

# User Manual

( WAP-6121 )



HW: V2  
UM: V1.0

# Default Settings

IP Address	192.168.188.253
Password	admin
WiFi SSID	LevelOne
Password	66666666

## Attention:

### Check box contents:

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

### Warning:



#### **Attention**

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

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# Chapter 1 Hardware and Operation mode Instruction

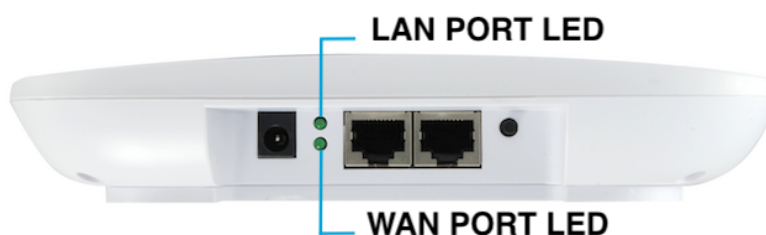
## 1.1 LED indicator:



### LED Light State description

Color	Status	Description
--	Off	The WAP-6121 is not receiving power.
Green	On	Device Startup state.
Green	Fast Blinking	Reset to Defaults.
Blue	On	2.4G WIFI SSID Broadcast ON
Blue	Blinking	The device status is running normally.

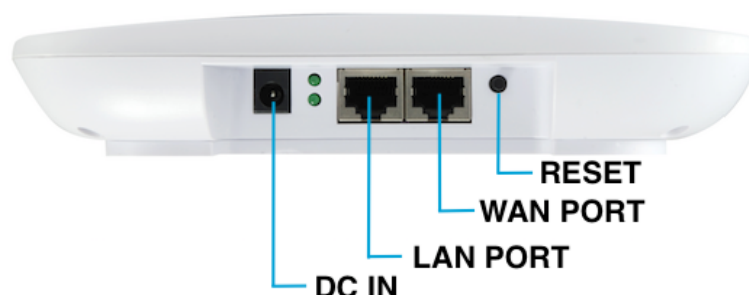
### ● Rear View of the WAP-6121



### LED Light State description

LED	Color	Status	Description
LAN (10/100Mbps 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 (10/100Mbps 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.

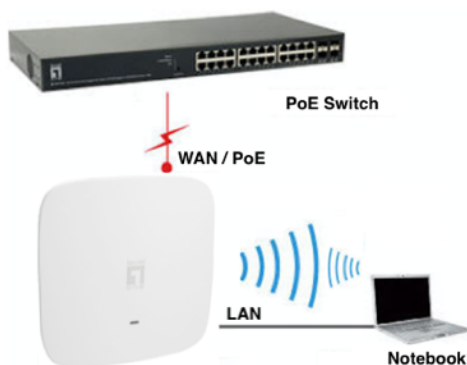
## 1.3 Interface Description



Button / Interface	Description
LAN port (10/100Mbps RJ45 port)	The LAN port is used to connect to network devices, such as a switch or PC / NB
WAN port (10/100Mbps 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 ( IEEE802.3af ) 48 VDC. ( PoE adapter unit is to be ordered separately )
RESET (Reset to Default)	With the AP powered on, press the Reset button for 10~14 seconds until the Signal Strength LED blink faster than ever. The AP will restart itself and reset the device to factory default settings.
DC IN	12V/1.5A DC input Power Adapter . <b>Note :</b> Power 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 802.3af standard.



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

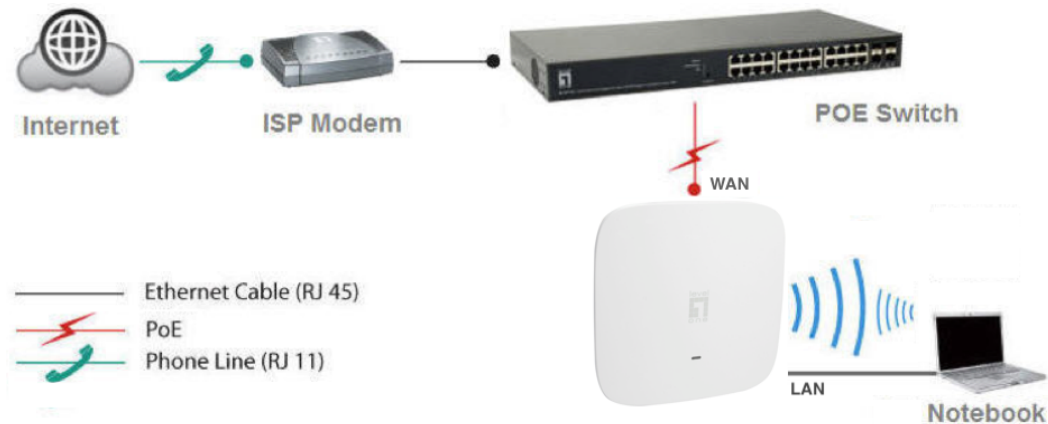
**Note:** Adapter unit is to be ordered separately



## 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)



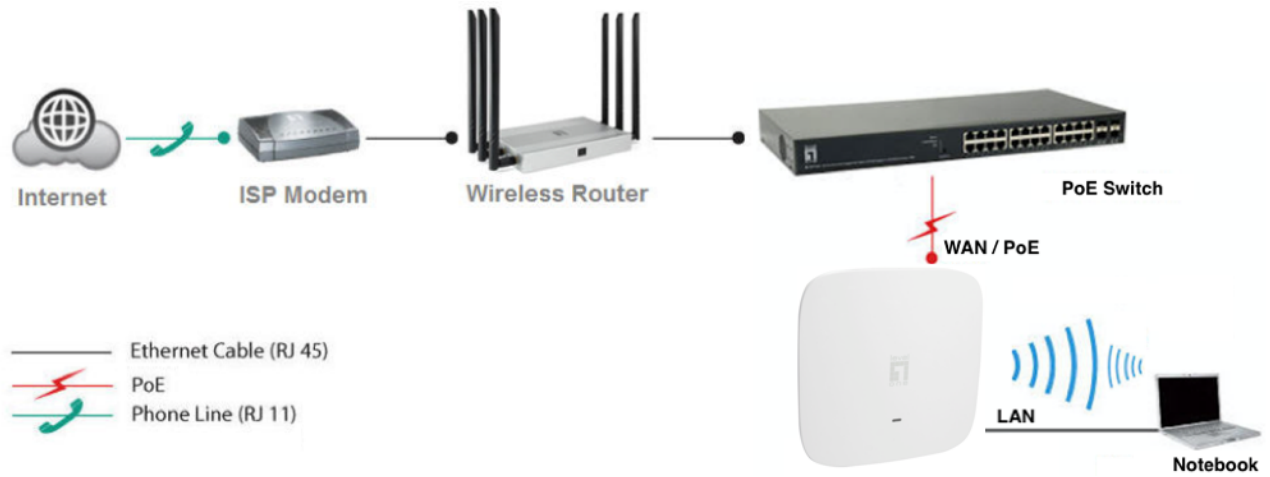
- **WISP mode:** Receive ISP Modem Wireless network and select one of them Internet access method (PPPoE, DHCP, static IP).  
( **Note:** Adapter unit is to be ordered separately )



- **Repeater mode:** The AP 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

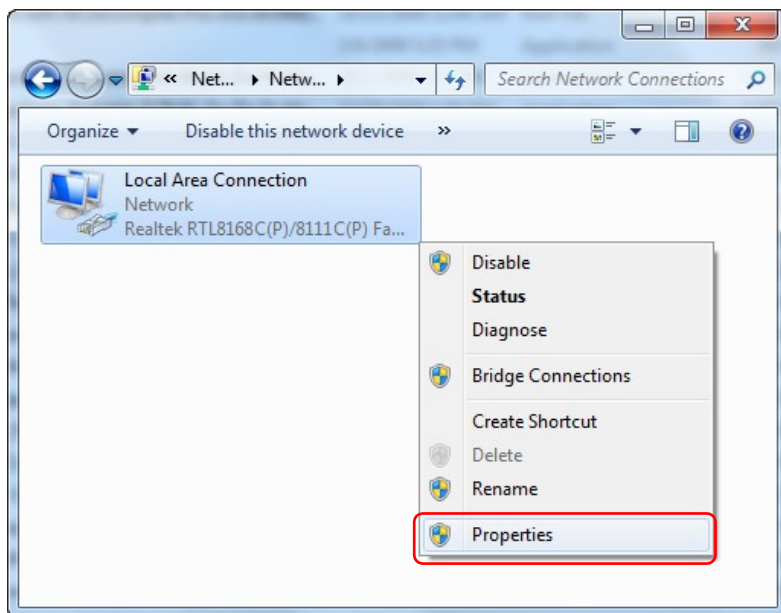


## Chapter 2 Login

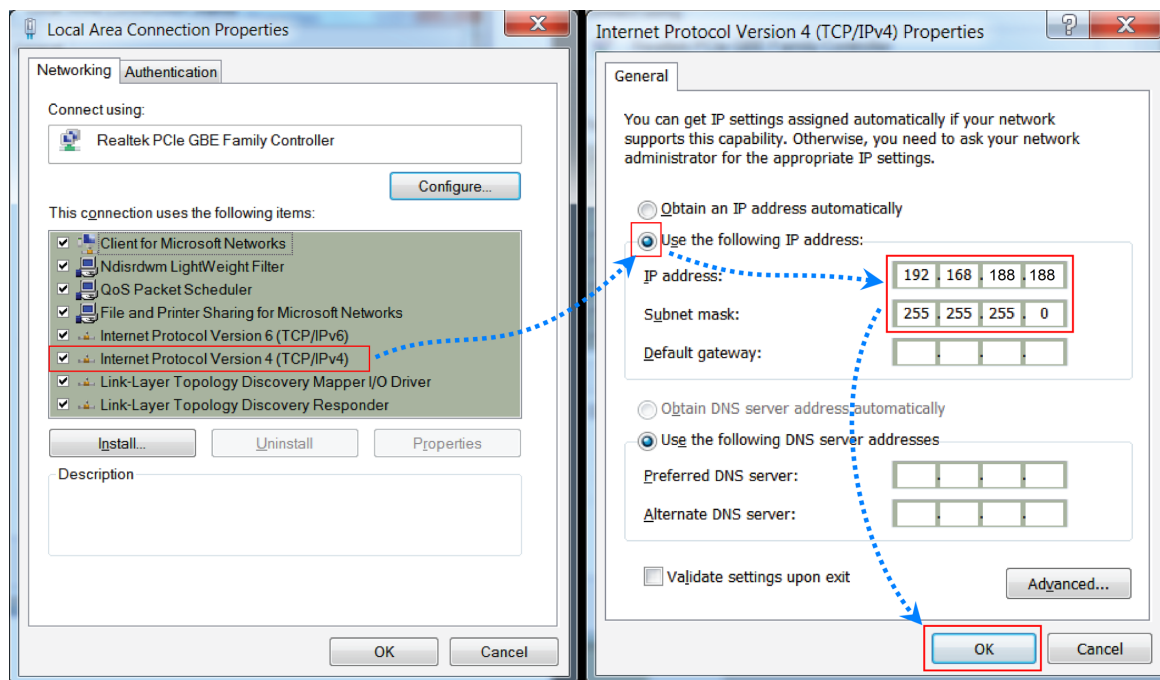
The necessary information about log in is displayed on the sticker of the product, including the URL, User Name and Pass Word

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.

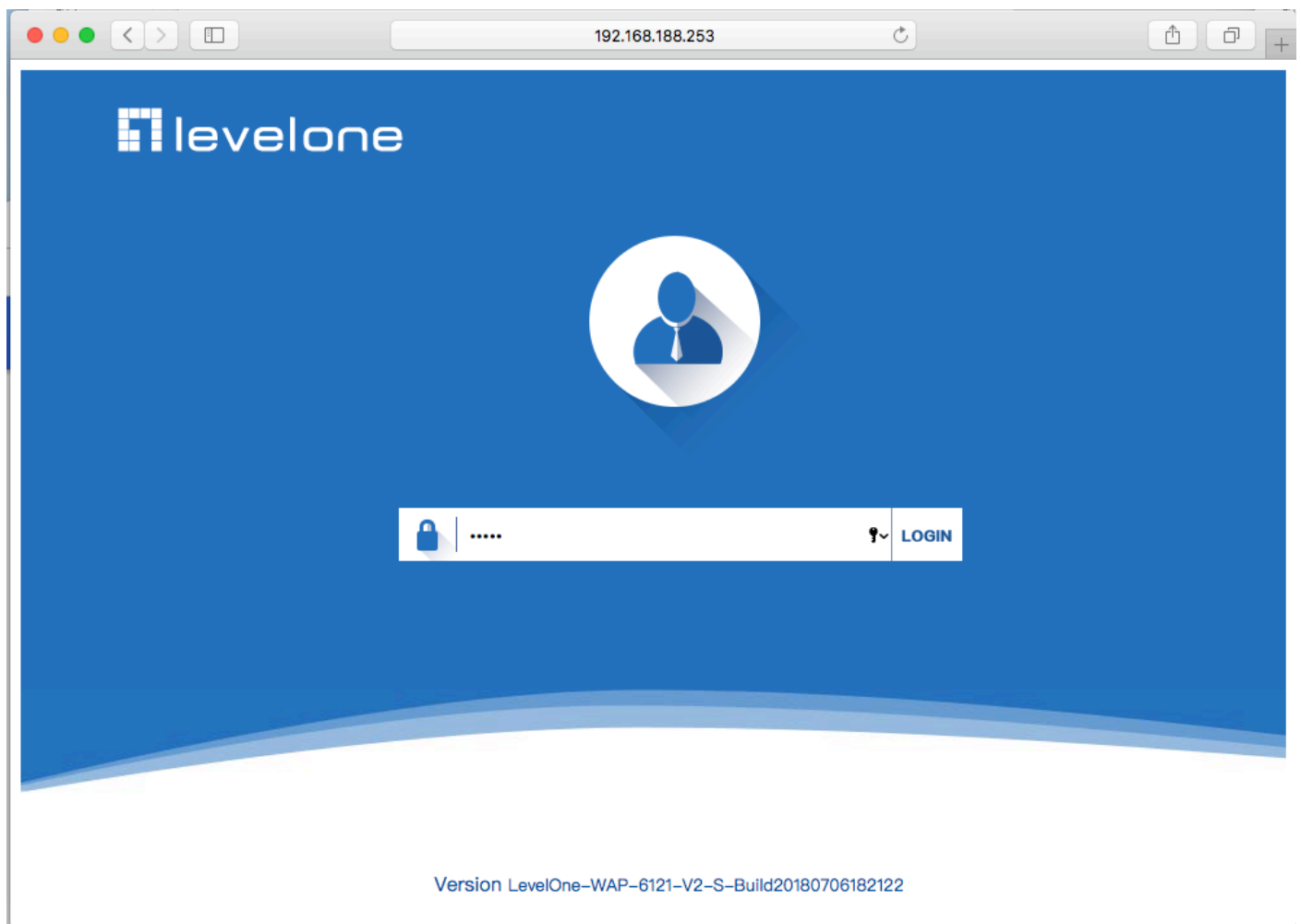


▲ P1 Setting of computer's IP address

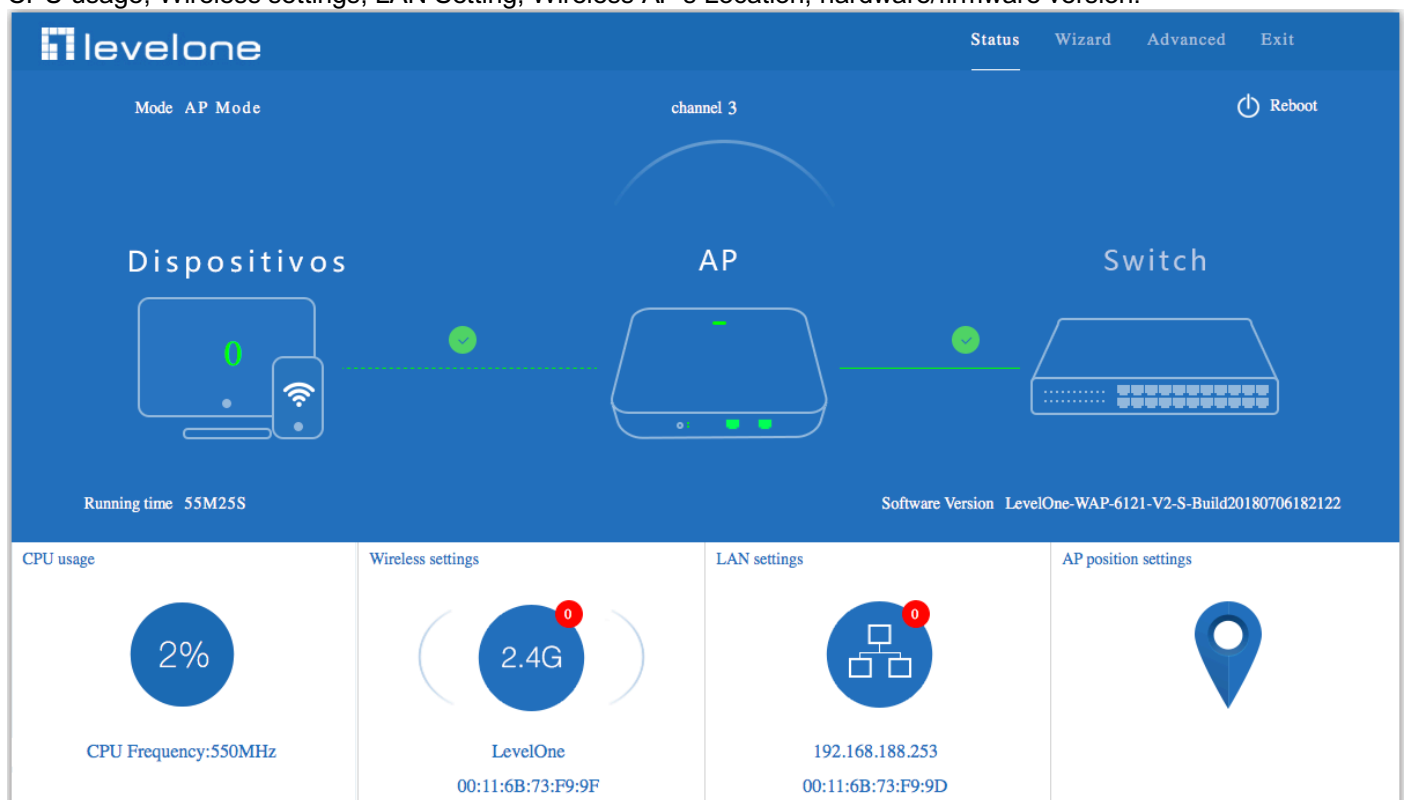


▲ P2 Setting of computer's IP address

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

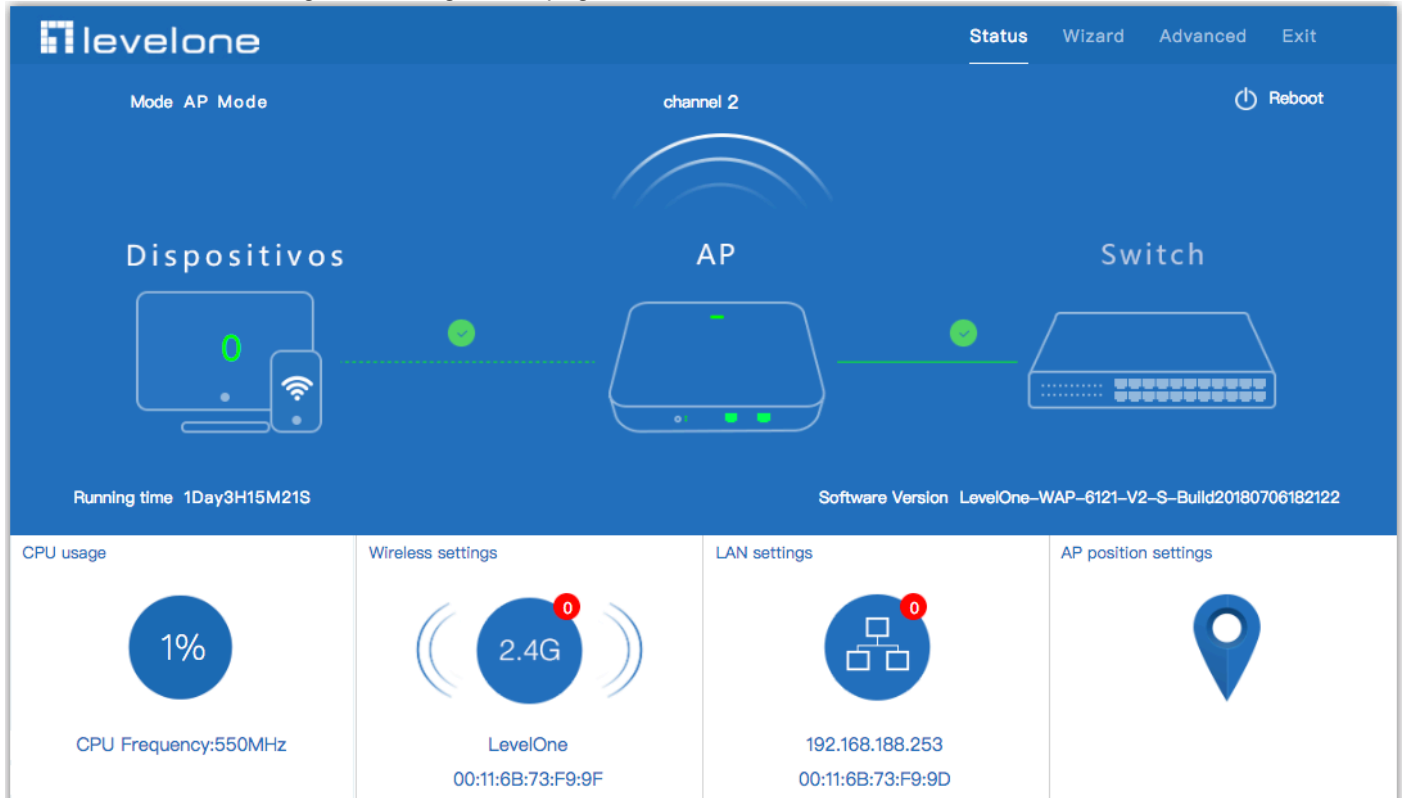


4. WAP-6121 After login, This page will show the Wireless AP's default operation mode, channel, connection status, CPU usage, Wireless settings, LAN Setting, Wireless AP's Location, hardware/firmware version.



## 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

The screenshot displays the LevelOne web interface. At the top, there are tabs for 'Status', 'Wizard', 'Advanced', and 'Exit'. Below these, the 'Mode' is set to 'AP Mode'. A 'Reboot' button is visible in the top right. The main area shows a network diagram with 'Dispositivos' (Devices) connected to an 'AP' (Access Point), which is connected to a 'Switch'. Below the diagram, the 'Running time' is '1Day3H17M20S' and the 'Software Version' is 'LevelOne-WAP-6121-V2-S-Build20180706182122'. The bottom section contains four status cards: 'CPU usage' (2%), 'Wireless settings' (2.4G), 'LAN settings' (192.168.188.253), and 'AP position settings'. A modal window titled 'LAN settings' is open, showing 'Access Type' with options 'Static IP' and 'DHCP from Controller' (selected). An 'Apply' button is at the bottom of the modal. An orange arrow points from the 'LAN settings' modal to the 'LAN settings' status card.

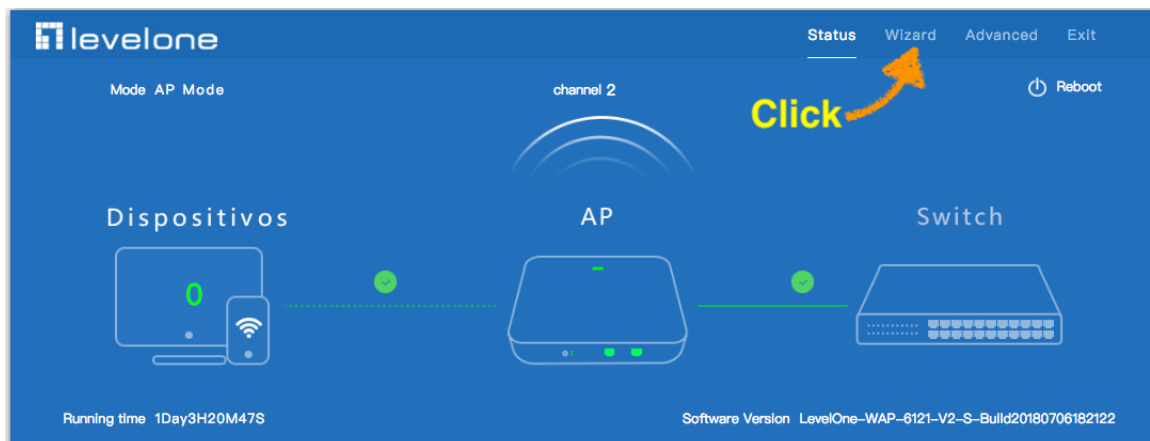
### 4. AP location setting: can mark where the AP set up, and AP name

The screenshot displays the LevelOne web interface. At the top, there are tabs for 'Status', 'Wizard', 'Advanced', and 'Exit'. Below these, the 'Mode' is set to 'AP Mode'. A 'Reboot' button is visible in the top right. The main area shows a network diagram with 'Dispositivos' (Devices) connected to an 'AP' (Access Point), which is connected to a 'Switch'. Below the diagram, the 'Running time' is '1Day3H18M38S' and the 'Software Version' is 'LevelOne-WAP-6121-V2-S-Build20180706182122'. The bottom section contains four status cards: 'CPU usage' (0%), 'Wireless settings' (2.4G), 'LAN settings' (192.168.188.253), and 'AP position settings'. A modal window titled 'Location Information' is open, showing 'AP Name' (Business unit AP) and 'AP Location' (7F). An 'Apply' button is at the bottom of the modal. An orange arrow points from the 'Location Information' modal to the 'AP position settings' status card.



## 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.



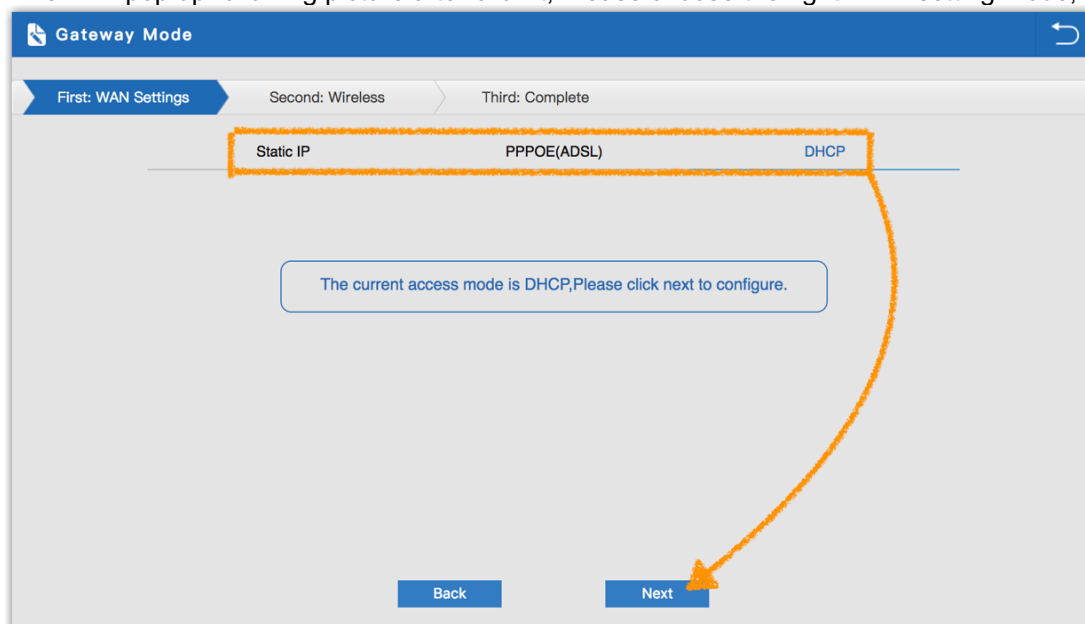
2.Wizard: It instruct users to configure wireless AP's operation mode based on needs: there are four operation mode including gateway, repeater, WISP, Wireless AP. Please confirm the operation mode first before configuration starting.



## 3.2 Gateway Mode:

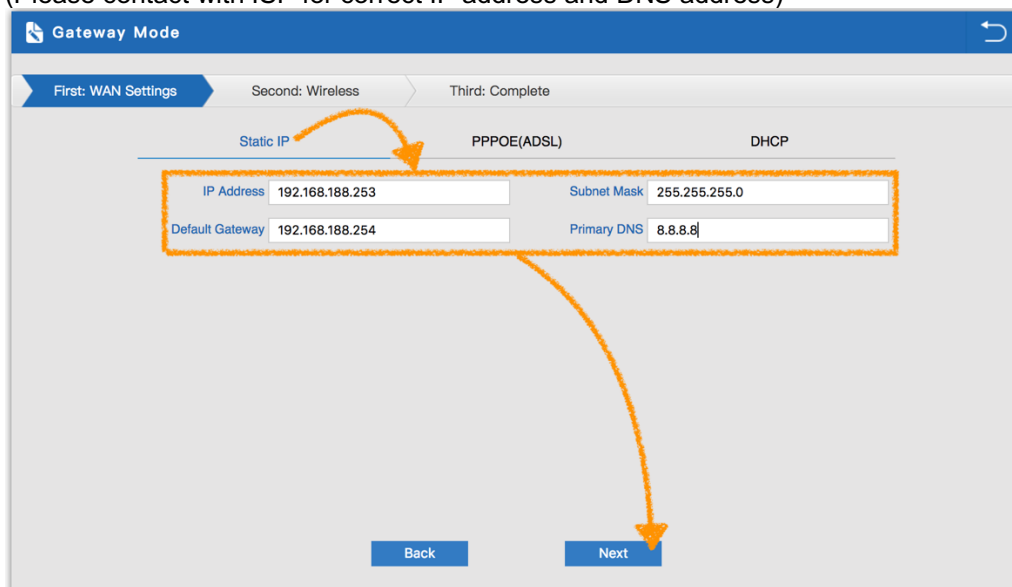
Before Click Gateway mode, confirm your internet will be static IP, PPPoE, or DHCP:

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



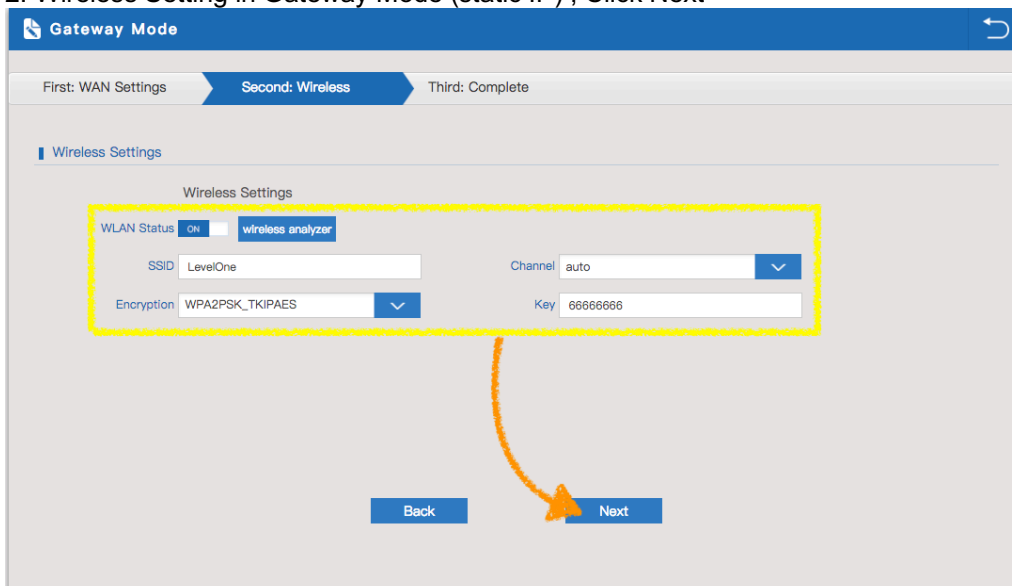
### 3.2.1 Static IP setting in Gateway Mode :

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



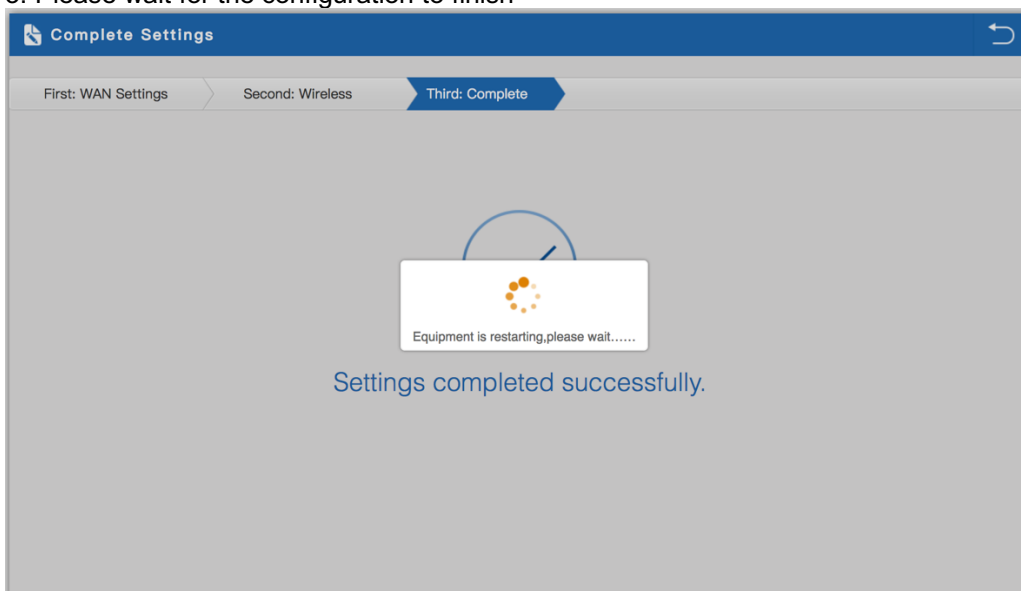
The screenshot shows the 'Gateway Mode' configuration interface. At the top, there are three tabs: 'First: WAN Settings', 'Second: Wireless', and 'Third: Complete'. The 'First: WAN Settings' tab is active. Below the tabs, there are three radio buttons: 'Static IP', 'PPPOE(ADSL)', and 'DHCP'. The 'Static IP' radio button is selected. Below the radio buttons, there are four input fields: 'IP Address' (192.168.188.253), 'Subnet Mask' (255.255.255.0), 'Default Gateway' (192.168.188.254), and 'Primary DNS' (8.8.8.8). An orange dashed box highlights these four input fields. At the bottom, there are two buttons: 'Back' and 'Next'. An orange arrow points from the 'Next' button to the 'Static IP' radio button.

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



The screenshot shows the 'Gateway Mode' configuration interface. At the top, there are three tabs: 'First: WAN Settings', 'Second: Wireless', and 'Third: Complete'. The 'Second: Wireless' tab is active. Below the tabs, there is a section titled 'Wireless Settings'. Inside this section, there are four input fields: 'WLAN Status' (ON), 'SSID' (LevelOne), 'Channel' (auto), and 'Encryption' (WPA2PSK\_TKIPAES). An orange dashed box highlights these four input fields. At the bottom, there are two buttons: 'Back' and 'Next'. An orange arrow points from the 'Next' button to the 'WLAN Status' input field.

3. Please wait for the configuration to finish



The screenshot shows the 'Complete Settings' screen. At the top, there are three tabs: 'First: WAN Settings', 'Second: Wireless', and 'Third: Complete'. The 'Third: Complete' tab is active. Below the tabs, there is a large circular progress indicator. Inside the circle, there is a text box that says 'Equipment is restarting, please wait.....'. Below the circle, there is a text box that says 'Settings completed successfully.'

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



### 3.2.2 PPPoE(ADSL) setting in Gateway Mode :

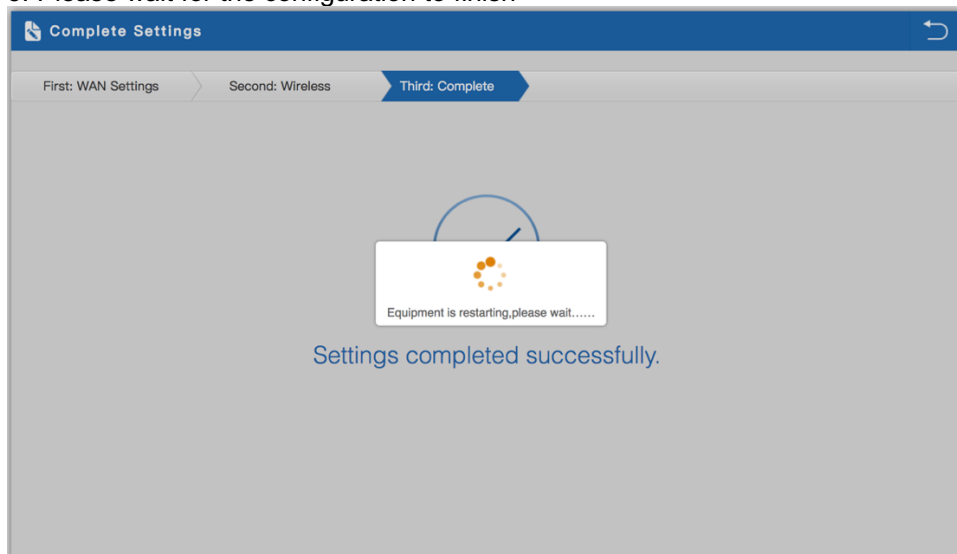
1. Sample PPPoE mode setting method, then click next to continue.  
(Please contact with ISP for correct PPPoE Name and Password)

The screenshot shows the Gateway Mode WAN Settings page. The page has three tabs: First: WAN Settings, Second: Wireless, and Third: Complete. The First: WAN Settings tab is active. Below the tabs, there are three options: Static IP, PPPoE(ADSL), and DHCP. The PPPoE(ADSL) option is selected and highlighted with an orange arrow. Below the options, there are two input fields: PPPoE Name (87654321@hinet.net) and PPPoE Password (\*\*\*\*\*). Both fields are highlighted with an orange dashed box. At the bottom, there are two buttons: Back and Next. An orange arrow points from the Next button to the PPPoE(ADSL) option.

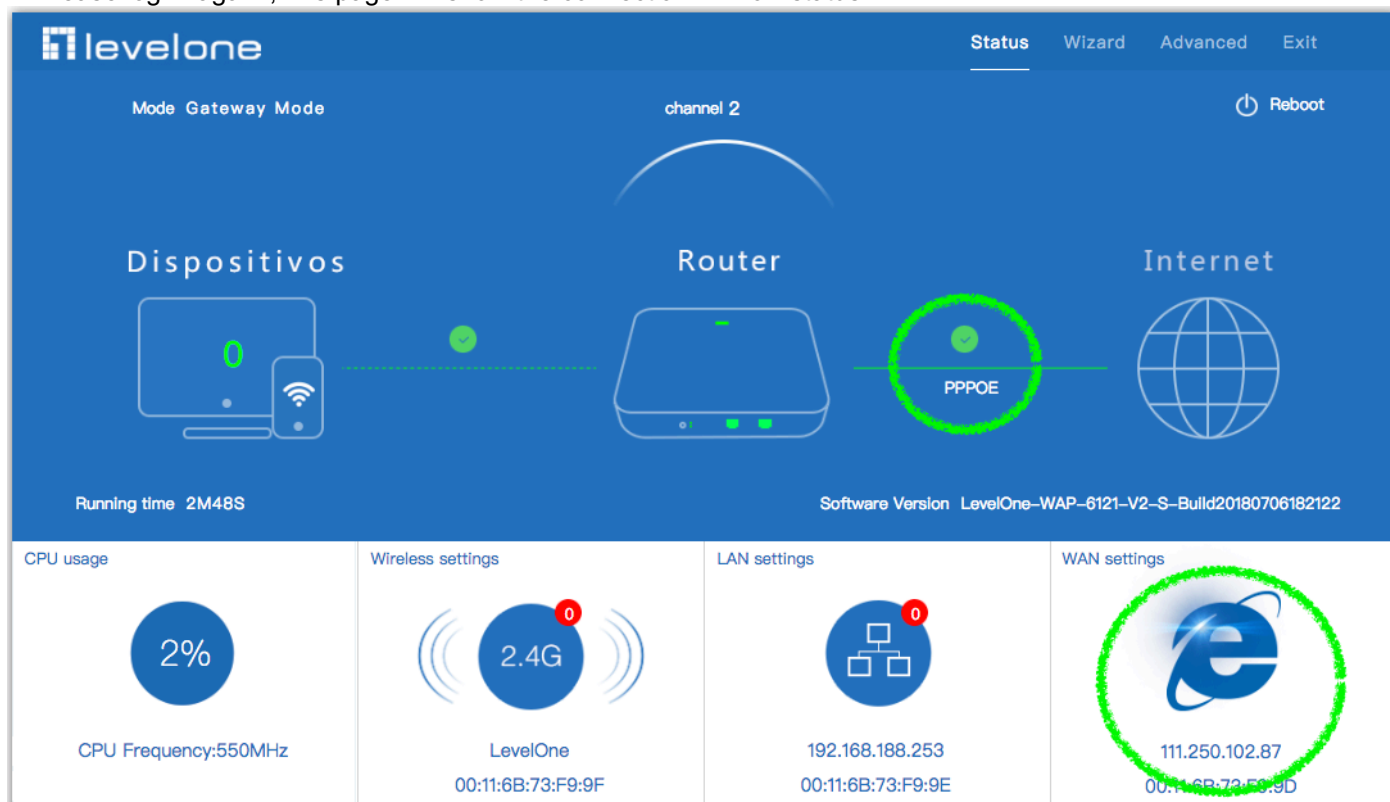
2. Wireless Setting in Gateway Mode (PPPoE), Click Next

The screenshot shows the Gateway Mode Wireless Settings page. The page has three tabs: First: WAN Settings, Second: Wireless, and Third: Complete. The Second: Wireless tab is active. Below the tabs, there are three options: First: WAN Settings, Second: Wireless, and Third: Complete. The Second: Wireless tab is active. Below the tabs, there are three options: Static IP, PPPoE(ADSL), and DHCP. The PPPoE(ADSL) option is selected and highlighted with an orange arrow. Below the options, there are two input fields: PPPoE Name (87654321@hinet.net) and PPPoE Password (\*\*\*\*\*). Both fields are highlighted with an orange dashed box. At the bottom, there are two buttons: Back and Next. An orange arrow points from the Next button to the PPPoE(ADSL) option.

3. Please wait for the configuration to finish

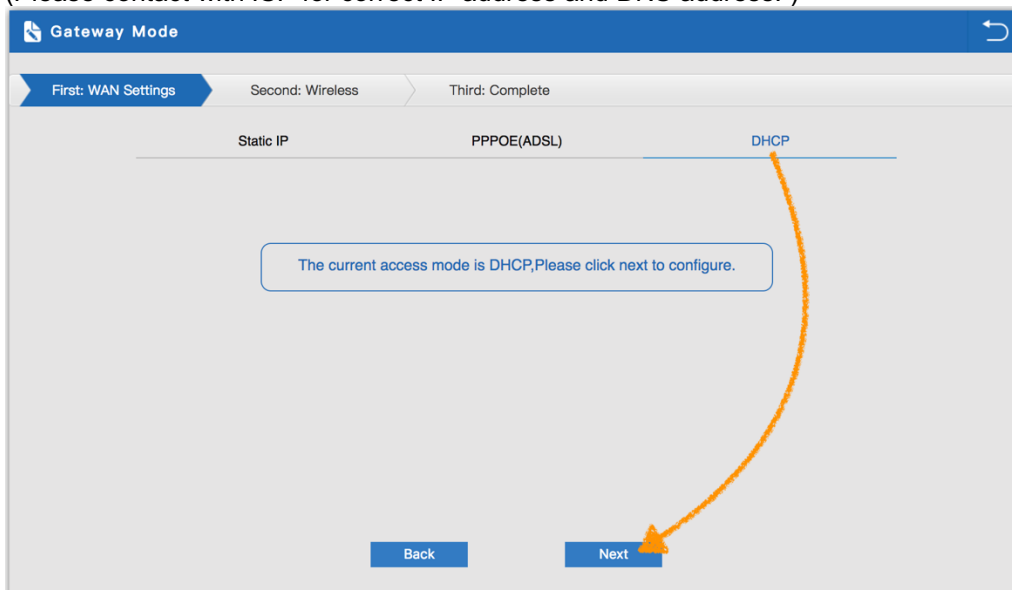


4. Please log in again ,This page will show the connection PPPoE status



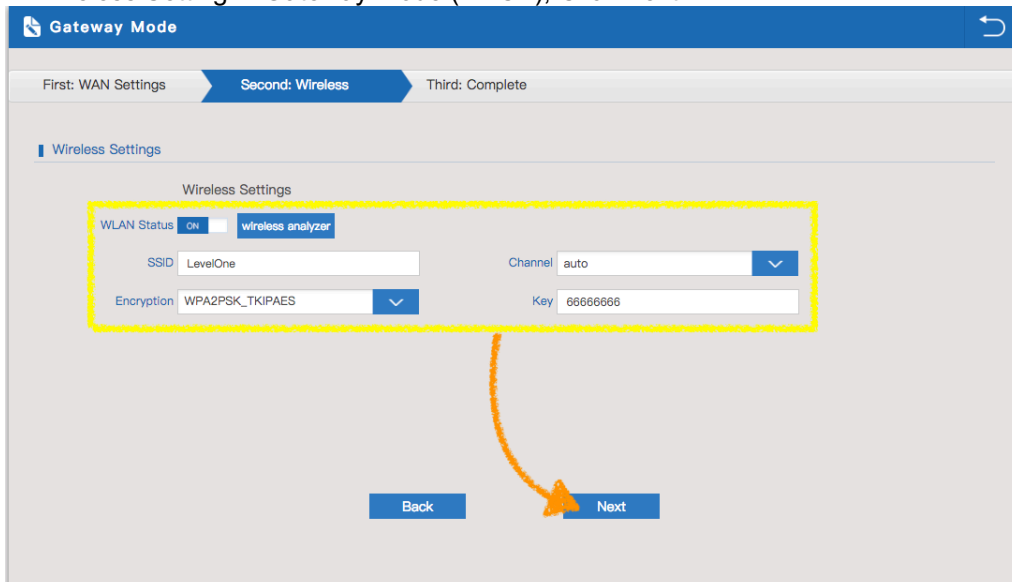
### 3.2.3 DHCP setting in Gateway Mode :

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



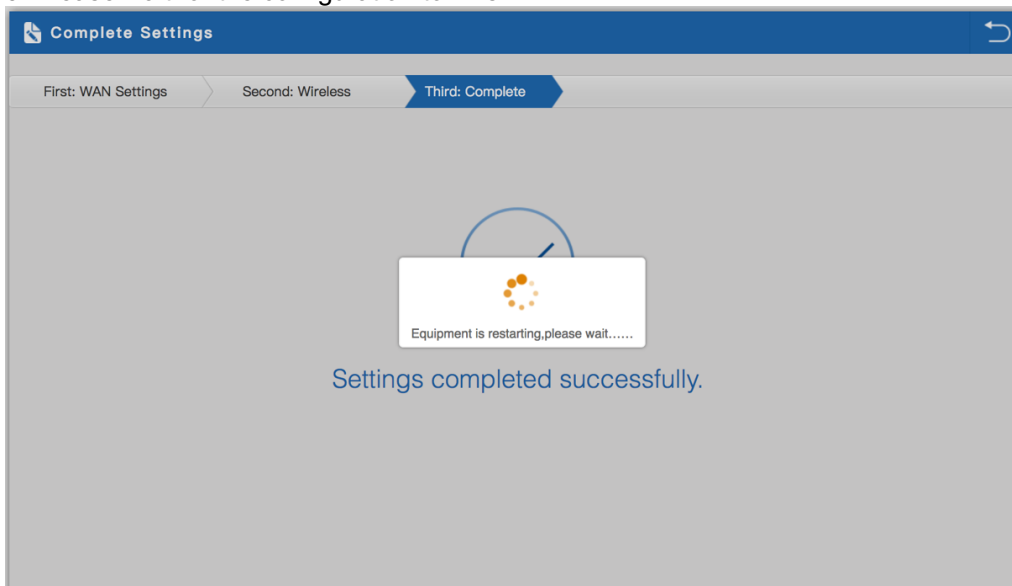
The screenshot shows the 'Gateway Mode' configuration interface. At the top, there are three tabs: 'First: WAN Settings', 'Second: Wireless', and 'Third: Complete'. Below these, there are three options for the access mode: 'Static IP', 'PPPOE(ADSL)', and 'DHCP'. The 'DHCP' option is selected and highlighted with a blue line. A message box in the center states: 'The current access mode is DHCP, Please click next to configure.' At the bottom, there are 'Back' and 'Next' buttons. An orange arrow points from the 'DHCP' option to the 'Next' button.

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



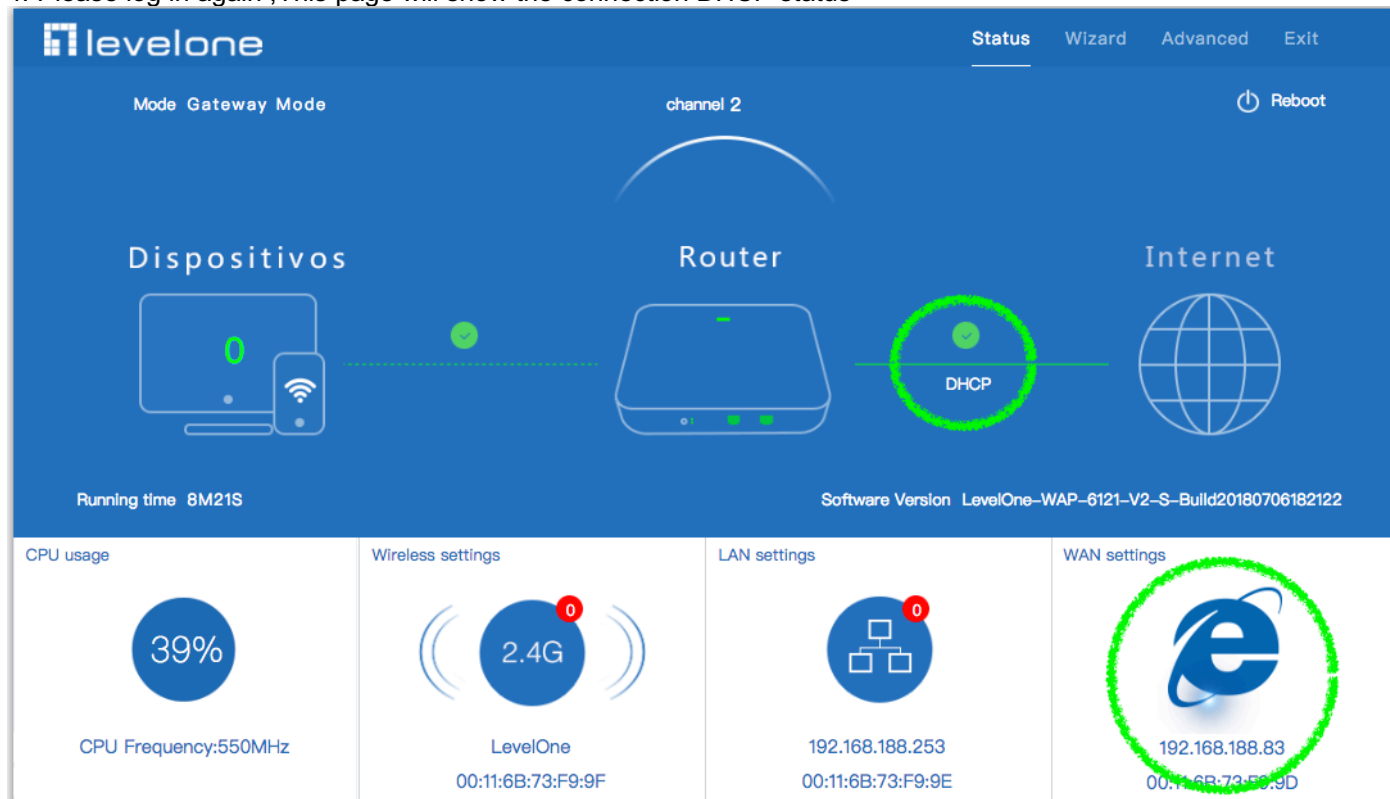
The screenshot shows the 'Gateway Mode' configuration interface, specifically the 'Second: Wireless' tab. The 'Wireless Settings' section is highlighted with a yellow box. It contains the following fields: 'WLAN Status' (ON), 'wireless analyzer' (button), 'SSID' (LevelOne), 'Channel' (auto), 'Encryption' (WPA2PSK\_TKIPAES), and 'Key' (66666666). At the bottom, there are 'Back' and 'Next' buttons. An orange arrow points from the 'Next' button in the previous screen to the 'Next' button in this screen.

3. Please wait for the configuration to finish

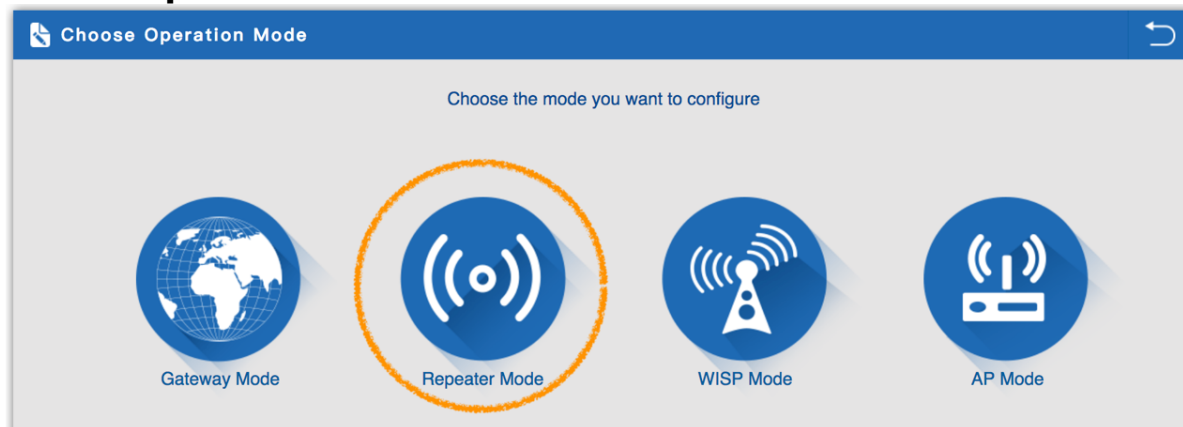


The screenshot shows the 'Complete Settings' screen. At the top, there are three tabs: 'First: WAN Settings', 'Second: Wireless', and 'Third: Complete'. The 'Third: Complete' tab is selected and highlighted with a blue arrow. In the center, there is a loading spinner and a message box that says: 'Equipment is restarting, please wait.....'. Below this, the text 'Settings completed successfully.' is displayed.

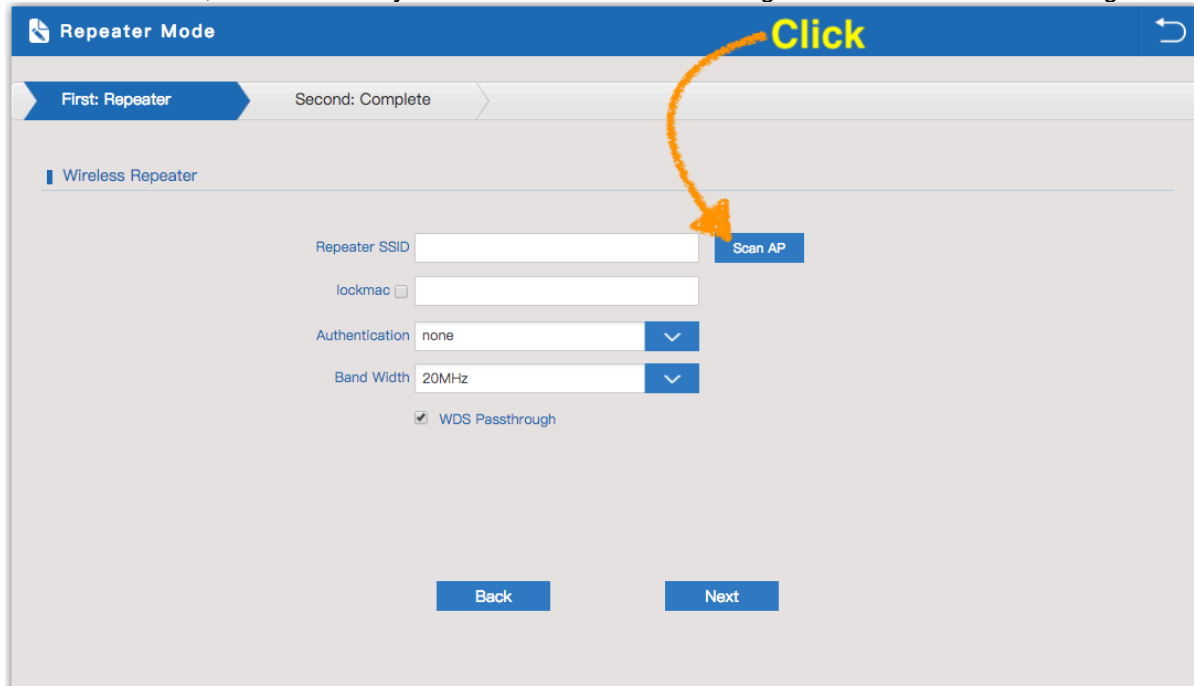
4. Please log in again ,This page will show the connection DHCP status



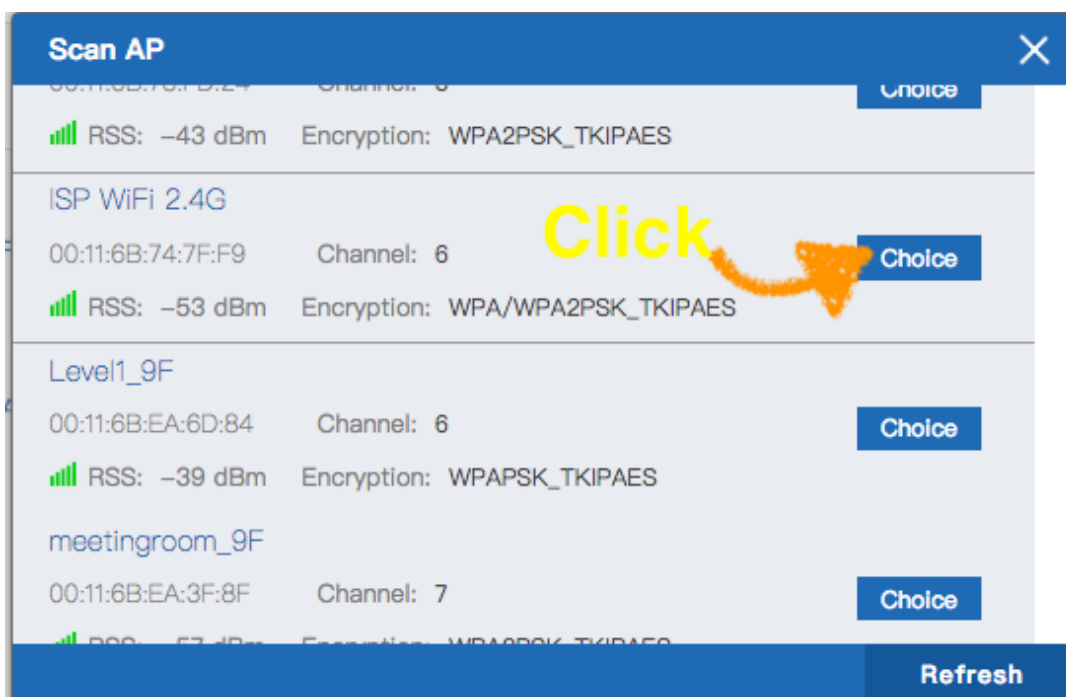
### 3.3 Repeater mode :



1. Click Scan AP, Choose to relay the front-end 2.4G wireless signal to extend the wireless signal range.



2. Select the AP's SSID want to relay, then input the AP's key, Click Choice



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

**Suggestion:** If the upper wireless device is not the same model (WAP-6121), Don't click to WDS Passthrough.

Repeater Mode

First: Repeater Second: Complete

Wireless Repeater

Repeater SSID: ISP WiFi 2.4G Scan AP

lockmac: 00:11:6B:74:7F:F9

Authentication: WPA/WPA2PSK\_TKIPAES

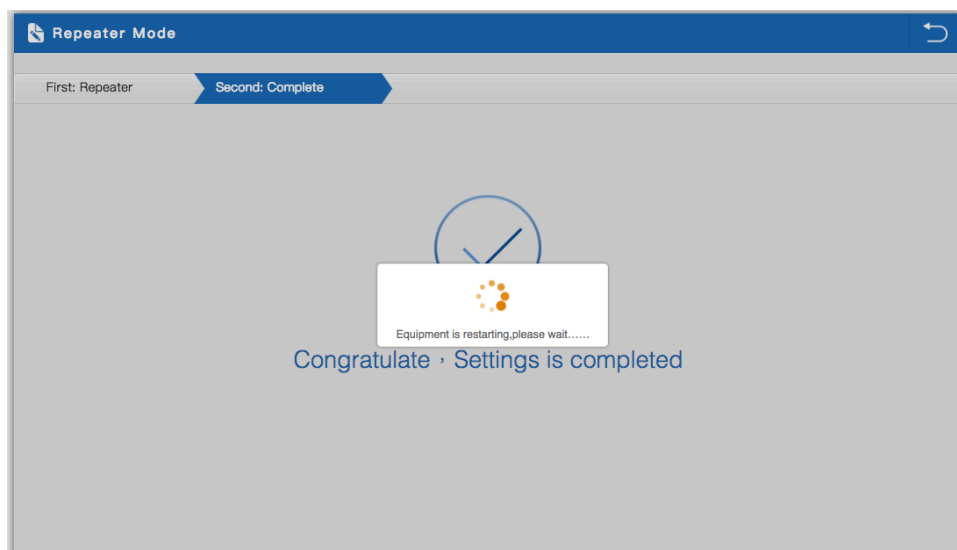
Key: 66666666

Bandwidth: 40MHz

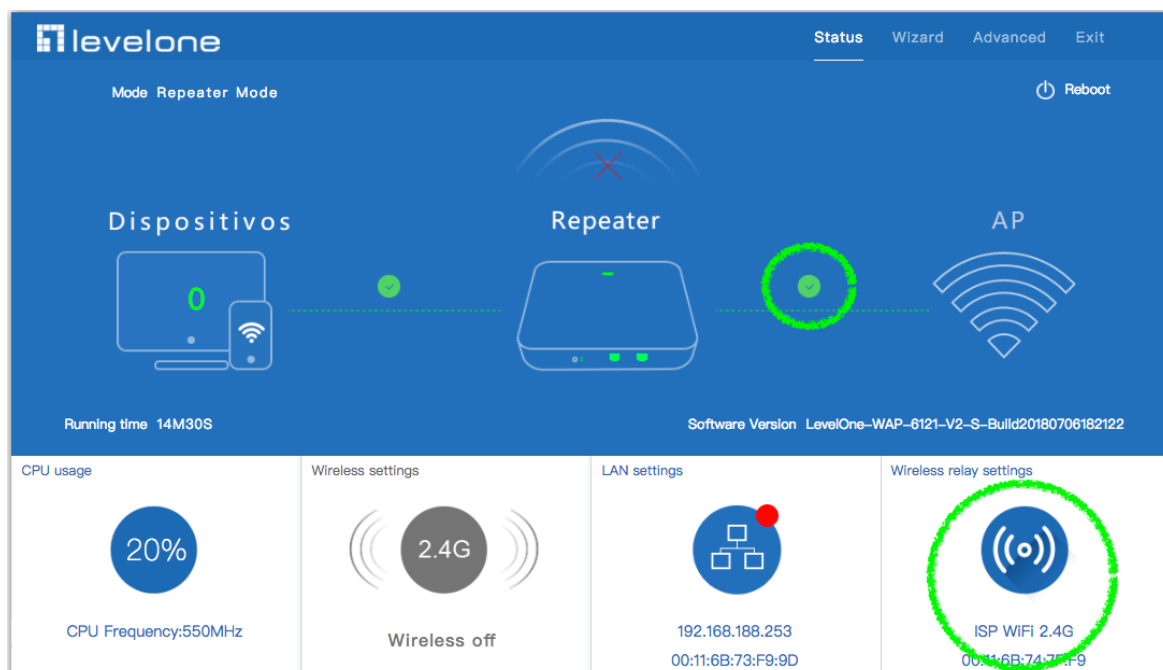
☒ WDS Passthrough

Back Next

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

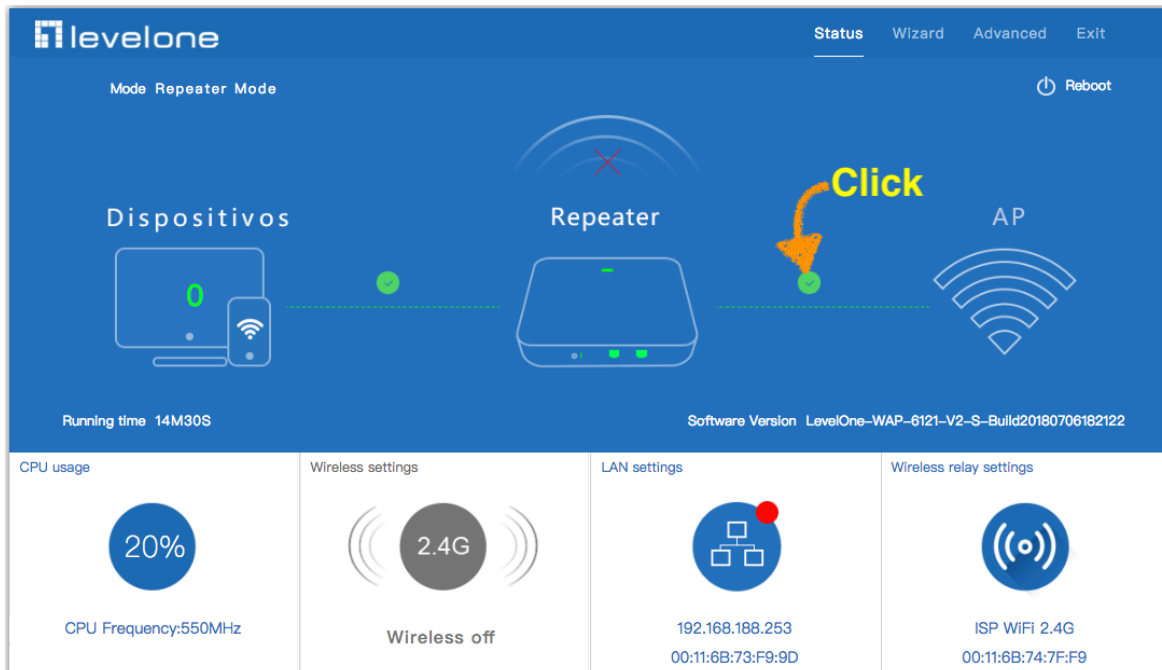


6. Check Wireless Repeater Mode data.

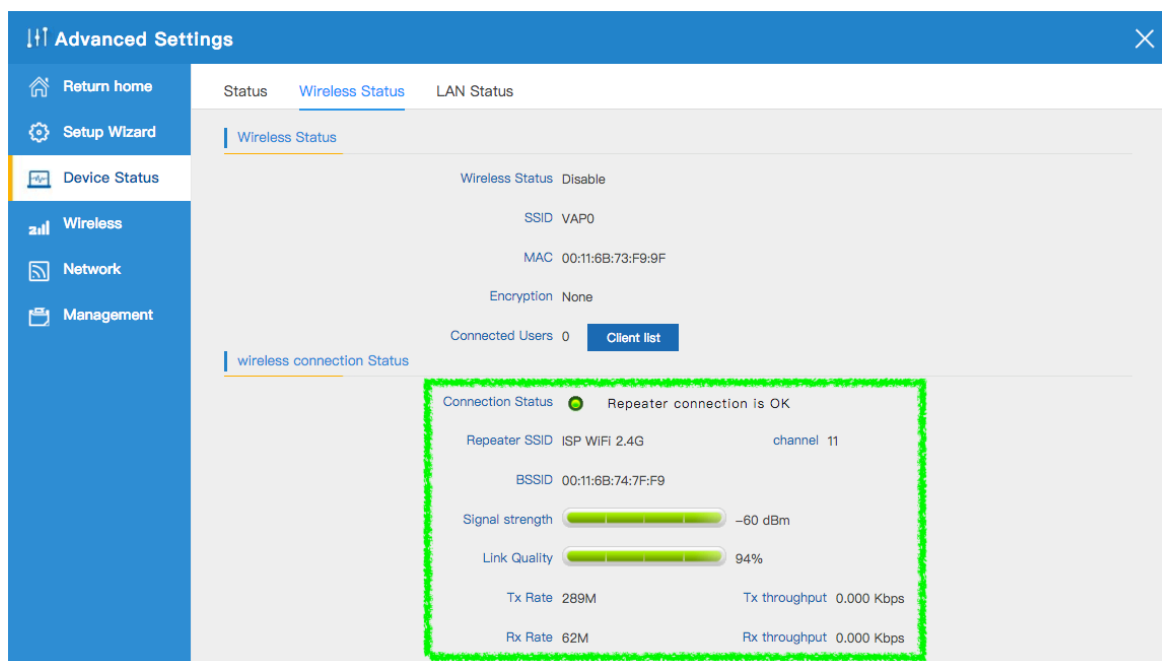




## 7. Click Status button



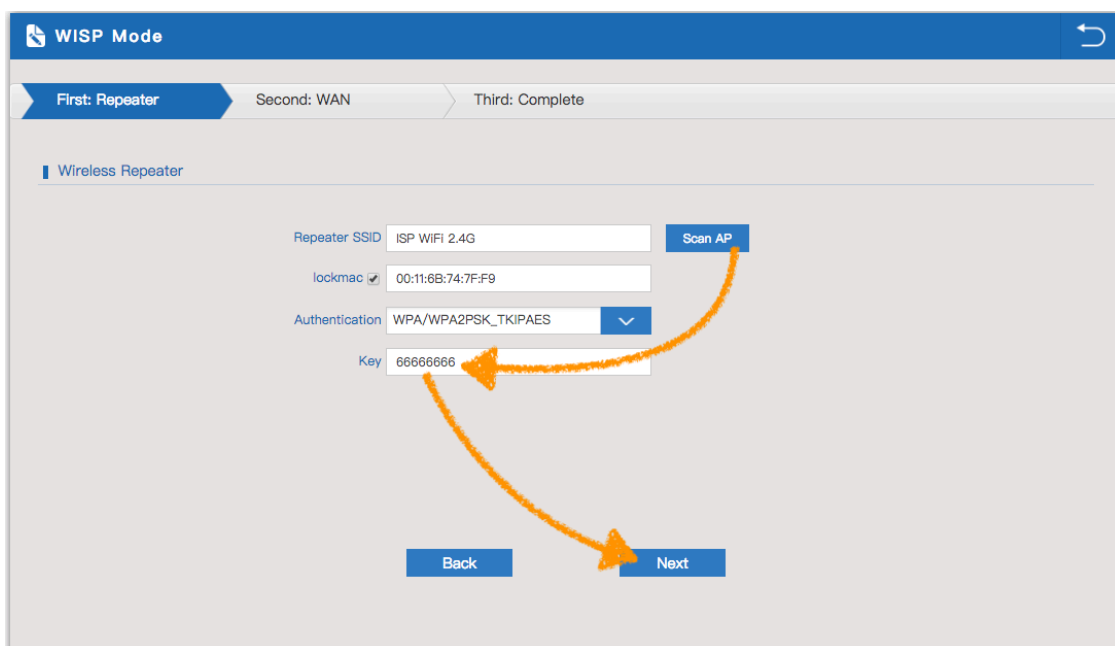
## 8. Check WIFI Repeater mode data



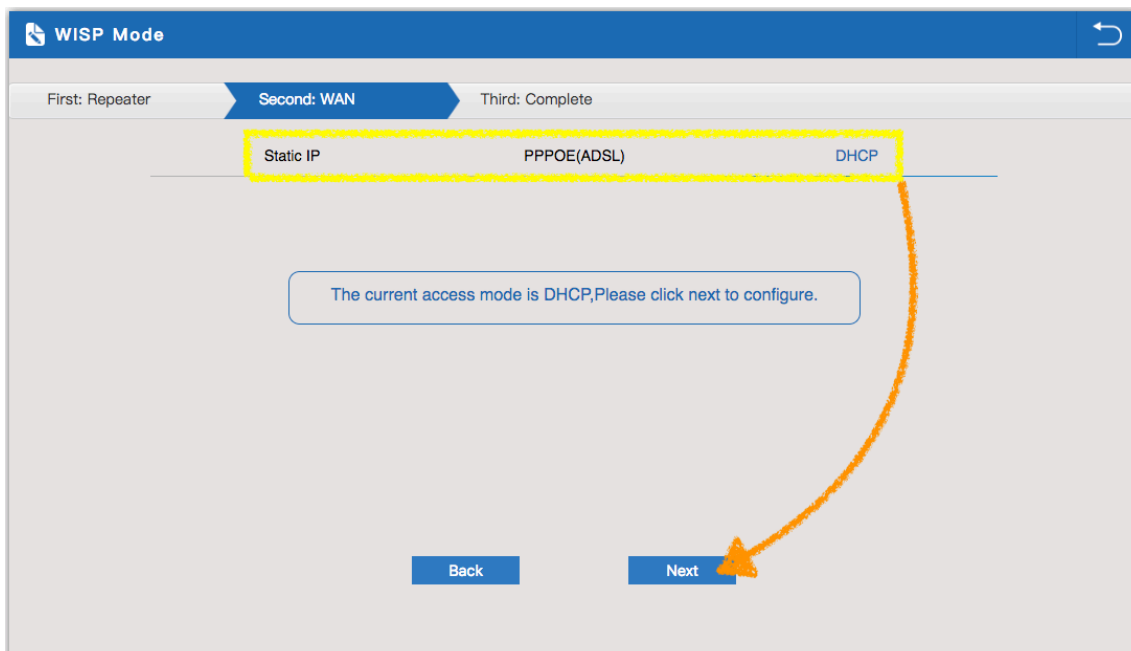
### 3.4 WISP Mode:



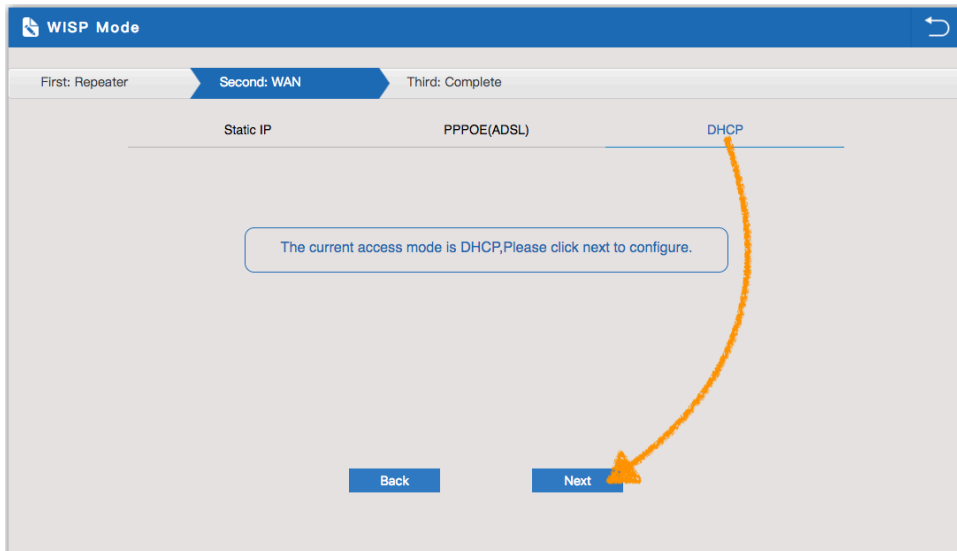
1. Select the AP's SSID want to bridge, take "wireless 2.4G" for example, then input the AP's key, click Scan AP. Enter the WIFI SSID password to be linked, When click Next



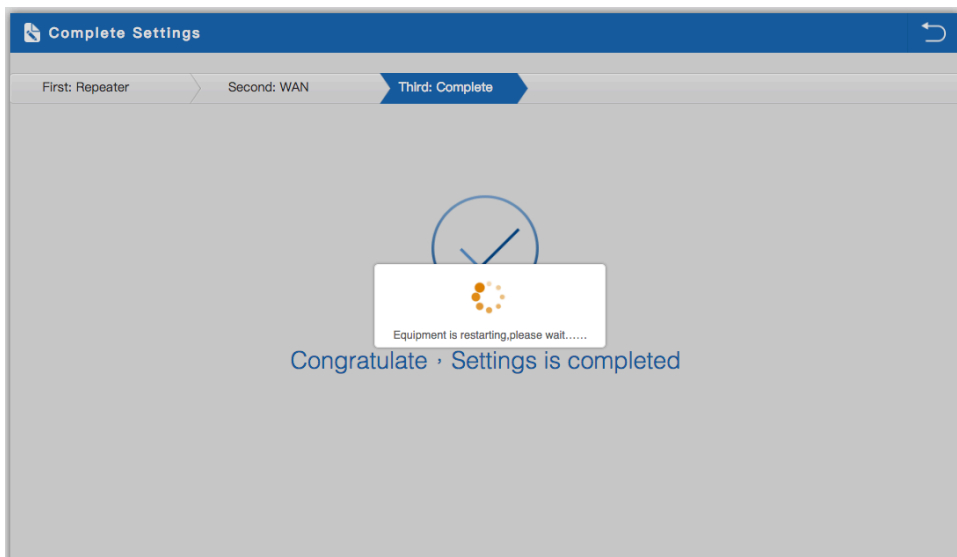
2. Before Click WISP Mode, confirm your ISP WIFI will be static IP, PPPoE, or DHCP: Then will pop up following picture after click it, Please choose the right WAN setting mode, then click next to continue.



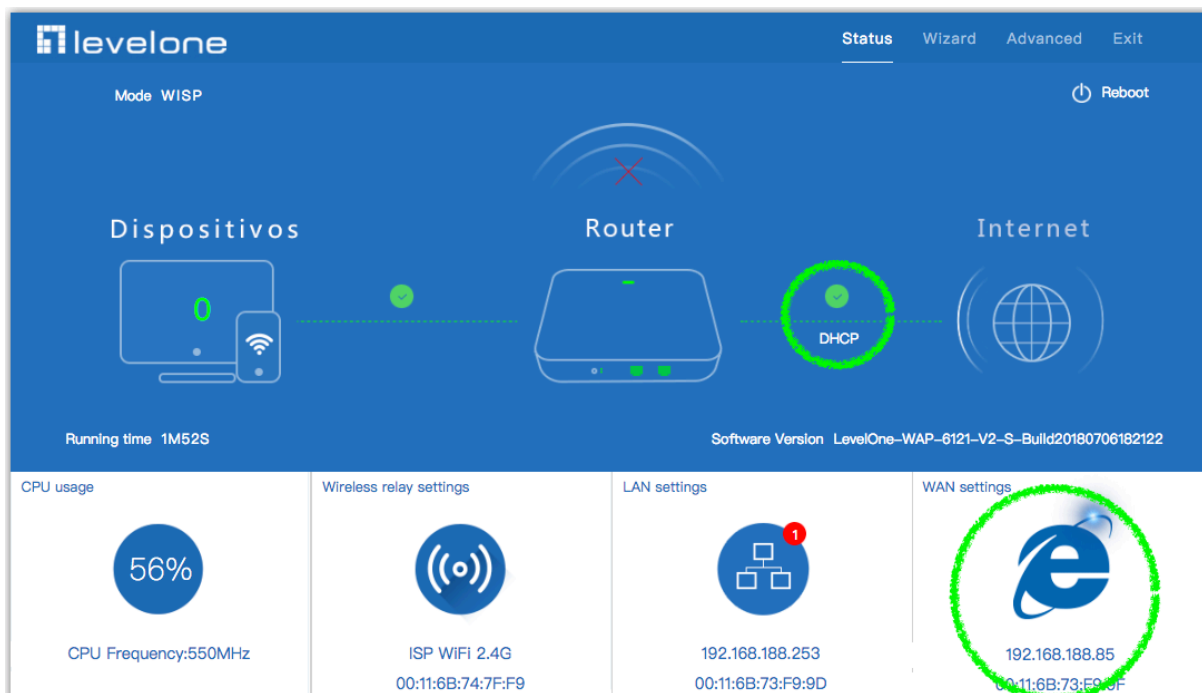
3. Take **DHCP** for example.



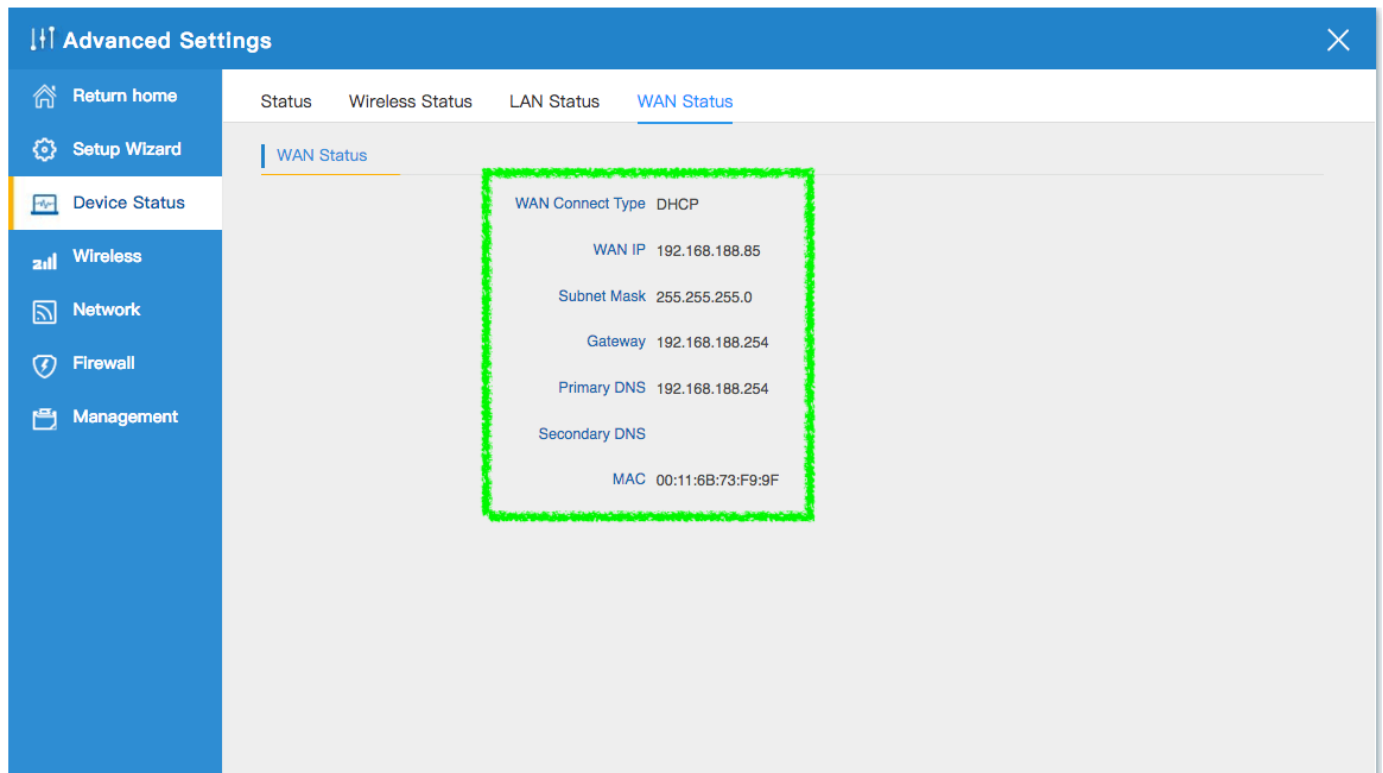
4. Click Return button, will back to Status, show WISP mode data, show fail or success



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 .



**Advanced Settings**

Return home Setup Wizard Device Status Wireless Network Firewall Management

Status Wireless Status LAN Status **WAN Status**

**WAN Status**

WAN Connect Type DHCP

WAN IP 192.168.188.85

Subnet Mask 255.255.255.0

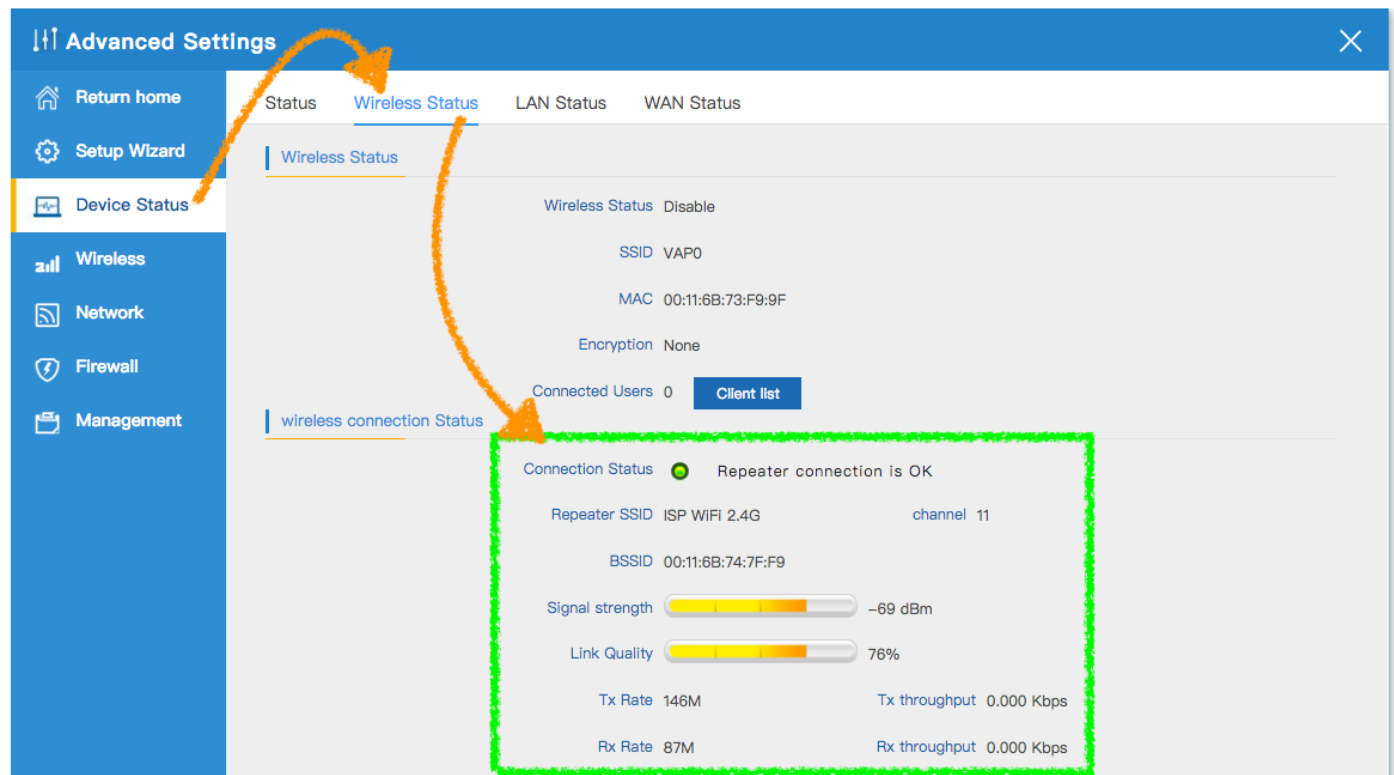
Gateway 192.168.188.254

Primary DNS 192.168.188.254

Secondary DNS

MAC 00:11:6B:73:F9:9F

8. Check WISP Mode Status data



**Advanced Settings**

Return home Setup Wizard Device Status Wireless Network Firewall Management

Status **Wireless Status** LAN Status WAN Status

**Wireless Status**

Wireless Status Disable

SSID VAP0

MAC 00:11:6B:73:F9:9F

Encryption None

Connected Users 0 **Client list**

**wireless connection Status**

Connection Status ● Repeater connection is OK

Repeater SSID ISP WIFI 2.4G channel 11

BSSID 00:11:6B:74:7F:F9

Signal strength  -69 dBm

Link Quality  76%

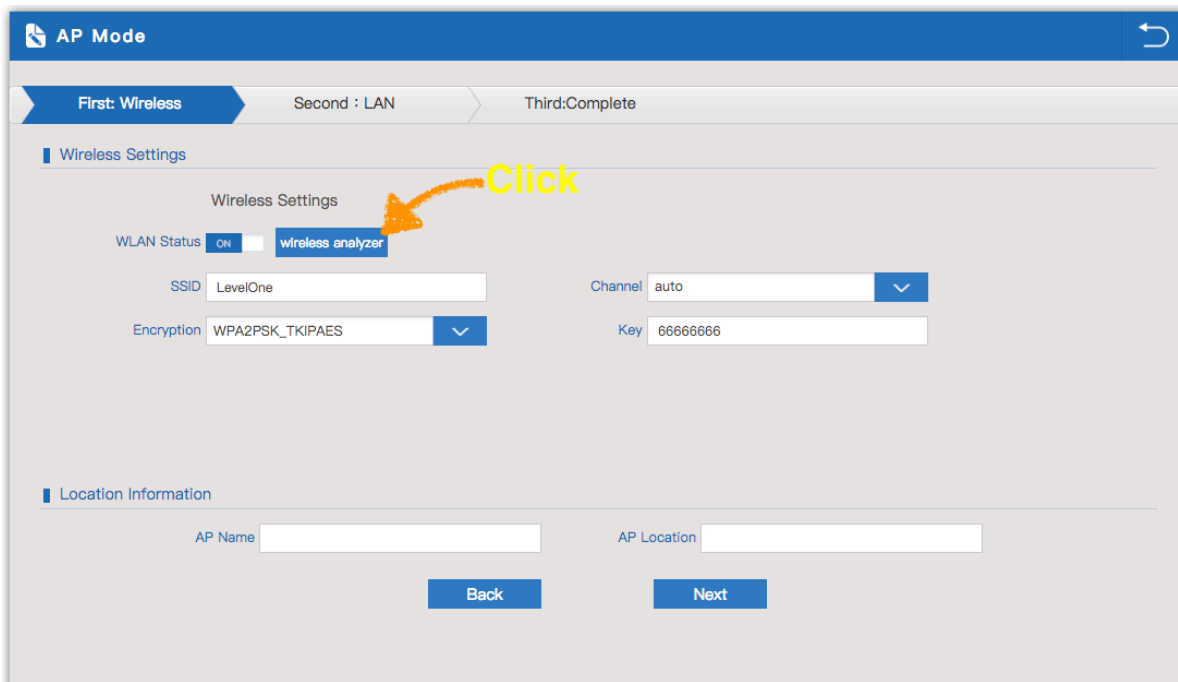
Tx Rate 146M Tx throughput 0.000 Kbps

Rx Rate 87M Rx throughput 0.000 Kbps

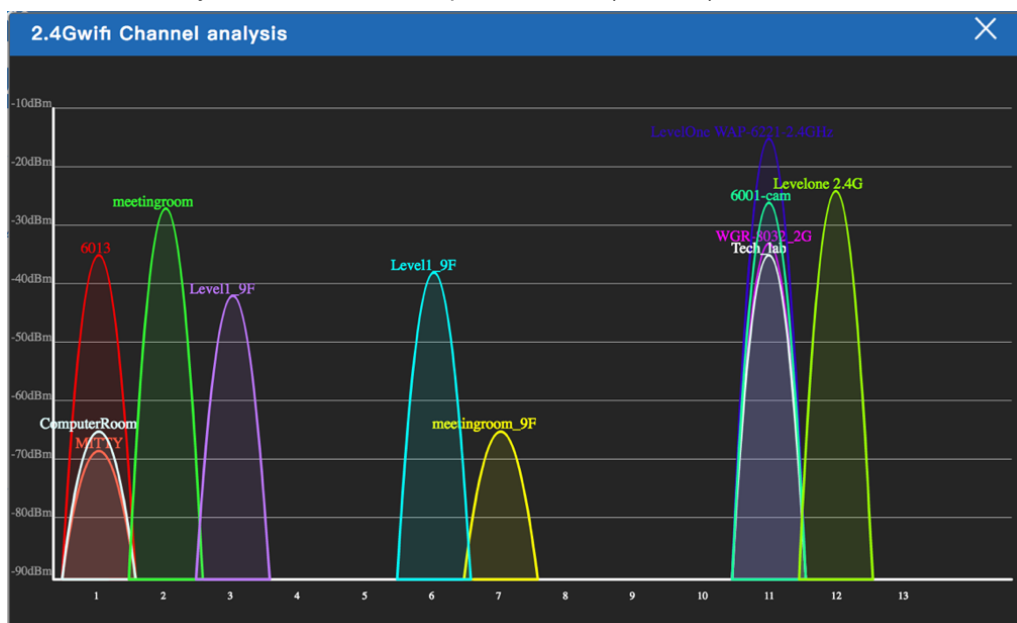
### 3.5 AP mode & Wireless analyzer :



1.To make the WAP-6121 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. 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 tabs: 'First: Wireless', 'Second : LAN', and 'Third:Complete'. The 'First: Wireless' tab is active. Below the tabs, there are two sections: 'Wireless Settings' and 'Location Information'. In the 'Wireless Settings' section, 'WLAN Status' is set to 'ON' with a 'wireless analyzer' button next to it. The 'SSID' is 'LevelOne', 'Channel' is 'auto', 'Encryption' is 'WPA2PSK\_TKIPAES', and 'Key' is '66666666'. In the 'Location Information' section, 'AP Name' is 'Business unit AP' and 'AP Location' is '7F'. There are 'Back' and 'Next' buttons at the bottom. Orange arrows indicate the flow from the 'Wireless Settings' section to the 'Location Information' section and then to the 'Next' button.

5.Set according to environmental requirements.

The screenshot shows the 'AP Mode' configuration interface with the 'Second : LAN' tab active. The 'LAN setting' section is visible, showing 'Access Type' with two options: 'Static IP' and 'DHCP from Controller'. The 'DHCP from Controller' option is selected, indicated by a checkmark. There are 'Back' and 'Next' buttons at the bottom. An orange arrow points from the 'DHCP from Controller' option to the 'Next' button.

## 6.Demo Static IP setting

**AP Mode**

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

LAN settings

Access Type: Static IP

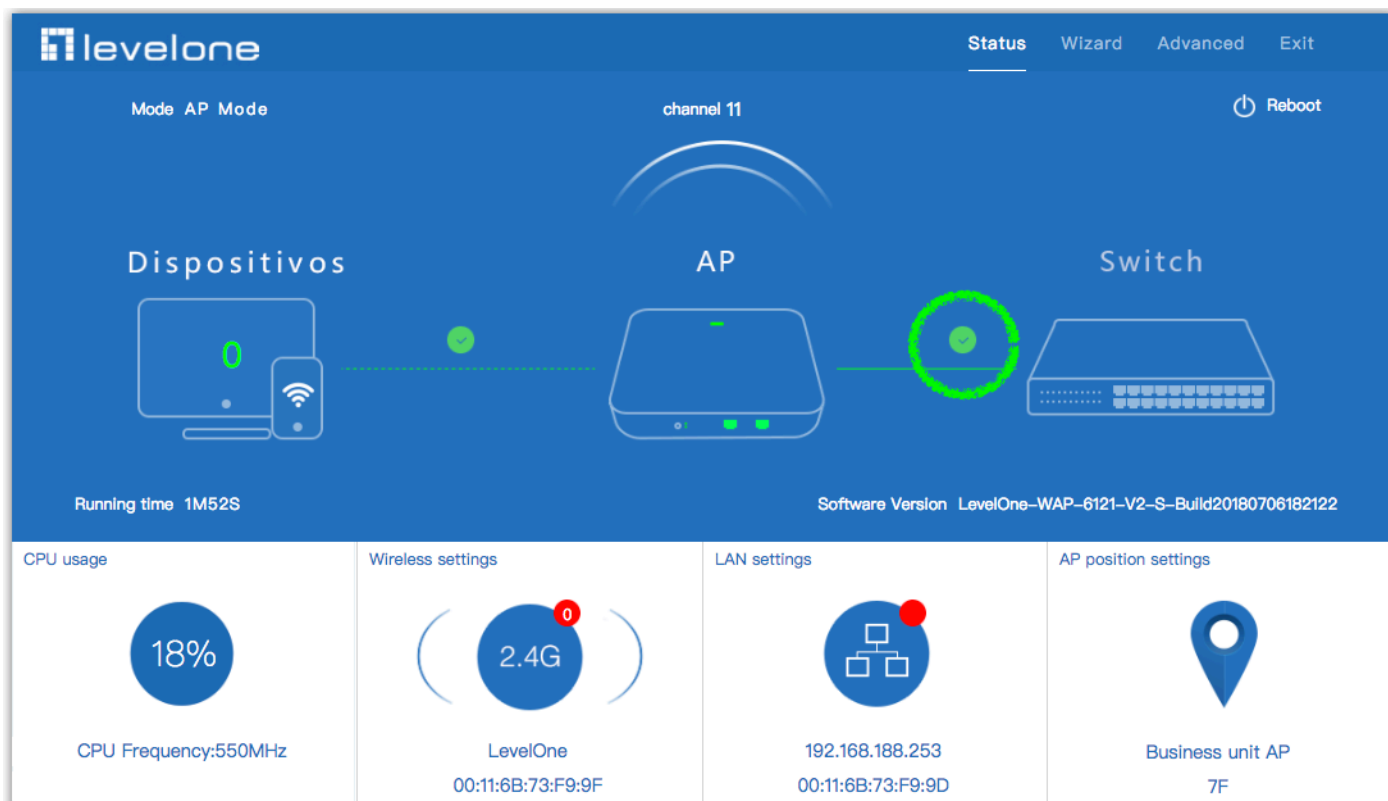
IP: 192.168.188.253

Subnet Mask: 255.255.255.0

Manage server IP: 192.168.188.254

Back   Next

## 7. Check AP Mode Status show fail or success.

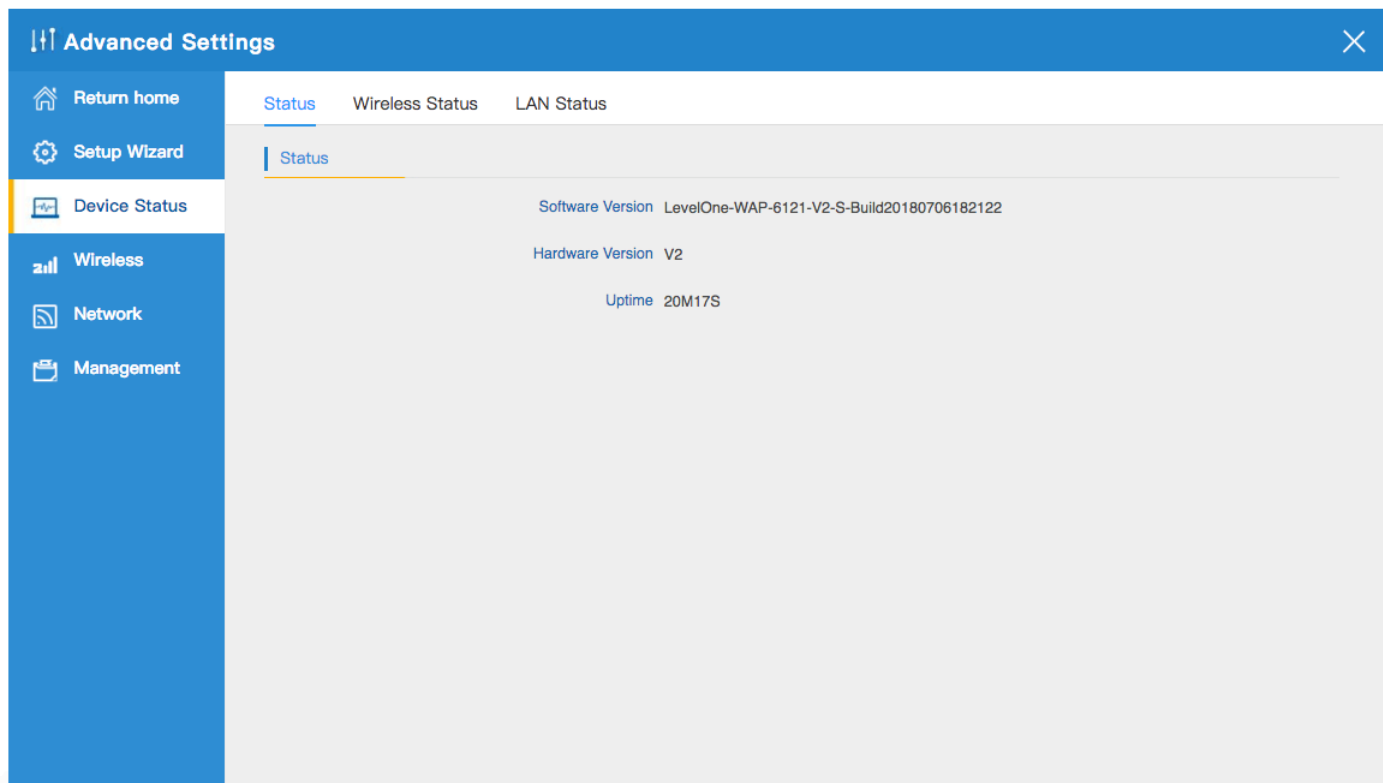


# Chapter 4 Advanced Setting

## 4.1 Device Status

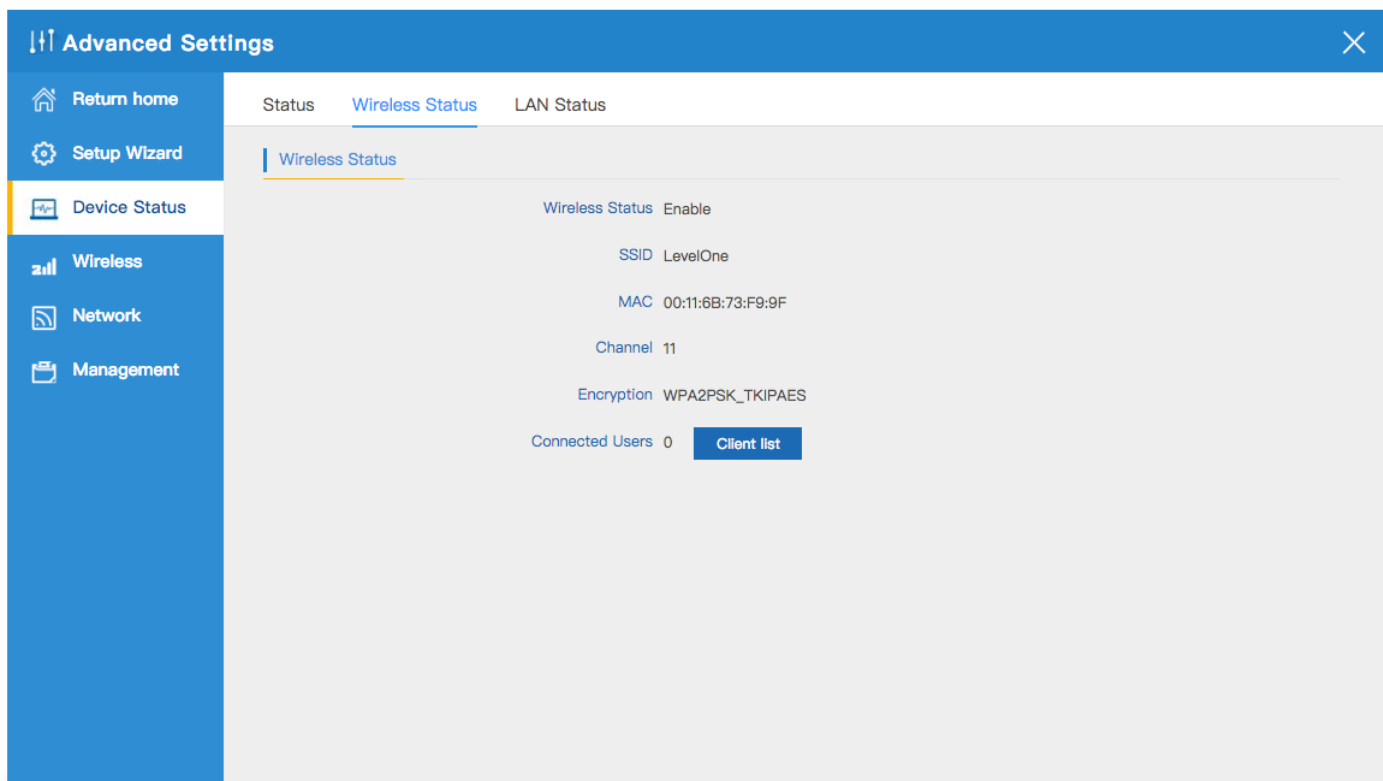
### 4.1.1 Status:

- 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 LAN Status:

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

The screenshot shows the 'Advanced Settings' window with the 'LAN Status' tab selected. The left sidebar contains navigation options: Return home, Setup Wizard, Device Status, Wireless, Network, and Management. The main content area displays the following information:

Parameter	Value
LAN IP	192.168.188.253
Subnet Mask	255.255.255.0
MAC	00:11:6B:73:F9:9D
Manage server IP	192.168.188.254
DHCP Status	Disable
DHCP address range	192.168.188.1 — 192.168.188.200
Assigned IP	0

There is a 'DHCP list' button located below the Assigned IP field.

## 4.2 Wireless

### 4.2.1 Basic Settings :

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

The screenshot shows the 'Advanced Settings' window with the 'Wireless Basic Settings' tab selected. The left sidebar contains navigation options: Return home, Setup Wizard, Device Status, Wireless, Network, and Management. The main content area displays the following configuration options:

Section	Parameter	Value
Wireless Basic Settings	Wireless Status	ON
	SSID	LevelOne
	Broadcast SSID	Enable
	WMM	Enable
Channel	Band Width	40MHz
	Channel	* 2.462 GHz (Channel 11)
Authentication	Encryption	WPA2PSK_TKIPAES
	Key	66666666

An 'Apply' button is located at the bottom of the configuration area.

## 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:

**Advanced Settings**

Basic Settings **Virtual AP** Access Control Advanced Settings

Virtual AP

Virtual AP1 Virtual AP2 Virtual AP3

Wireless Status ☐ OFF

SSID VAP0

Broadcast SSID ☐ Disable ☒ Enable

WMM ☐ Disable ☒ Enable

Encryption none

Apply

## 4.2.3 2.4G Access Control :

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

**Advanced Settings**

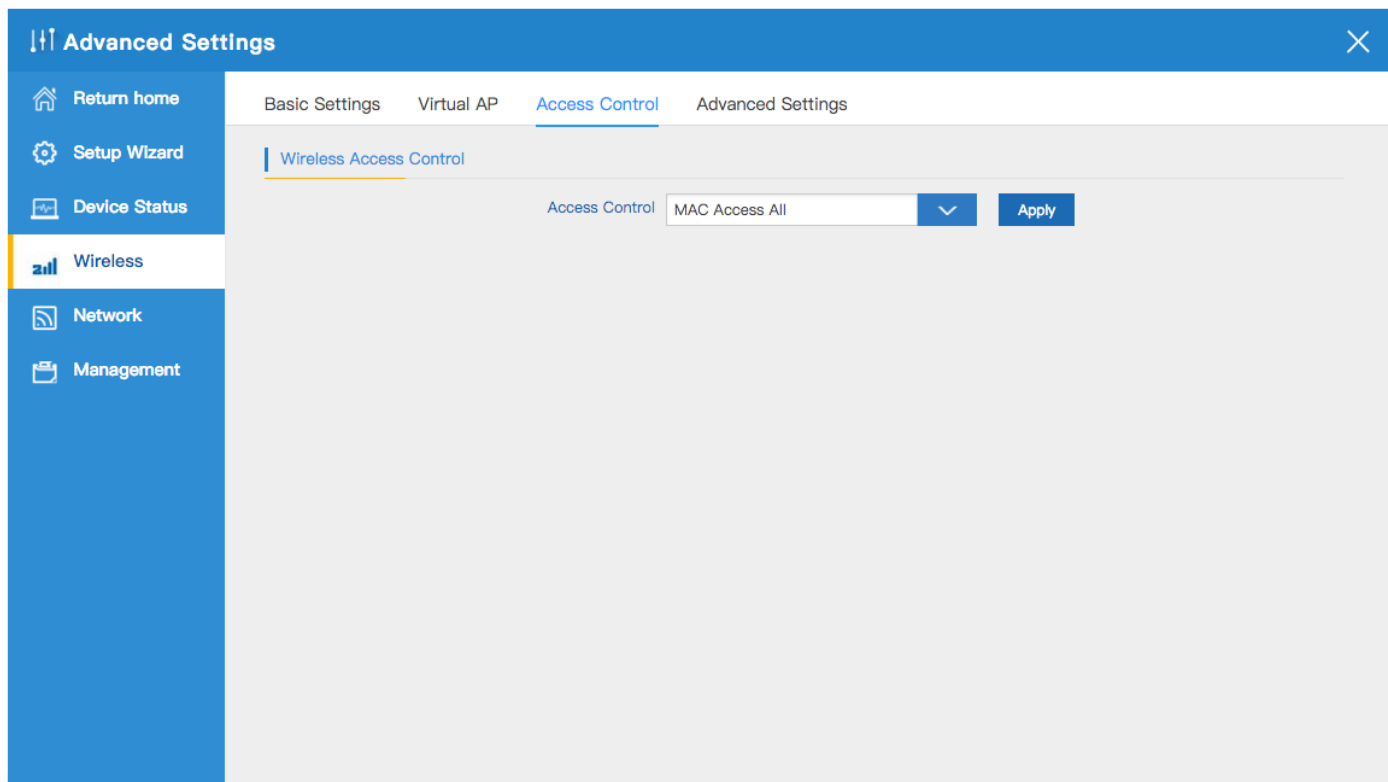
Basic Settings Virtual AP **Access Control** Advanced Settings

Wireless Access Control

Access Control ☒ MAC Access All  
☐ Allow Listed  
☐ Deny Listed

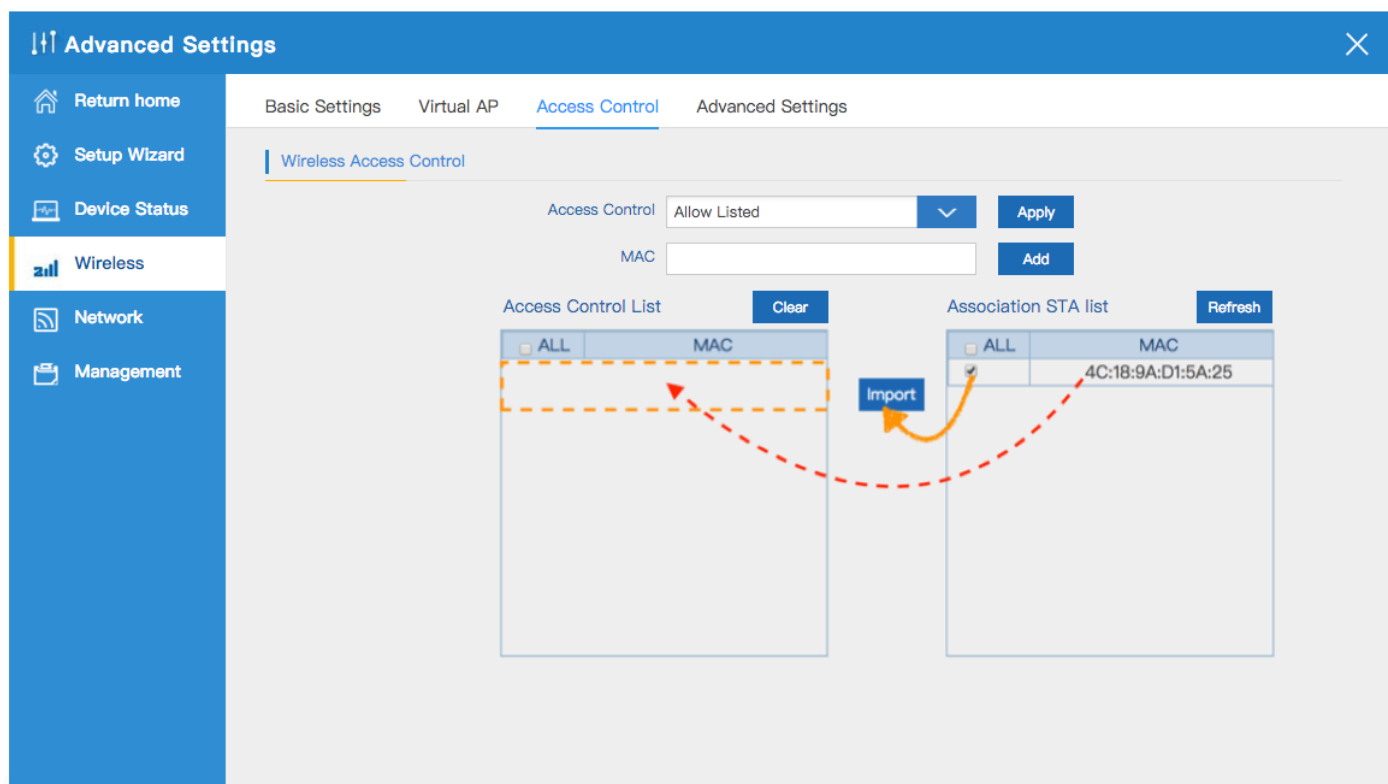
Apply

2. Allow all the users access into this wireless AP

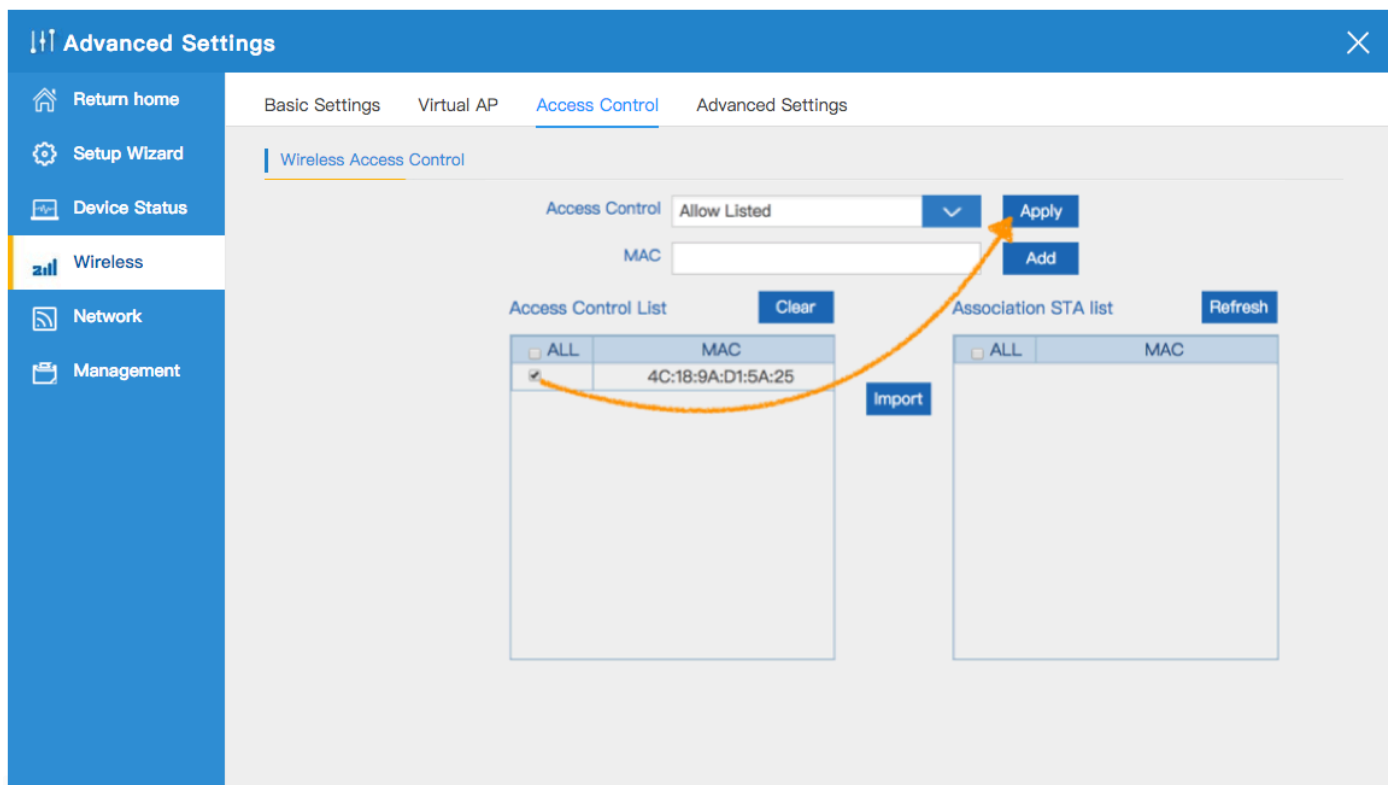


3. Only users who have joined the MAC address list can access the wireless AP.

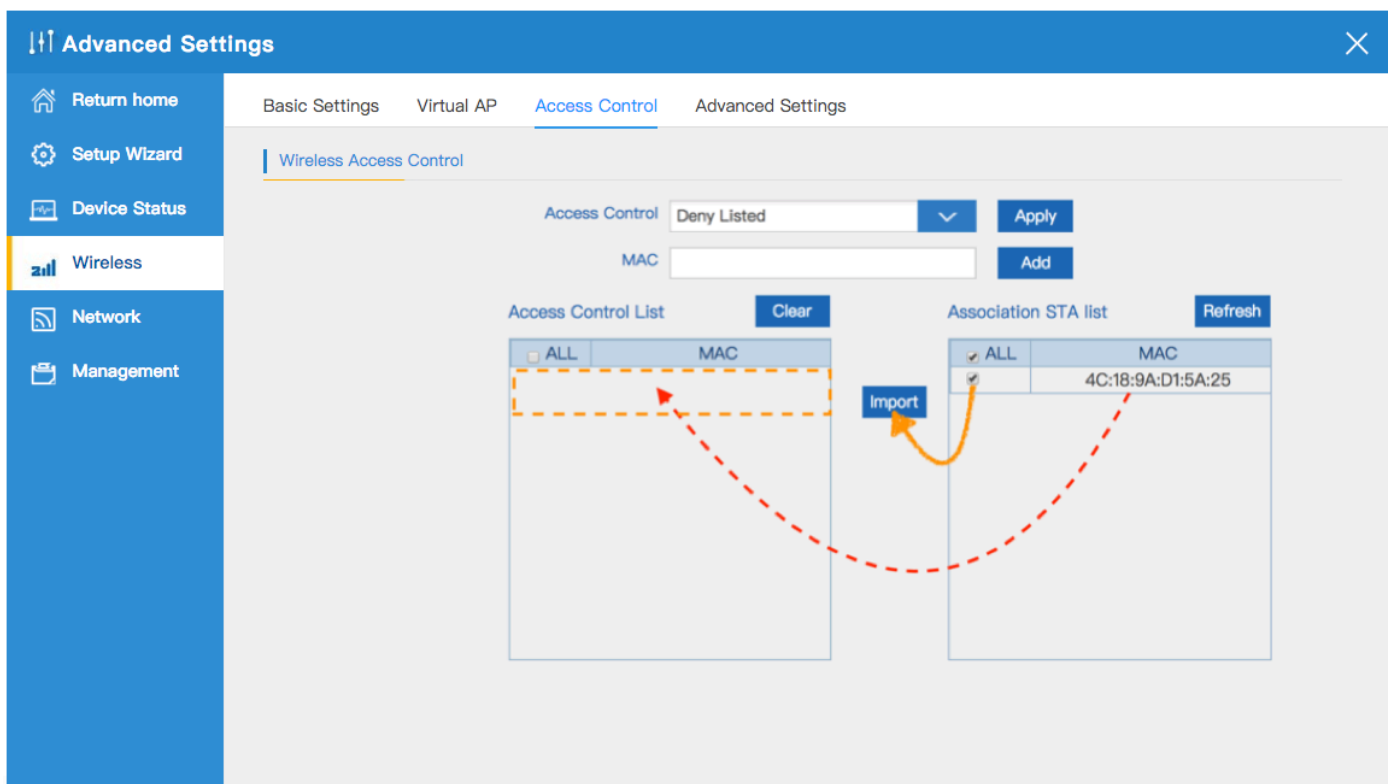
The following is a demonstration of teaching . Add the user MAC address in the list to the access control list



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

**Advanced Settings**

Basic Settings Virtual AP **Access Control** Advanced Settings

**Wireless Access Control**

Access Control: Deny Listed

MAC:

Access Control List

ALL	MAC
<input checked="" type="checkbox"/>	4C:18:9A:D1:5A:25

Association STA list

ALL	MAC
-----	-----

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

**Advanced Settings**

Basic Settings Virtual AP Access Control **Advanced Settings**

**Advanced Settings**

Regional: ETSI

MODE: 802.11N/G

RF Output Power: 50%

Packet Threshold: 2346 (256-2346)

RTS Threshold: 2346 (0-2347)

Ack Timeout control: 64 (0-255)us

Beacon interval: 100 (100-1024)ms

MAX User: 64 (Range 0-64 0 not limited)

Coverage Threshold: -90 (-95dBm~-65dBm)

Aggregation: ☒ ON Short GI: ☒ ON User isolation: ☐ OFF

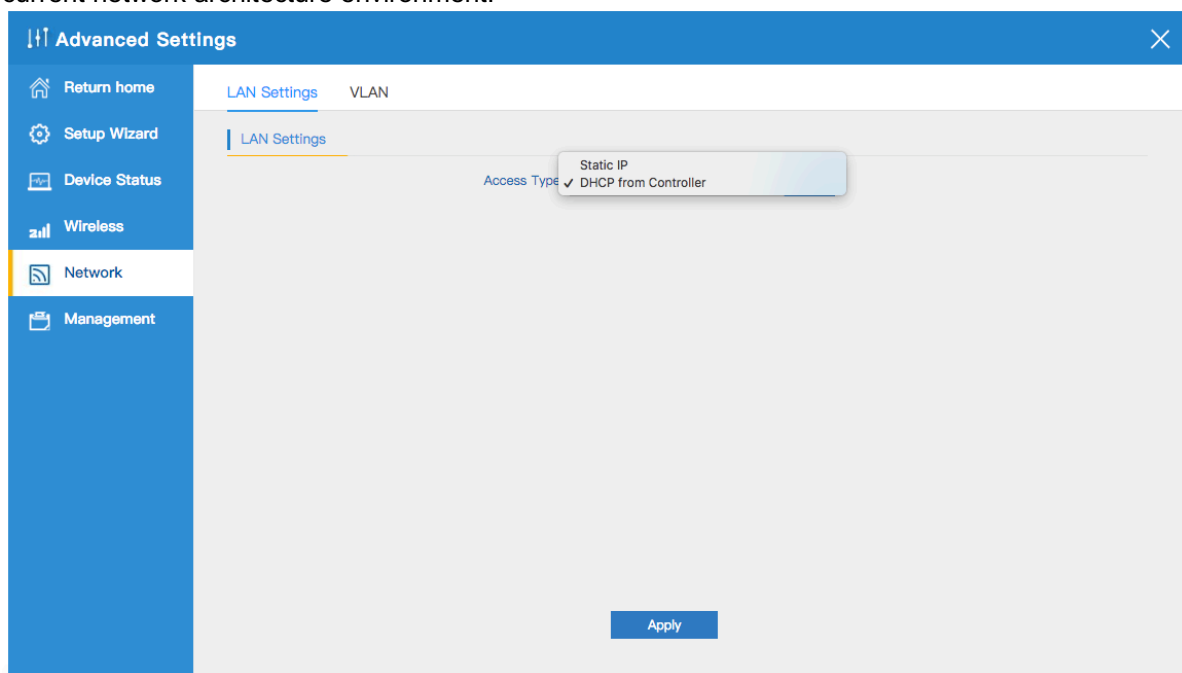
## Enable the status of Repeater Mode or AP Mode



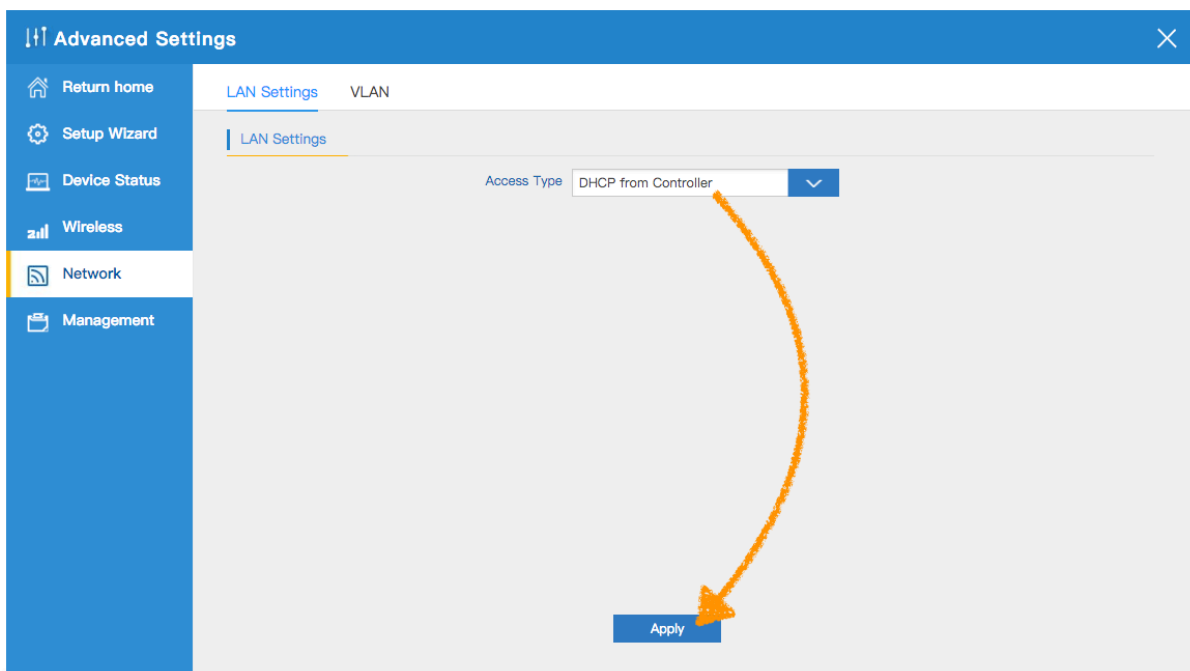
## 4.3 Network

### 4.4.1 LAN Settings:

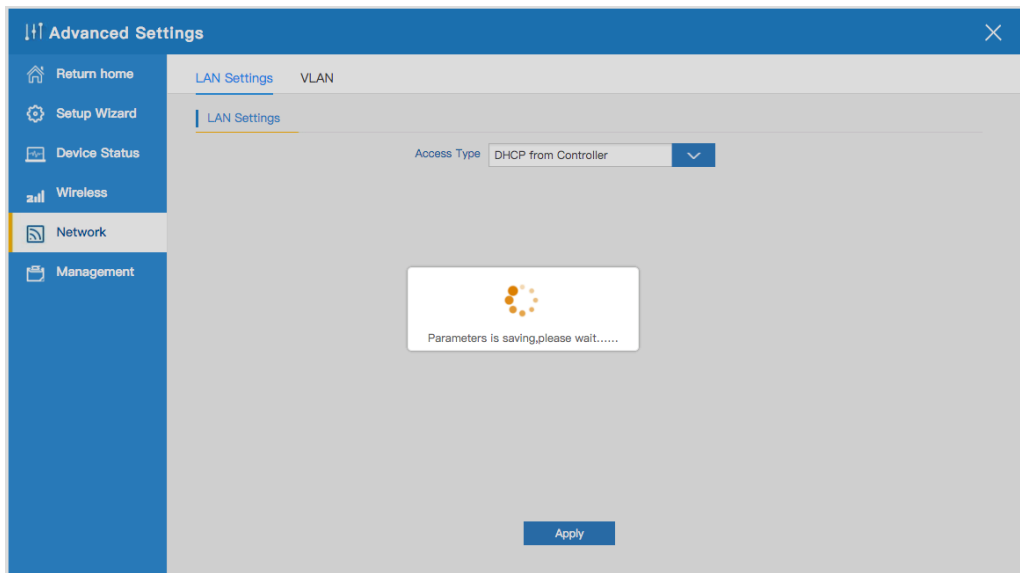
1. Can choose two kinds of usage modes (Static IP, DHCP for Controller) which can be selected according to the current network architecture environment.



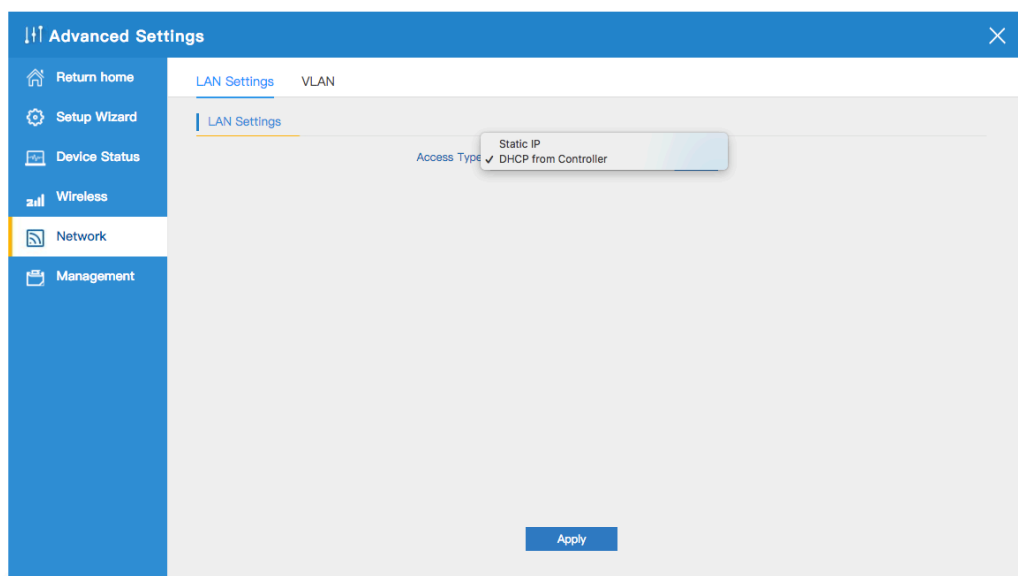
2. Use DHCP for Controller mode, please confirm that the current network architecture has IP address allocation.



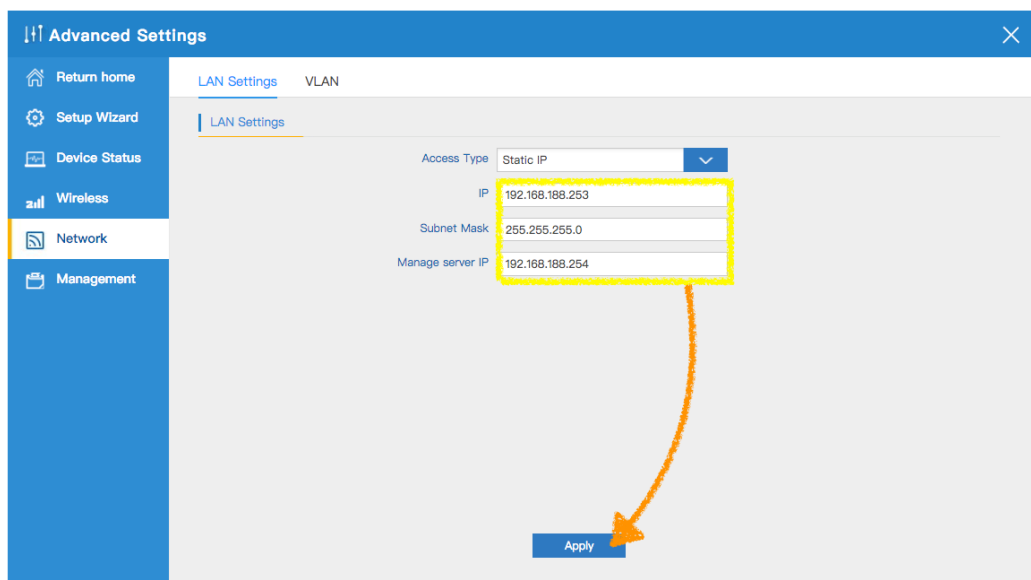
3. Click Apply, Wait for DHCP Controller Mode is Enable, please wait about 20~30 seconds.



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.

**Advanced Settings**

Return home Setup Wizard Device Status Wireless **Network** Management

LAN Settings VLAN

LAN Settings

Access Type: Static IP

IP: 192.168.188.253

Subnet Mask: 255.255.255.0

Manage server IP: 192.168.188.254

Parameters is saving, please wait.....

Apply

#### 4.4.2 VLAN :

- Please confirm before you can use ,Need support IEEE 802.1Q and VLAN Tagging Managed Switch, Specify WiFi SSID for WAP-6121 , corresponding to the VLAN-ID (3-4094).

**Advanced Settings**

Return home Setup Wizard Device Status Wireless **Network** Management

LAN Settings **VLAN**

VLAN

VLAN-ID(3-4094)	AP	VAP1	VAP2	VAP3
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

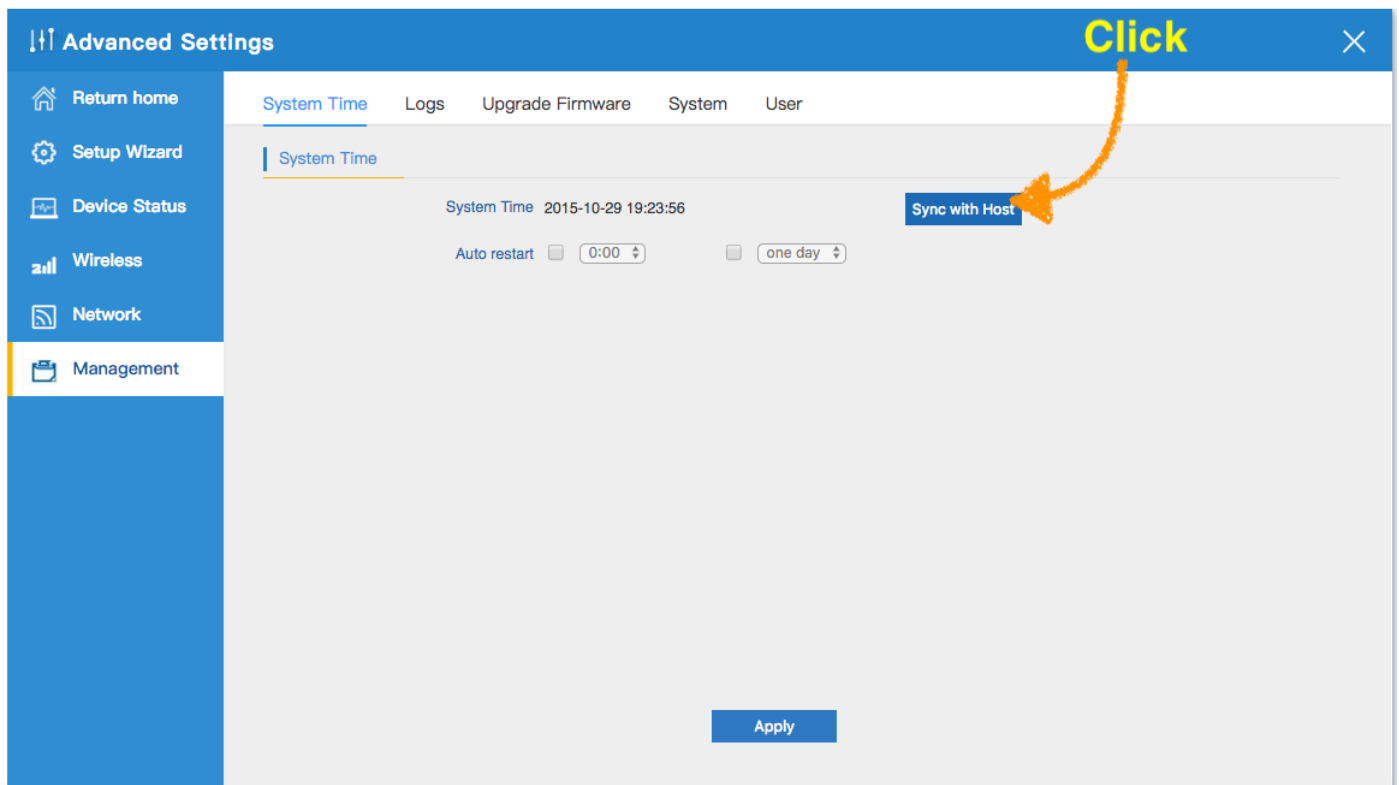
Apply



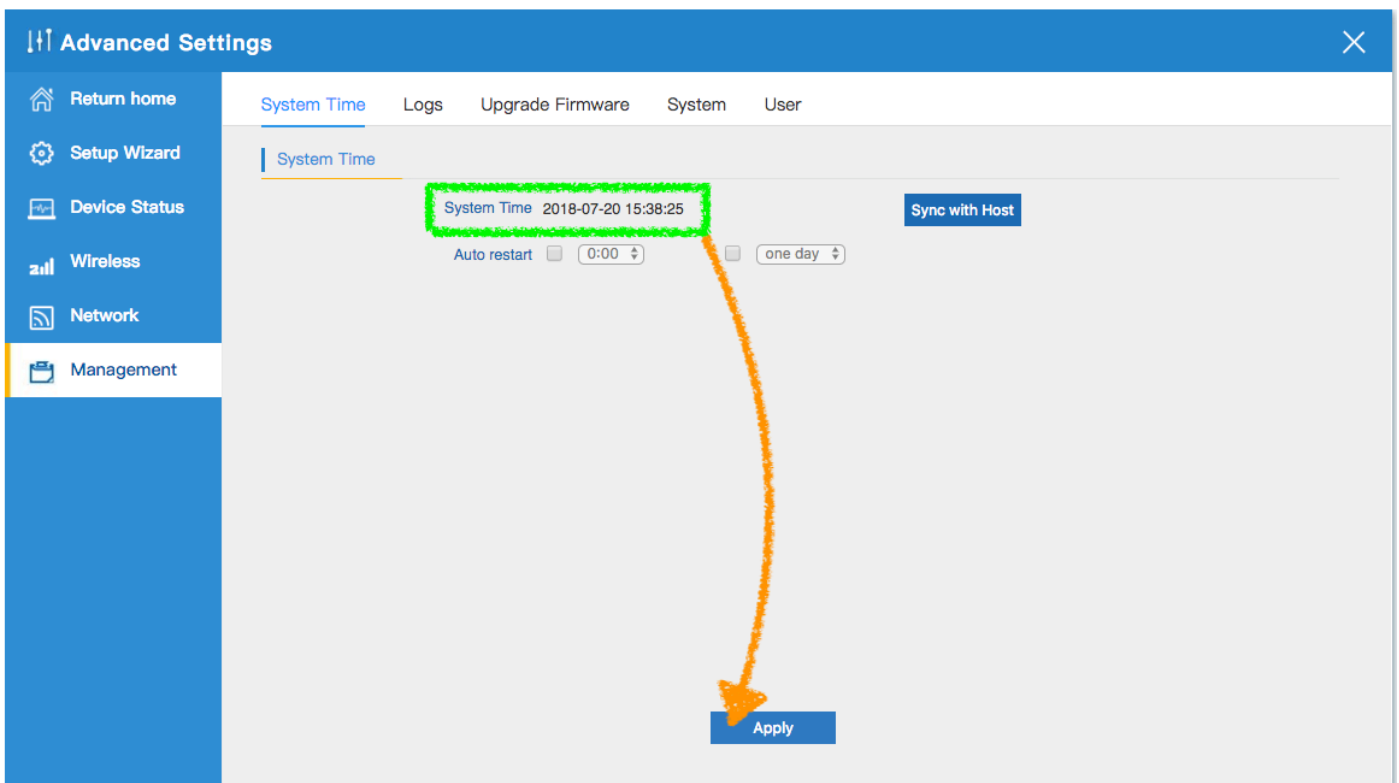
## 4.5 Management

### 4.5.1 System Time :

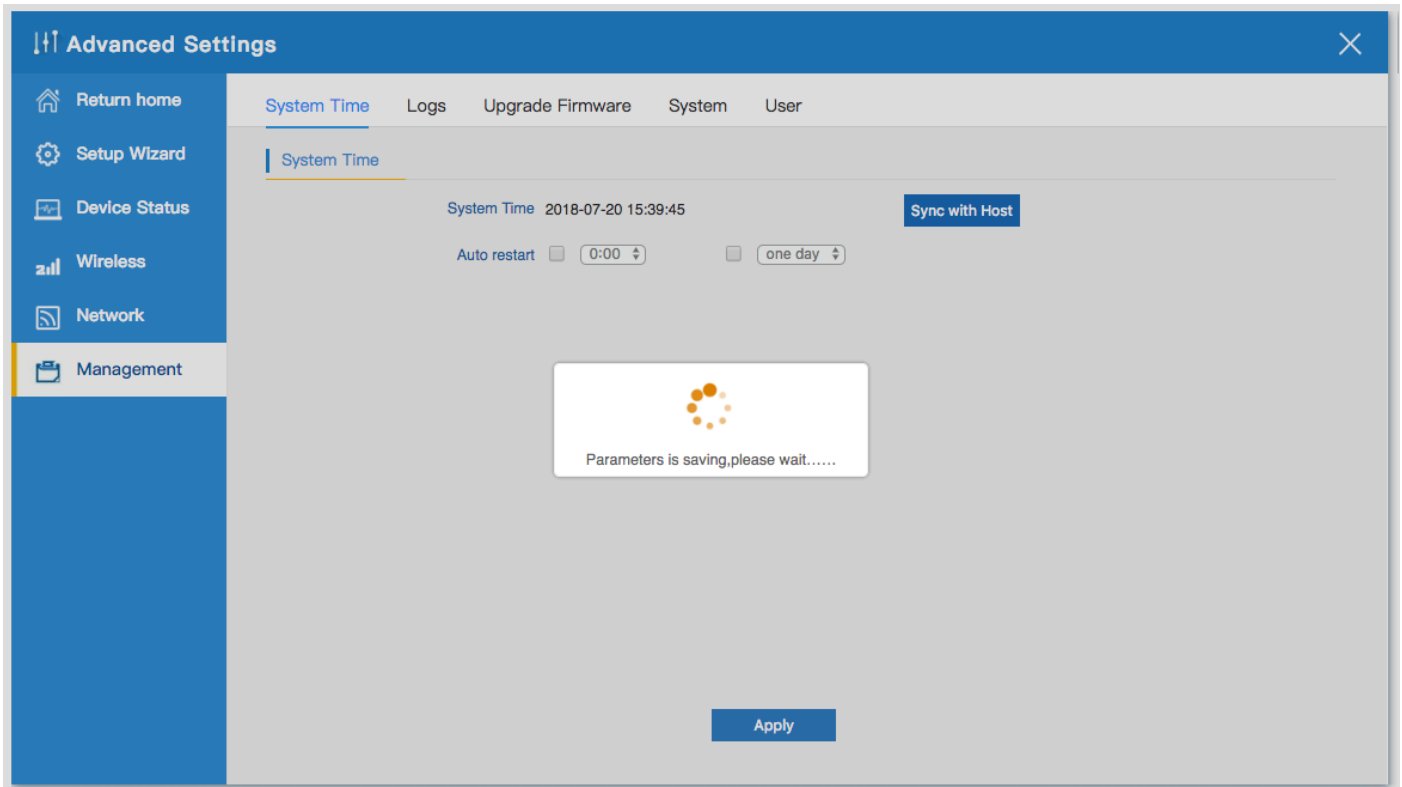
1. Click on Sync with Host to automatically update to the current Time.



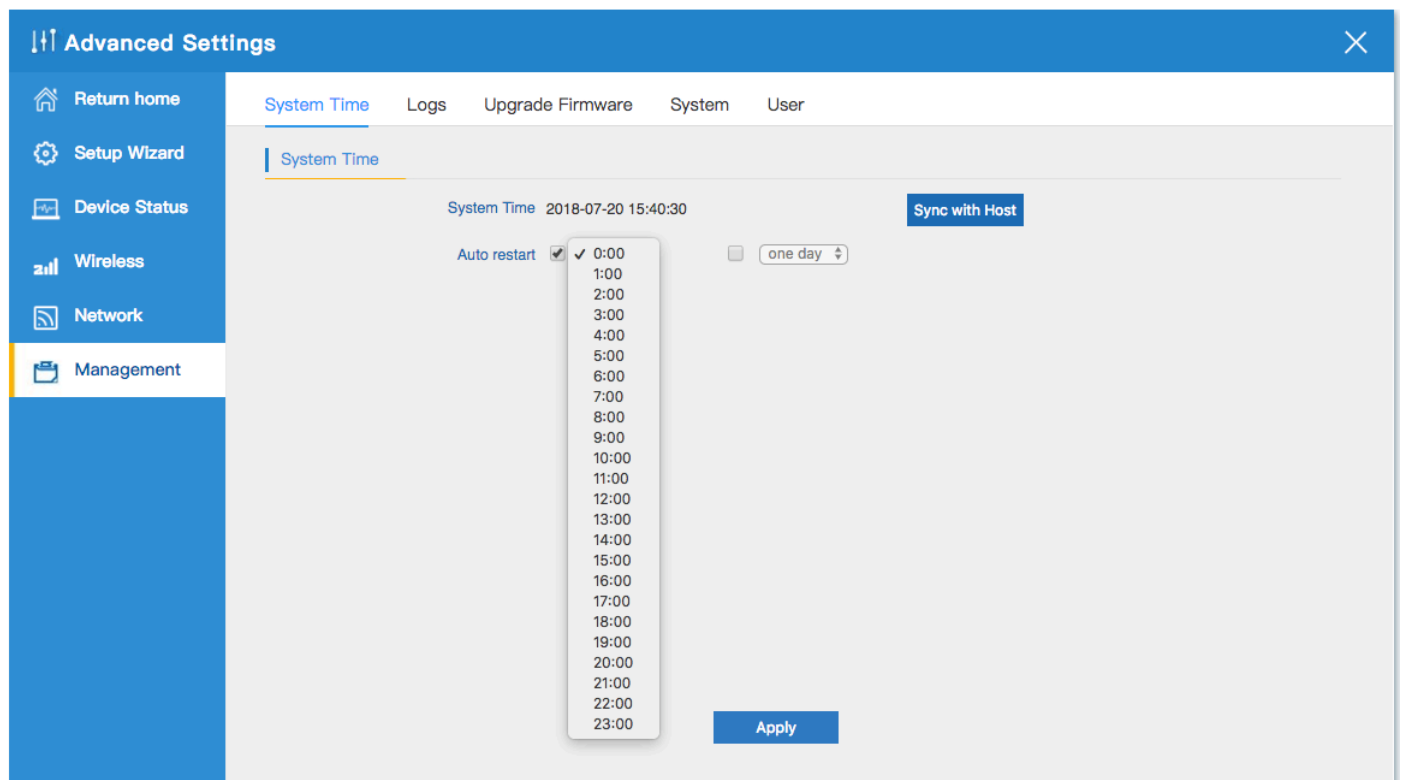
2. Confirm that System Time is correctly refreshed to the current time, Click Apply



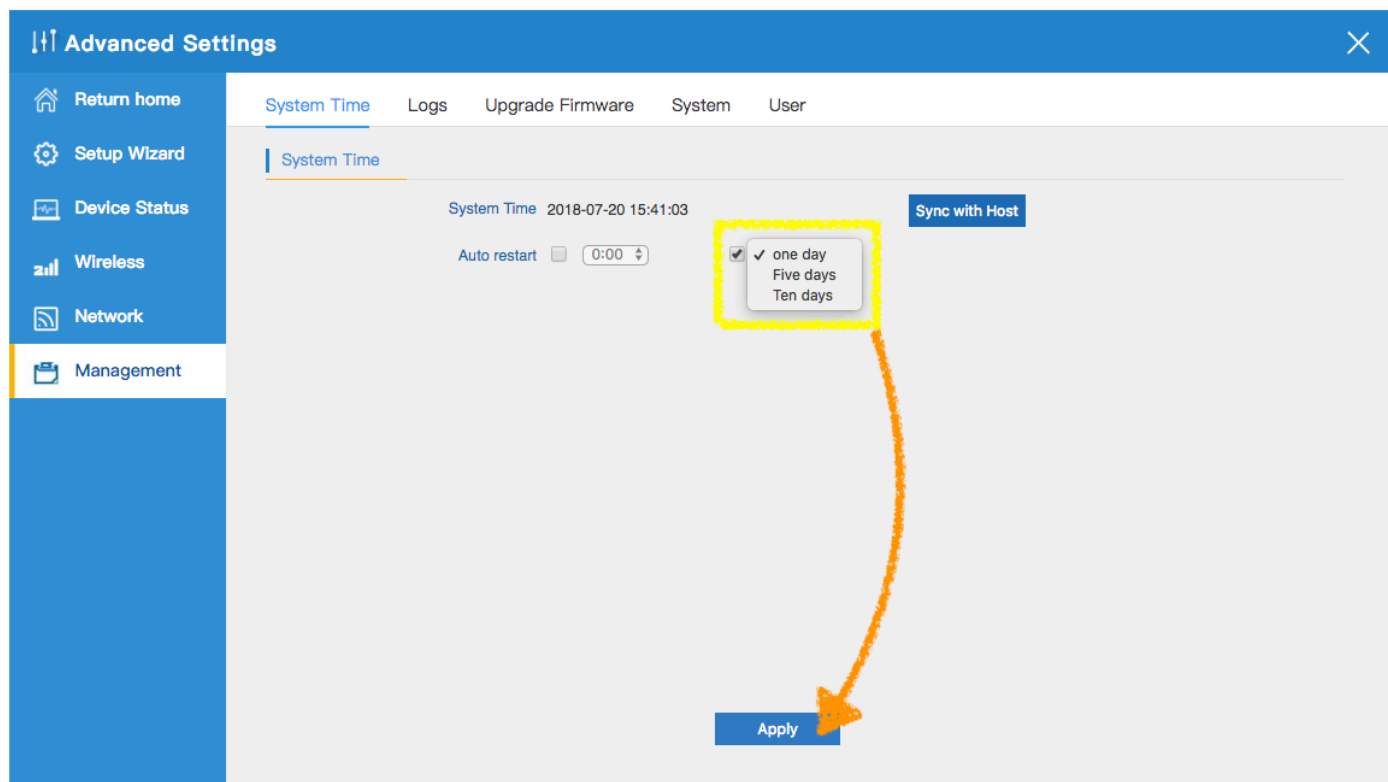
3. Enable System for update to the current Time, please wait about 30~50 seconds.



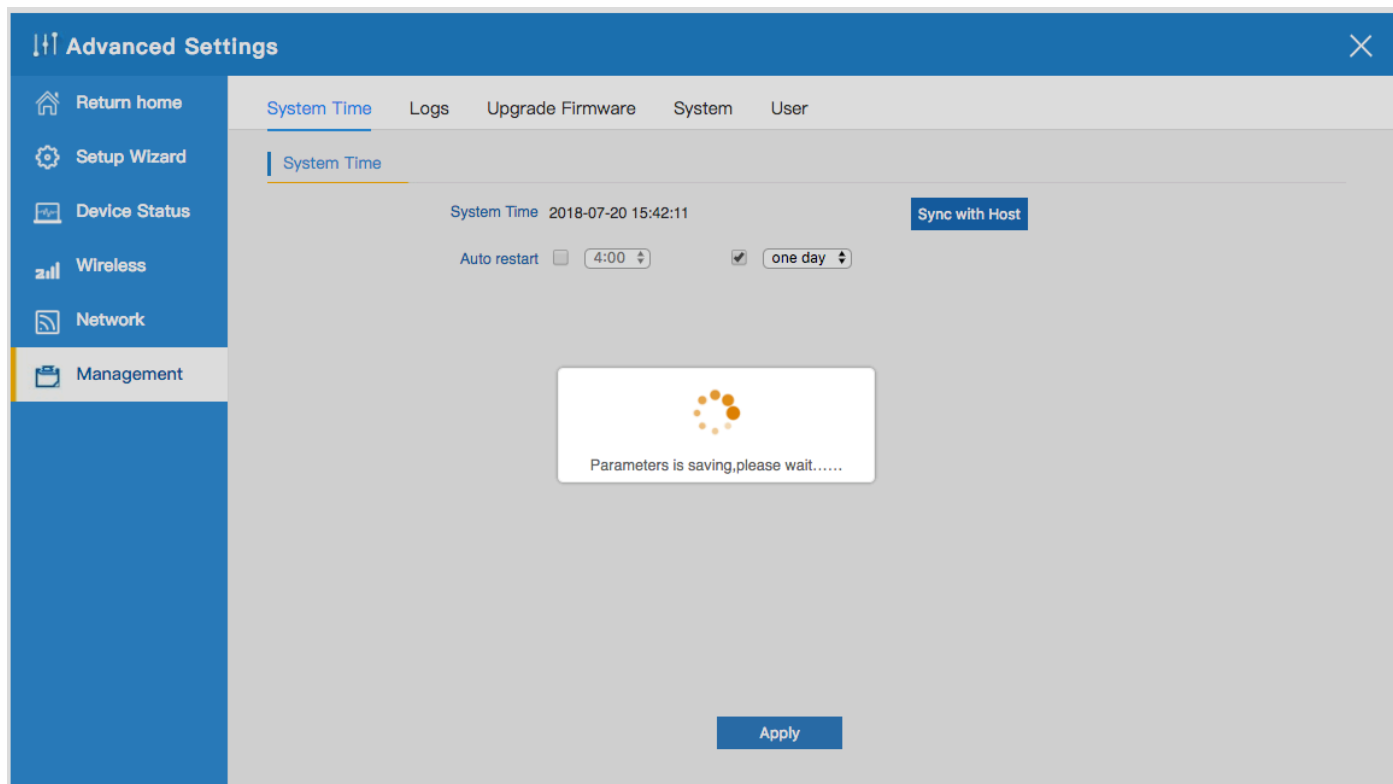
4. Define the system reboot time(0:00~23:00)



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.



## 4.5.2 Logs :

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

**Advanced Settings**

System Time **Logs** Upgrade Firmware System User

System Logs

☐ Remote Log Server

IP  **Apply**

Jul 20 15:39:50 WAP-6121 daemon.notice netifd: Interface &apos;lan&apos; is now up  
Jul 20 15:39:51 WAP-6121 kern.info kernel: [ 2998.660000] ADDRCONF(NETDEV\_UP): eth1: link is not ready  
Jul 20 15:39:51 WAP-6121 kern.info kernel: [ 2998.660000] device eth1 entered promiscuous mode  
Jul 20 15:39:51 WAP-6121 daemon.notice netifd: Interface &apos;loopback&apos; is now up  
Jul 20 15:39:51 WAP-6121 user.notice ifup: Enabling Router Solicitations on lan (br-lan)  
Jul 20 15:39:51 WAP-6121 kern.info kernel: [ 2999.230000] eth0: link up (100Mbps/Full duplex)  
Jul 20 15:39:51 WAP-6121 kern.info kernel: [ 2999.230000] br-lan: port 1(eth0) entered forwarding state  
Jul 20 15:39:51 WAP-6121 kern.info kernel: [ 2999.240000] br-lan: port 1(eth0) entered forwarding state  
Jul 20 15:39:51 WAP-6121 kern.info kernel: [ 2999.240000] ADDRCONF(NETDEV\_CHANGE): eth0: link becomes ready  
Jul 20 15:39:51 WAP-6121 kern.info kernel: [ 2999.260000] ADDRCONF(NETDEV\_CHANGE): br-lan: link becomes ready  
Jul 20 15:39:51 WAP-6121 kern.info kernel: [ 2999.260000] eth1: link up (1000Mbps/Full duplex)  
Jul 20 15:39:51 WAP-6121 kern.info kernel: [ 2999.270000] br-lan: port 2(eth1) entered forwarding state  
Jul 20 15:39:51 WAP-6121 kern.info kernel: [ 2999.280000] br-lan: port 2(eth1) entered forwarding state  
Jul 20 15:39:51 WAP-6121 kern.info kernel: [ 2999.280000] ADDRCONF(NETDEV\_CHANGE): eth1: link becomes ready  
Jul 20 15:39:52 WAP-6121 user.info firewall: adding lan (br-lan) to zone lan  
Jul 20 15:39:53 WAP-6121 user.notice ifup: Enabling Router Solicitations on loopback (lo)  
Jul 20 15:39:53 WAP-6121 kern.info kernel: [ 3001.240000] br-lan: port 1(eth0) entered forwarding state

**Refresh** **Clear**

## 4.5.3 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.)

**Advanced Settings**

System Time Logs **Upgrade Firmware** System User

Upgrade Firmware

Software Version LevelOne-WAP-6121-V2-S-Build20180706182122

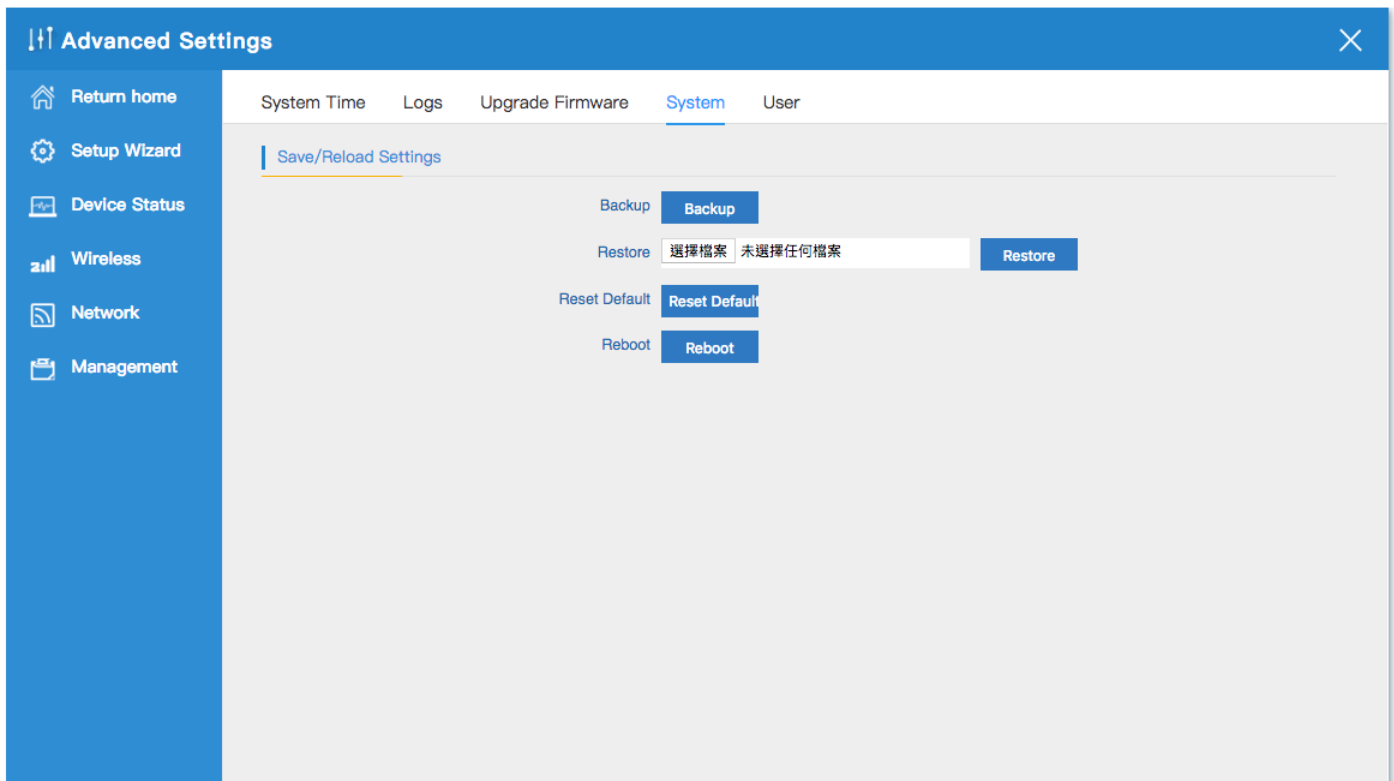
Choose File  **Upgrade**

☐ Restore factory settings

**Note** do not power off the device during the upload because it may crash the system!

#### 4.5.4 System :

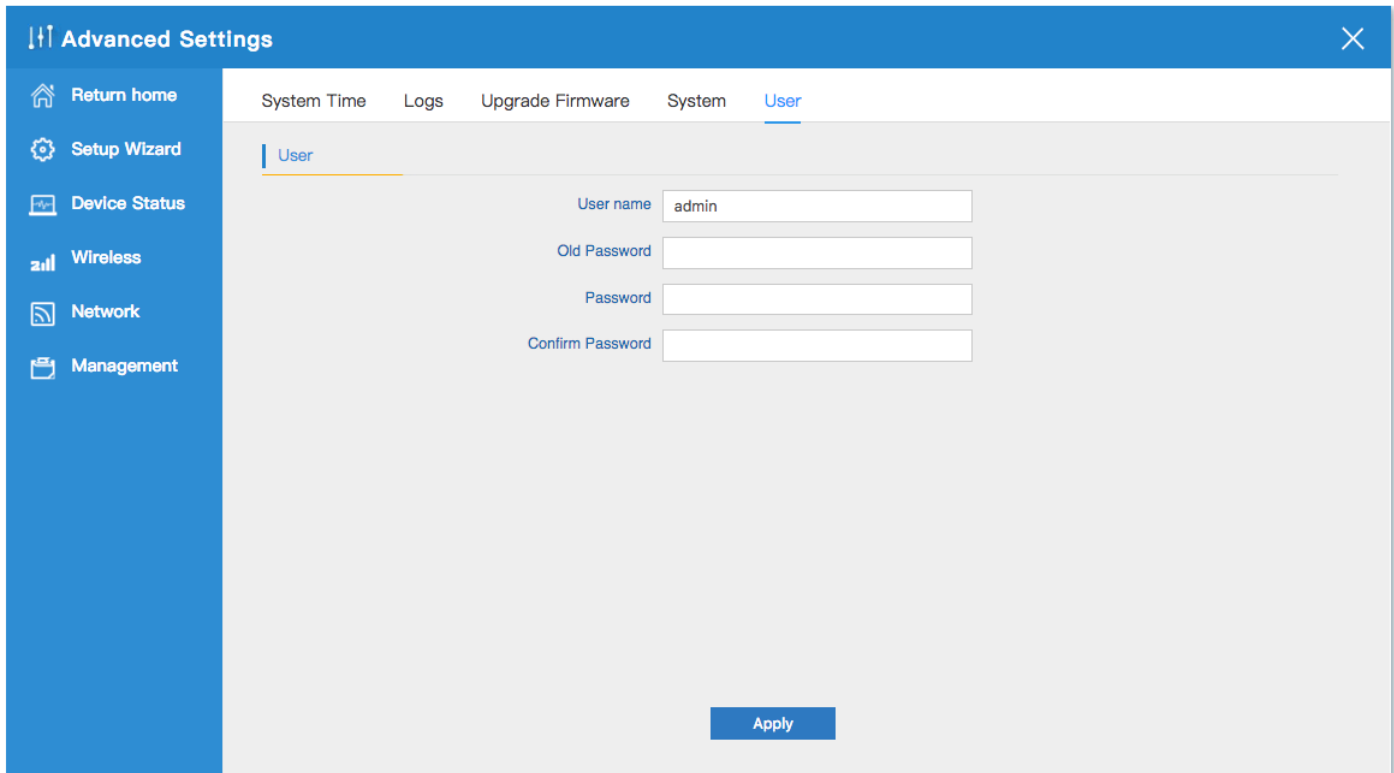
- You are able to backup the current configuration to your PC and restore by applying the configuration file from your PC. And you can Reset and Reboot the device with just one click



The screenshot shows the 'Advanced Settings' window with the 'System' tab selected. The left sidebar contains links: Return home, Setup Wizard, Device Status, Wireless, Network, and Management. The top navigation bar includes System Time, Logs, Upgrade Firmware, System (active), and User. The main content area has a 'Save/Reload Settings' link. Below it, there are four rows of controls: 'Backup' with a 'Backup' button; 'Restore' with a dropdown menu showing '選擇檔案' and '未選擇任何檔案', and a 'Restore' button; 'Reset Default' with a 'Reset Default' button; and 'Reboot' with a 'Reboot' button.

#### 4.5.5 User :

- Management and change the password for Log in



The screenshot shows the 'Advanced Settings' window with the 'User' tab selected. The left sidebar is the same as in the previous screenshot. The top navigation bar includes System Time, Logs, Upgrade Firmware, System, and User (active). The main content area has a 'User' link. Below it, there are four input fields: 'User name' with the value 'admin', 'Old Password', 'Password', and 'Confirm Password'. An 'Apply' button is located at the bottom right of the main content area.

# Enable the status of Gateway Mode or WISP Mode



## 5.1 Network

### 5.1.1 LAN Settings :

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

Return home

Setup Wizard

Device Status

Wireless

Network

Firewall

Management

LAN Settings

VLAN

WAN Settings

WAN advanced settings

IP

192.168.188.253

Subnet Mask

255.255.255.0

DHCP Status

ON

DHCP Client IP Start

192.168.188.1

DHCP Client IP End

192.168.188.200

Lease Time(hour)

12

(1-360)

IP-MAC Bind

IP-MAC Bind

Add

Scan

Clear

Apply

2.Click Choice

Return home

Setup Wizard

Device Status

Wireless

Network

Firewall

Management

LAN Settings

VLAN

WAN Settings

WAN advanced settings

IP

192.168.188.253

Subnet Mask

255.255.255.0

DHCP Status

ON

DHCP Client IP Start

192.168.188.1

DHCP Client IP End

192.168.188.200

Lease Time(hour)

12

(1-360)

IP-MAC Bind

IP-MAC Bind

Add

Scan

Clear

Apply

Client List

MAC	IP	Choice
00:11:6B:74:7F:F8	192.168.188.254	Choice
00:00:00:00:00:00	192.168.188.254	Choice
38:C9:86:38:81:2C	192.168.188.197	Choice

Refresh

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

**Advanced Settings**

Return home Setup Wizard Device Status Wireless **Network** Firewall Management

LAN Settings VLAN WAN Settings WAN advanced settings

**LAN Settings**

IP: 192.168.188.253  
 Subnet Mask: 255.255.255.0  
 DHCP Status: ☒ ON  
 DHCP Client IP: 192.168.188.2  
 DHCP Client IP Start: 192.168.188.200  
 DHCP Client IP End: 192.168.188.200  
 Lease Time(hour): 12 (1-360)

**IP-MAC Bind**

IP-MAC Bind: 192.168.188.197 — 38:C9:86:38:81:2C [Add] [Scan] [Clear]

<input checked="" type="checkbox"/> ALL	IP	MAC
<input checked="" type="checkbox"/>	192.168.188.197	38:C9:86:38:81:2C

[Apply]

### 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-6121 , corresponding to the VLAN-ID (3-4094).

**Advanced Settings**

Return home Setup Wizard Device Status Wireless **Network** Firewall Management

LAN Settings **VLAN** WAN Settings WAN advanced settings

**VLAN**

VLAN-ID(3-4094)	AP	VAP1	VAP2	VAP3
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

[Apply]

### 5.1.3 WAN Settings :

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

The screenshot shows the 'Advanced Settings' window with the 'WAN Settings' tab selected. The 'Static IP' option is highlighted with an orange arrow. The configuration fields are as follows:

Field	Value
IP Address	192.168.50.150
Subnet Mask	255.255.255.0
Default Gateway	192.168.50.1
MTU	1500 (1400-1500)
Primary DNS	8.8.8.8
Secondary DNS	8.8.4.4

An orange arrow points from the 'Static IP' label to the 'Apply' button at the bottom right.

2.The following is a demonstration of PPPoE teaching .

The screenshot shows the 'Advanced Settings' window with the 'WAN Settings' tab selected. The 'PPPOE(ADSL)' option is highlighted with an orange arrow. The configuration fields are as follows:

Field	Value
PPPOE Name	87654321@hinet.net
PPPOE Password	*****
MTU	1445 (1400-1492)
<input checked="" type="checkbox"/> Manually set DNS	
Primary DNS	8.8.8.8
Secondary DNS	8.8.4.4

An orange arrow points from the 'PPPOE(ADSL)' label to the 'Apply' button at the bottom right.



3.The following is a demonstration of DHCP teaching .

**Advanced Settings**

LAN Settings VLAN **WAN Settings** WAN advanced settings

Static IP PPPOE(ADSL) **DHCP**

MTU 1500 (1400-1500)

☒ Manually set DNS

Primary DNS 8.8.8.8

Secondary DNS 8.8.4.4

Apply

#### 5.1.4 WAN advanced settings:

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

**Advanced Settings**

LAN Settings VLAN WAN Settings **WAN advanced settings**

WAN advanced settings

☐ MAC clone  Scan

☒ Enable Web Server Access on WAN Web Port 8080

☐ Enable uPnP

☐ Enable IGMP Proxy

☐ Enable Ping Access on WAN

☒ Enable IPsec pass through on VPN connection

☒ Enable PPTP pass through on VPN connection

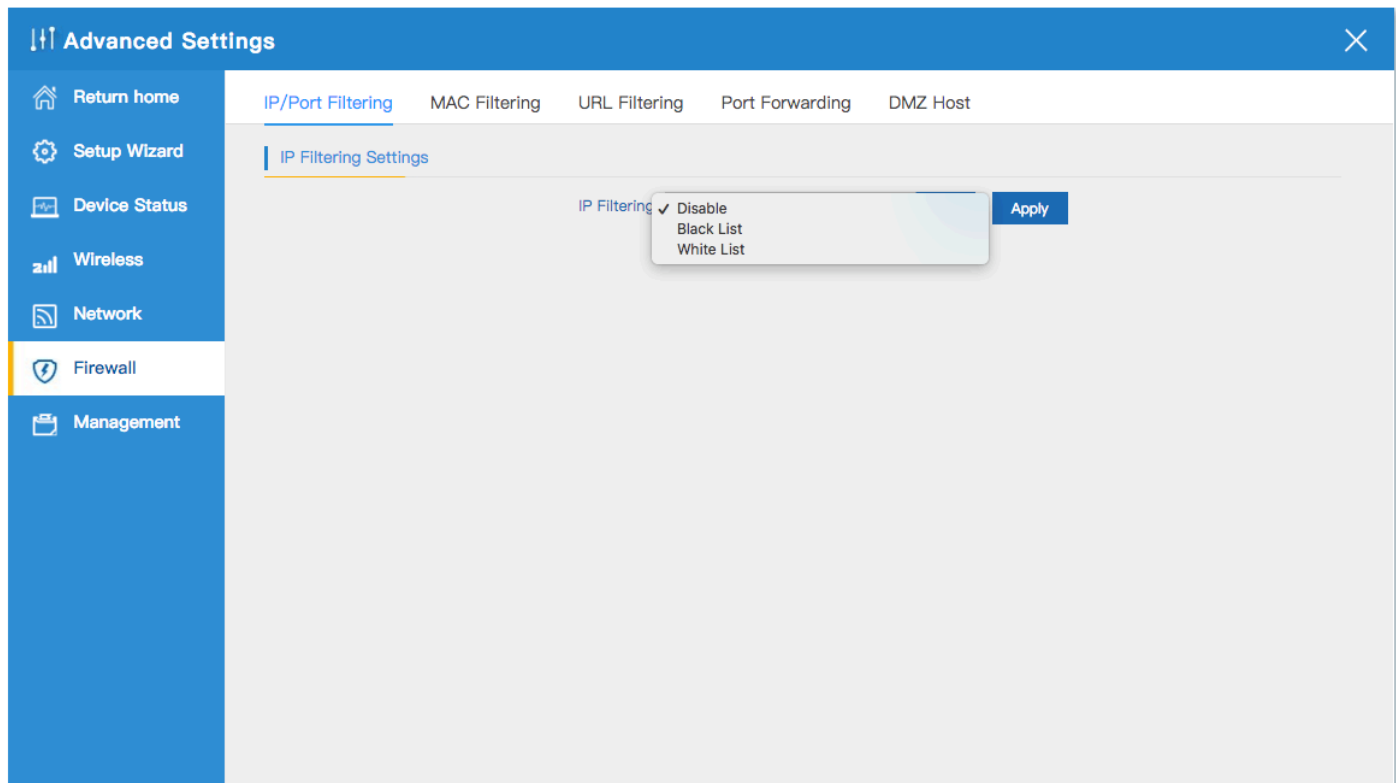
☒ Enable L2TP pass through on VPN connection

Apply

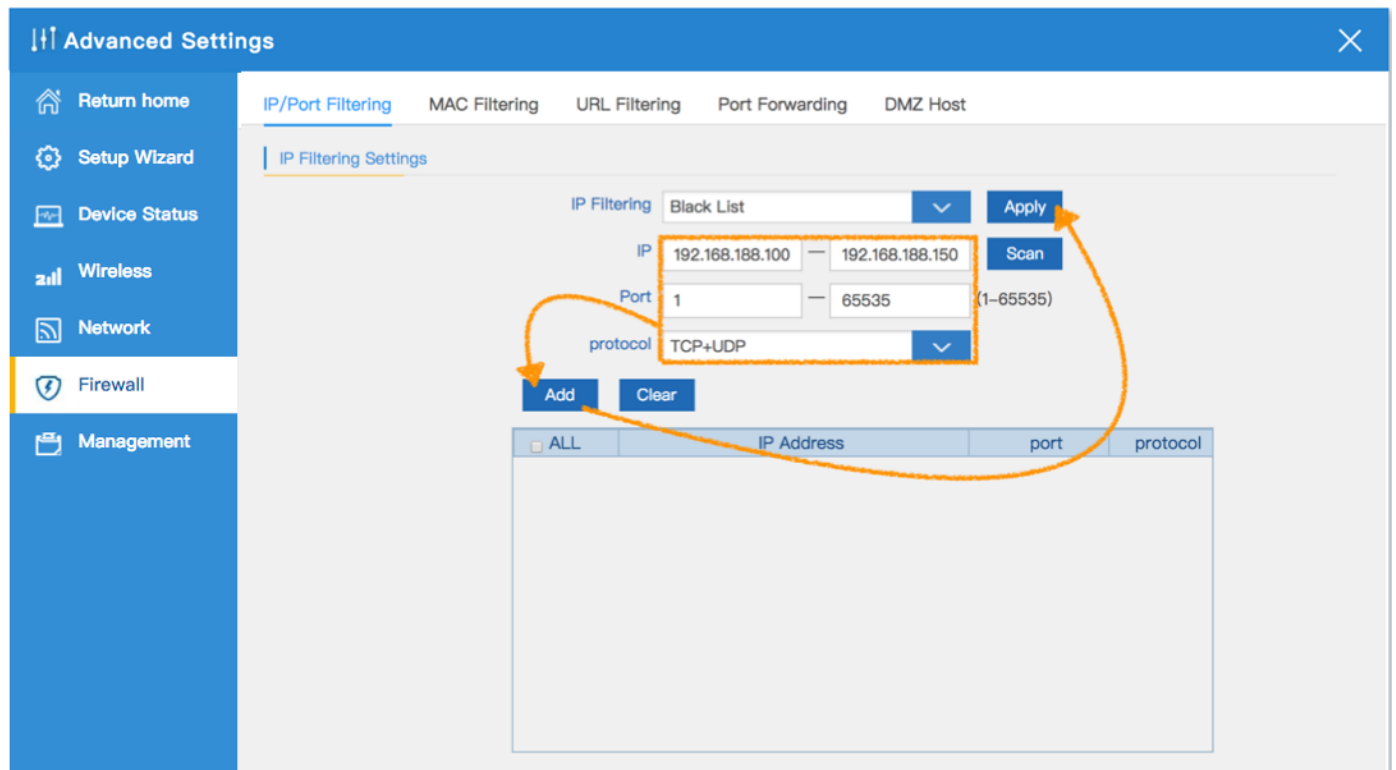
## 5.2 Firewall

### 5.2.1 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.

Advanced Settings

Return home Setup Wizard Device Status Wireless Network Firewall Management

IP/Port Filtering MAC Filtering URL Filtering Port Forwarding DMZ Host

IP Filtering Settings

IP Filtering White List Apply

IP 192.168.188.151 — 192.168.188.180 Scan

Port 1 — 80 (1~65535)

protocol TCP+UDP

Add Clear

ALL	IP Address	port	protocol
-----	------------	------	----------

## 5.2.2 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

Advanced Settings

Return home Setup Wizard Device Status Wireless Network Firewall Management

IP/Port Filtering MAC Filtering URL Filtering Port Forwarding DMZ Host

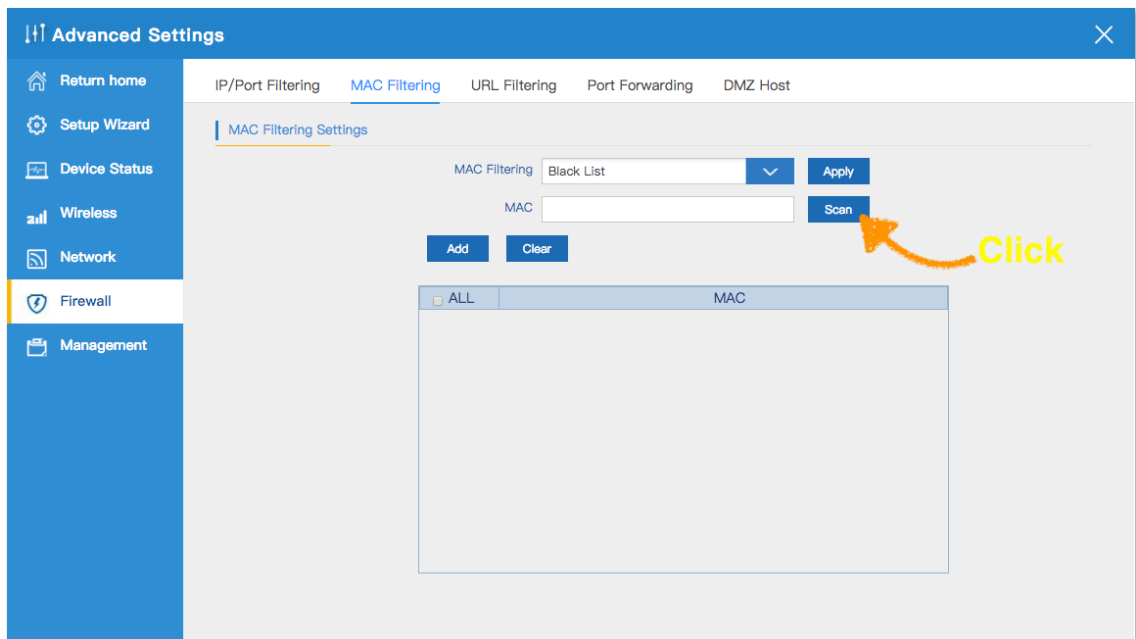
MAC Filtering Settings

MAC Filtering 

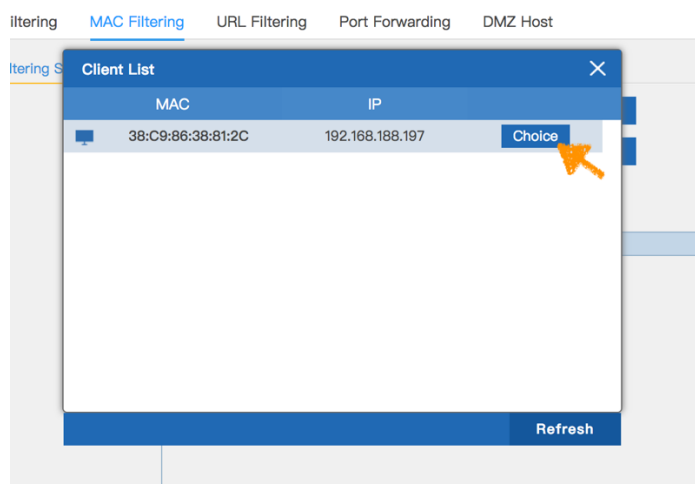
- ✓ Disable
- Black List
- White List

 Apply

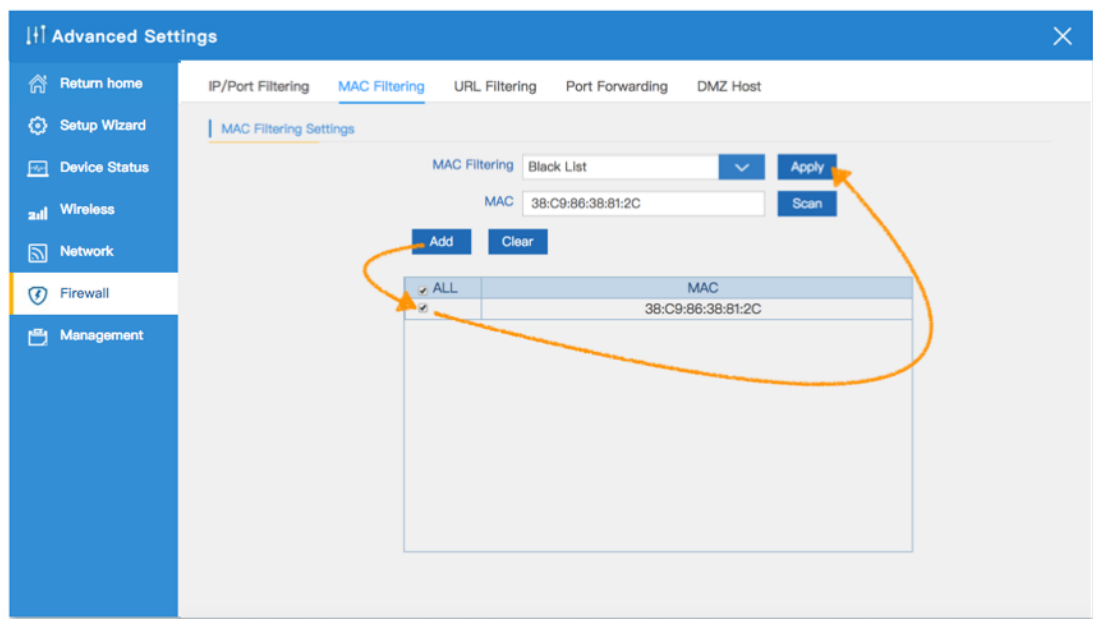
**2.Black List :** Scan specified mode or manual input mode to set, you can block the specified MAC address to connect to the Internet, leaving only link Regional network function.



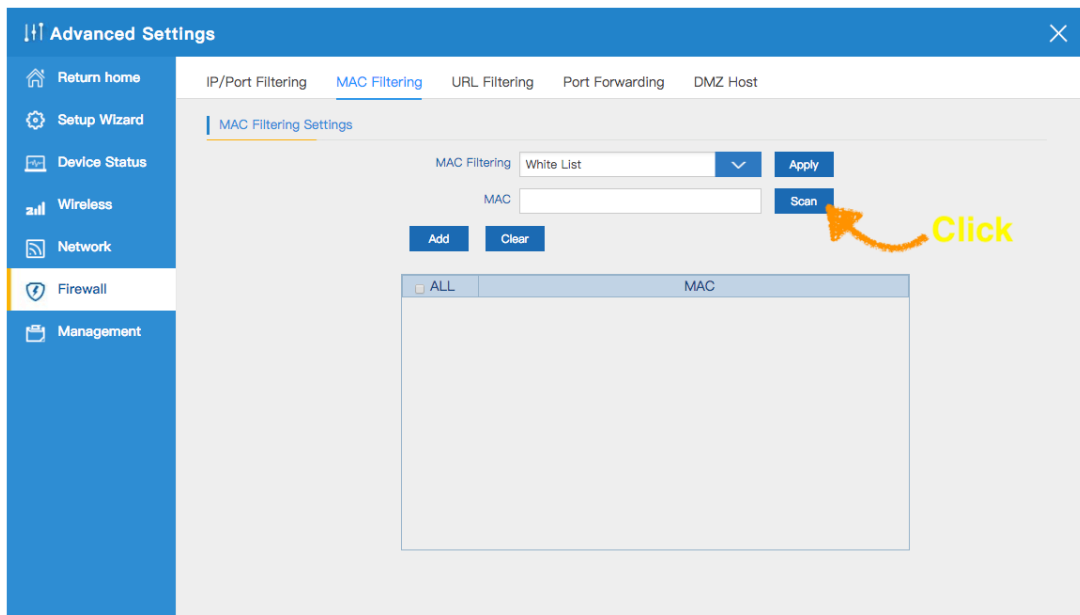
### 3.Click Choice



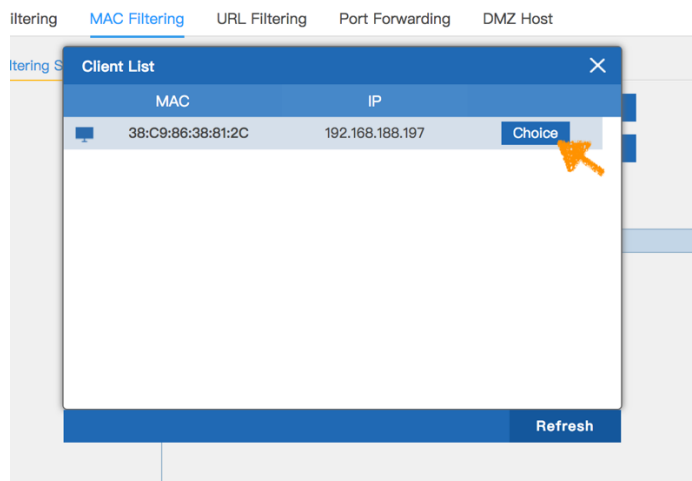
### 4. Added specified MAC address , Click Apply



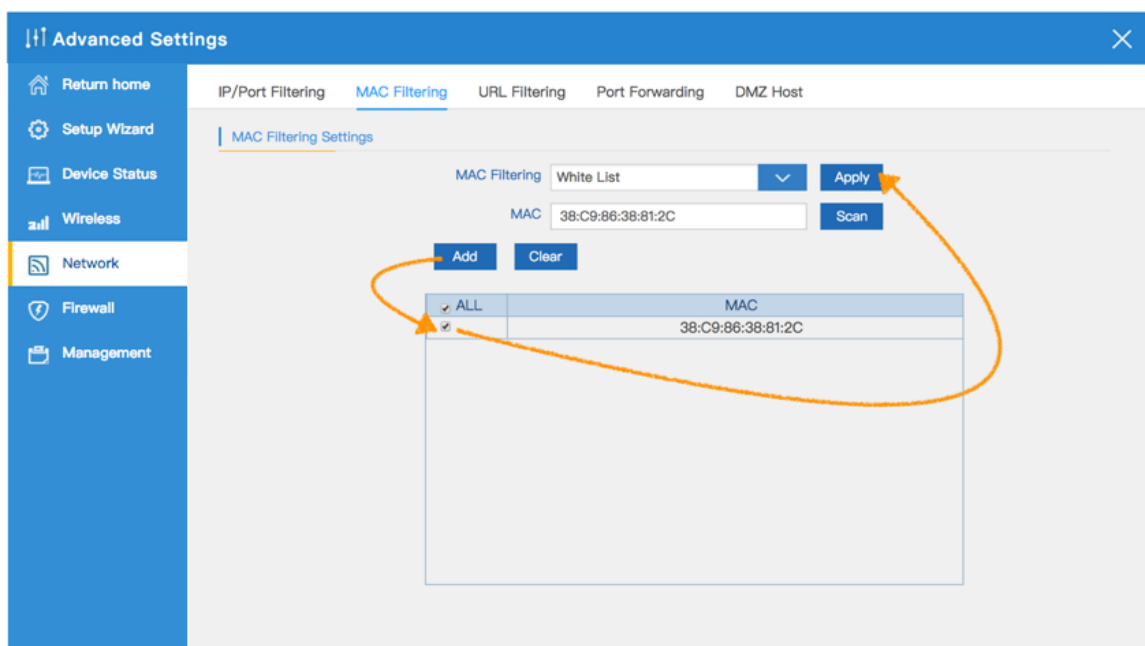
**5.White List :** Scan specified mode or manual input mode is set to allow the specified MAC address to connect to the Internet



## 6.Click Choice

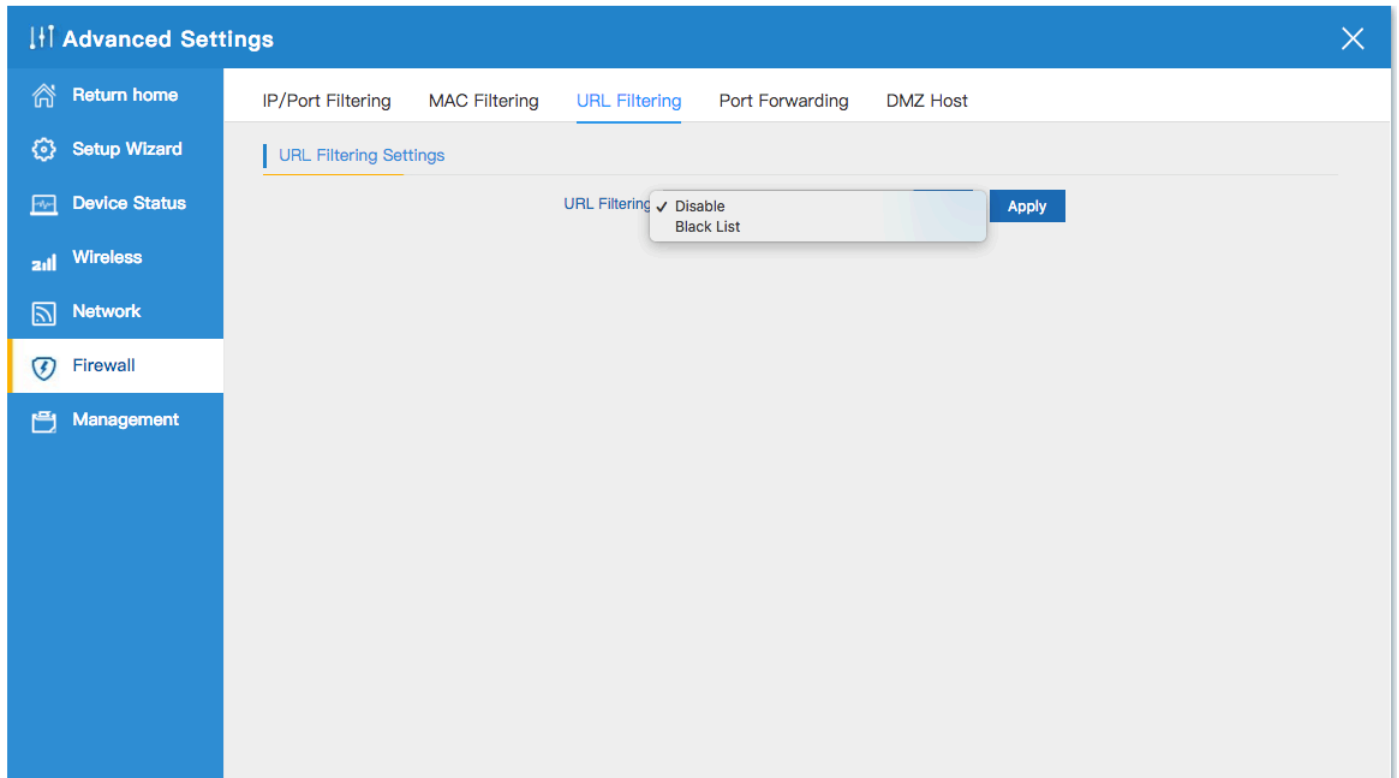


## 7.Added specified MAC address , Click Apply

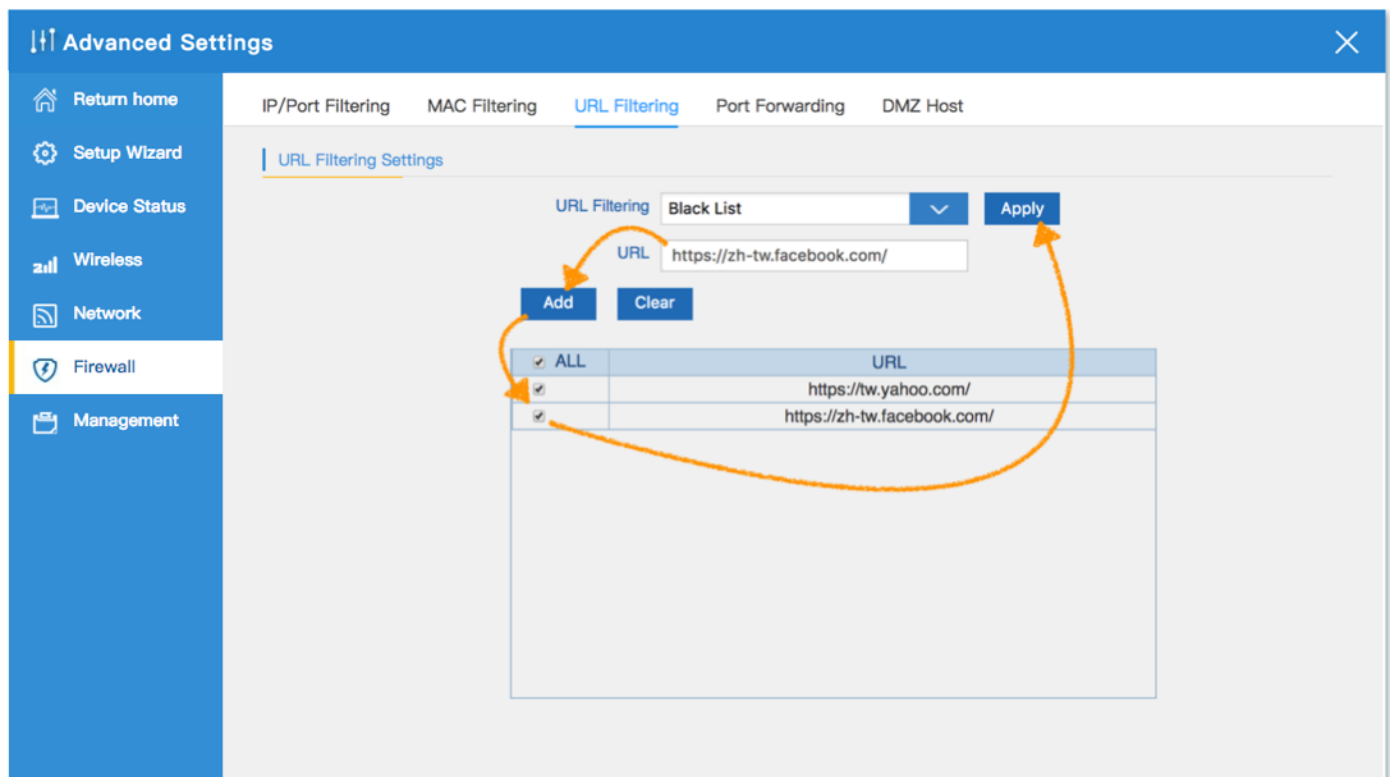


### 5.2.3 URL Filtering :

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



## 5.2.4 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-6121 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-6121

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

Advanced Settings

IP/Port Filtering   MAC Filtering   URL Filtering   **Port Forwarding**   DMZ Host

Port Forwarding

IP: 192.168.188.197   **Apply**

Internal Port: 80 (1-65535)

External Port: 2020 (1-65535)

**Add**   **Clear**   **Scan**

	IP	Internal Port	External Port
<input checked="" type="checkbox"/> ALL			
<input checked="" type="checkbox"/>	192.168.188.197	80	2020

## 5.2.5 DMZ Host

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

Advanced Settings

IP/Port Filtering   MAC Filtering   URL Filtering   Port Forwarding   **DMZ Host**

DMZ Settings

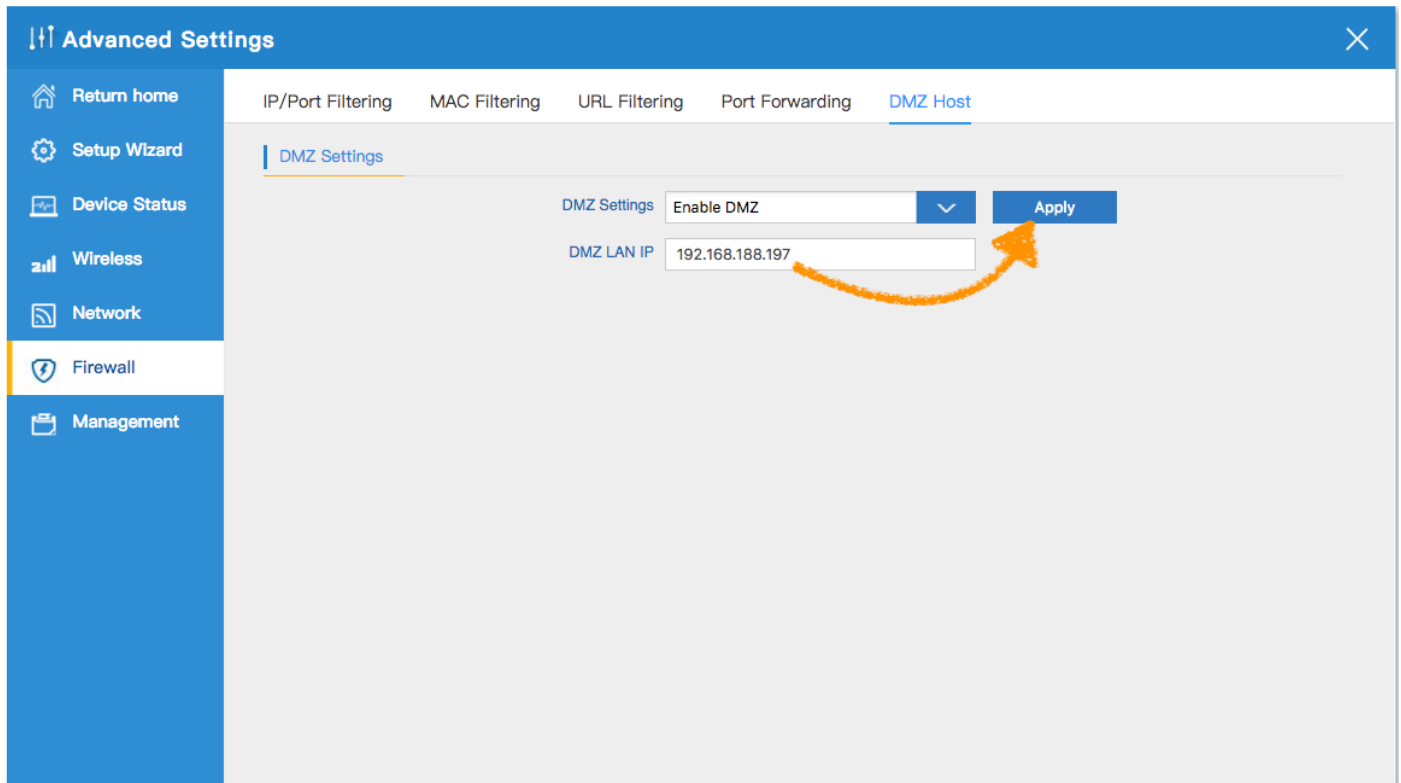
☒ Disable

☐ Enable DMZ

**Apply**

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



The screenshot shows the 'Advanced Settings' window with the 'DMZ Host' tab selected. The left sidebar contains navigation links: Return home, Setup Wizard, Device Status, Wireless, Network, Firewall, and Management. The main content area has tabs for IP/Port Filtering, MAC Filtering, URL Filtering, Port Forwarding, and DMZ Host. Under the DMZ Host tab, there is a 'DMZ Settings' section with a dropdown menu set to 'Enable DMZ' and an 'Apply' button. Below this is a 'DMZ LAN IP' field containing the address '192.168.188.197'. A hand-drawn orange arrow points from the IP address field to the 'Apply' button.

Advanced Settings

Return home Setup Wizard Device Status Wireless Network Firewall Management

IP/Port Filtering MAC Filtering URL Filtering Port Forwarding DMZ Host

DMZ Settings

DMZ Settings Enable DMZ Apply

DMZ LAN IP 192.168.188.197



## 5.3 Management

### 5.3.1 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.

**Advanced Settings**

Return home | Setup Wizard | Device Status | Wireless | Network | Firewall | **Management**

**System Time** | DDNS settings | QoS | Logs | Upgrade Firmware | System | User

Synchronous mode: ☐ Sync with Host ☒ Sync with Server

System Time: 2015-10-29 19:50:16 [Sync with Server](#)

Choose Time Zone: Taipei [v](#)

NTP Server: time.windows.com [v](#)

Auto restart: ☐ 0:00 ☒ one day

[Apply](#)

2. Can set up the required NAT Server

**Advanced Settings**

Return home | Setup Wizard | Device Status | Wireless | Network | Firewall | **Management**

**System Time** | DDNS settings | QoS | Logs | Upgrade Firmware | System | User

Synchronous mode: ☐ Sync with Host ☒ Sync with Server

System Time: 2015-10-29 19:51:18 [Sync with Server](#)

Choose Time Zone: Taipei [v](#)

NTP Server: [v](#)

- time.windows.com
- 210.98.16.100-Time.Kriss.re.kr
- 211.115.194.21-Ntp1.epidc.co.kr
- 64.250.177.145-Time.nist.gov
- 192.5.41.41-North America
- 192.5.41.209-North America
- 208.184.49.9-North America
- 131.188.3.220-Europe
- 130.149.17.8-Europ
- 203.60.1.2-Australia
- 203.117.180.36-Asia Pacific
- CUSTOM---

Auto restart: ☐ 0:00 ☒ one day

[Apply](#)

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

**Advanced Settings**

Return home Setup Wizard Device Status Wireless Network Firewall Management

System Time DDNS settings QoS Logs Upgrade Firmware System User

**System Time**

Synchronous mode ☐ Sync with Host ☒ Sync with Server

System Time 2015-10-29 19:52:35 [Sync with Server](#)

Choose Time Zone Taipei

NTP Server ---CUSTOM---

Manual Setup tock.stdtime.gov.tw

Auto restart ☐ 0:00 ☐ one day

[Apply](#)

## 5.3.2 DDNS settings :

1.Factory default value is disable

The screenshot shows the 'Advanced Settings' interface with the 'DDNS settings' tab selected. The 'Dynamic DNS' dropdown menu is open, showing 'Disable' as the selected option and 'Enable' as an alternative. The left sidebar contains navigation links: Return home, Setup Wizard, Device Status, Wireless, Network, Firewall, and Management. The top navigation bar includes System Time, DDNS settings, QoS, Logs, Upgrade Firmware, System, and User. An 'Apply' button is located at the bottom right of the settings area.

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-6121 through the DDNS service.

This screenshot shows the 'DDNS settings' page with the 'Dynamic DNS' option set to 'Enable'. The following fields are filled out: 'User Name' is 'myname', 'Password/Key' is 'mypasswd', and 'Domain' is 'myname.imwork.net'. The 'Public IP' is listed as 'N/A'. Below these fields, there are links for 'No account?', 'Registration', and 'Forget password'. A red note states: 'Note Need to restart the device to take effect'. An 'Apply' button is at the bottom right. The interface layout is consistent with the previous screenshot, including the left sidebar and top navigation bar.

### 5.3.3 QoS :

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

**Advanced Settings**

System Time DDNS settings **QoS** Logs Upgrade Firmware System User

**QoS**

☒ ON **Apply**

Upload  Range:(100-1024000)Kbps

Download  Range:(100-1024000)Kbps

**QoS Rule settings**

☒ IP range  -

Mode ☒ Share total bandwidth with all IP address. ☐ Assign bandwidth for each IP address.

Bandwidth Upload  Kbps Download  Kbps

Comment  **Add** **Clear**

<input type="checkbox"/> ALL	Start IP	End IP	Mode	Upload(Kbps)	Download(Kbps)	Comment
<input checked="" type="checkbox"/>	192.168.188.100	192.168.188.200	Share	20000	50000	engineer

### 5.3.4 Logs :

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

**Advanced Settings**

System Time DDNS settings QoS **Logs** Upgrade Firmware System User

**System Logs**

☐ Remote Log Server

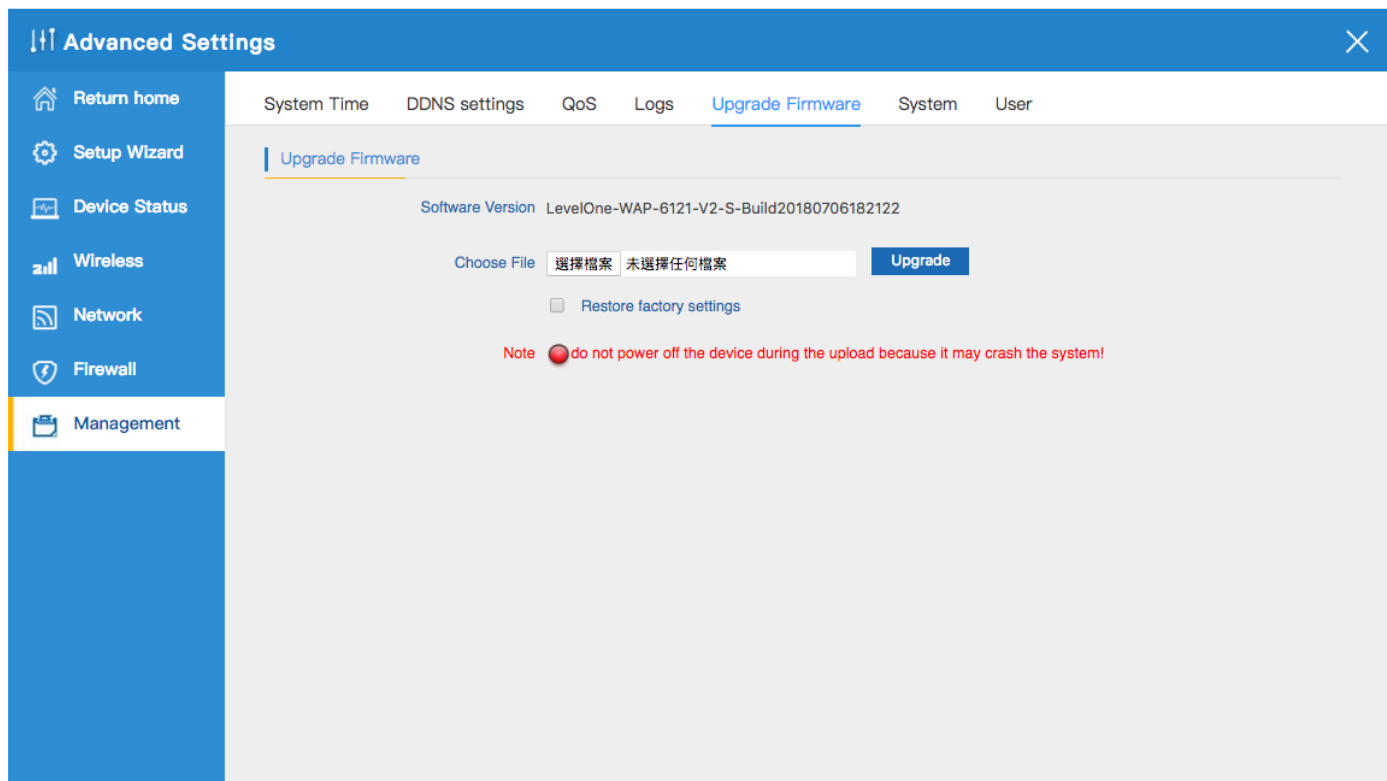
IP  **Apply**

```
Oct 29 18:37:17 WAP-6121 kern.warn kernel: [ 36.040000] Set wait done --832b8000
Oct 29 18:37:17 WAP-6121 kern.warn kernel: [ 36.040000] Set freq vap 1 stop send + 82c54000
Oct 29 18:37:17 WAP-6121 kern.warn kernel: [ 36.040000] Set freq vap 1 stop send -82c54000
Oct 29 18:37:18 WAP-6121 kern.warn kernel: [ 36.180000] Set wait done --82c54000
Oct 29 18:37:18 WAP-6121 kern.warn kernel: [ 36.220000] WARNING: Fragmentation with HT mode NOT ALLOWED!!
Oct 29 18:37:18 WAP-6121 user.info sysinit: Error for wireless request "Set Fragmentation Threshold" (8B24) :
Oct 29 18:37:18 WAP-6121 user.info sysinit: SET failed on device ath04 ; Invalid argument.
Oct 29 18:37:18 WAP-6121 user.info sysinit: Interface doesn't accept private ioctl...
Oct 29 18:37:18 WAP-6121 user.info sysinit: stafwd (8BE0): Invalid argument
Oct 29 18:37:18 WAP-6121 kern.warn kernel: [ 36.260000] Setting Max Stations:64
Oct 29 18:37:18 WAP-6121 kern.warn kernel: [ 36.270000]
Oct 29 18:37:18 WAP-6121 kern.warn kernel: [ 36.270000] DES SSID SET=
Oct 29 18:37:18 WAP-6121 kern.warn kernel: [ 36.280000]
Oct 29 18:37:18 WAP-6121 kern.warn kernel: [ 36.280000] DES SSID SET=scap-ap
Oct 29 18:37:18 WAP-6121 kern.info kernel: [ 36.550000] 8021q: adding VLAN 0 to HW filter on device ath0
Oct 29 18:37:18 WAP-6121 daemon.notice netifd: wan (1062): Sending select for 192.168.188.83...
Oct 29 18:37:18 WAP-6121 daemon.notice netifd: wan (1062): Lease of 192.168.188.83 obtained. lease time 360
```

**Refresh** **Clear**

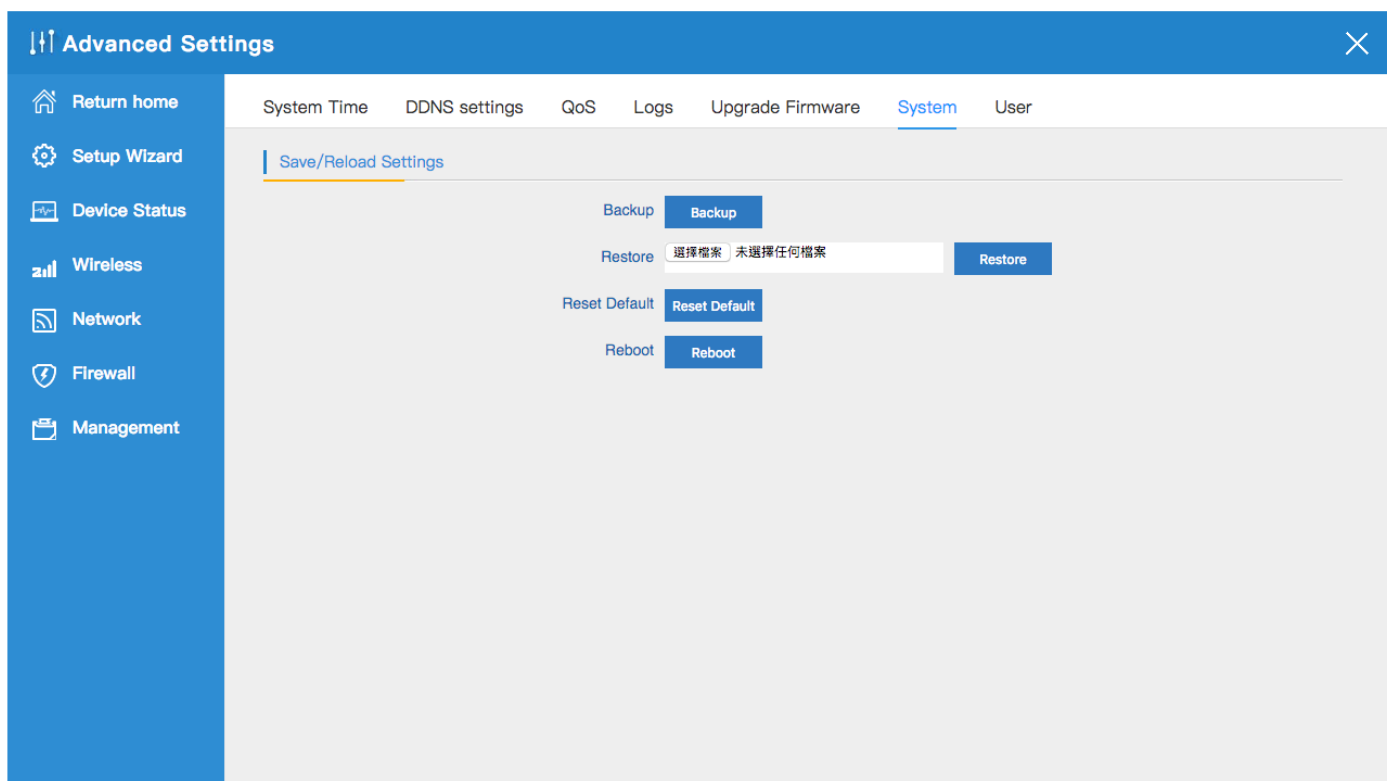
## 5.3.5 Upgrade Firmware :

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



## 5.3.6 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



## 5.3.7 User :

- Management and change the password for Log in

Advanced Settings

Return home

Setup Wizard

Device Status

Wireless

Network

Firewall

Management

System TimeDDNS settingsQoSLogsUpgrade FirmwareSystemUser

User

User nameadmin

Old Password

Password

Confirm Password

Apply

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