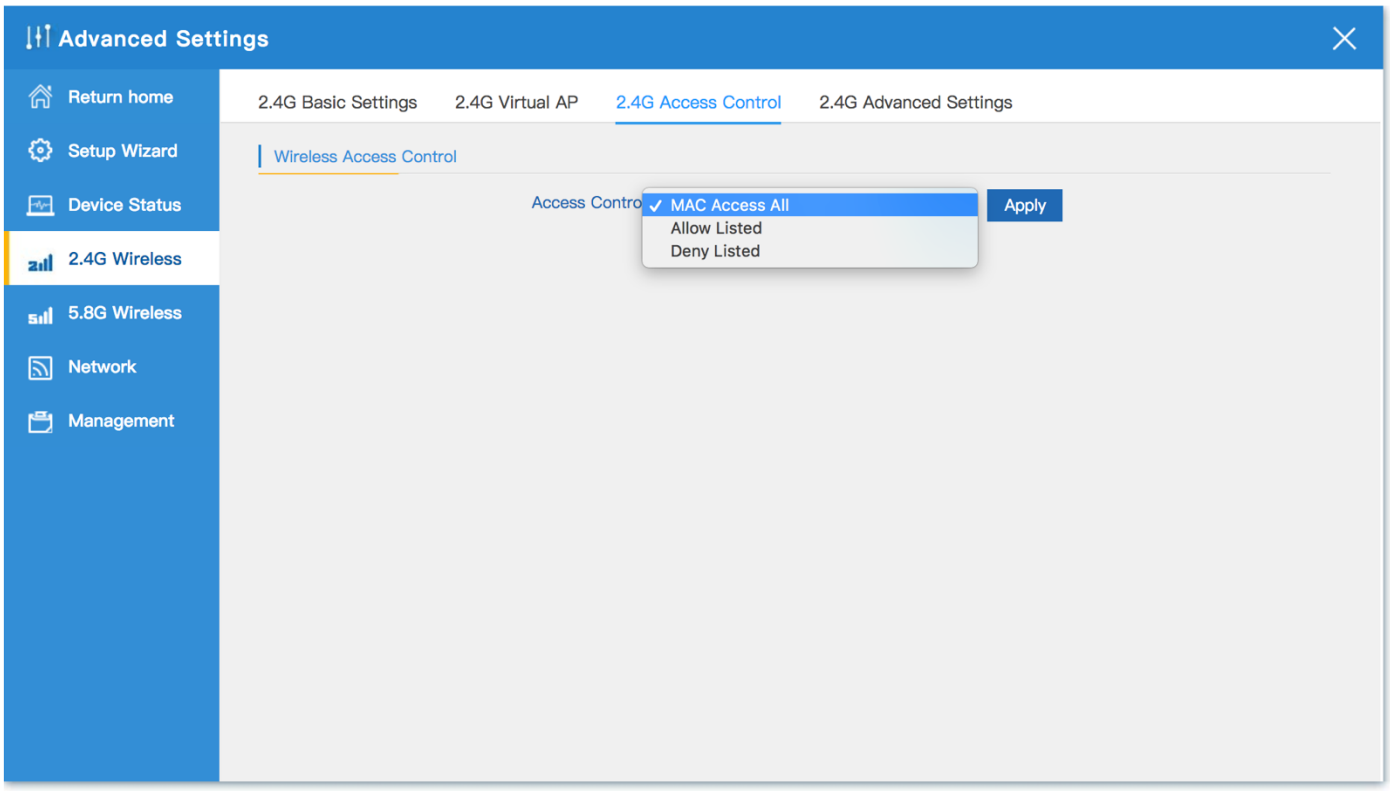
4.2.2 2.4G Virtual AP :

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

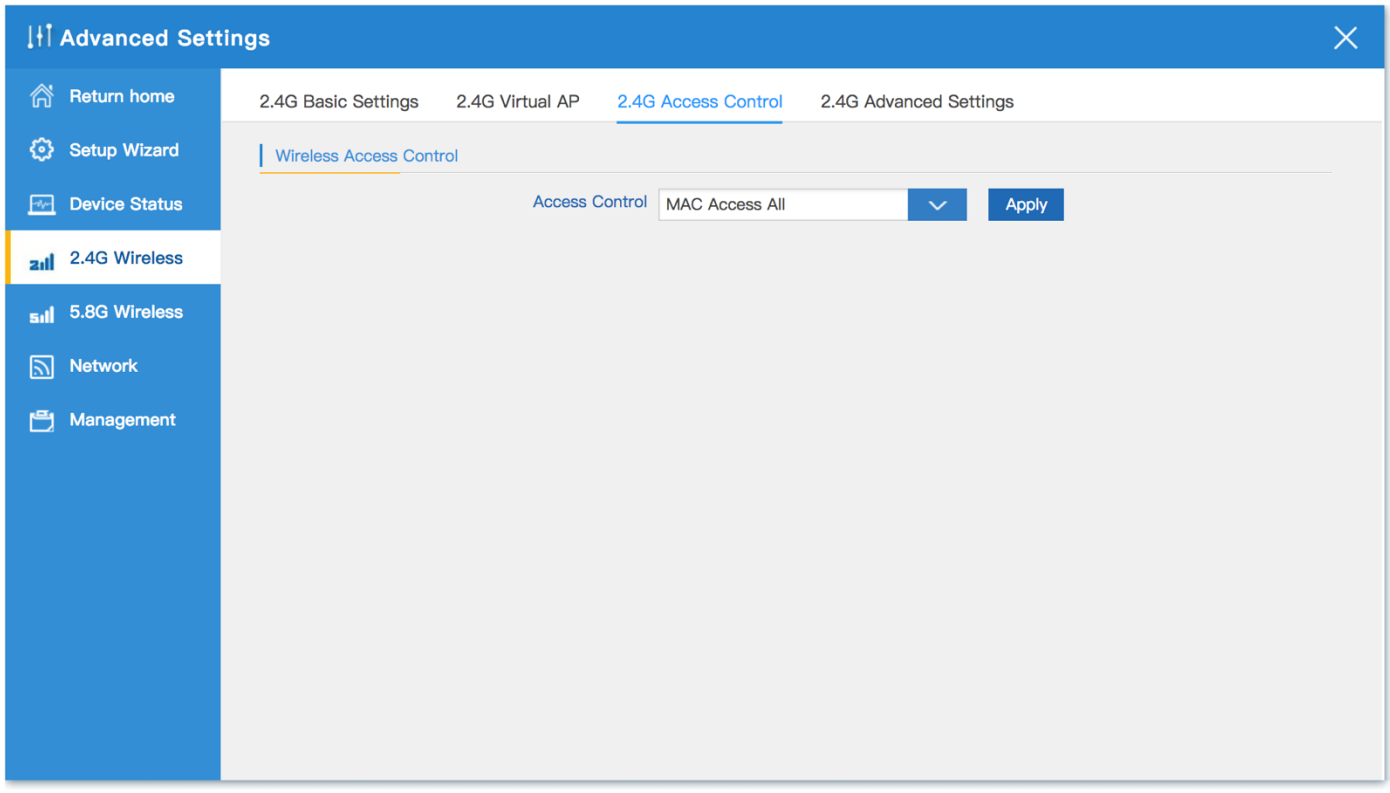


4.2.3 2.4G Access Control :

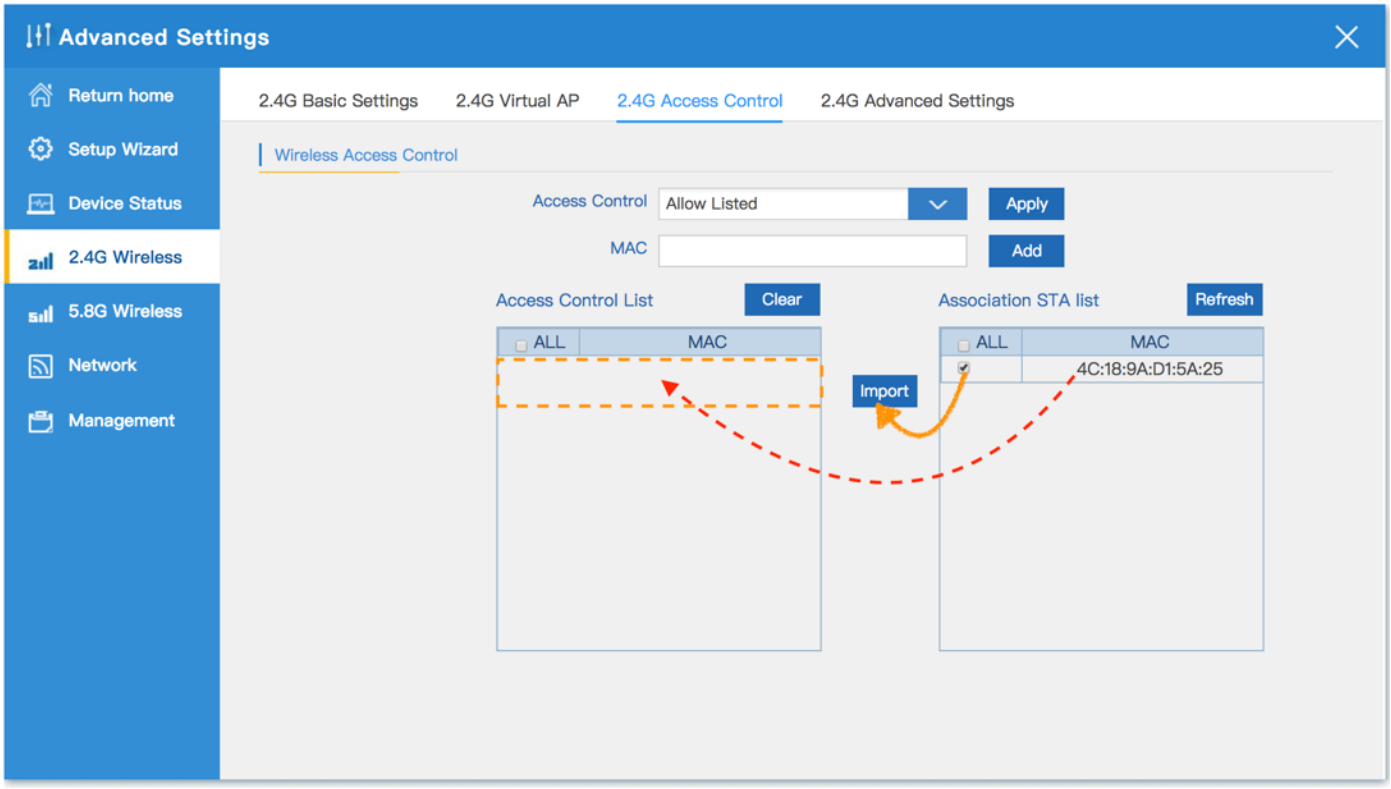
1. Allow or deny the users access into this wireless AP based on MAC address.



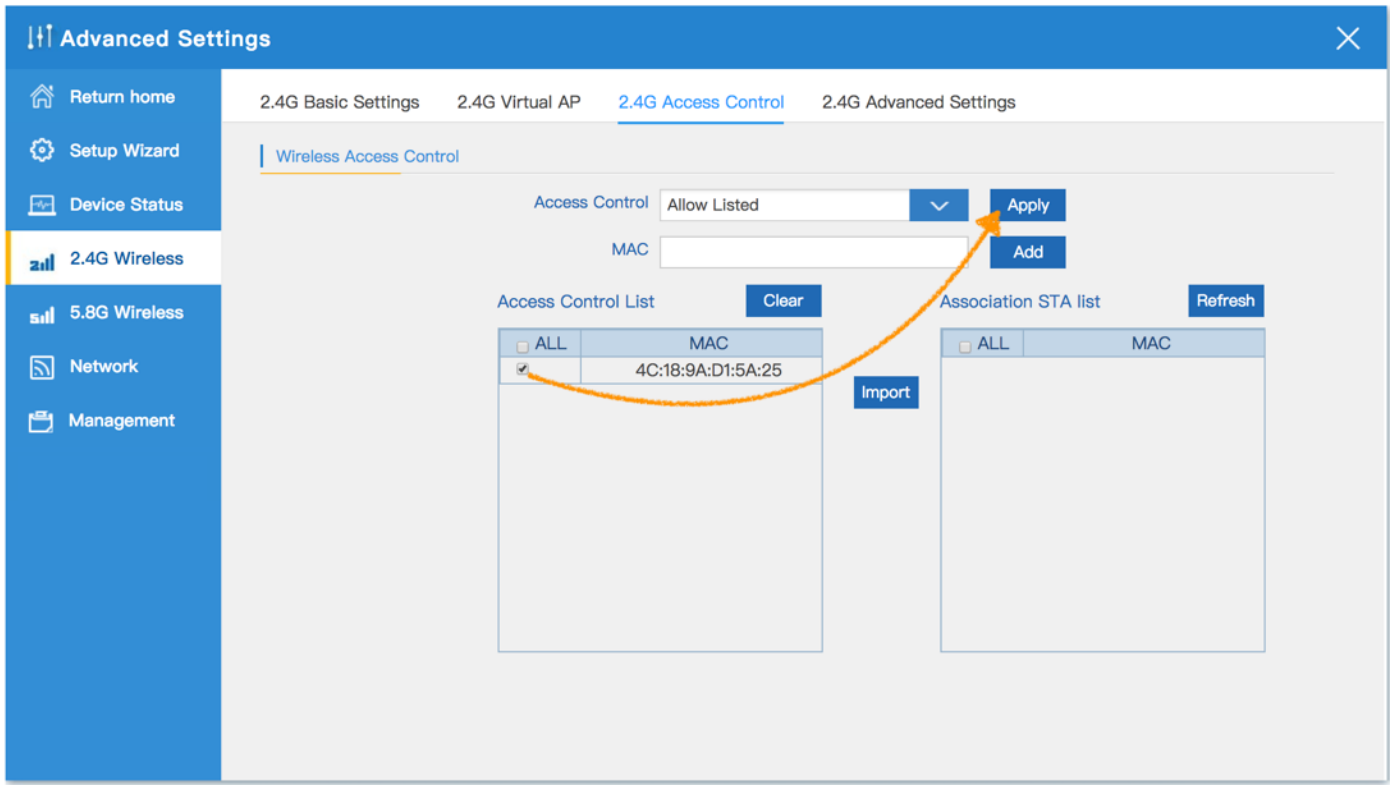
2. Allow all the users access into this wireless AP



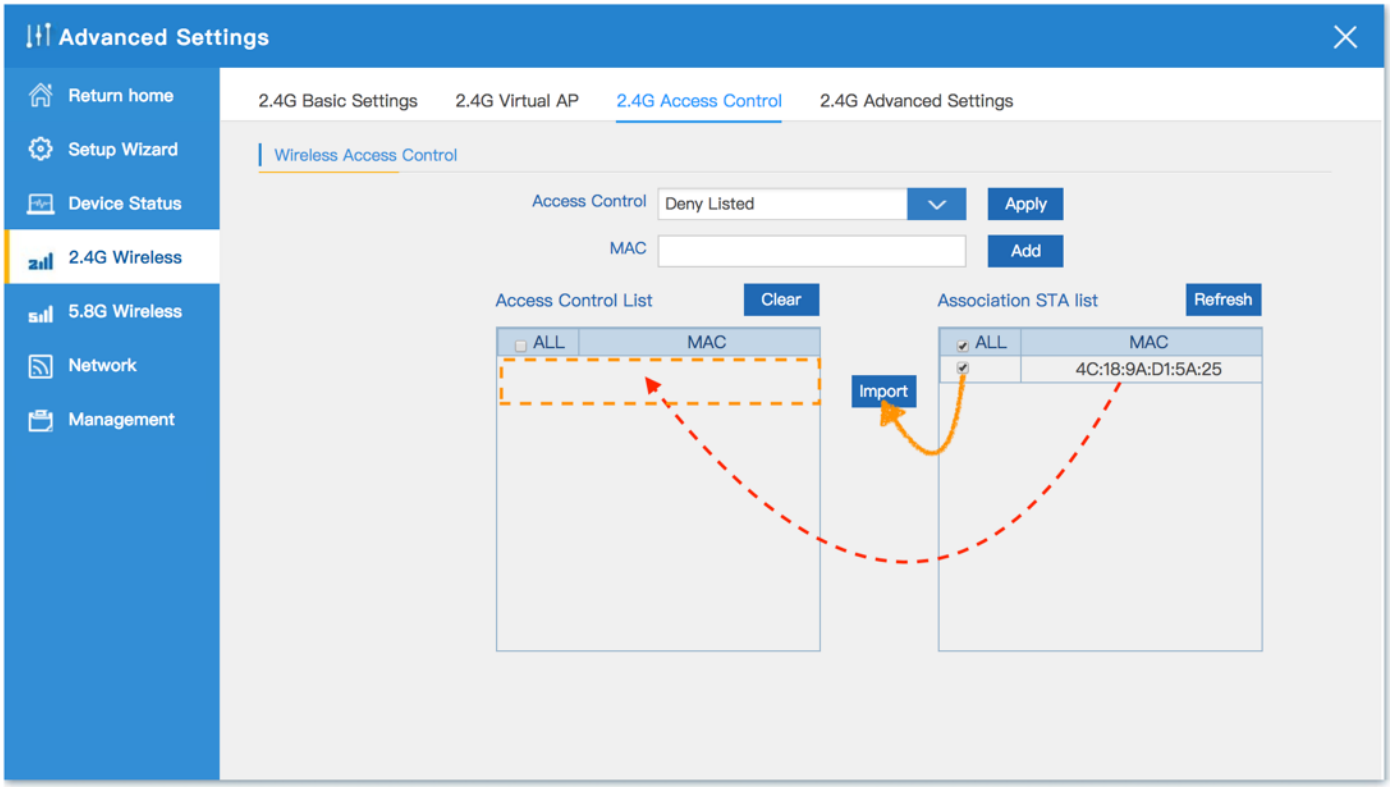
3. Only users who have joined the MAC address list can access the wireless AP.
   The following is a demonstration of teaching . Add the user MAC address in the list to the access control list



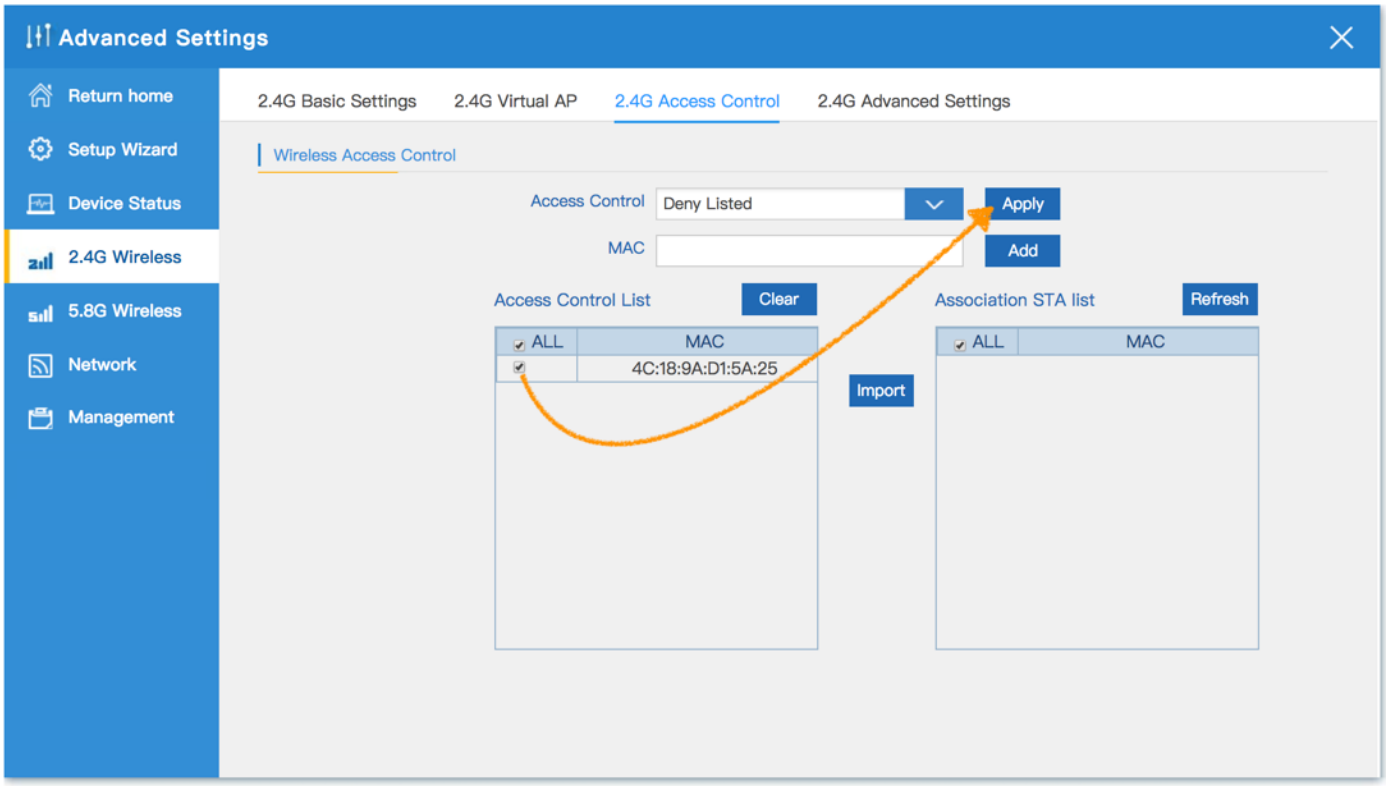
4. After the user's MAC address is added to the access control list, Click Apply.
   After setting is completed, it will start to allow users access to this wireless AP function



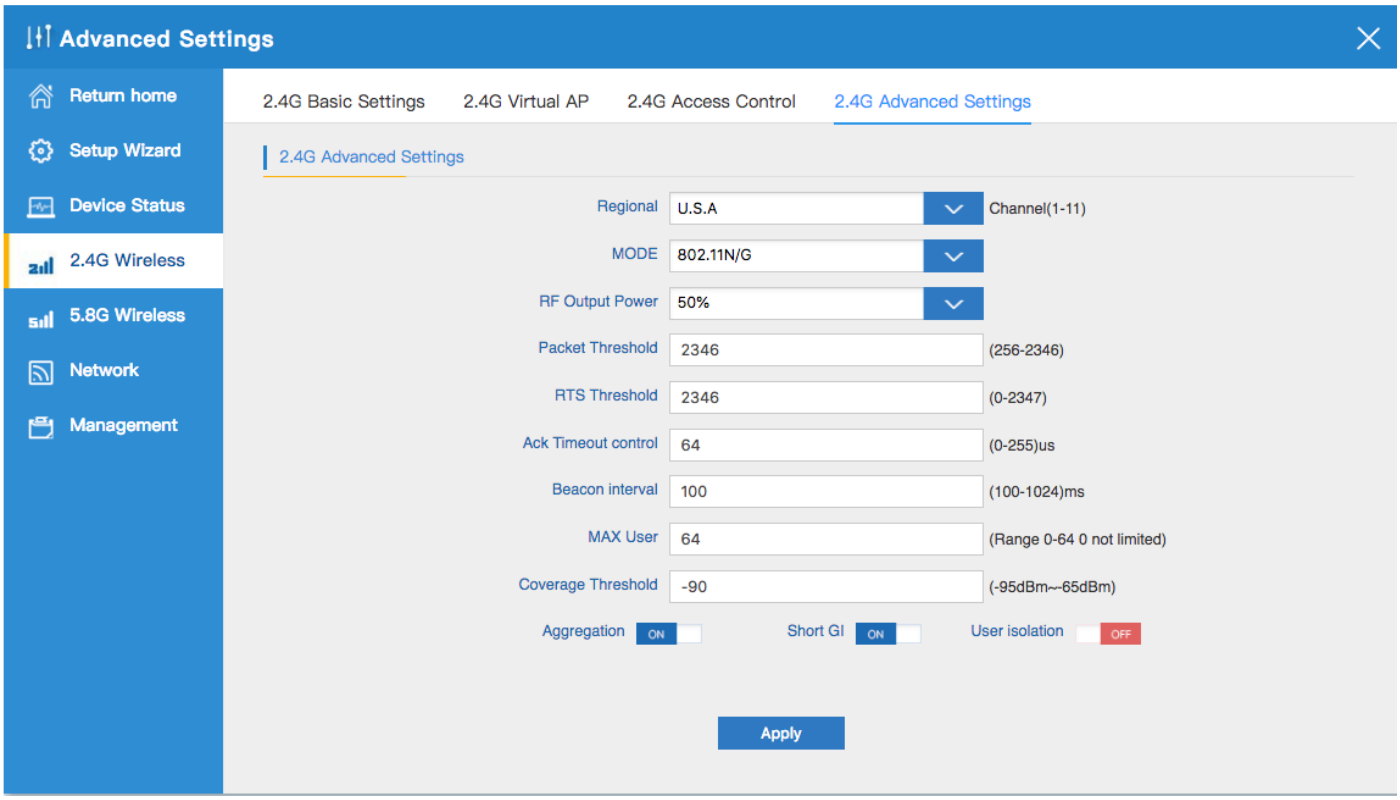
5. Users who have joined the MAC address list are denied access to the wireless AP.
   The following is a demonstration of teaching . Add the user MAC address in the list to the access control list



6. After the user's MAC address is added to the access control list, Click Apply.
   After setting is completed, it will start to deny users access to this wireless AP function



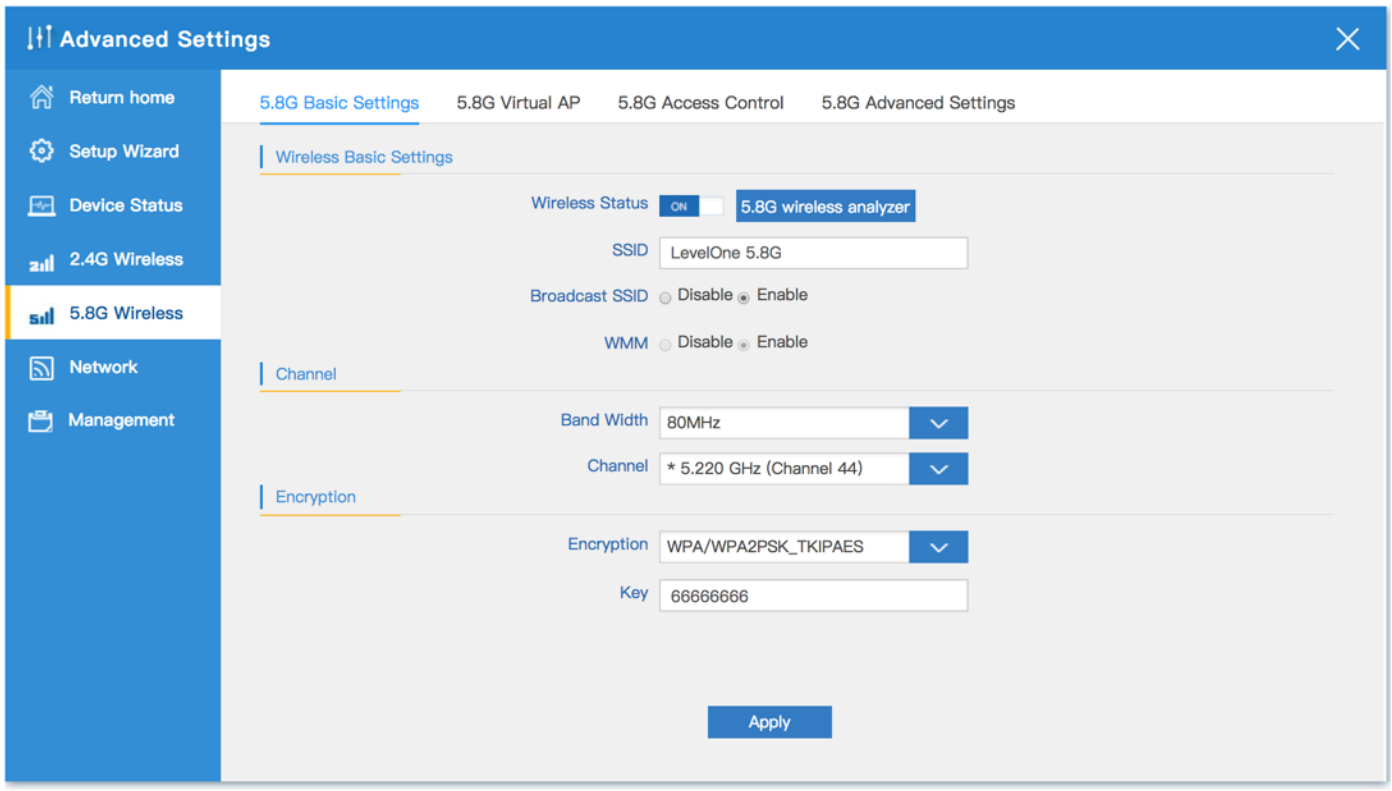
7. In this page, will show the regional, mode, RF Power, Max user access...



4.3 5.8G Wireless

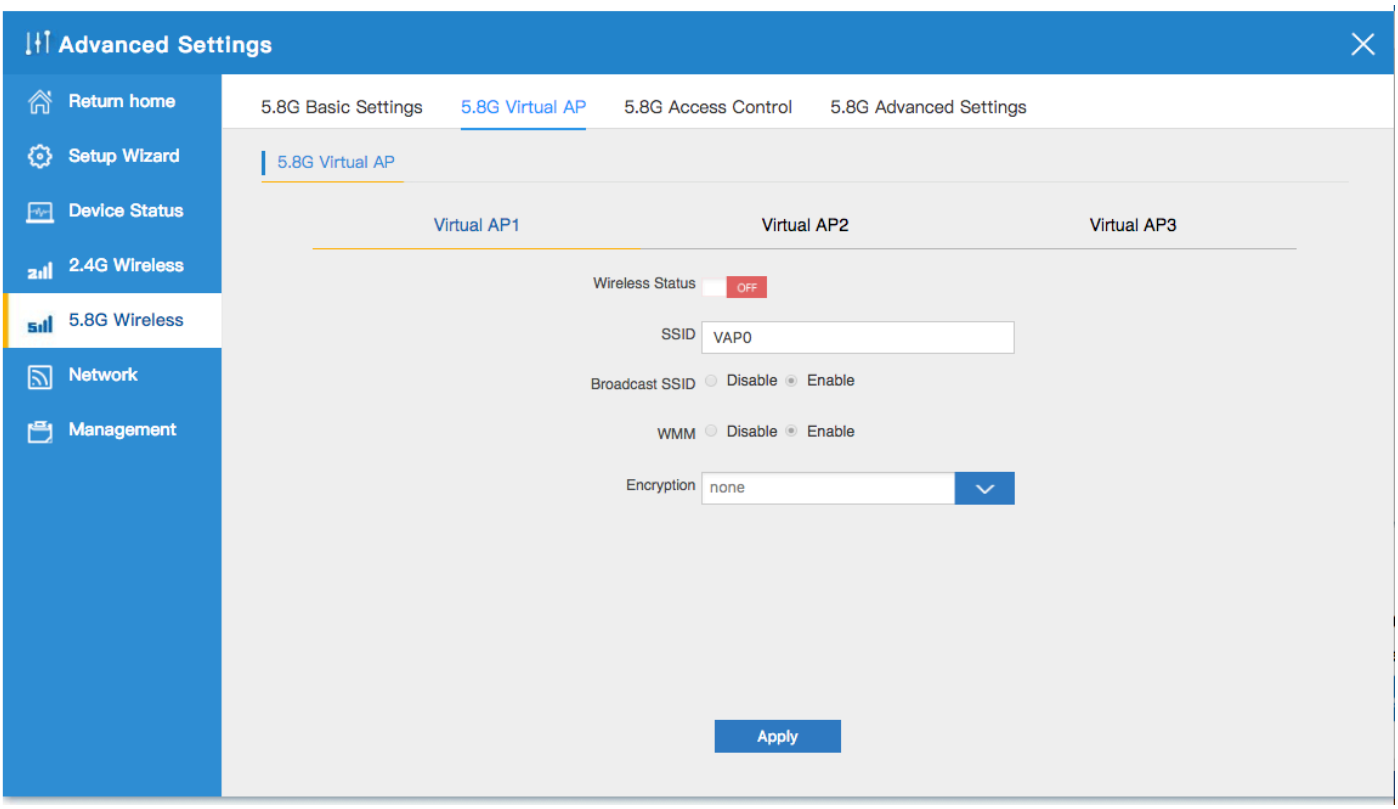
4.3.1 5.8G Basic Settings :

- Mainly to configure the wireless SSID, password, band width ,encryption, channel, Multi SSID.



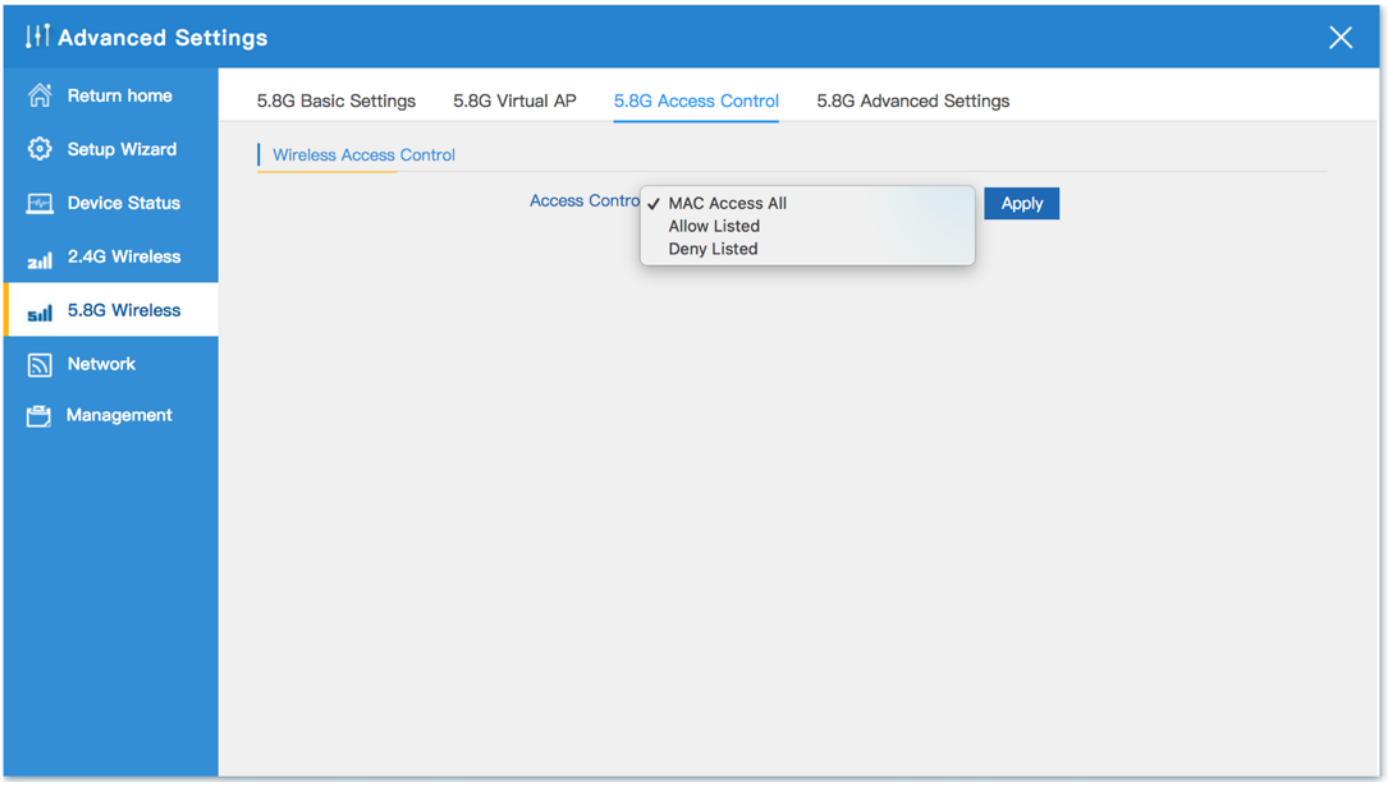
4.3.2 5.8G Virtual AP :

- There are 3 virtual AP in 5.8G wireless, if need enable multi SSIDs, then users can configure it showed in following picture:

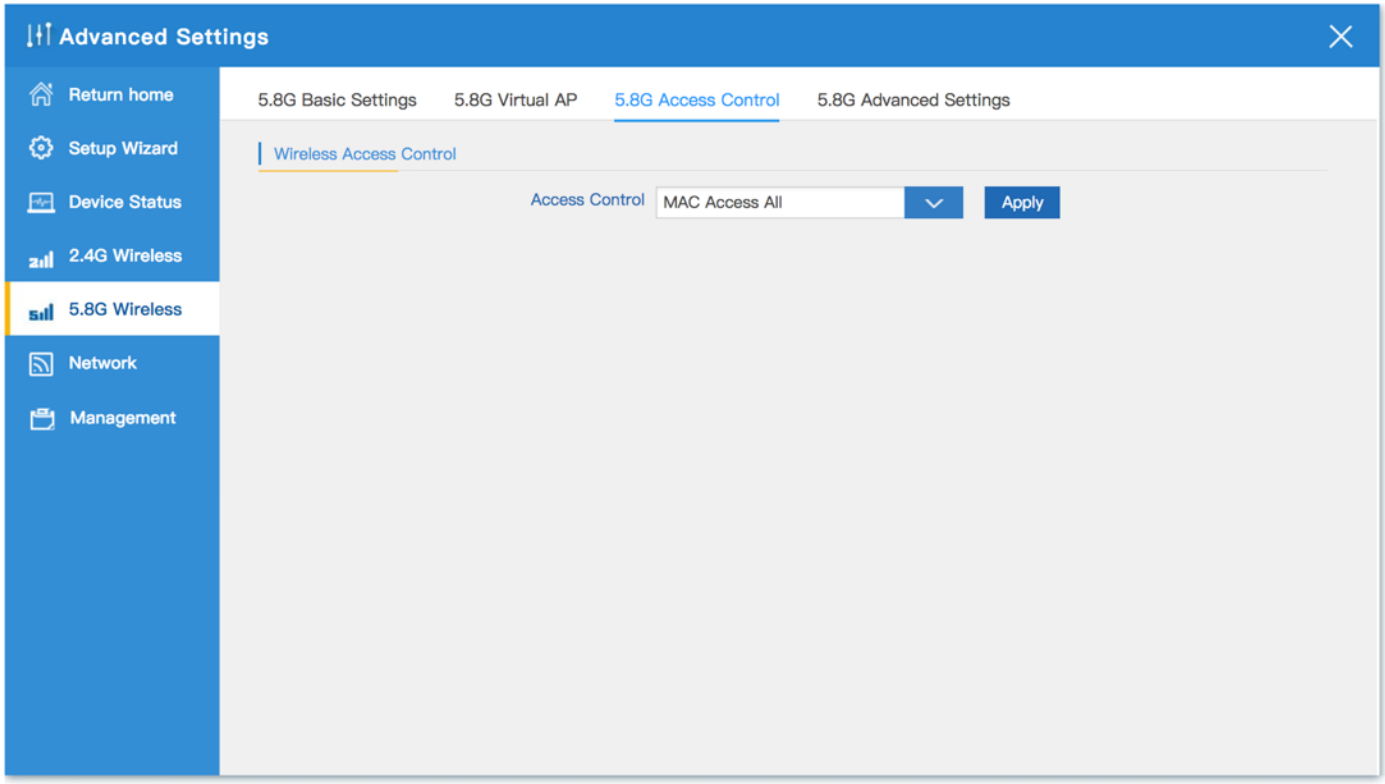


4.3.3 5.8G Access Control :

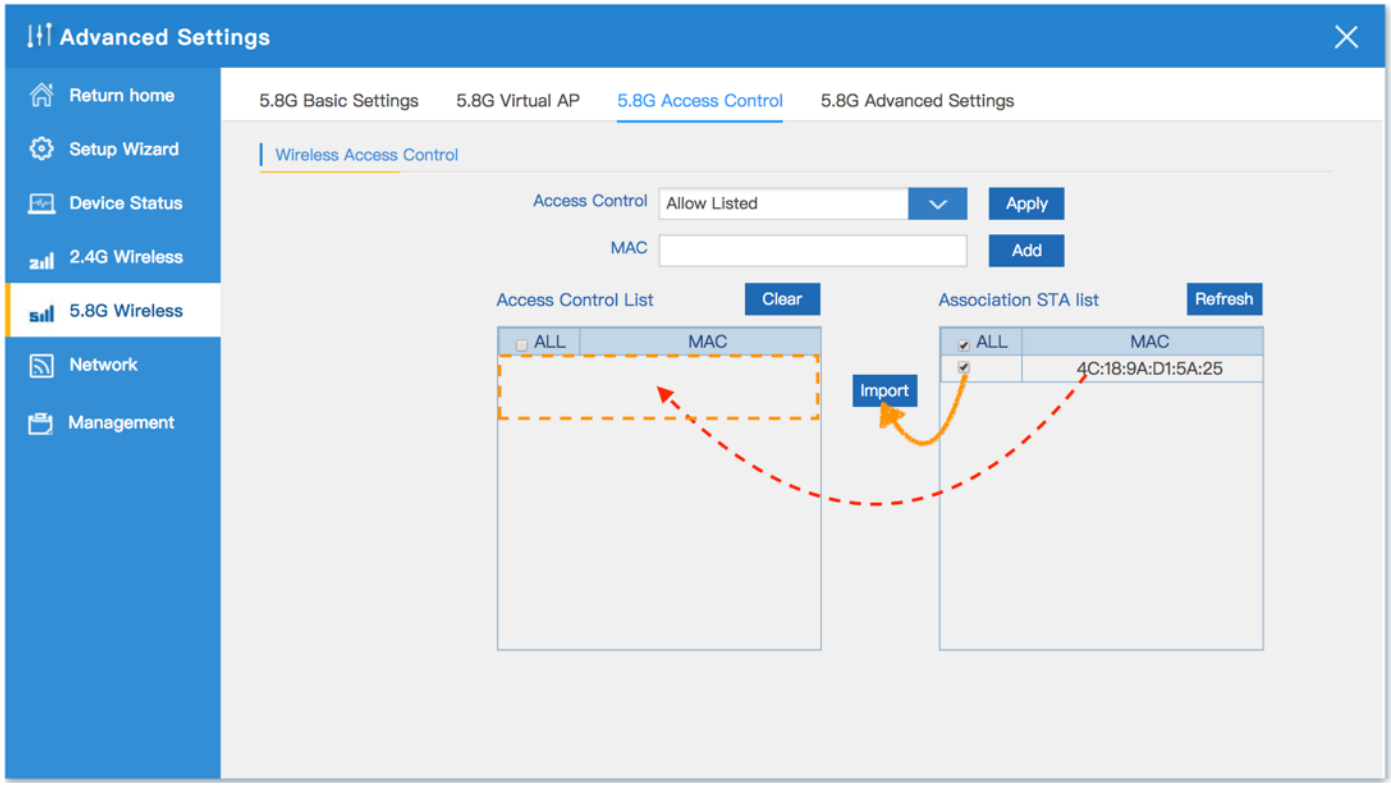
1. Allow or deny the users access into this wireless AP based on MAC address.



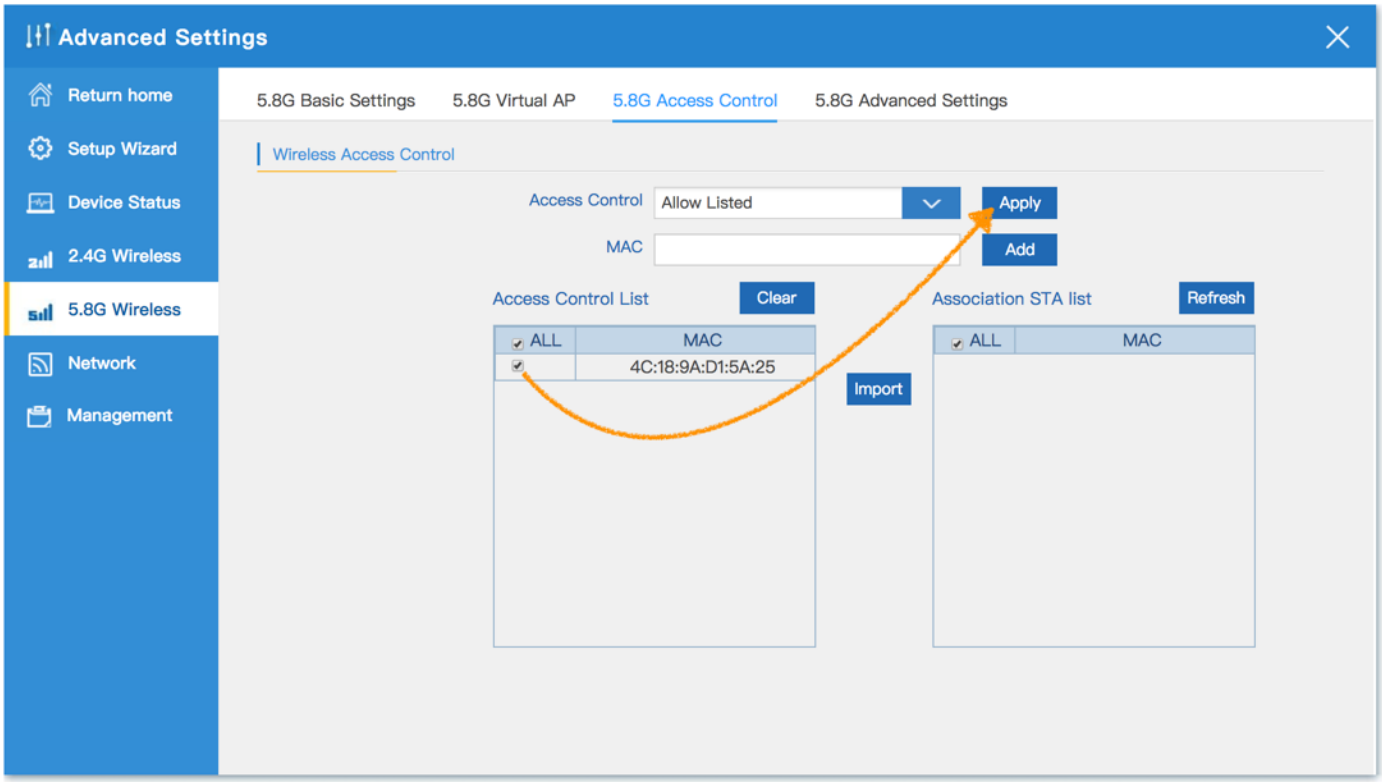
2. Allow all the users access into this wireless AP



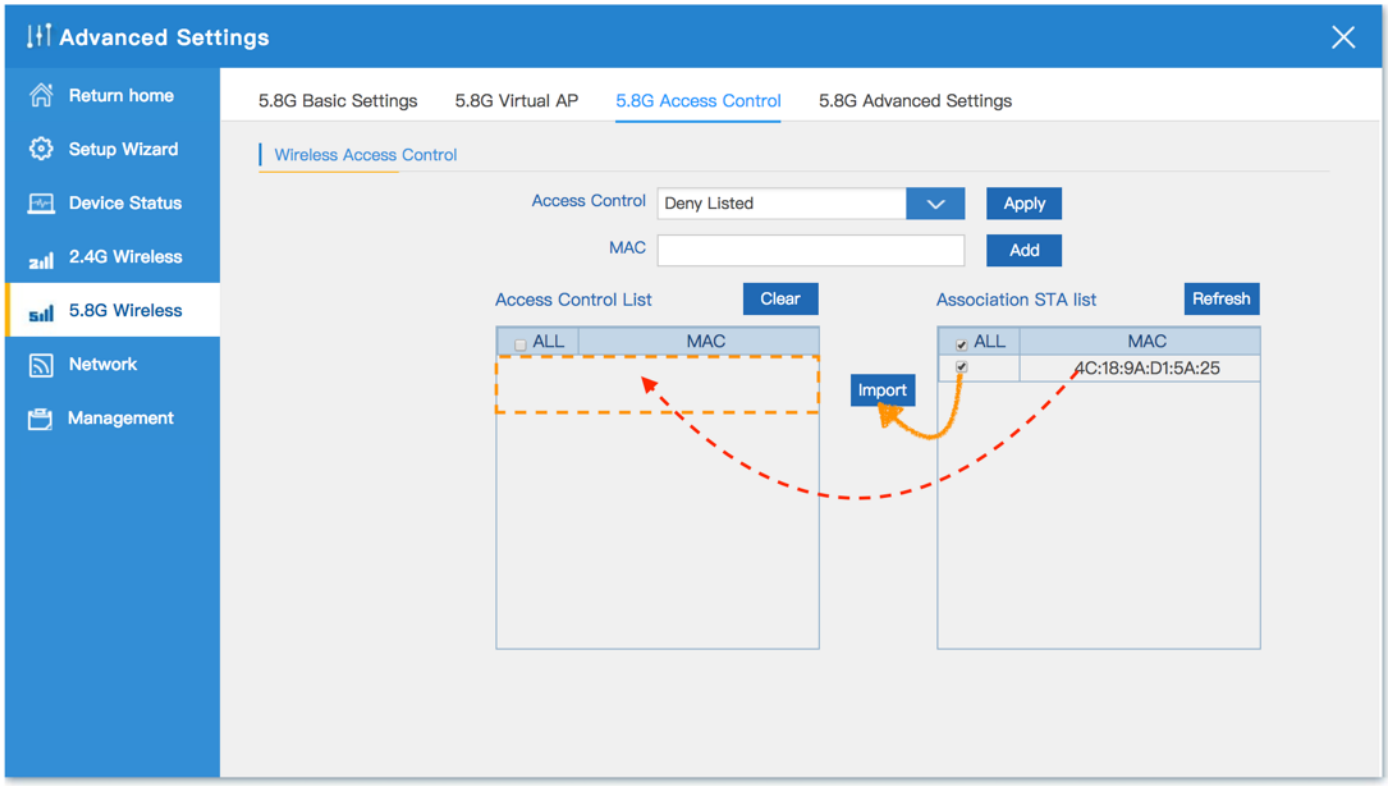
3. Only users who have joined the MAC address list can access the wireless AP. The following is a demonstration of teaching . Add the user MAC address in the list to the access control list



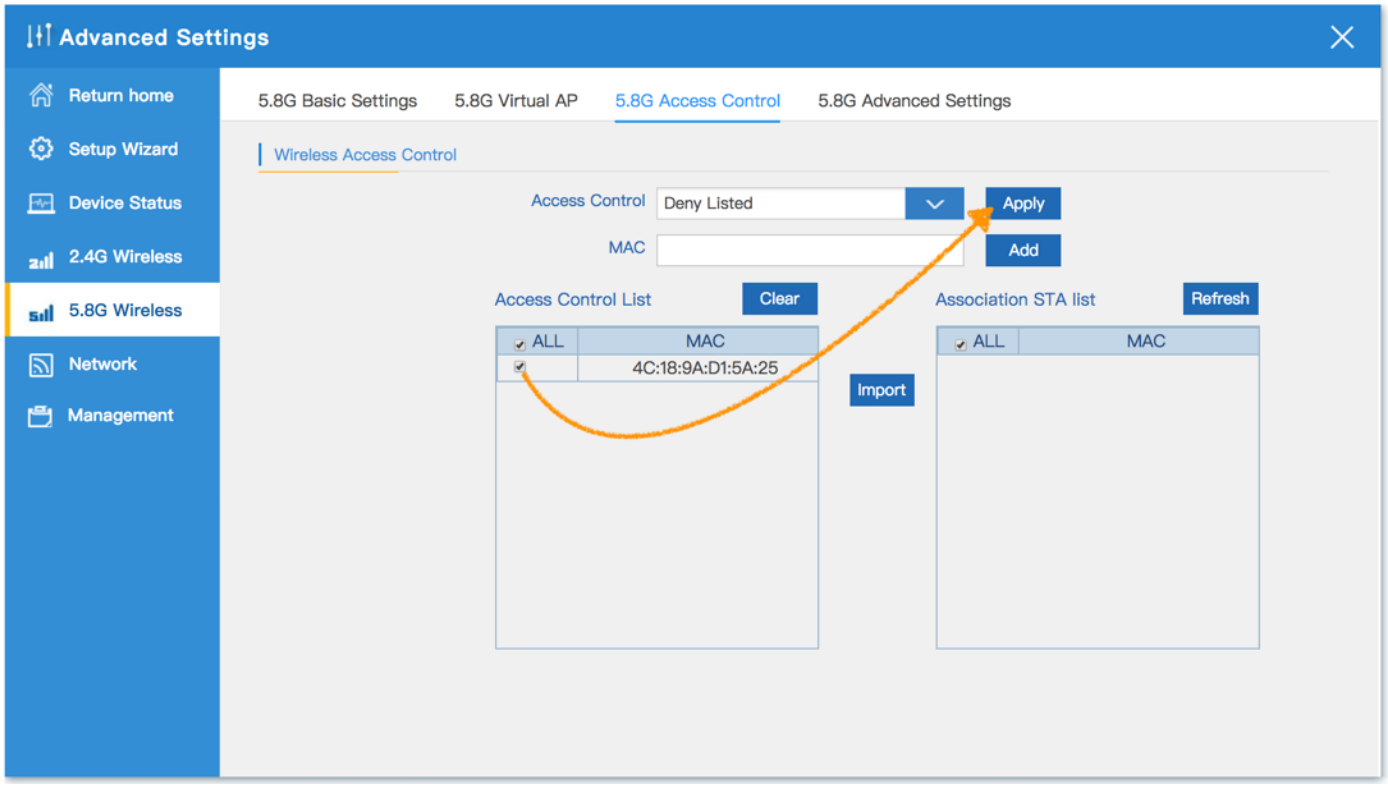
4. After the user's MAC address is added to the access control list, Click Apply. After setting is completed, it will start to allow users access to this wireless AP function



5. Users who have joined the MAC address list are denied access to the wireless AP. The following is a demonstration of teaching . Add the user MAC address in the list to the access control list

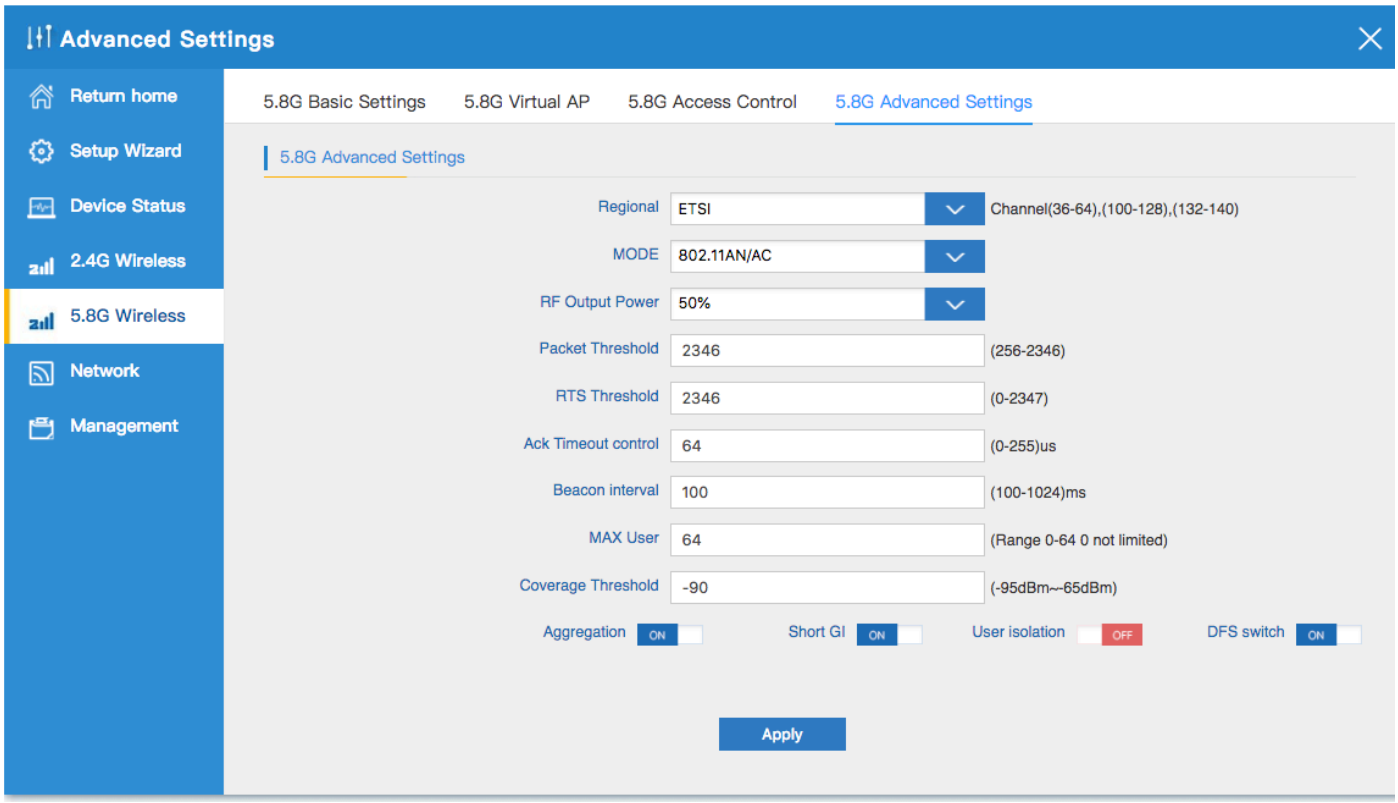


6. After the user's MAC address is added to the access control list, Click Apply. After setting is completed, it will start to deny users access to this wireless AP function



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

Remark : In Regional, the default is Debug, which including the frequency of 5.180GHz to 5.825GHz, but some local laws will prohibit this, so, pls strictly abide by local laws and by cautious in using them.

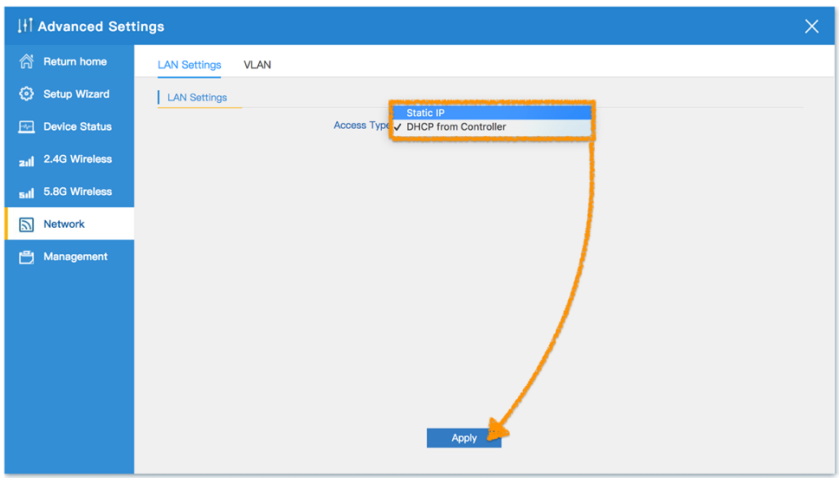


CHAPTER 5 Enable the status of Repeater Mode or AP Mode

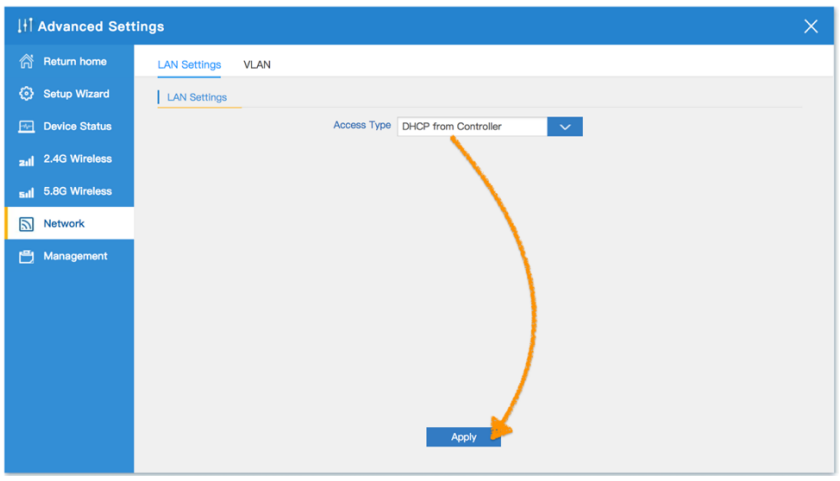
5.1 Network

5.1.1 LAN Settings:

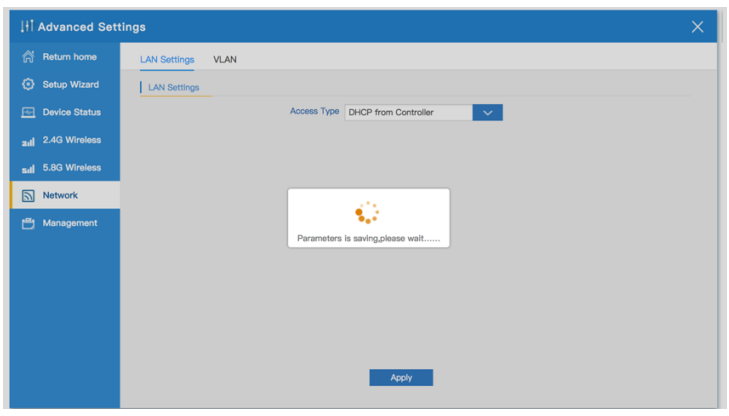
1. Can choose two kinds of usage modes (Static IP, DHCP for Controller) which can be selected according to the current network architecture environment.



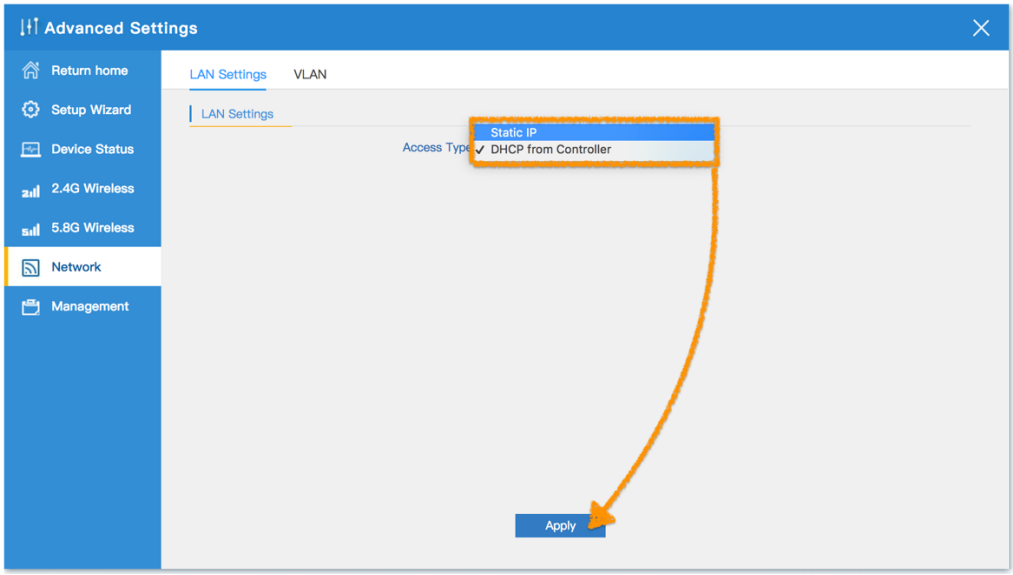
2. Use DHCP for Controller mode, please confirm that the current network architecture has IP address allocation.



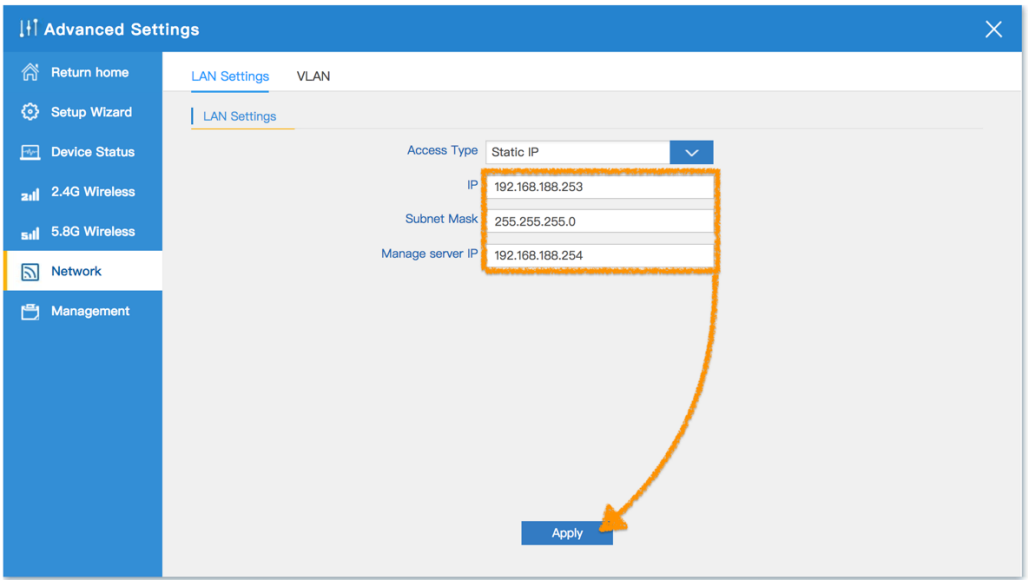
3. Click Apply, Wait for DHCP Controller Mode is Enable, please wait about 20~30 seconds.



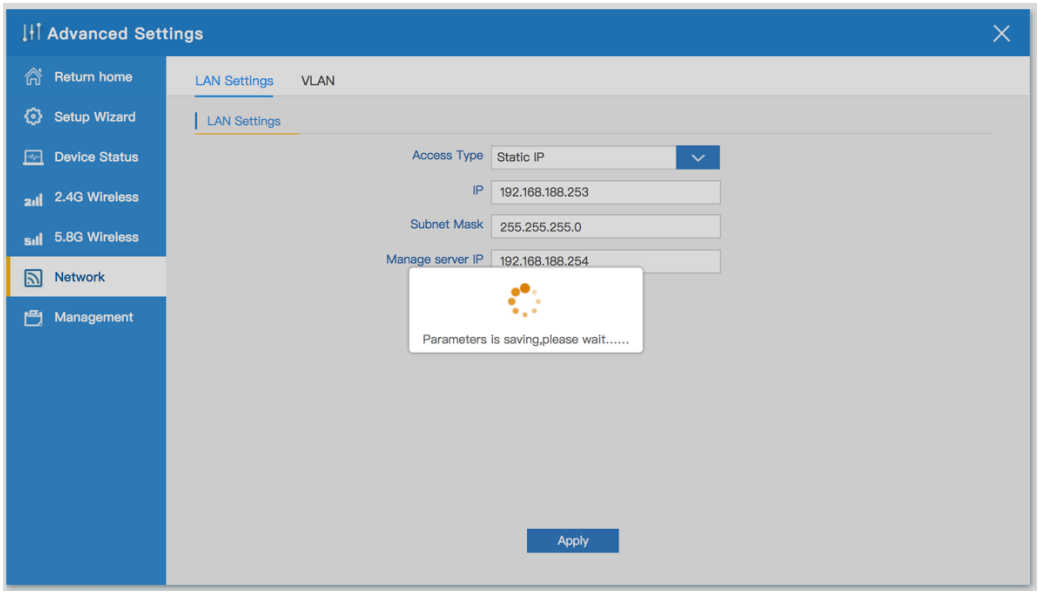
4. The following example for Static IP Mode



5. Sample Static IP mode setting method, then click Apply to continue.
(Please contact with ISP for correct IP address, Subnet MasDNS address)

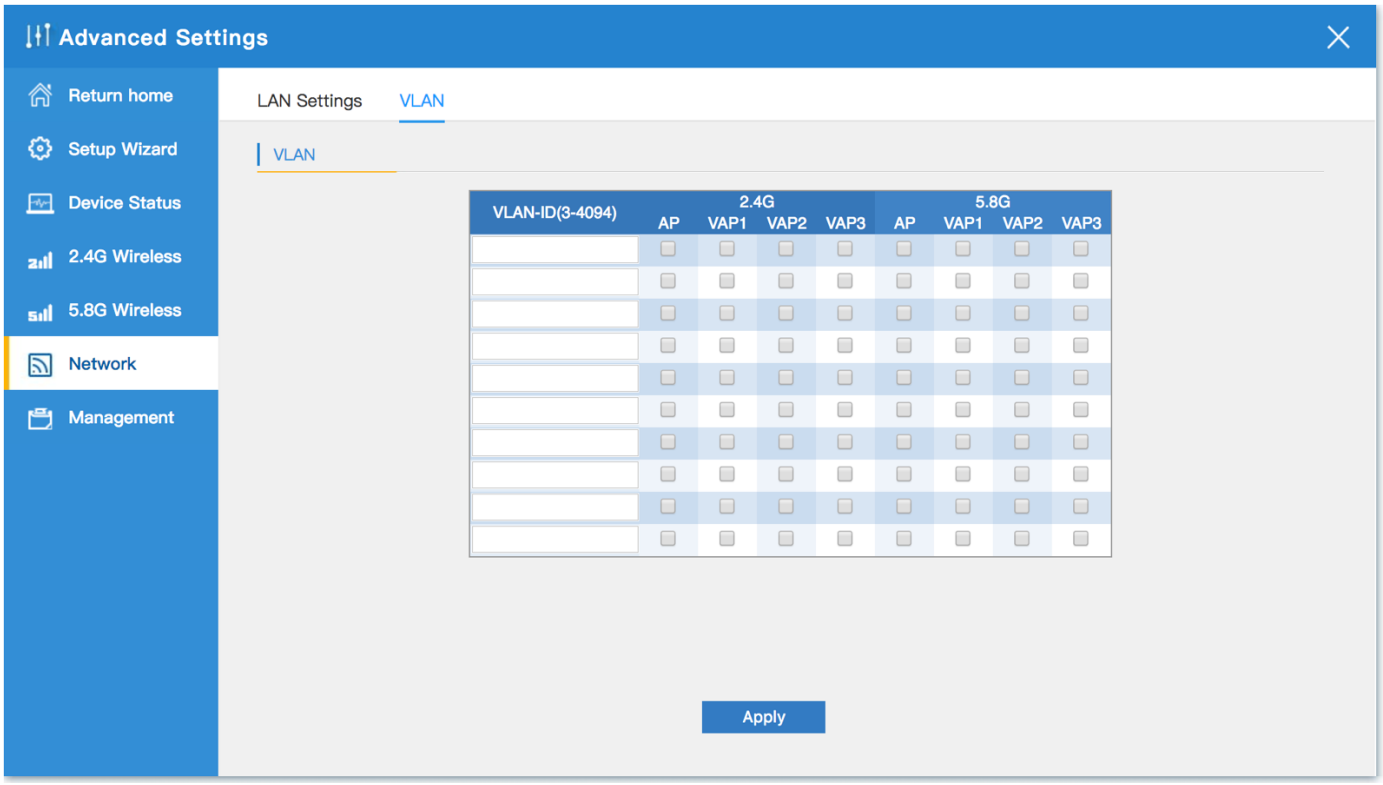


6. Click Apply, Wait for Static IP Mode is Enable, please wait about 40~50 seconds.



5.1.2 VLAN :

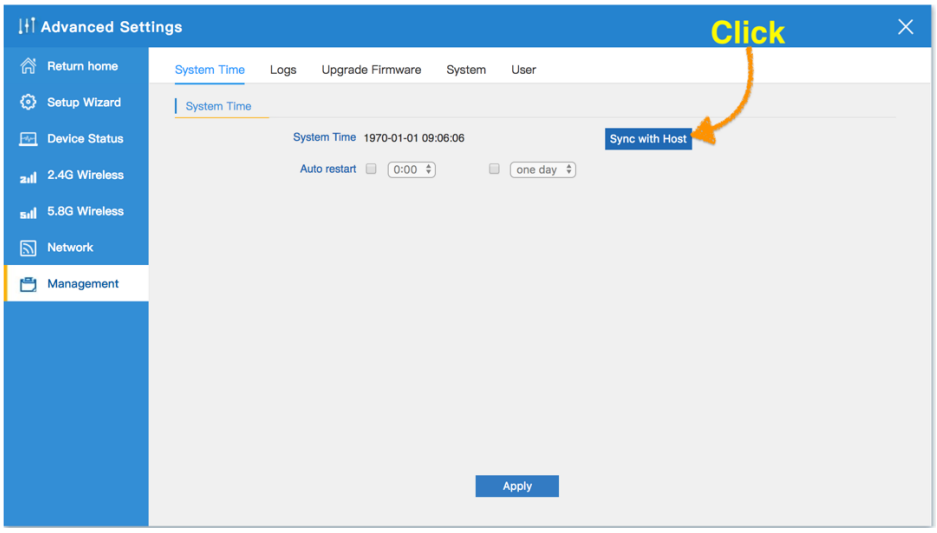
- Please confirm before you can use ,Need support IEEE 802.1Q and VLAN Tagging Managed Switch, Specify WiFi SSID for WAP-8123 , corresponding to the VLAN-ID (3-4094).



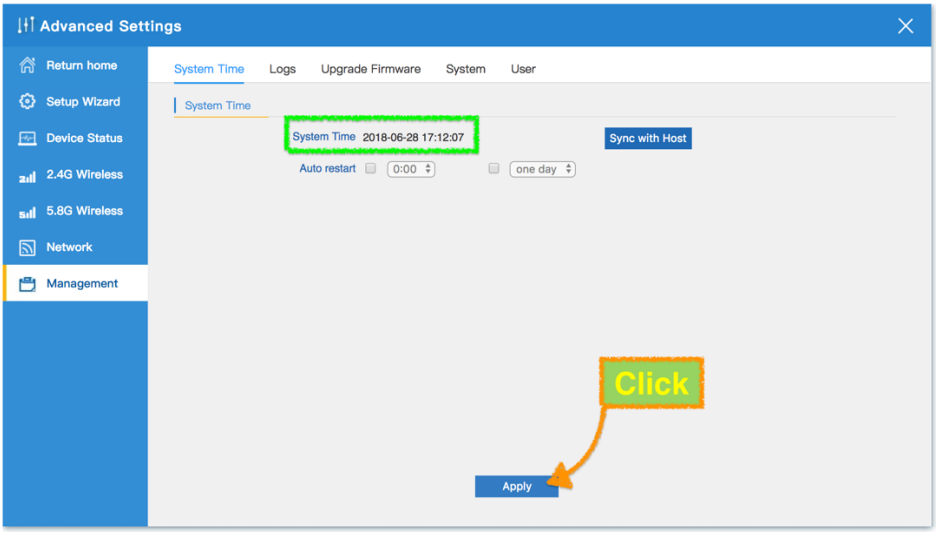
5.2 Management

5.2.1 System Time :

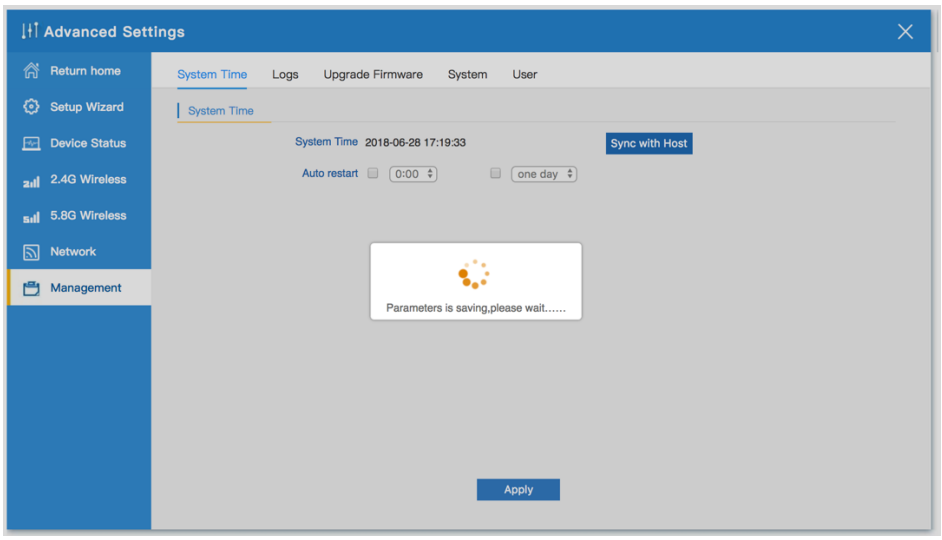
1. Click on Sync with Host to automatically update to the current Time.



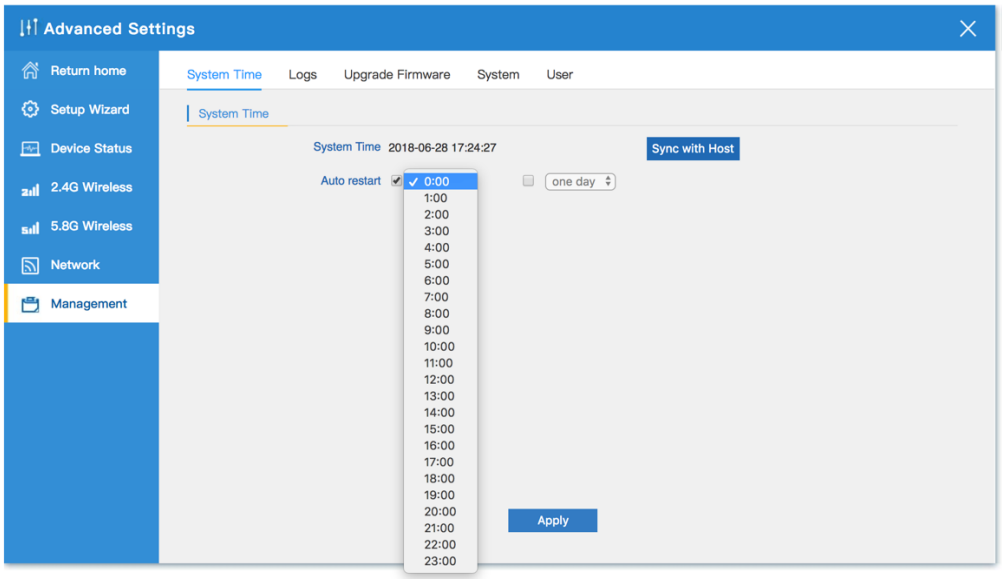
2. Confirm that System Time is correctly refreshed to the current time, Click Apply



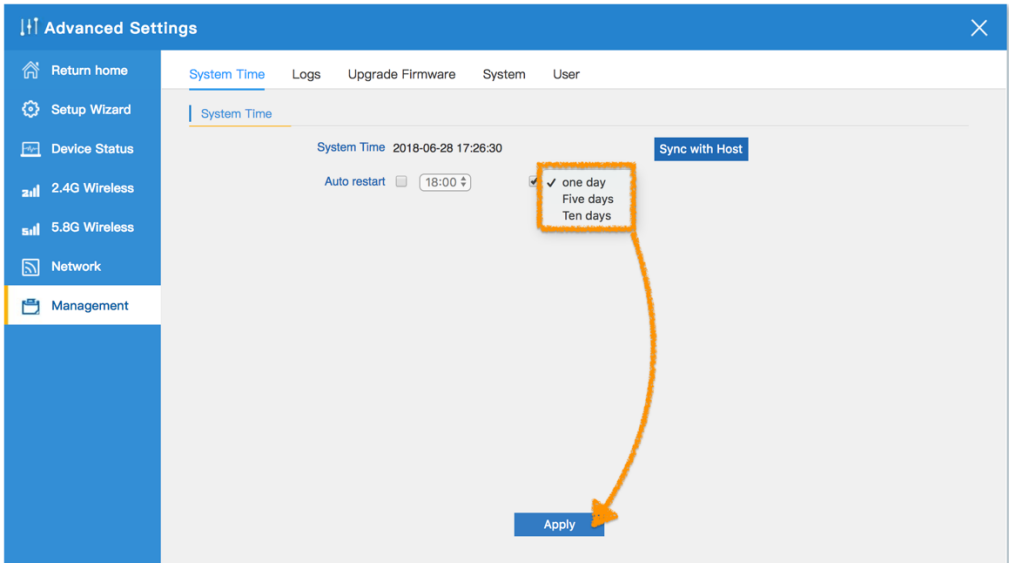
3. Enable System for update to the current Time, please wait about 30~50 seconds.



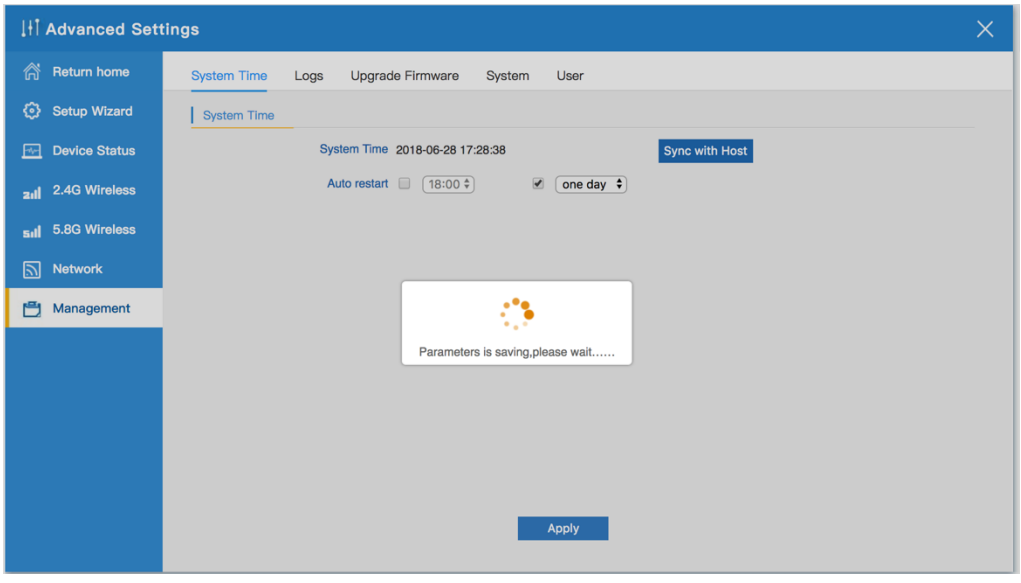
4. Define the system reboot time(0:00~23:00)



5.Can choose every day or every five days or every 10 days , System Reboot Automatically.

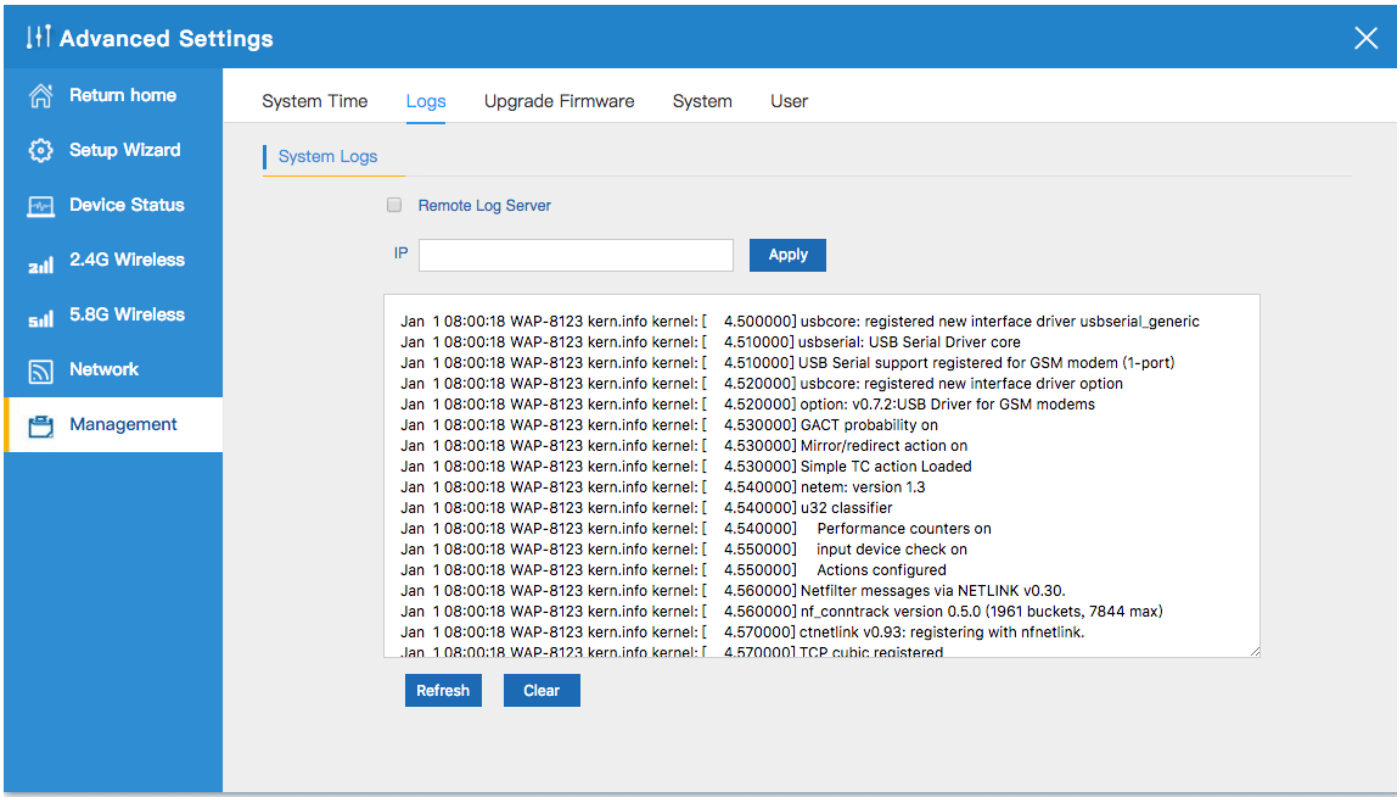


6. Enable Define the system reboot time, please wait about 30~50 seconds.



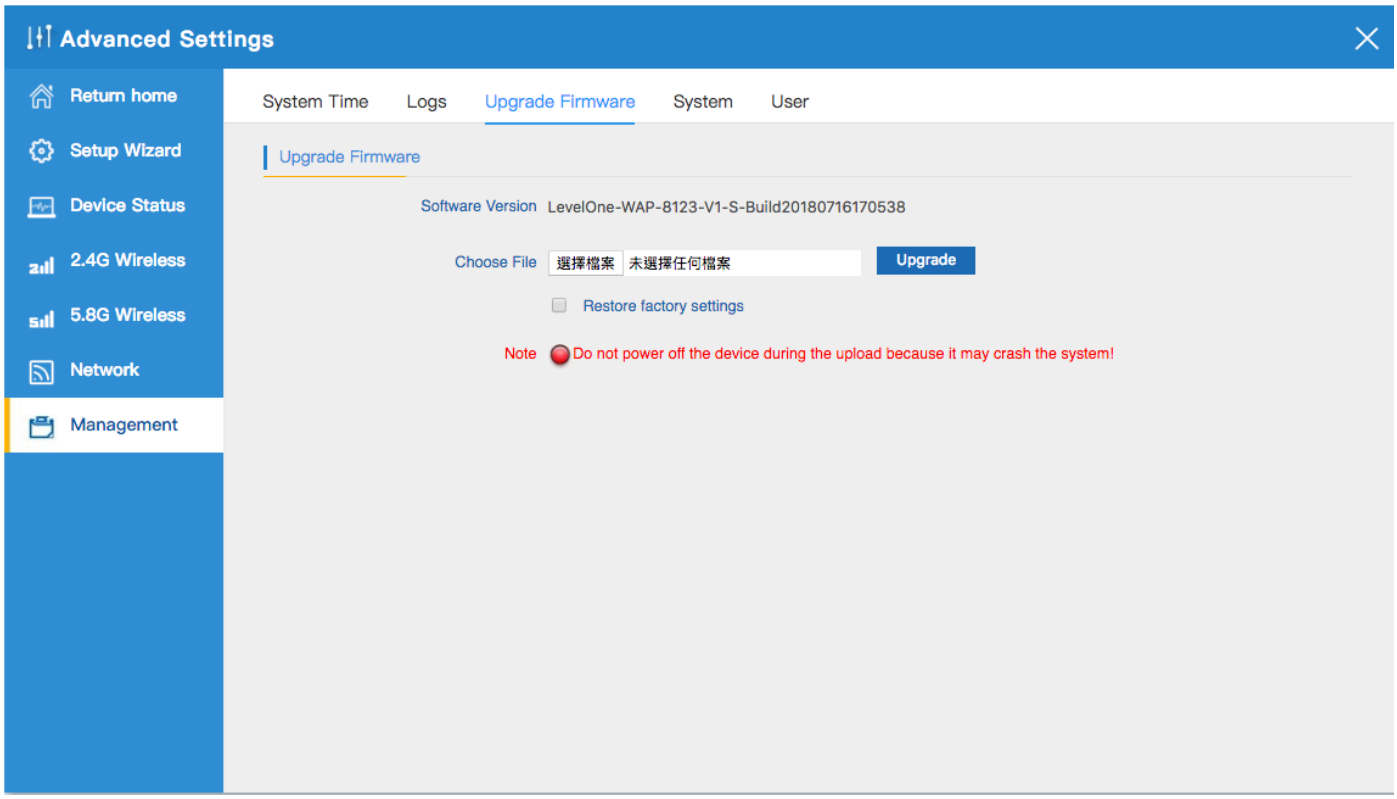
5.2.2 Logs :

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



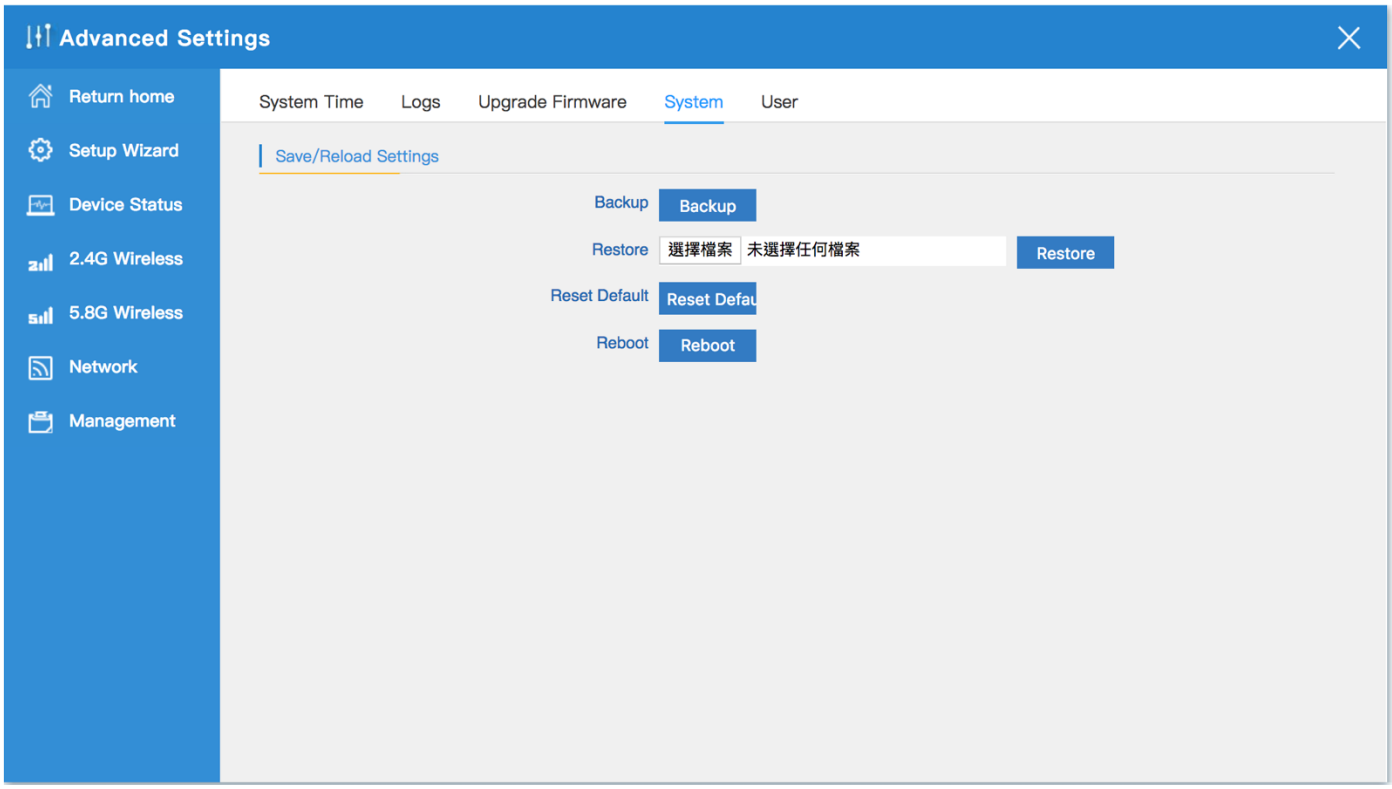
5.2.3 Upgrade Firmware :

- Allows you to browse the new firmware in your computer and upgrade. Please do not power off the device during upgrade. (**Note :** The update firmware is recommended to use the connection RJ45 Network Cable update . Not recommended to use the wireless connection method to update the firmware.)



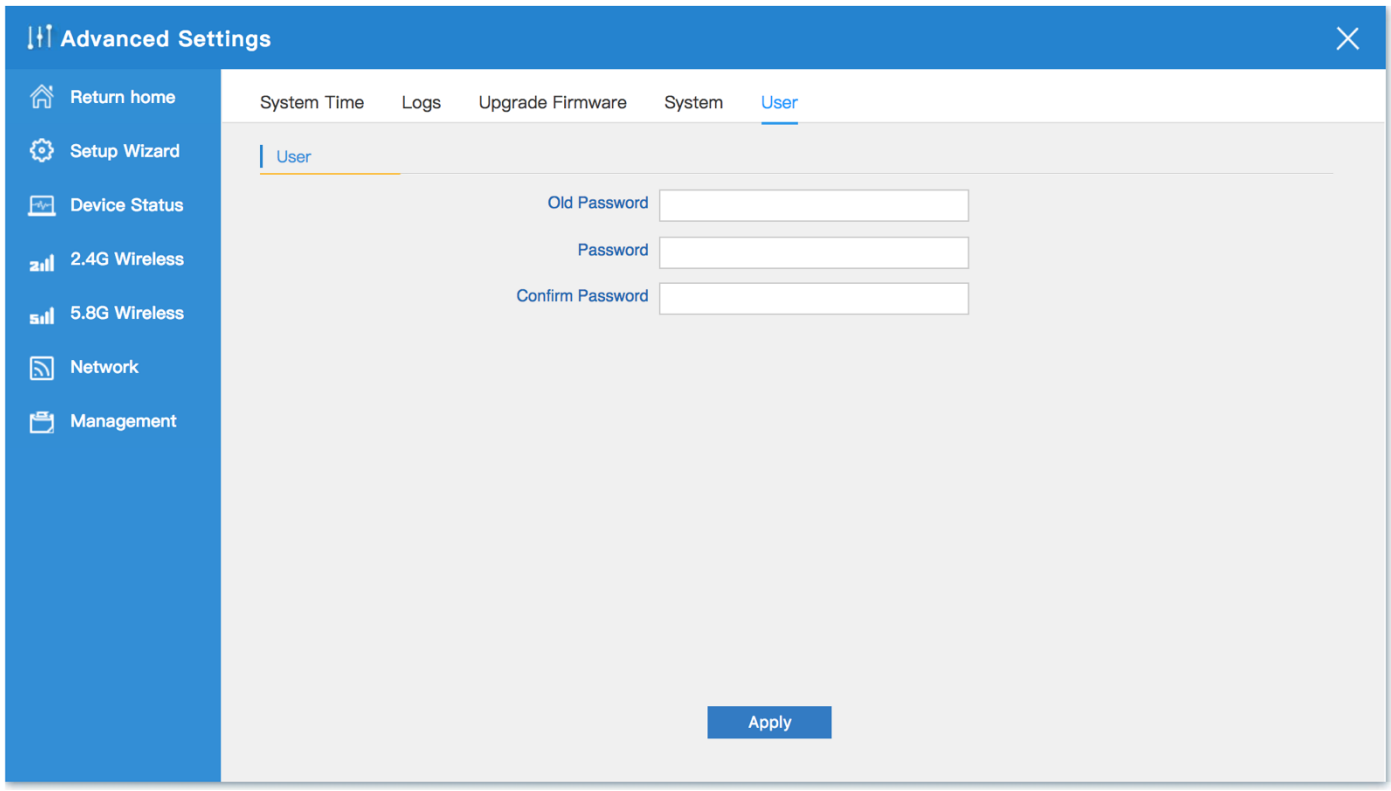
5.2.4 System :

- 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

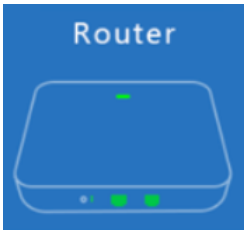


5.2.5 User :

- Management and change the password for Log in



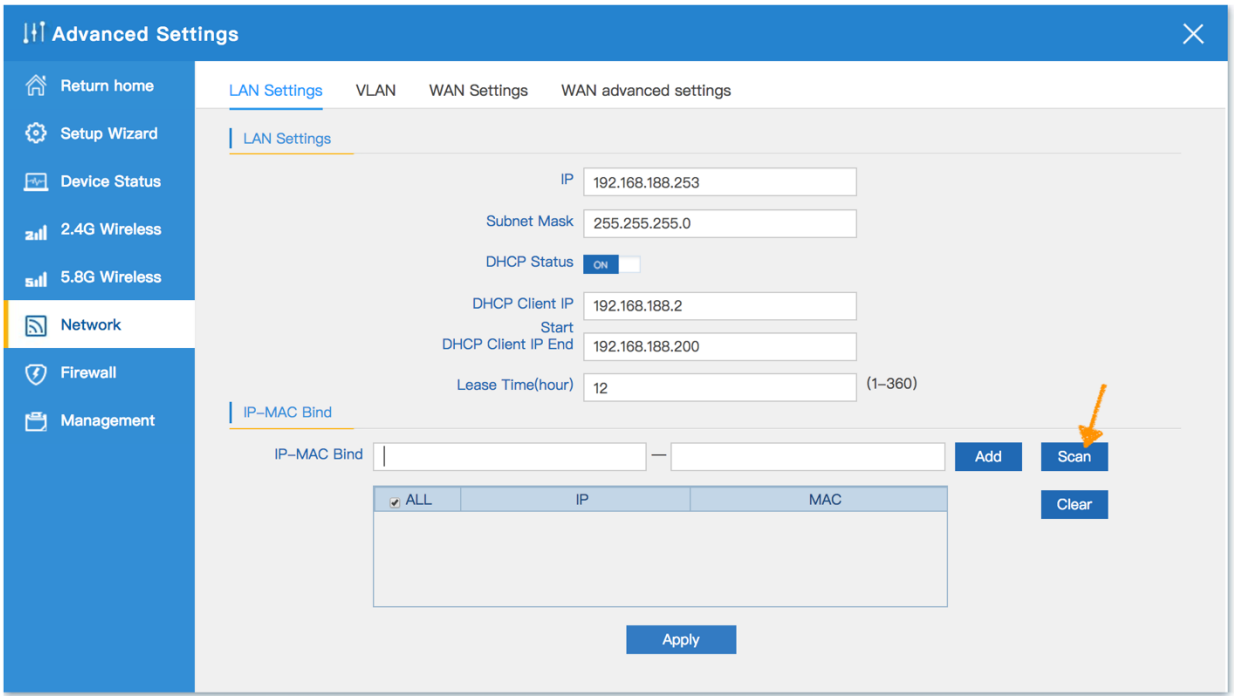
CHAPTER 6 Enable the status of Gateway Mode or WISP Mode



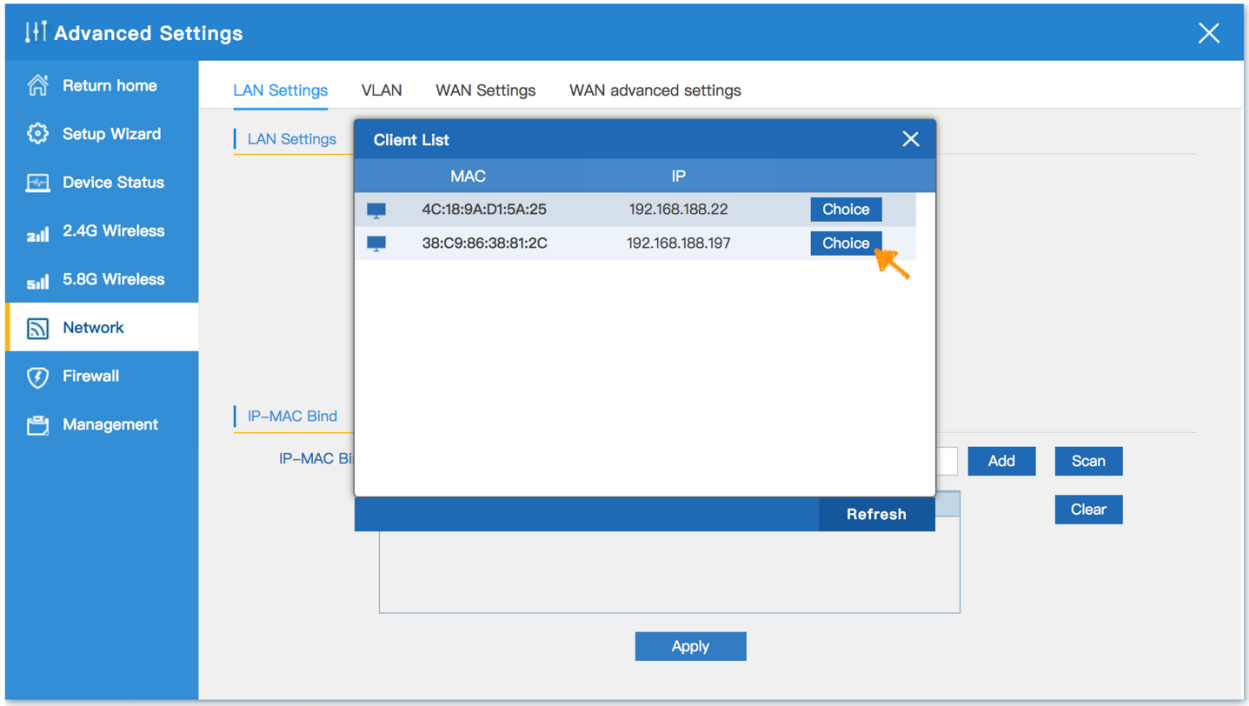
6.1 Network

6.1.1 LAN Settings :

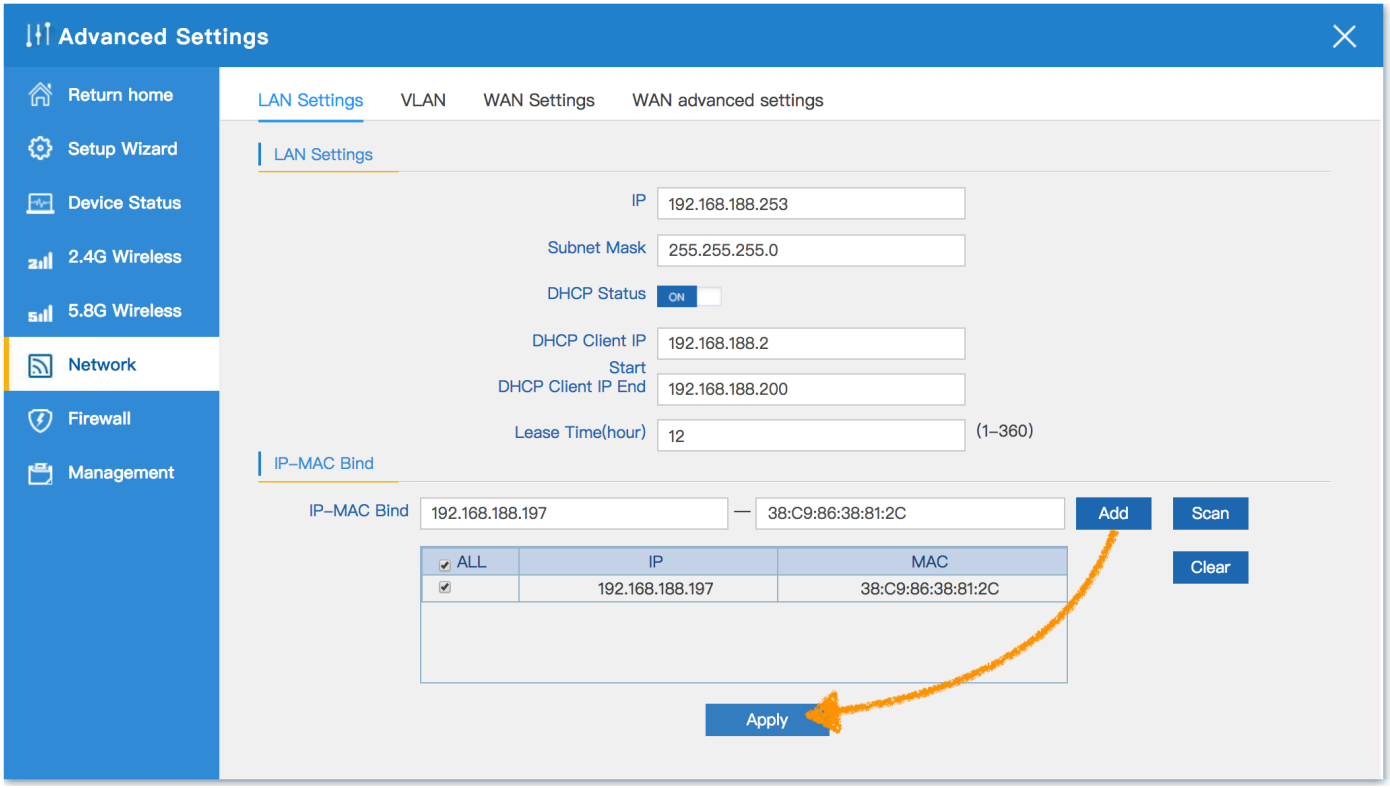
1. Set the specified device retention IP for easy management. The following is a demonstration of teaching .



2.Click Choice

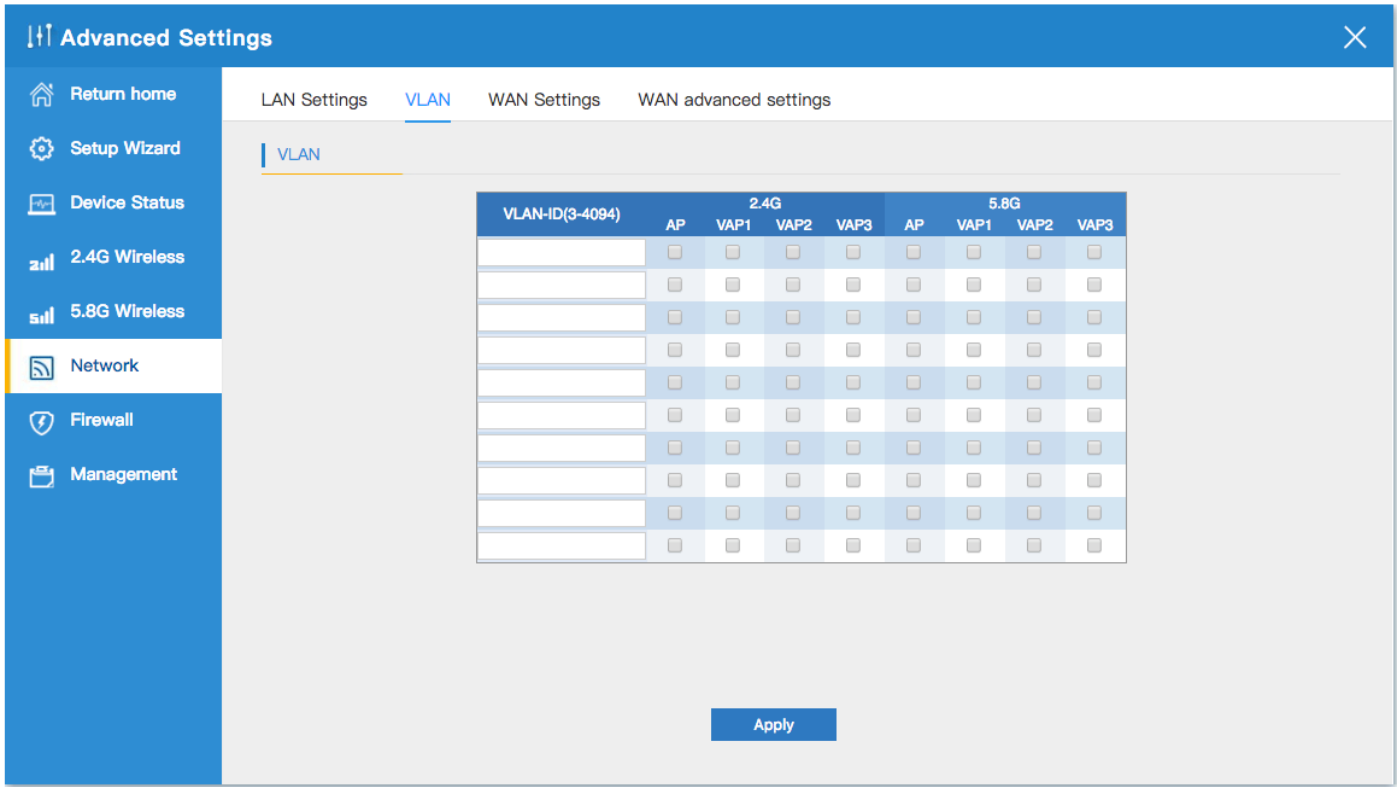


3.Add the user MAC address in the list to the access control list . Completed the reserved IP settings



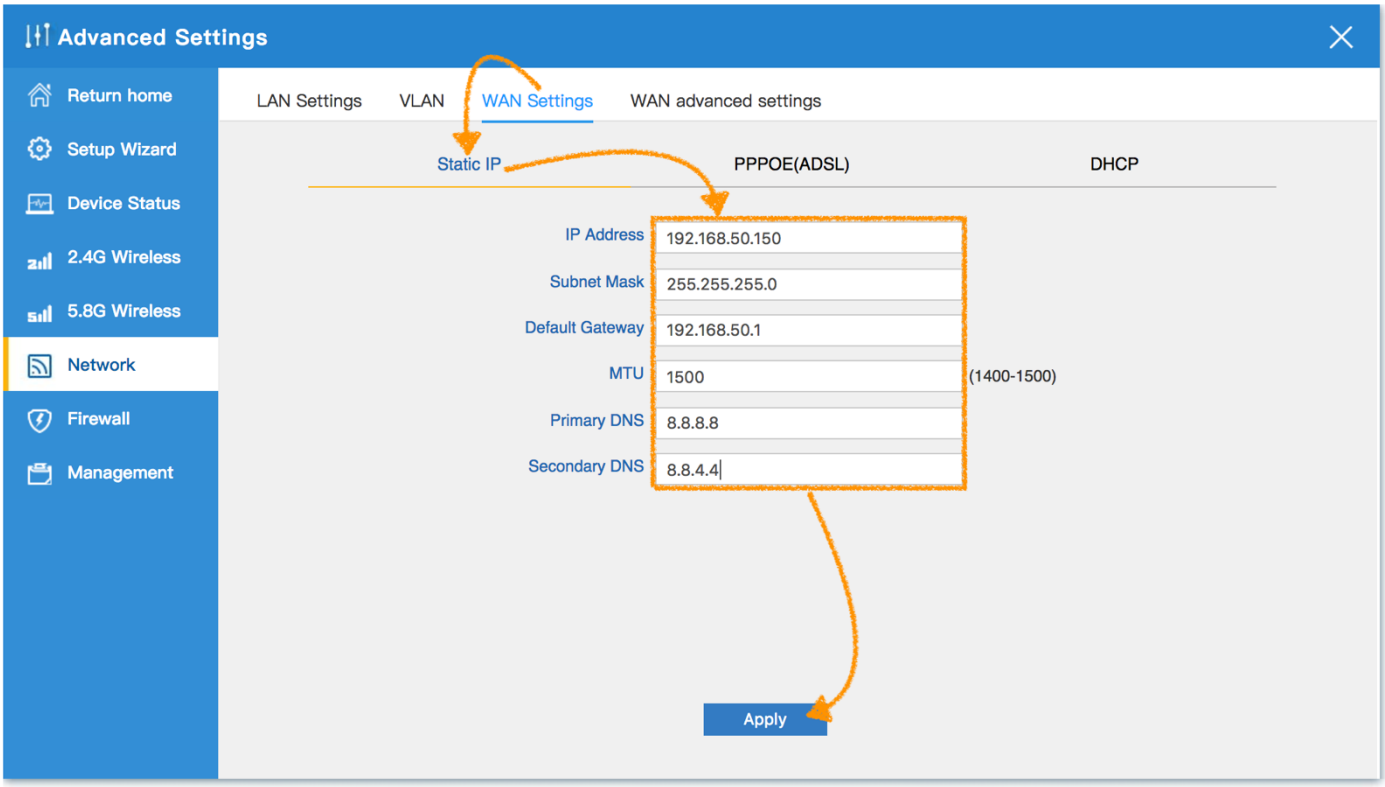
6.1.2 VLAN :

- Please confirm before you can use ,Need support IEEE 802.1Q and VLAN Tagging Managed Switch, Specify WiFi SSID or WAN/LAN Port for WAP-8123 , corresponding to the VLAN-ID (3-4094).

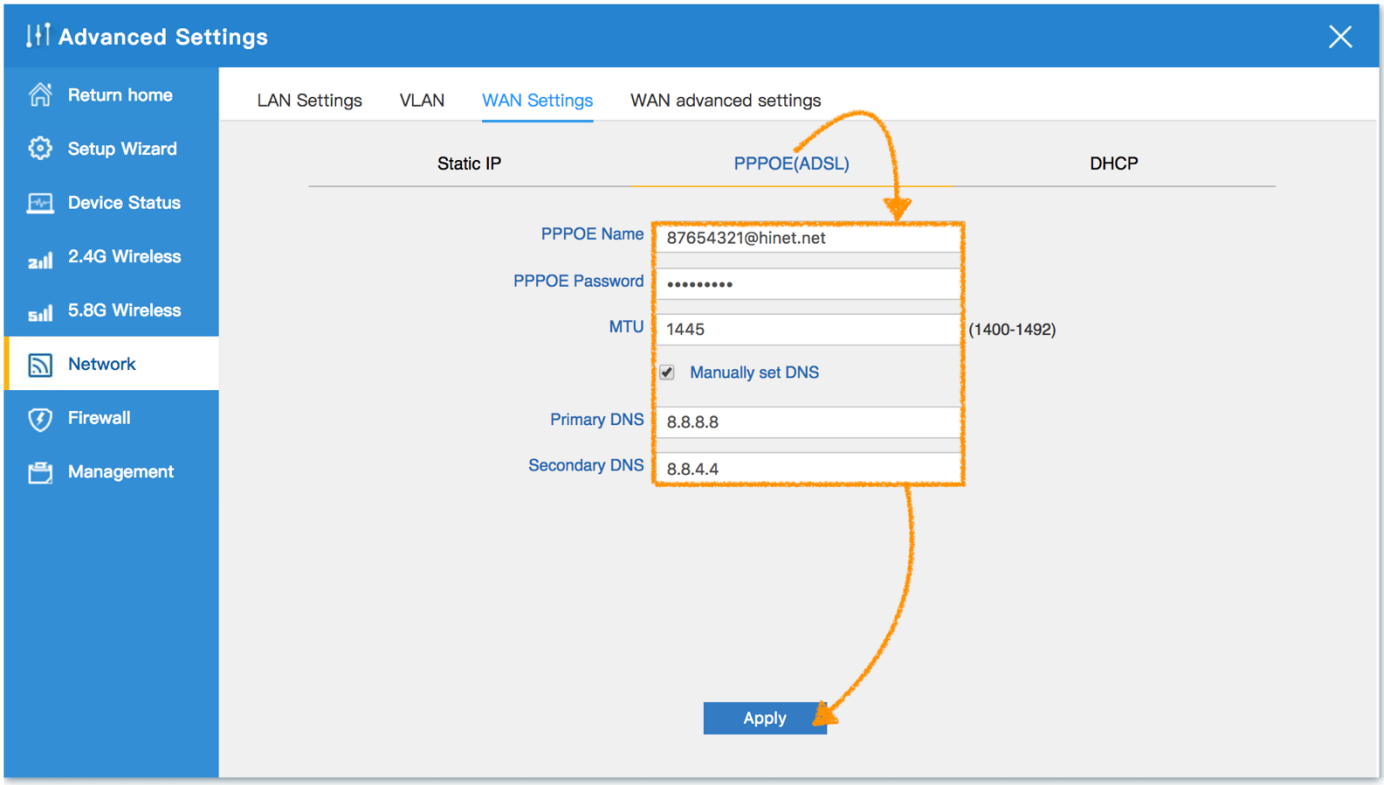


6.1.3 WAN Settings :

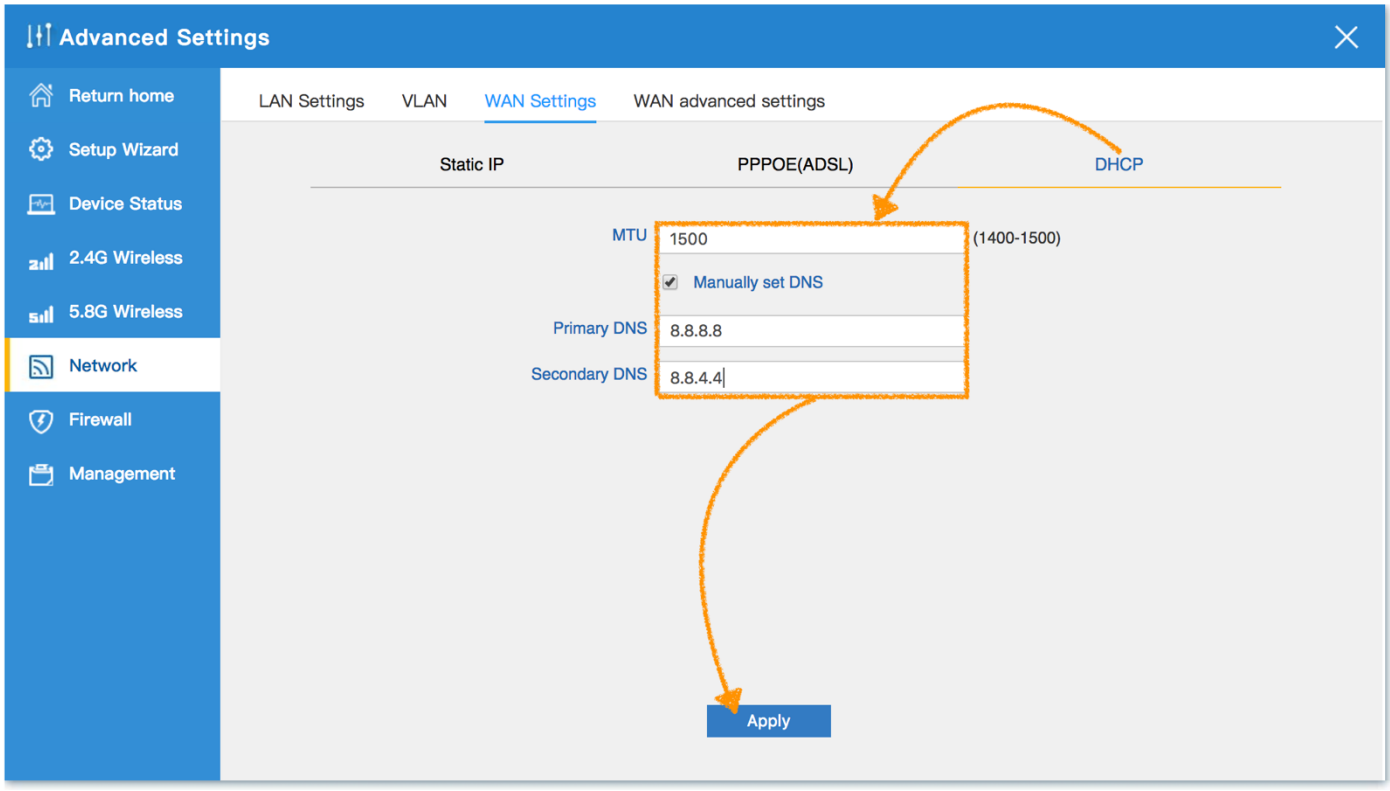
1. Please check with the ISP first how to access the Internet , The following is a demonstration of Static IP teaching .



2.The following is a demonstration of PPPoE teaching .

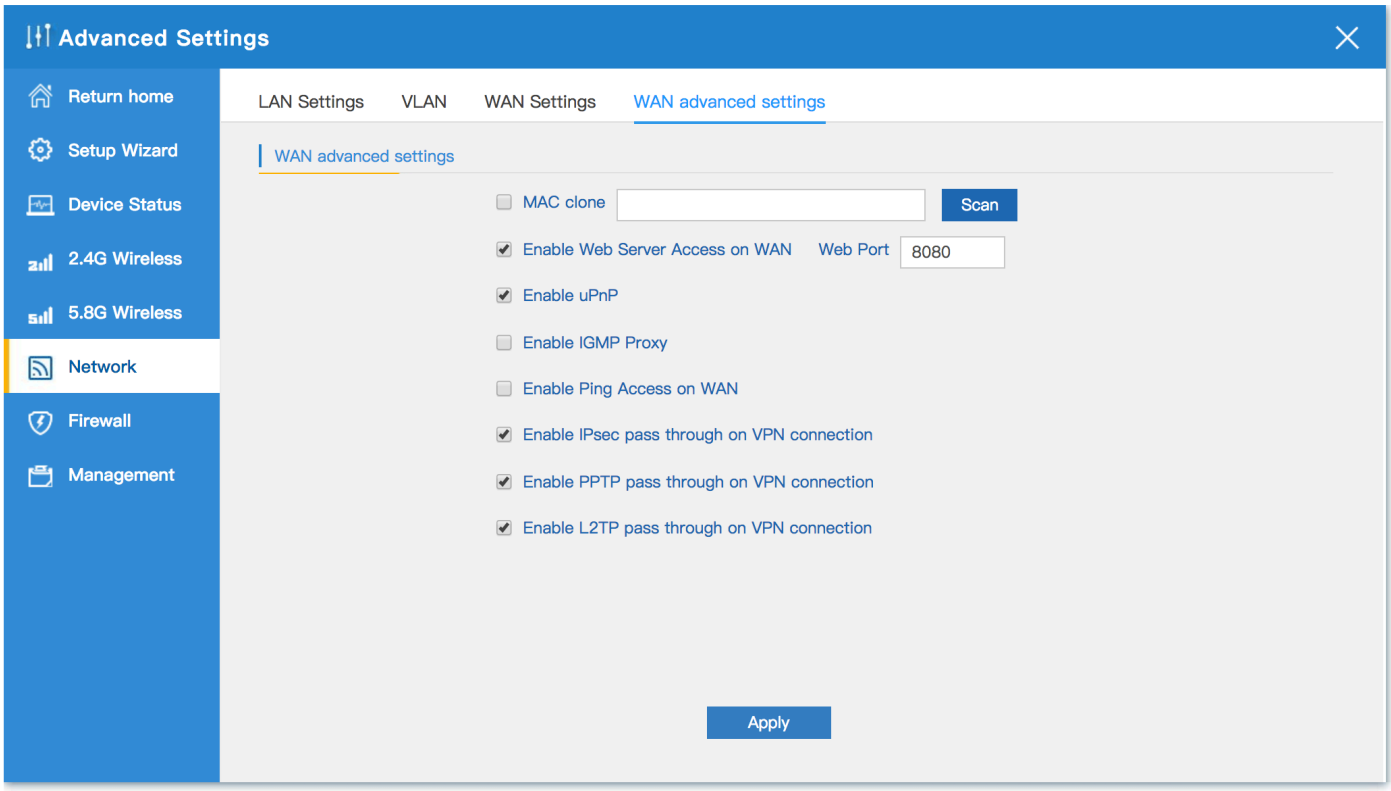


3.The following is a demonstration of DHCP teaching .



6.1.4 WAN advanced settings:

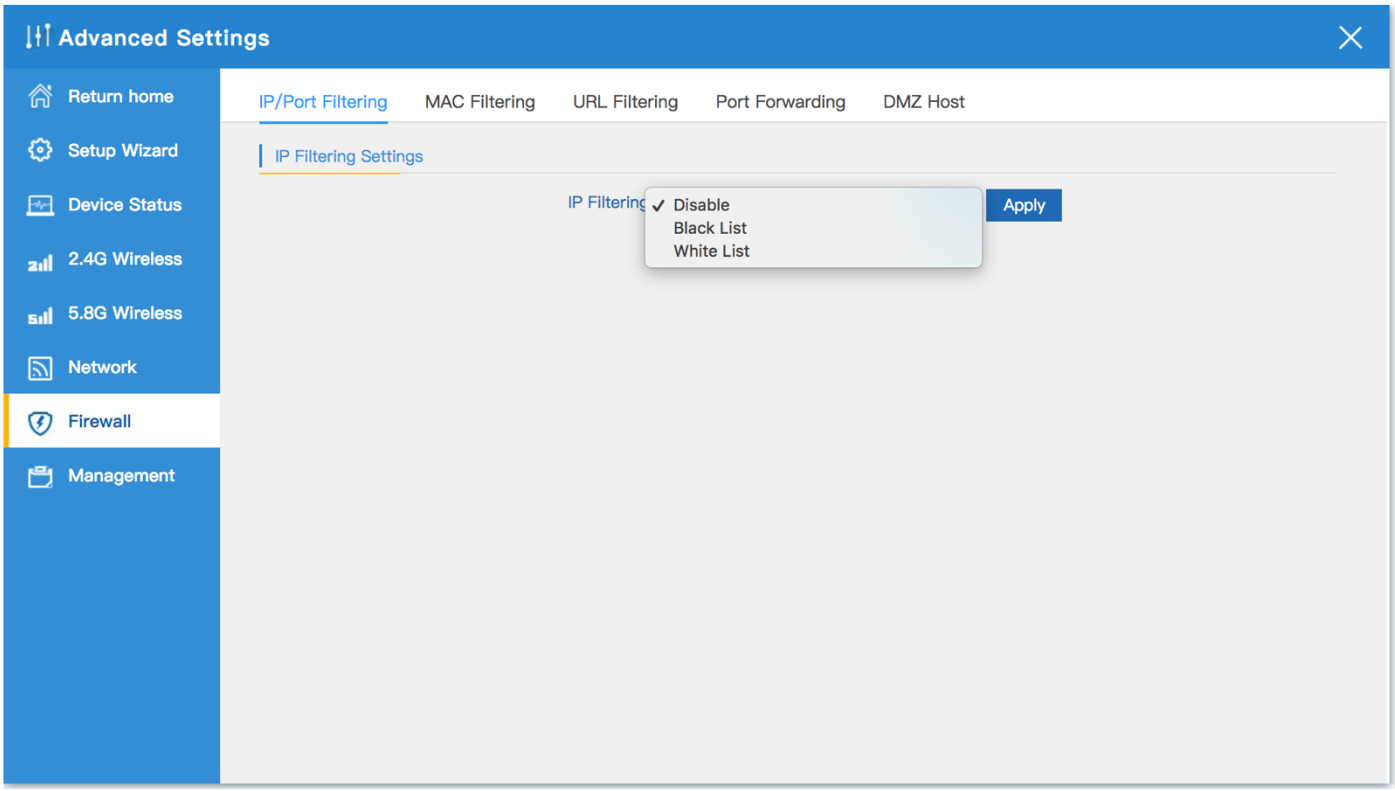
- Internet security does not recommend enable Ping Access on WAN to prevent interested people from knowing the real IP address



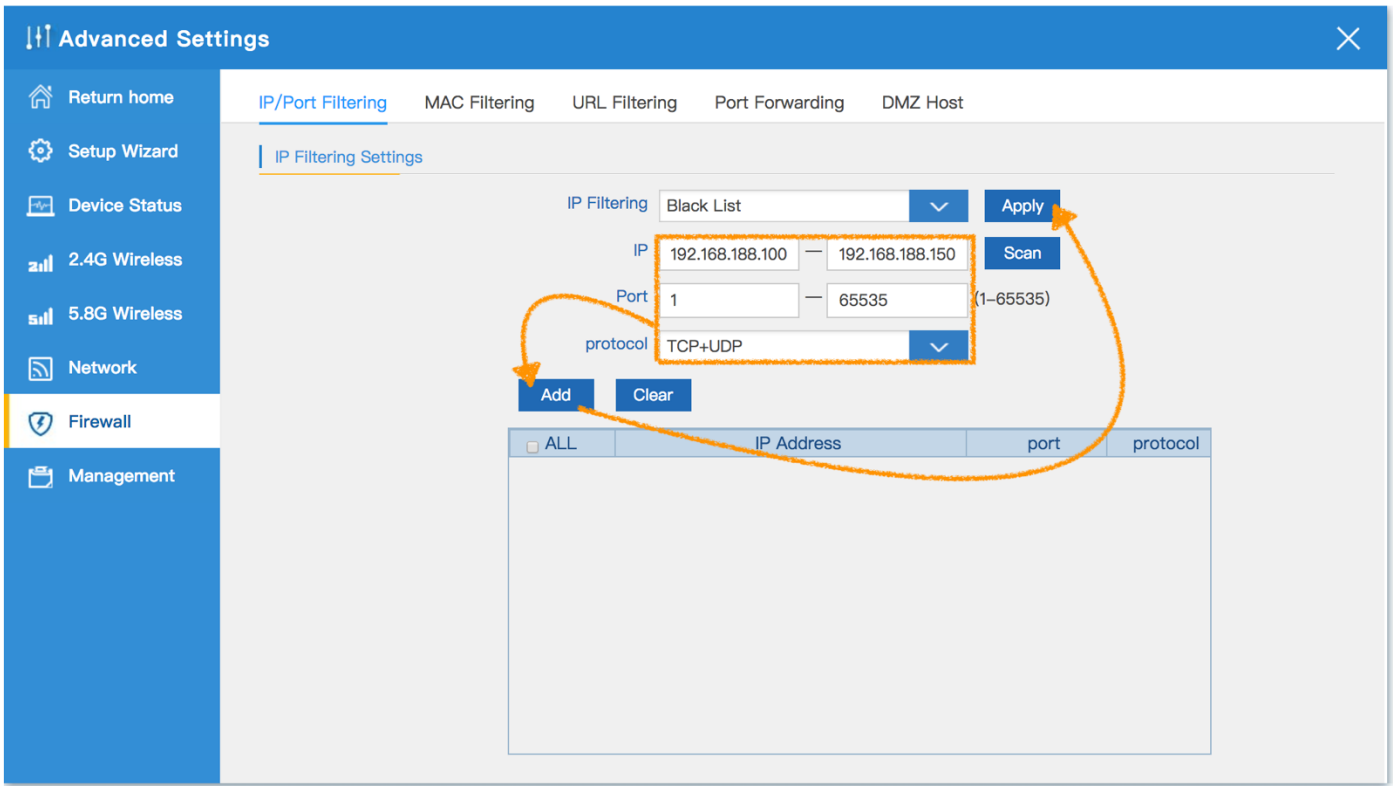
6.2 Firewall

6.2.1 IP/Port Filtering :

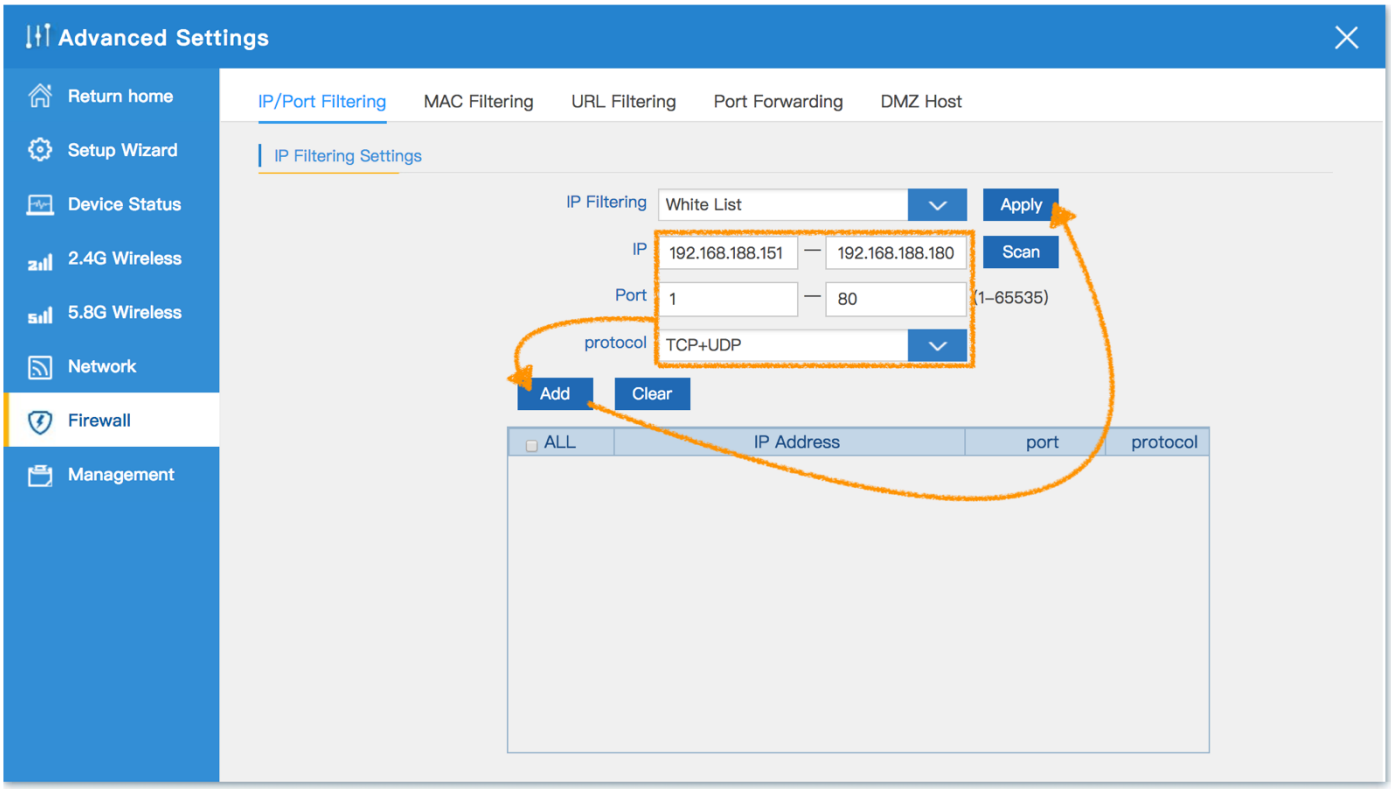
1.Factory default value is Disable, Can be set to whitelist or blacklist. The following will begin to introduce how to set the enable function



2.Black List : IP Address that can be specified as a separate or range , and then specifies the port range (1~65535) and protocol(TCP/UDP) .

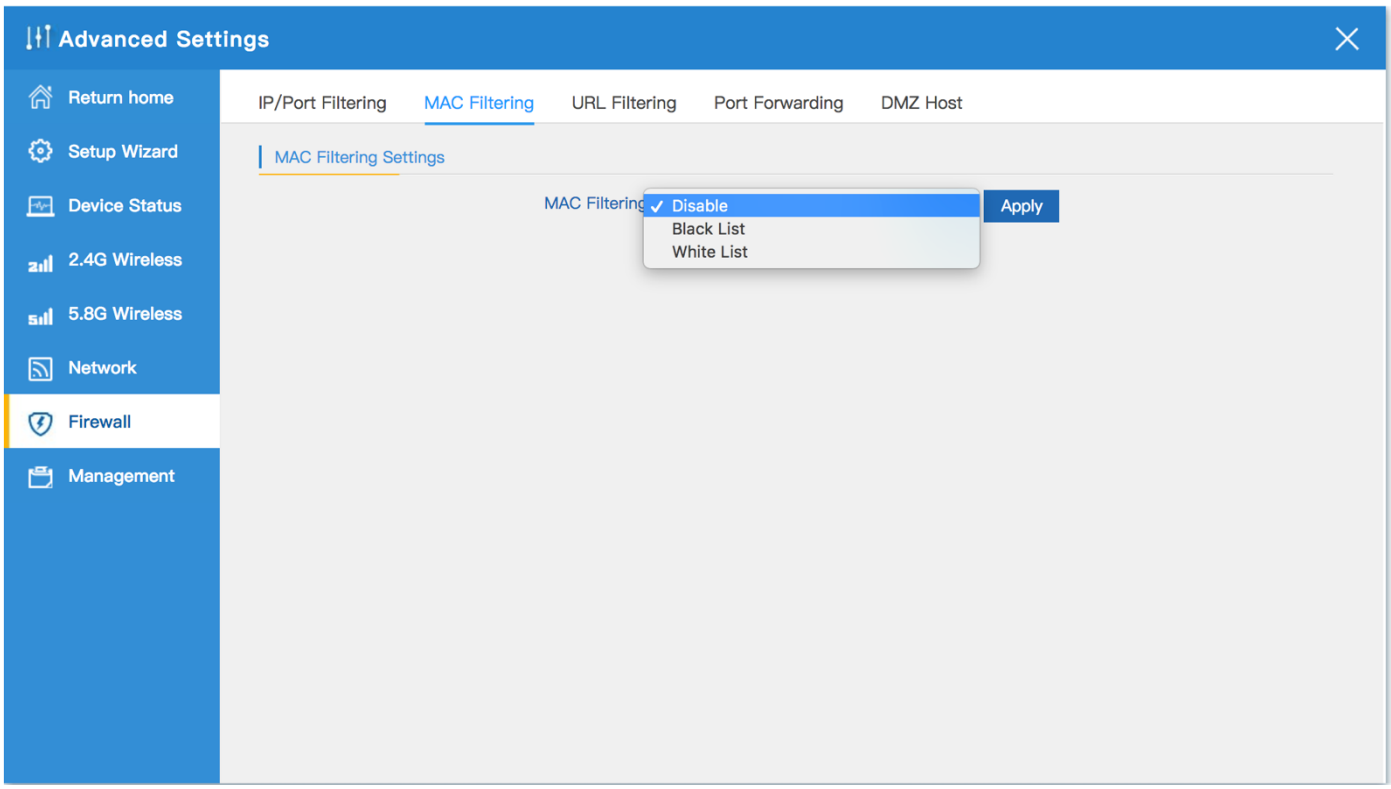


3.White List : IP Address that can be specified as a separate or range , and then specifies the port range (1~65535) and protocol(TCP/UDP) , which is set as the status of the allow.

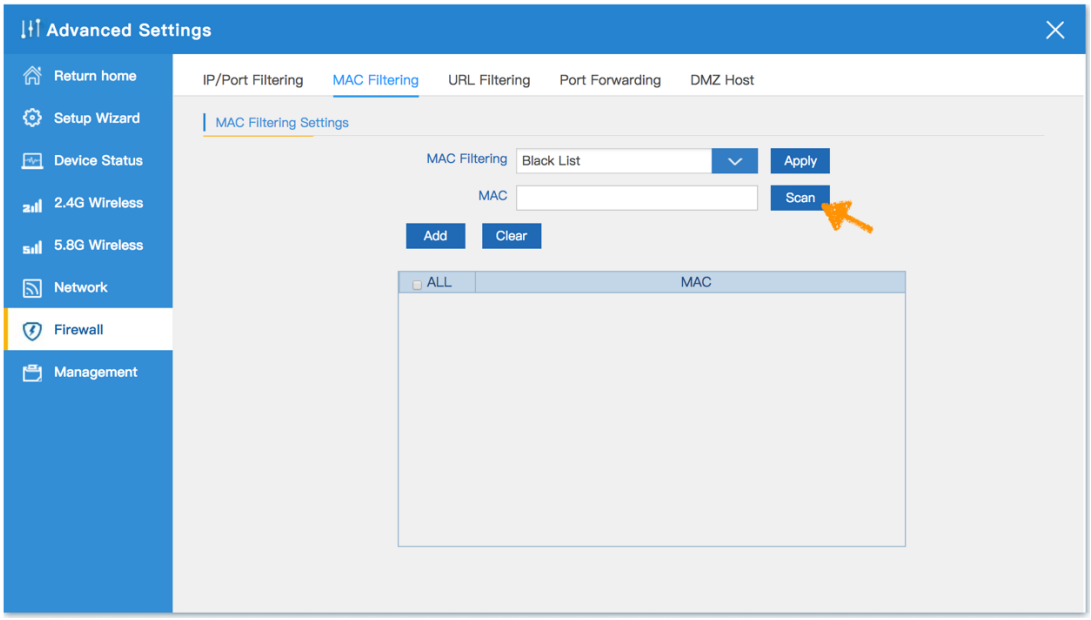


6.2.2 MAC Filtering :

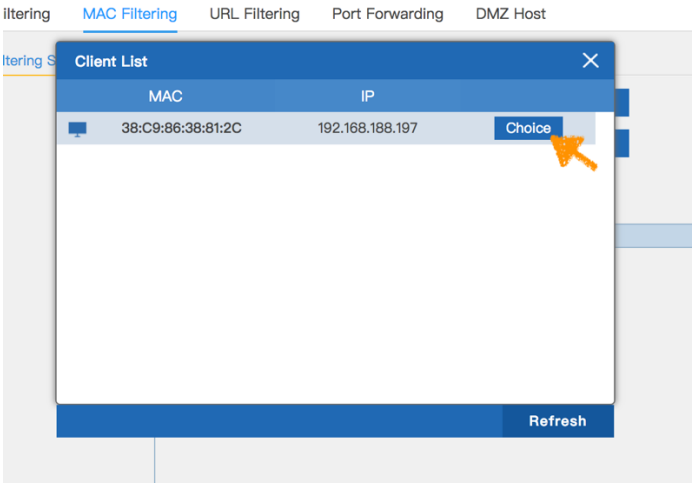
1.Factory default value is disable, Can be set to whitelist or blacklist. The following will begin to introduce how to set the enable function



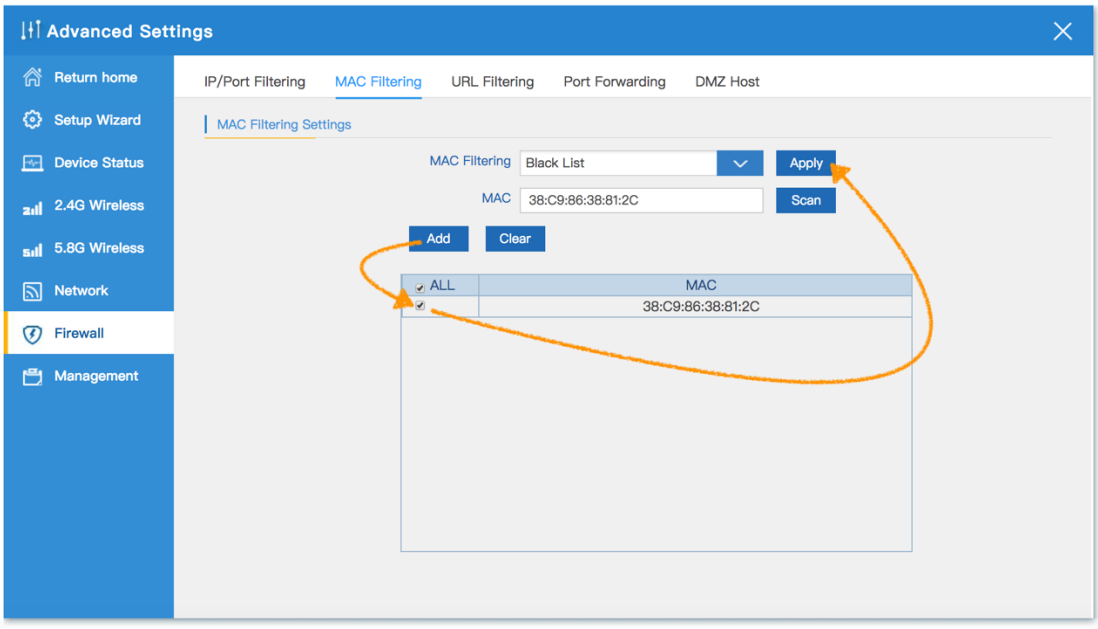
2.Black List : Scan specified mode or manual input mode to set, you can block the specified MAC address to connect to the Internet, leaving only link Regional network function.



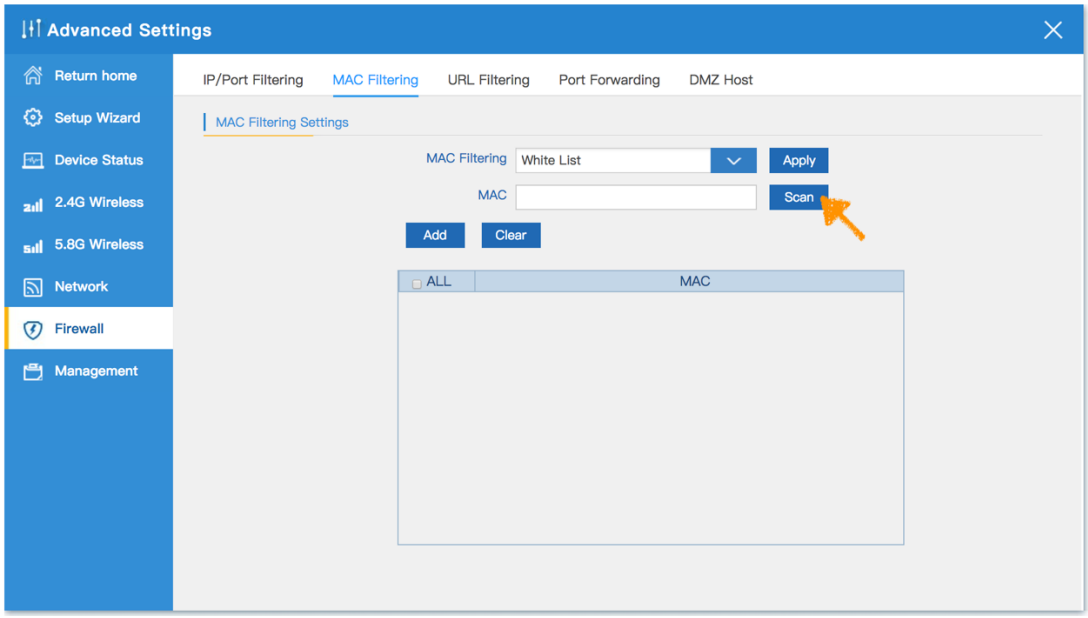
3.Click Choice



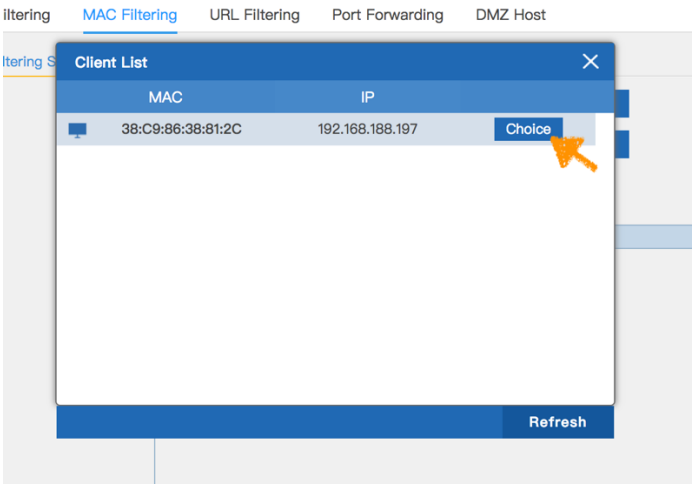
4. Added specified MAC address , Click Apply



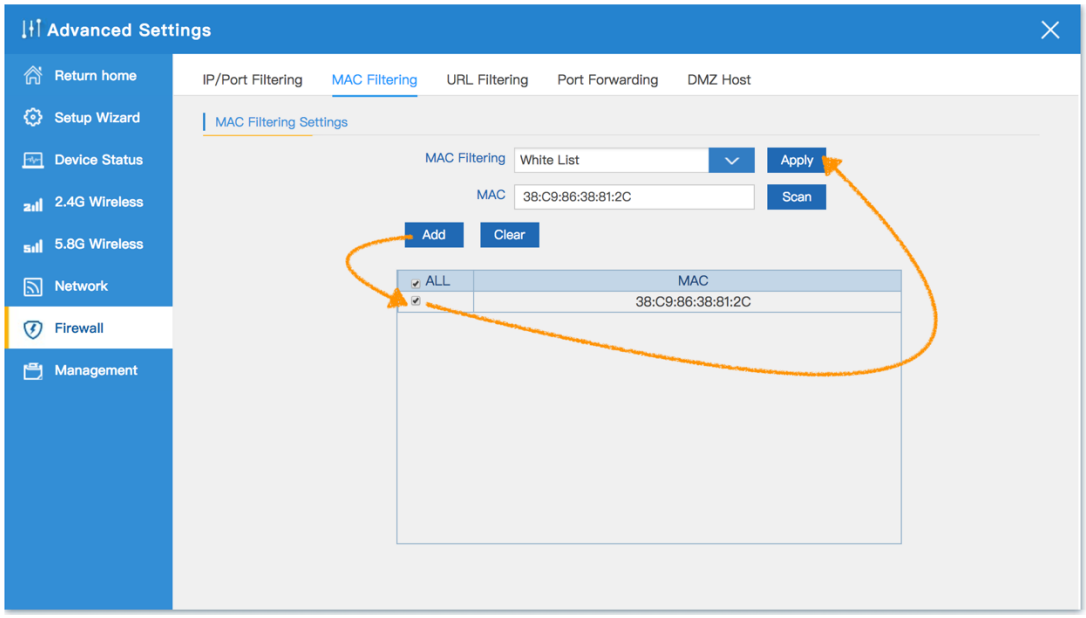
5.White List : Scan specified mode or manual input mode is set to allow the specified MAC address to connect to the Internet



6.Click Choice

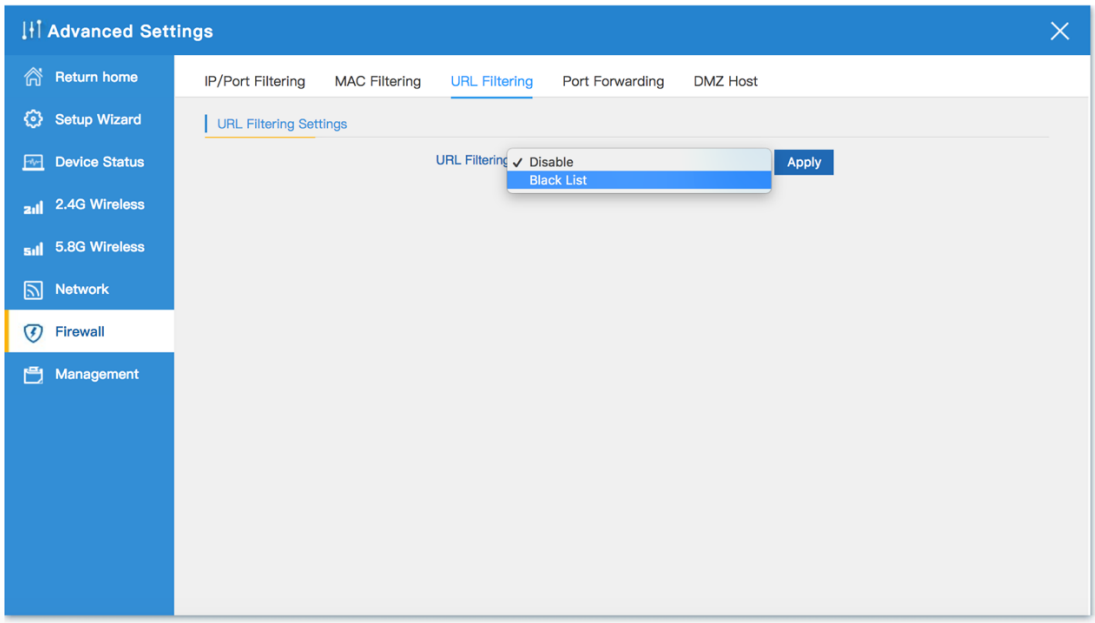


7.Added specified MAC address , Click Apply

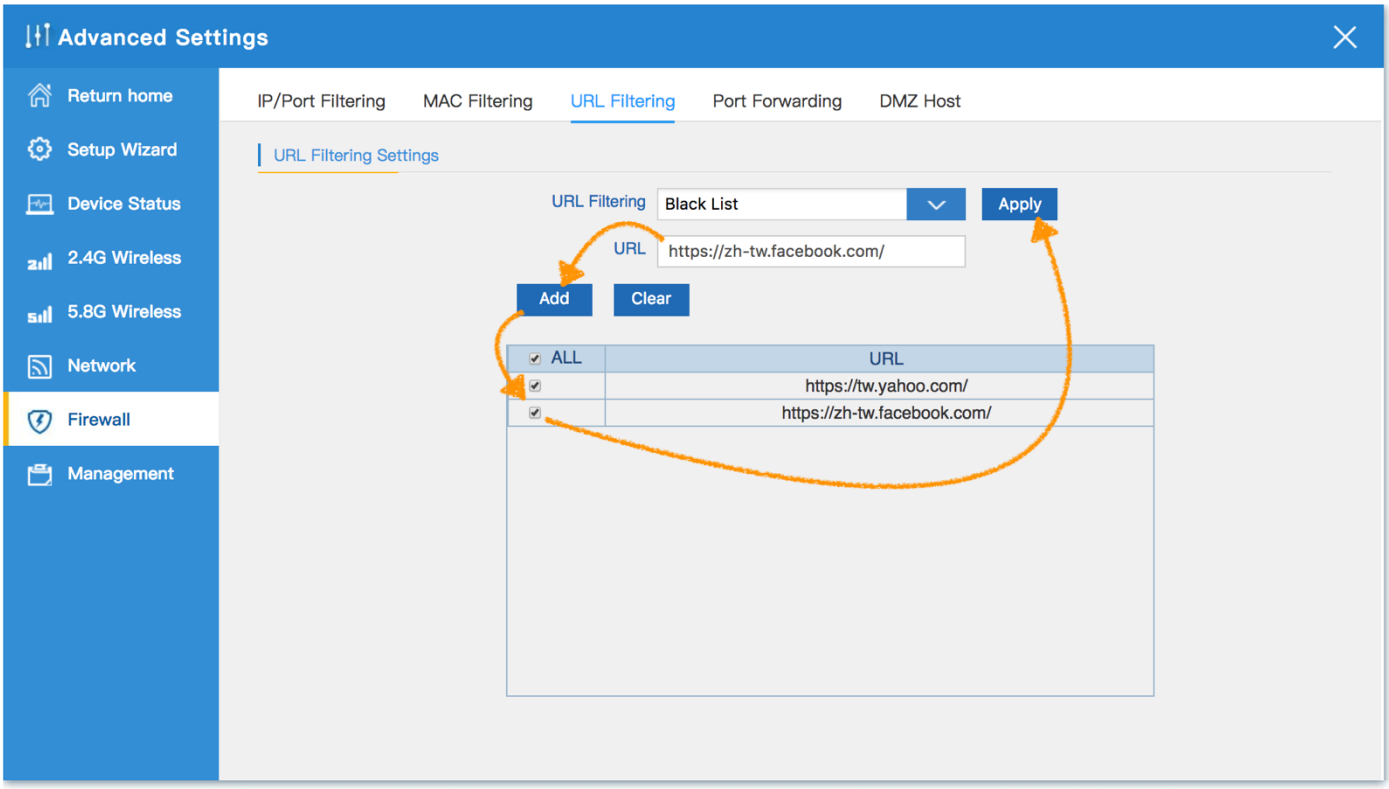


6.2.3 URL Filtering :

1.Factory default value is disable, Can be set to Black List. The following will begin to introduce how to set the enable Black List function



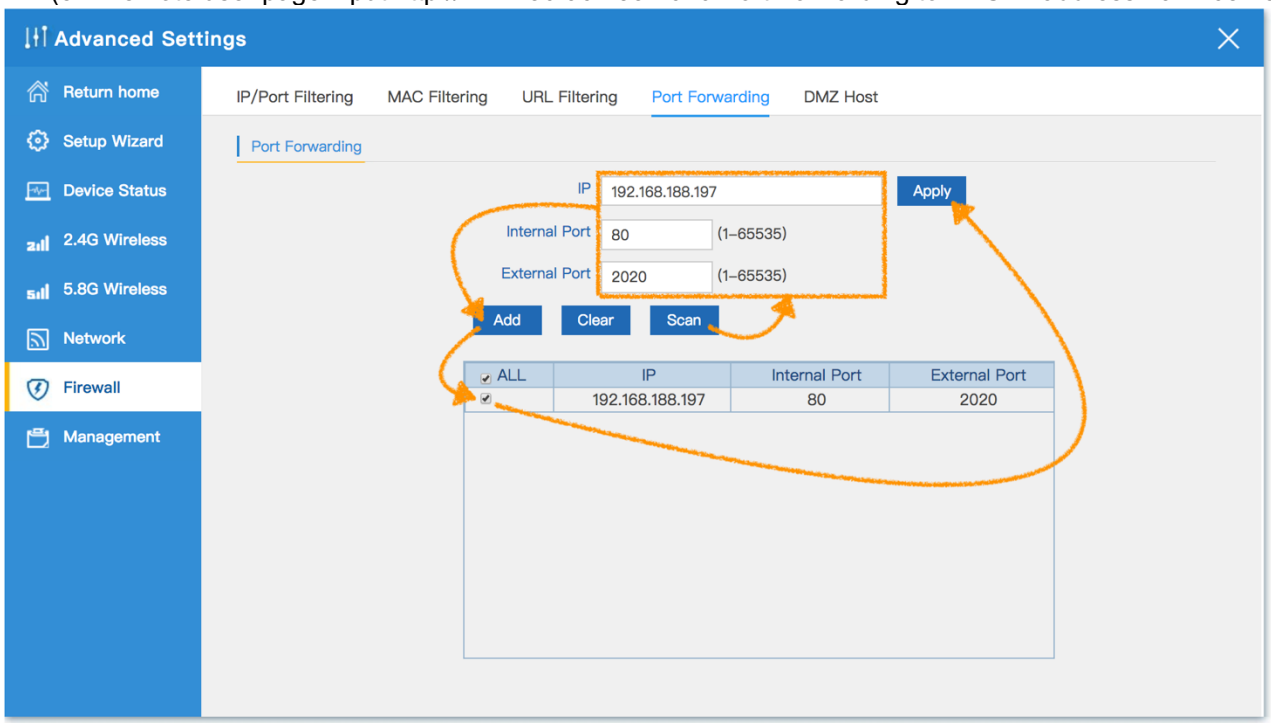
2.**Black List :** Can set the URL refuse to access the list , making all devices unable to connect to the list of websites



6.2.4 Port Forwarding

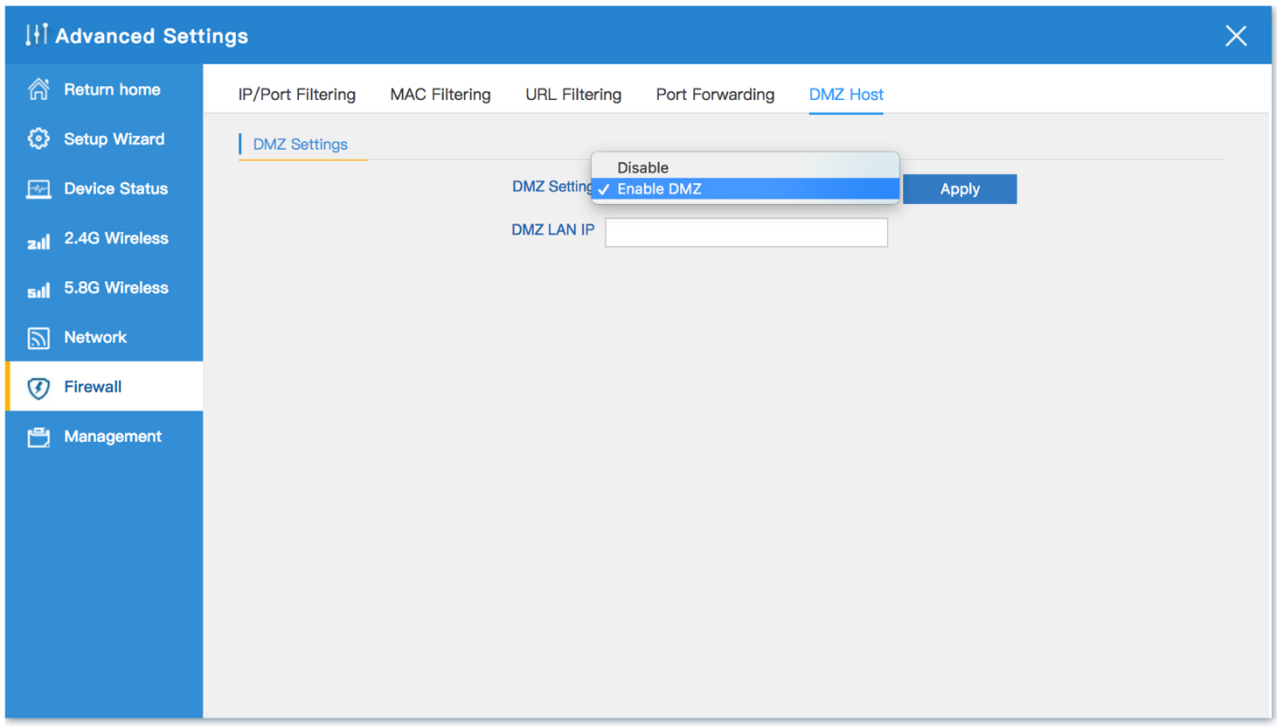
- The scan specified mode or manual input mode is set to allow the specified internal IP address of the External / External port so that other users can connect from the remote network to the WAP-8123 internal network equipment (ex: NAS , IP camera)
- After the setting is completed, the real fixed IP address or DDNS mode can be used to remotely connect to the NAS inside the WAP-8123

(ex: Remote user page input http://111.250.96.135:2020 Port Forwarding to NAS IP address:192.168.188.197:80)



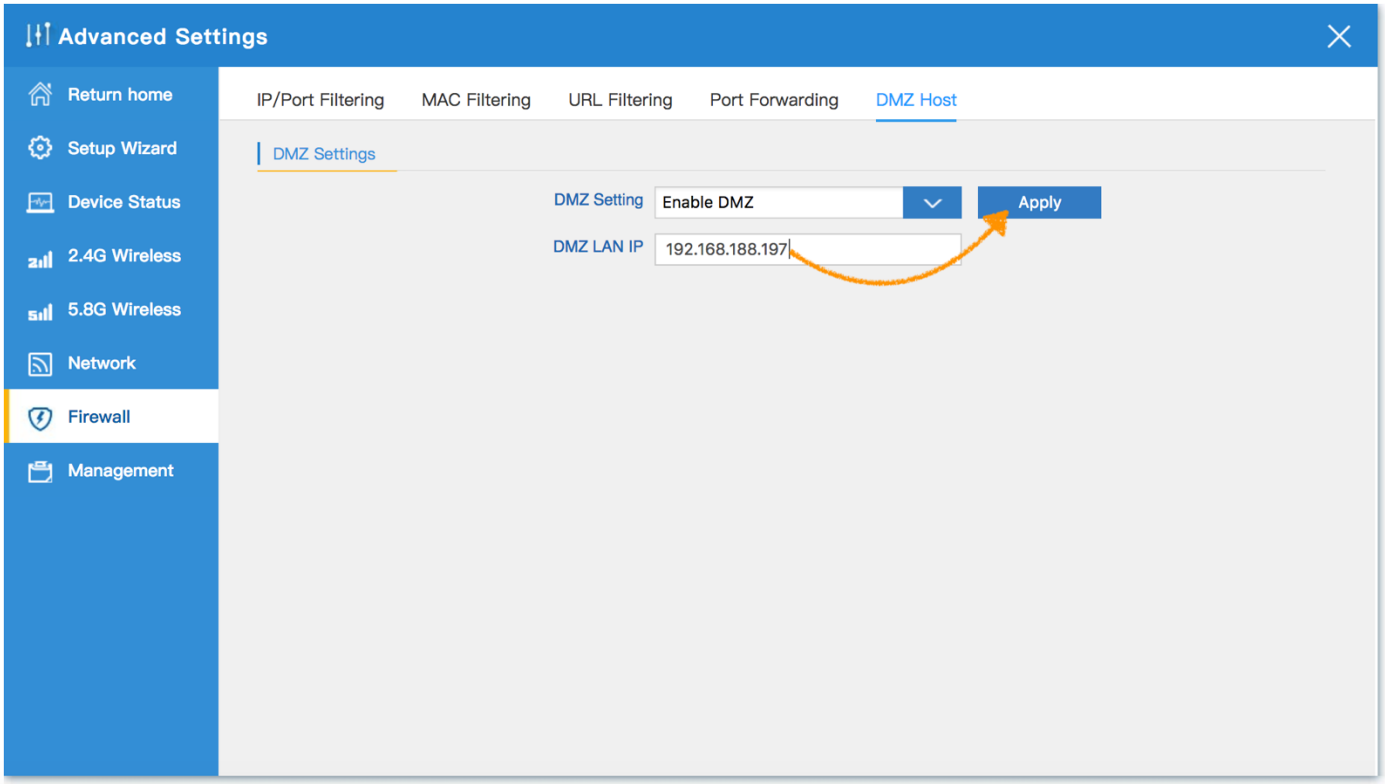
6.2.5 DMZ Host

1.Factory default value is disable . The following will begin to introduce how to set the enable DMZ Host function



2.When enabled, will independent a non-military block for this ip address device.

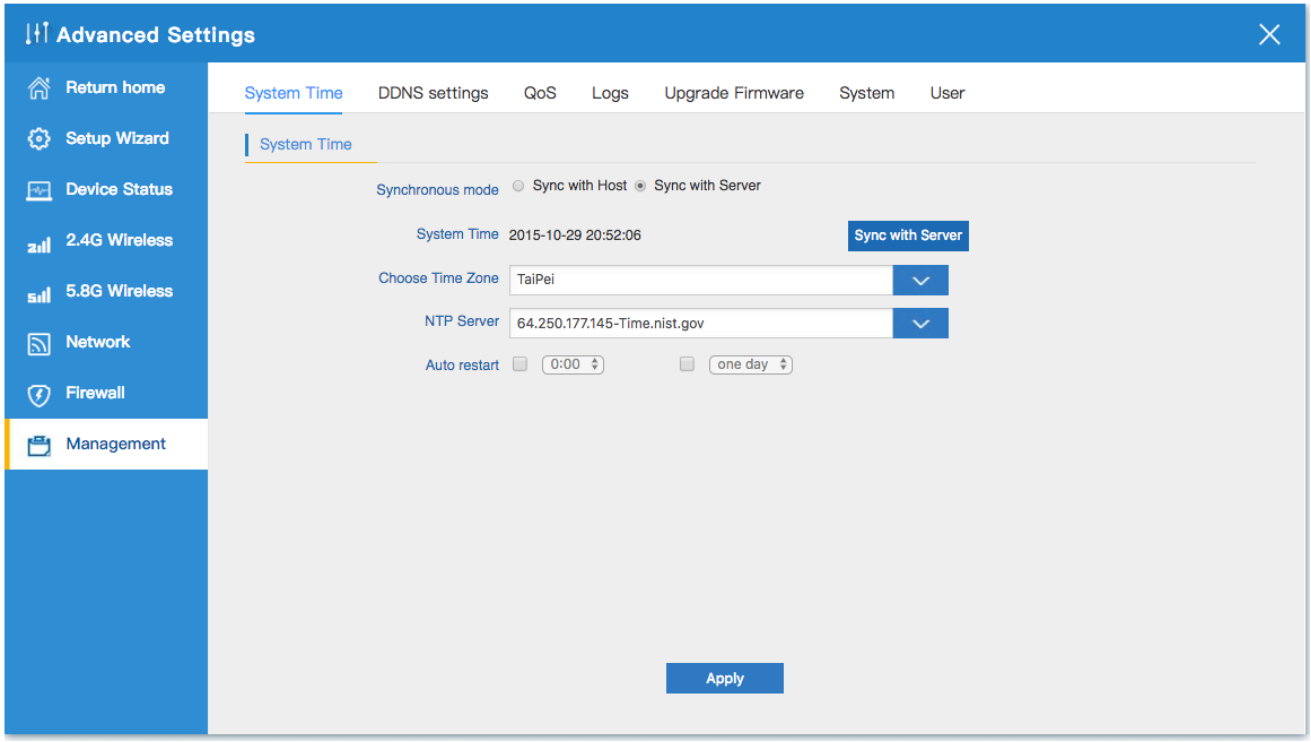
Note : This device will be directly exposed on the Internet, there will be some risk



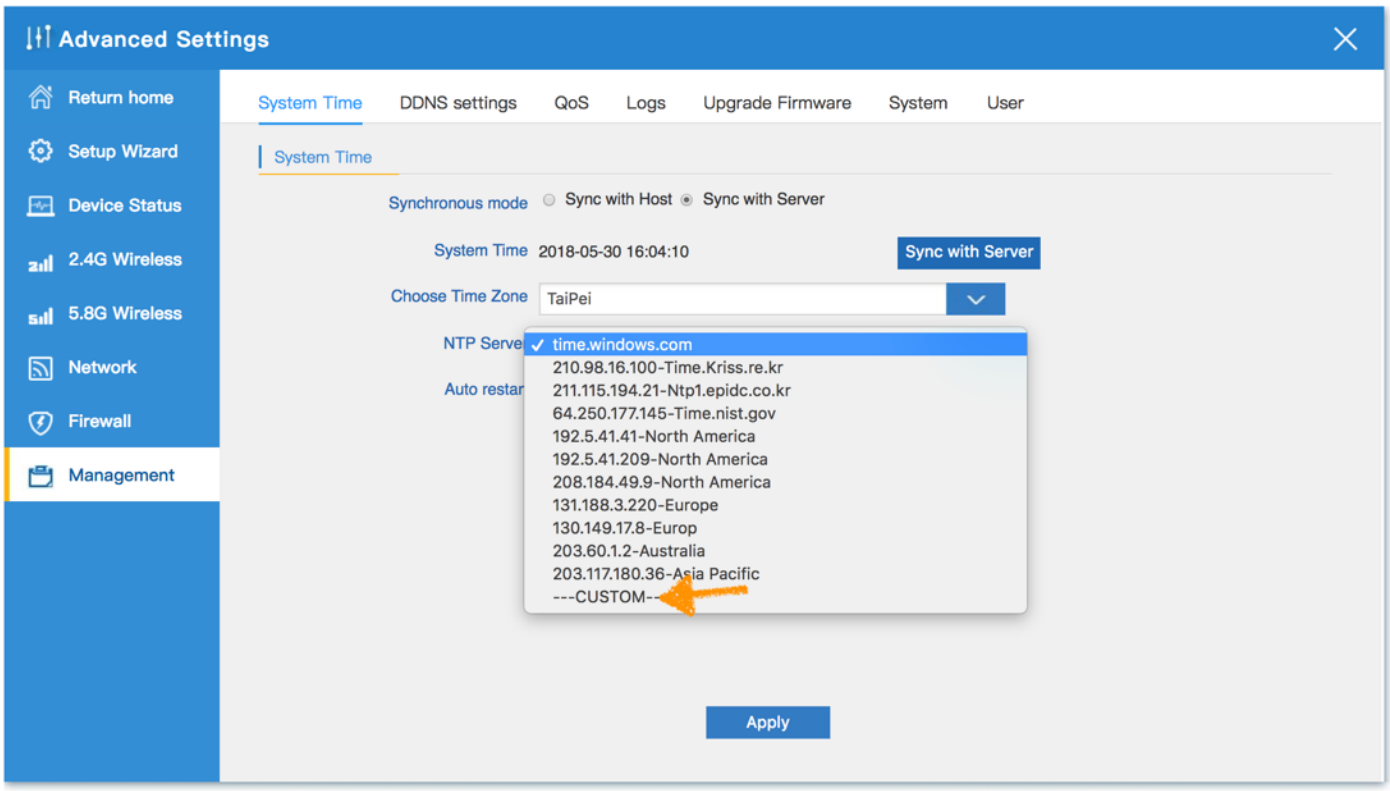
6.3 Management

6.3.1 System Time :

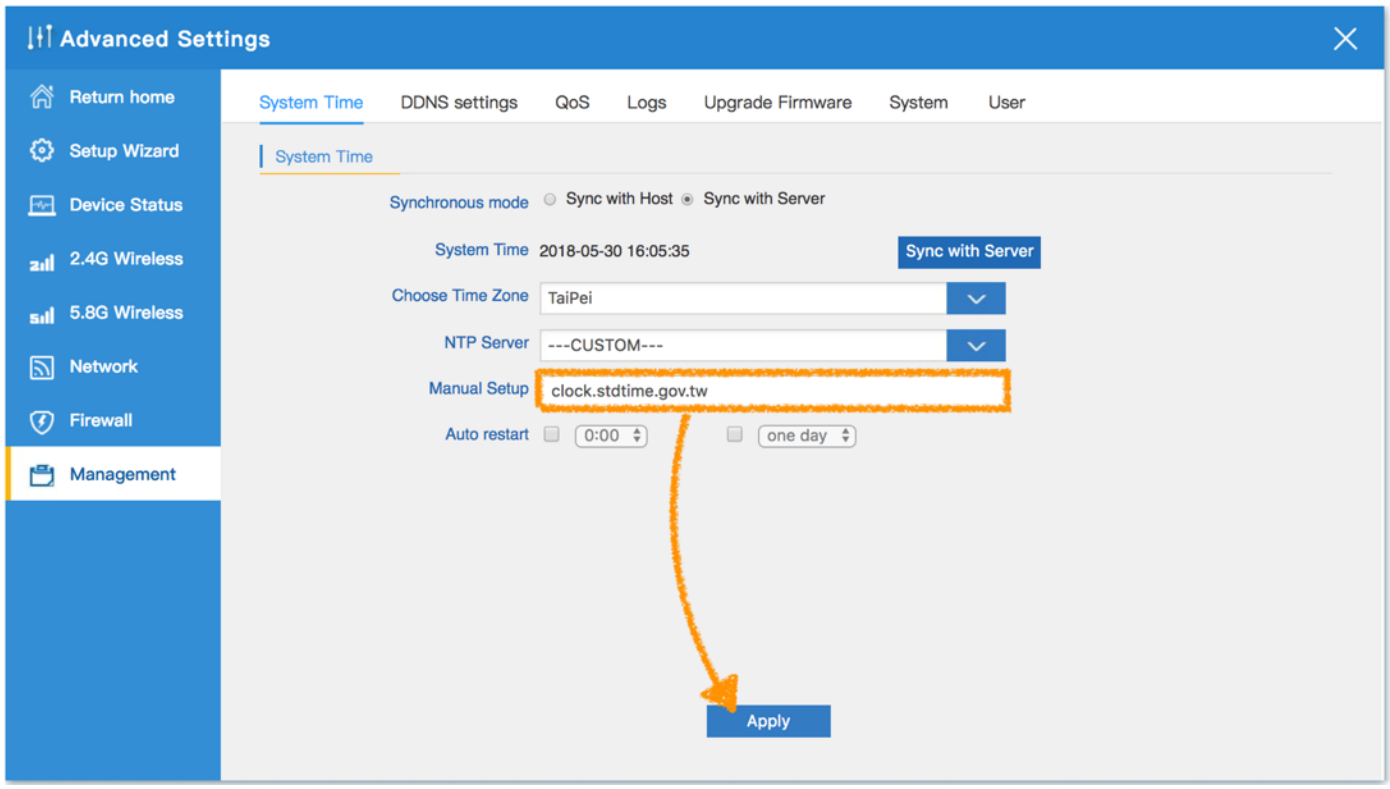
1.Get time from NTP server can only be available under Gateway and WISP Mode. Before sync with host, please select your Time zone. **Auto restart :** Define the system reboot time(0:00~23:00) , Can choose every day or every five days or every 10 days , System Reboot Automatically.



2.Can set up the required NTP Server

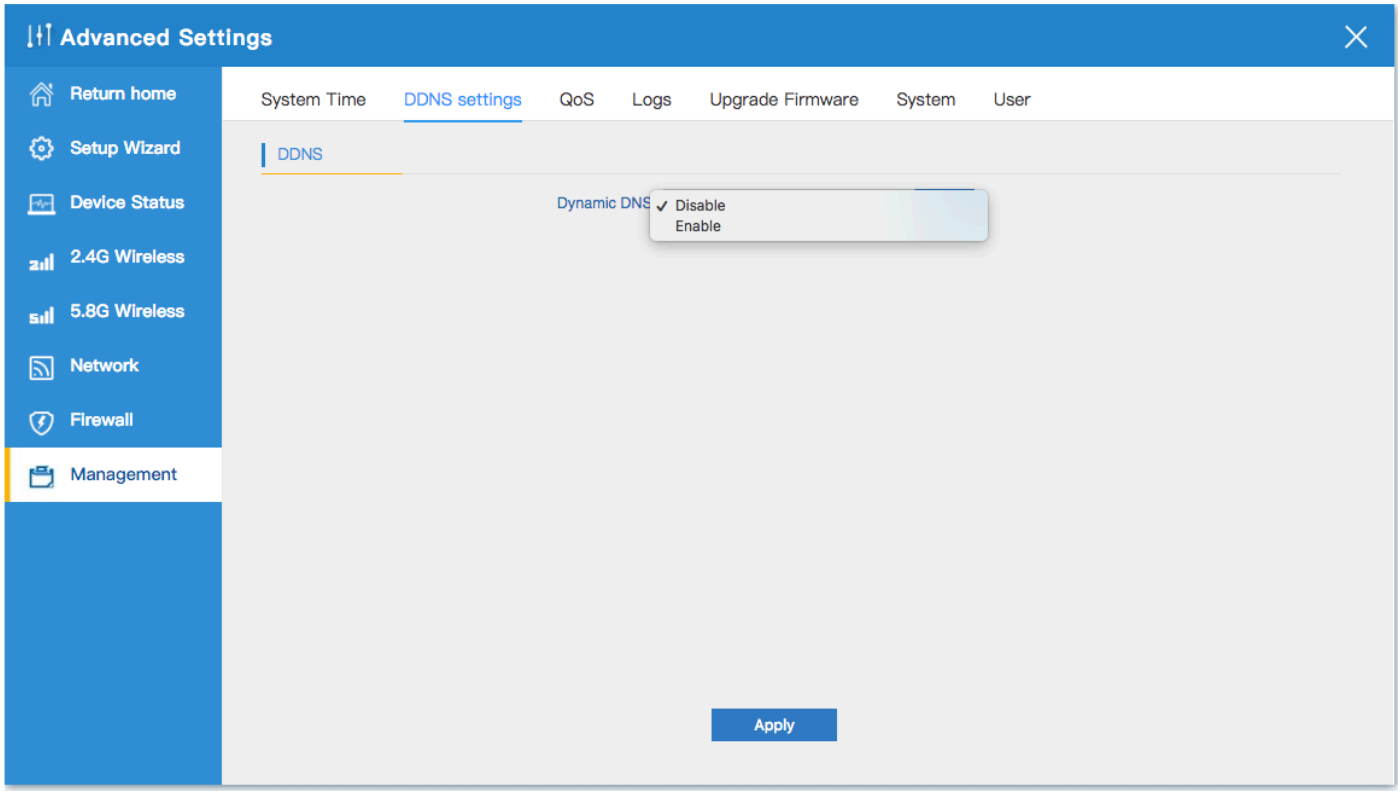


3.Can add NTP Server yourself (ex: Hinet NTP Server)

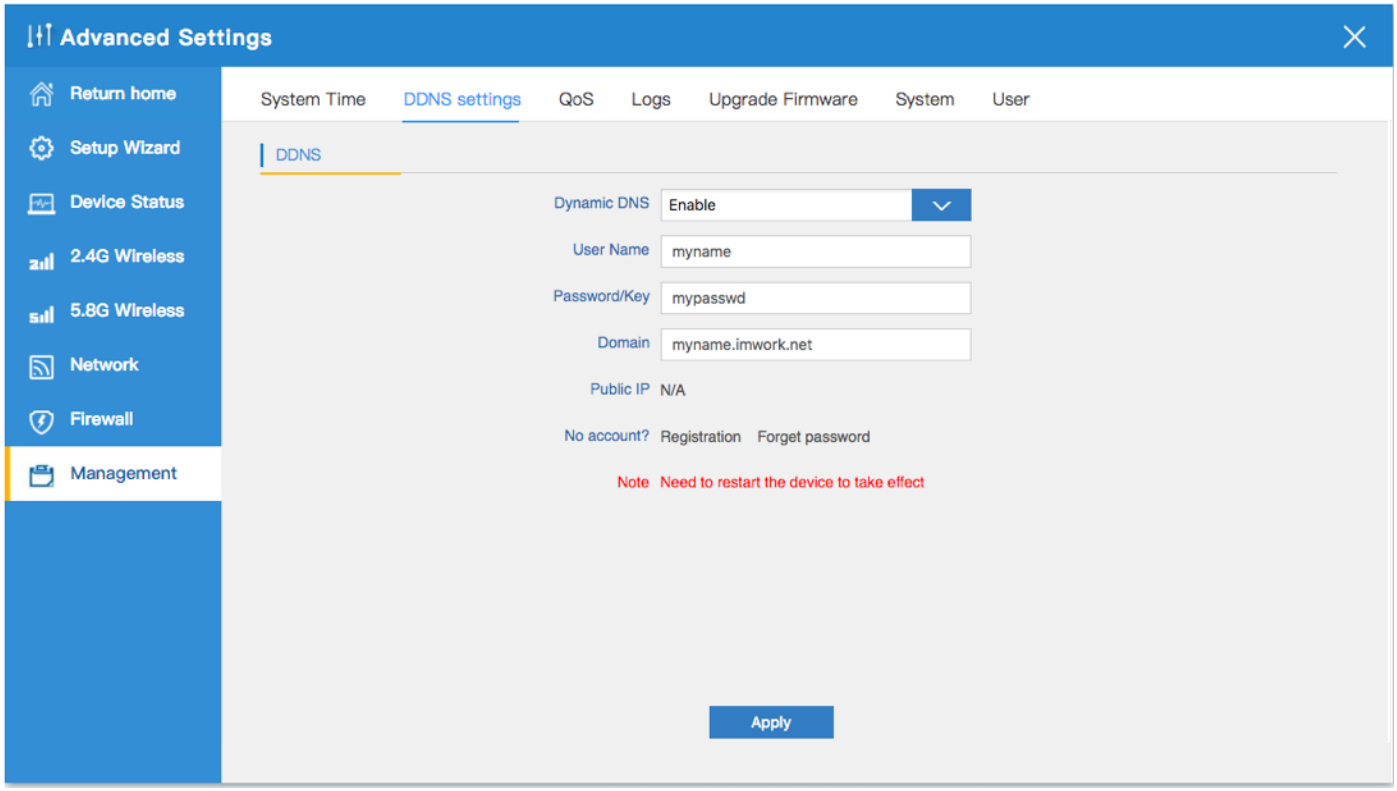


6.3.2 DDNS settings :

1.Factory default value is disable

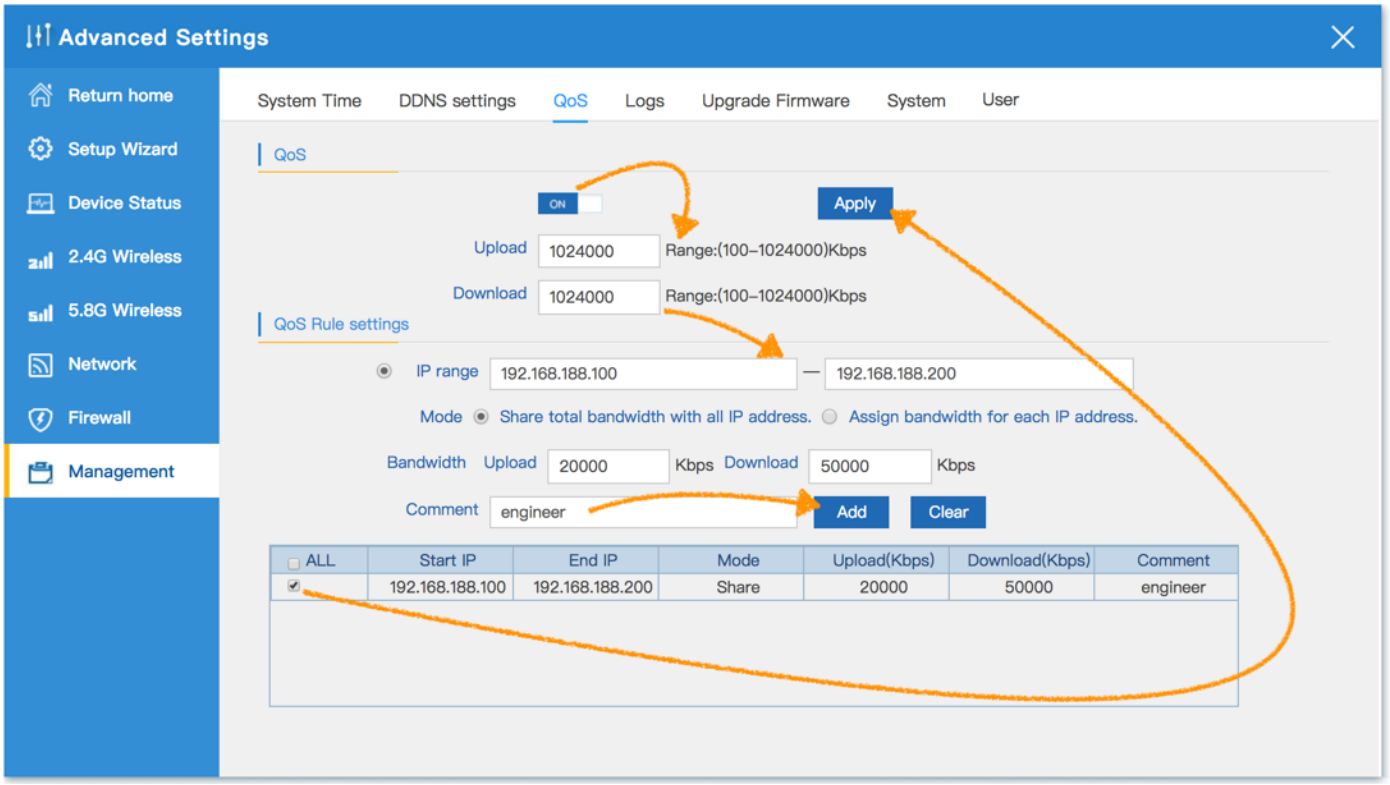


2. For users no apply for an ISP fixed IP address, only Floating real IP address , you can also connect to the network device in WAP-8123 through the DDNS service.



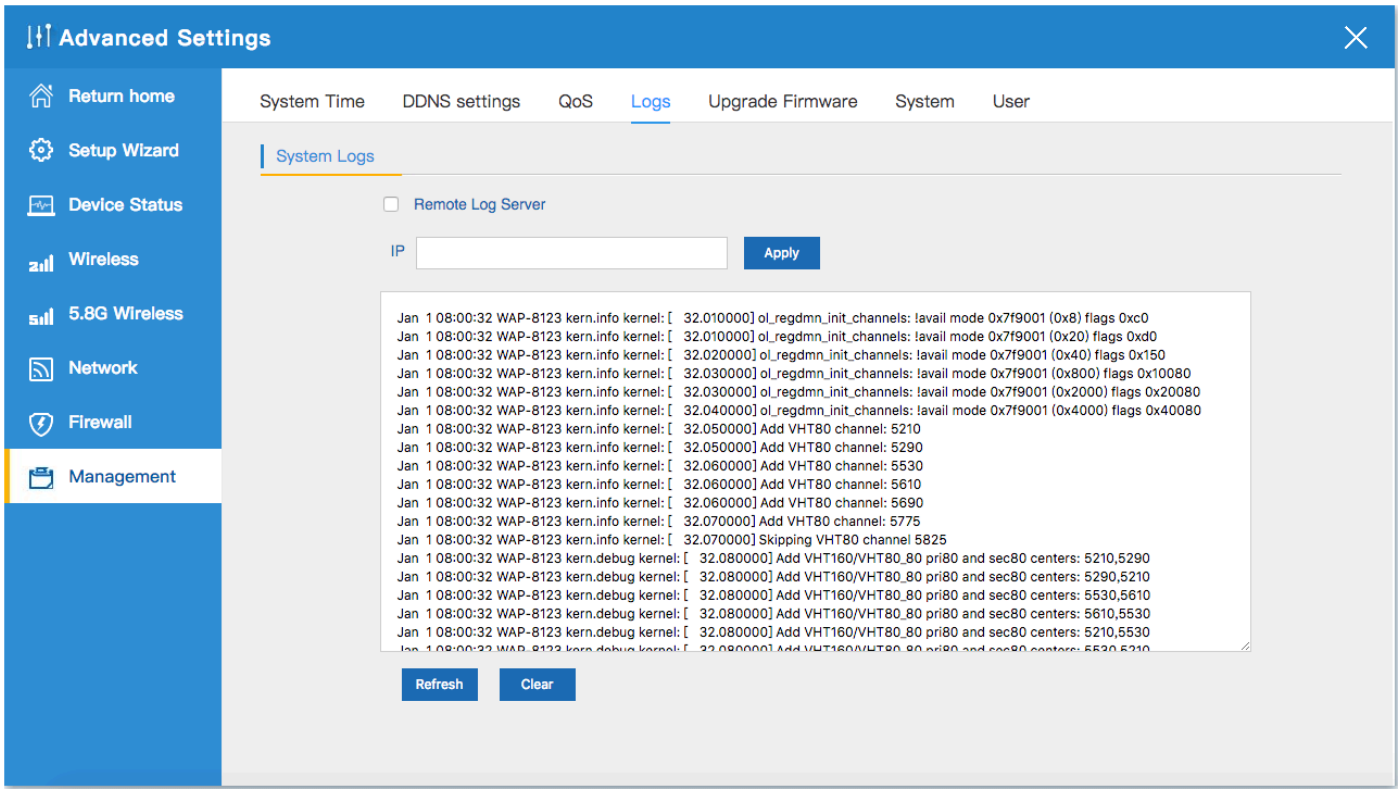
6.3.3 QoS :

- Can manually specify the IP address range of the device to limit the upload and download



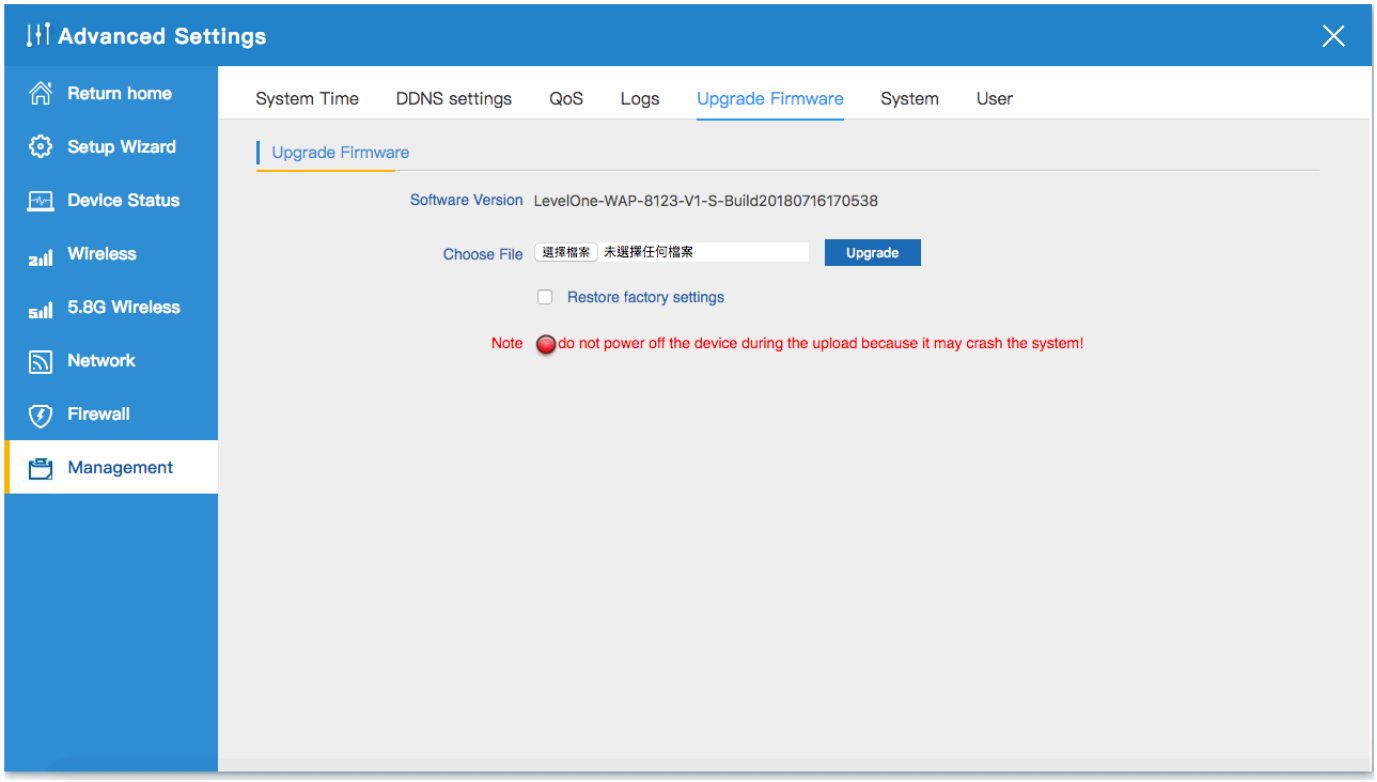
6.3.4 Logs :

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



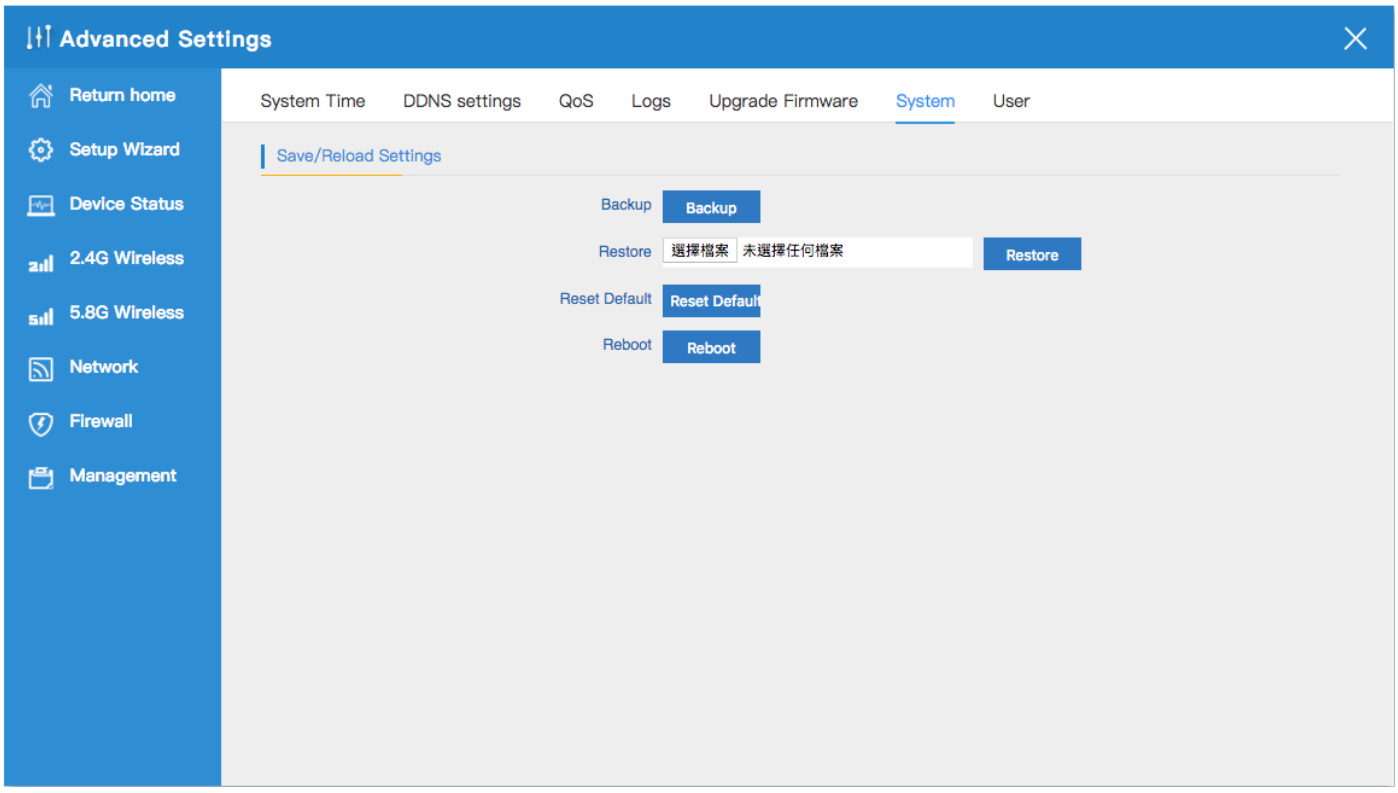
6.3.5 Upgrade Firmware :

- Allows you to browse the new firmware in your computer and upgrade. Please do not power off the device during upgrade.



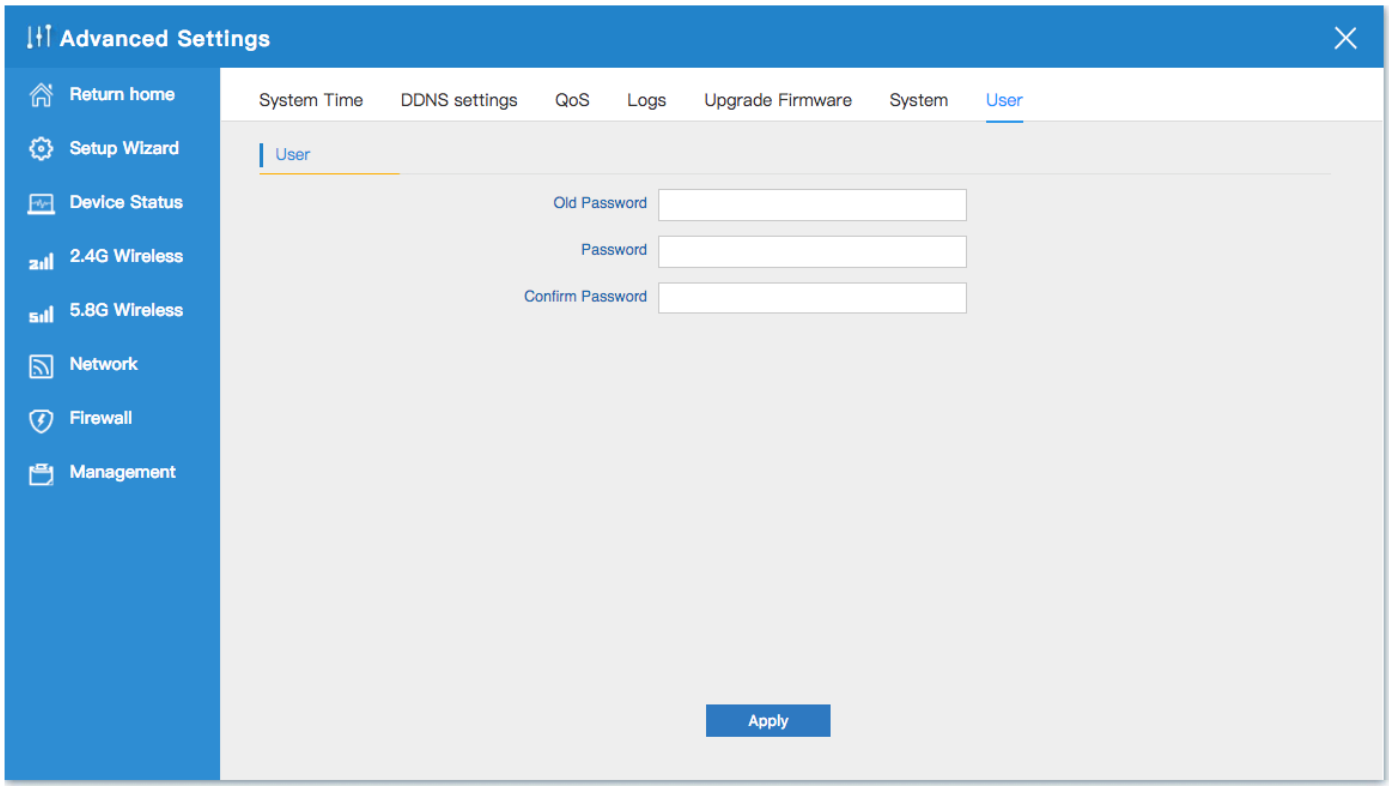
6.3.6 System :

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



6.3.7 User :

- Management and change the password for Log in



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“).

WRITTEN OFFER FOR GPL/LGPL SOURCE CODE

We will provide everyone upon request the applicable GPLv2 and LGPLv2.1 source code files via CDROM or similar storage medium for a nominal cost to cover shipping and media charges as allowed under the GPLv2 and LGPLv2.1. This offer is valid for 3 years. GPLv2 and LGPLv2 inquiries: Please direct all GPL and LGPL inquiries to the following address:

Digital Data Communications GmbH

Zeche-Norm-Str. 25

44319 Dortmund

Deutschland

Phone: +49 231 9075 - 0

Fax: +49 231 9075 - 184

Email:support@level1.com

Web: www.level1.com

NO WARRANTY

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,

INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF

THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can

get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate

works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

we use this doubled UL to get the sub-sections indented, while making the bullets as unobvious as possible.

a) Accompany it with the complete corresponding
machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However,
as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.
4.You may not copy, modify, sublicense, or distribute theProgram except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or

distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5.You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6.Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7.If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range

of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed

to be a consequence of the rest of this License.

8.If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces,the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation

excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9.The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11.BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO

WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12.IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW

OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE

PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and an idea of what it does.

Copyright (C) yyyy name of author

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2

of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

YoushouldhavereceivedacopyoftheGNUGeneralPublicLicense along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this

when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w ' and `show c '; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision'
(which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989 Ty Coon,
President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

Notification of Compliance

Europe - EU Declaration of Conformity

For complete DoC please visit
http://global.level1.com/downloads.php?action=init

GPL License Agreement

GPL may be included in this product, to view the GPL license agreement goes to
http://download.level1.com/level1/gpl/GPL.pdf

For GNU General Public License (GPL) related information, please visit
http://global.level1.com/downloads.php?action=init