



User Guide For Cloud Access Point

Release version:V1.0.0

August 2022

目录

Overview	1
1. Quick Start	2
2. Log in to the web interface	5
2.1. Login	5
2.2. log out	7
3. Dashboard	8
3.1. System Info	8
3.2. WAN Info	9
3.3. Wireless Info	10
3.4. Radio Status	11
3.5. Real Time Flow Chart&System Load	11
3.6. SSID List	12
3.7. DHCP Client	13
3.8. Wireless Terminal Station	13
3.9. Routing Table	15
3.10. ARP Table	15
4. Wizard	16
4.1. Fit AP Mode	16
4.2. Repeater Mode	19
4.3. Wireless Router Mode	22
4.4. WISP Mode	24
5. WAN	27
6. Wireless	29
7. Wi-Fi Schedule	30
8. Access Controller	31
9. System	32
9.1. Change Password	32
9.2. Wi-Fi Signal Intension Mode	33
9.3. System Upgrade	33
10. Advanced	35
10.1. DHCP Server	35
10.2. Multiple SSID	36
10.3. RF Parameter	37
10.4. Ping Watchdog	39
10.5. Scheduled Reboot	40
10.6. Time Manager	41
10.7. Diagnosis	42

Overview

Cloud AP series products provide wireless coverage solutions for small and medium-sized enterprises and families. They can work independently as independent APs, or they can be centrally managed through a hardware controller (Gateway with AC function, AC50) or cloud platform to provide services for small and medium-sized enterprises. and home with a flexible, feature-rich, and easy-to-configure wireless network.

Revision History

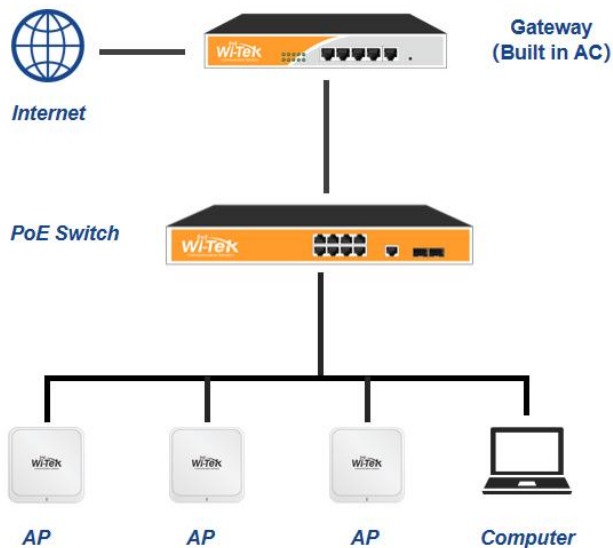
Date	Doc Version	Description
August 2022	V1.0	Initial version

1. Quick Start

In the Quick Setup module, you can quickly set up the AP to enable Internet access for wireless devices such as your smartphone and tablet.

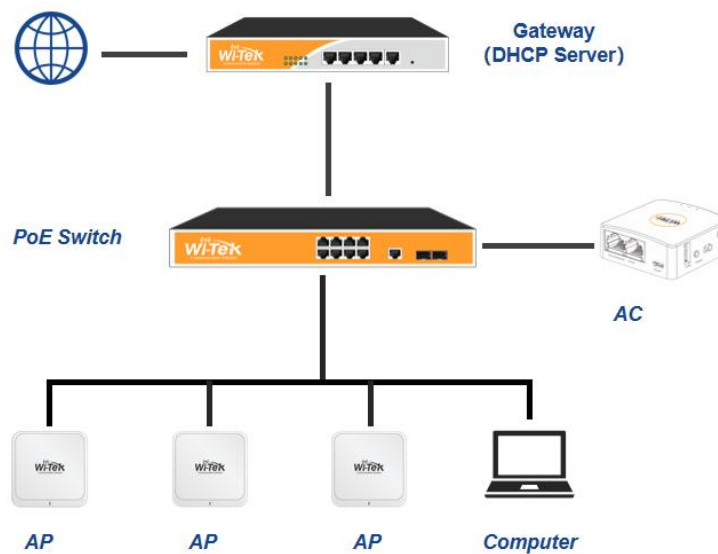
The AP supports four AP working modes. In the default working mode, thin AP mode, the AP uses an Ethernet cable to connect to the Internet or (the POE gateway is connecting the router to the Internet) in conjunction with the AC, and converts wired signals into wireless signals for wireless coverage. See topology below.

AC Gateway Mode Topology



The above methods are used to manage AP access through the AC controller, and management operations such as unified management and command issuance can be performed through the AC. Connect the router and other network devices (switches, computers, etc.) with a network cable. After checking, use the power adapter or network cable in the product box to connect to the router, and press the power switch to power on the wireless AP.

Bypass mode topology

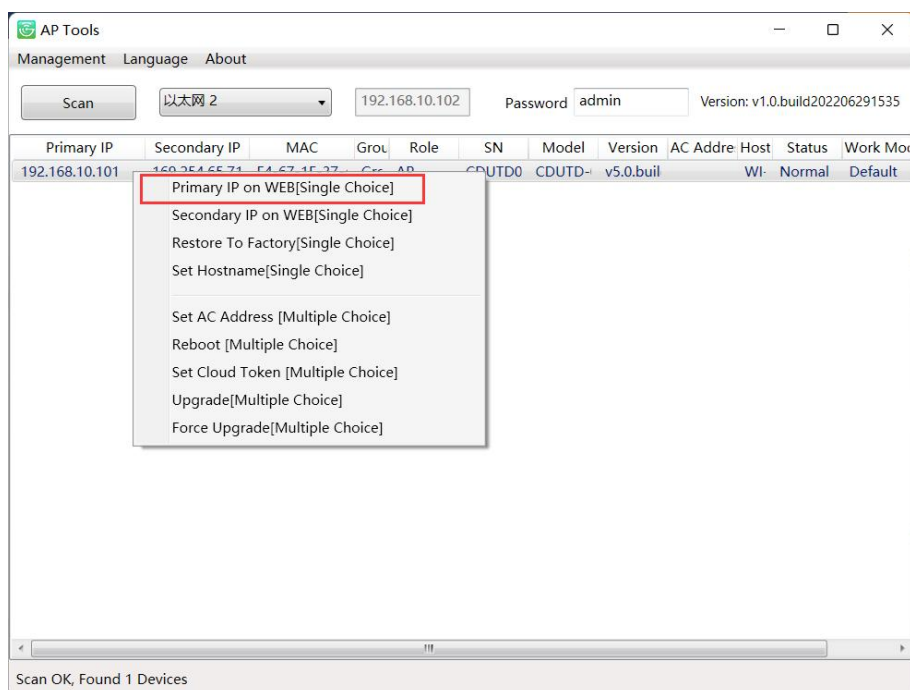


Step 1 Open the Scan Tools on computer.

ScanTools_20210927

Note: Download Link http://www.wireless-tek.com/files_down.php?id=90

Step 2 Click the 'Scan' button to query the IP address assigned by the router to the AP, and the tool will use the default browser to open the corresponding IP access device. As follows:



Step 3 After normal access opens, enter the default password admin for Administrator Login, as shown below:



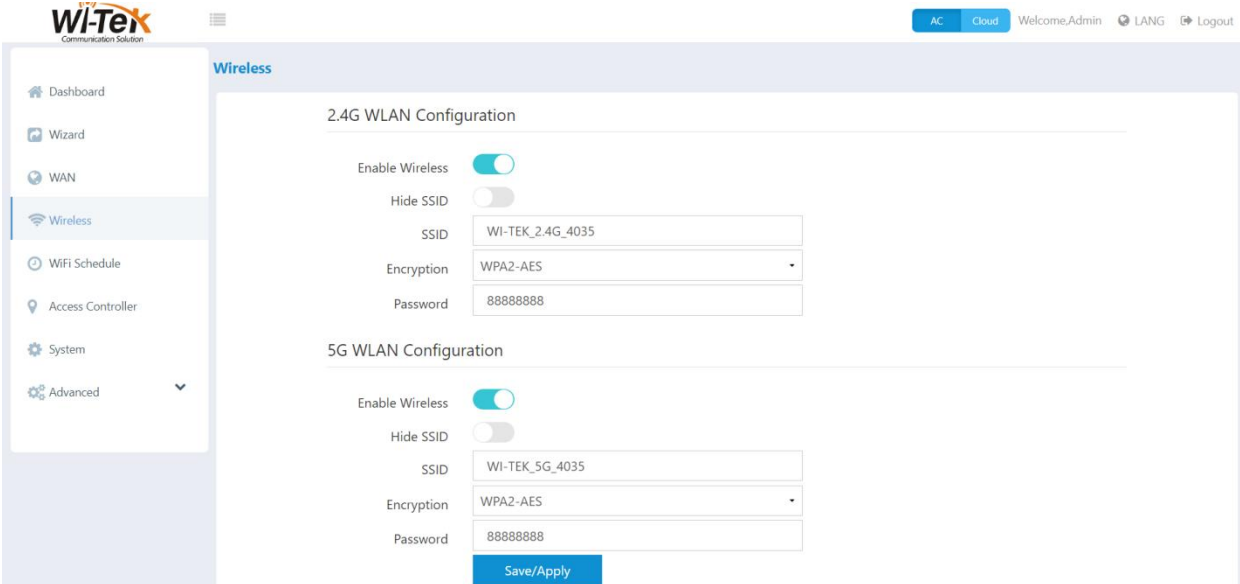
The image shows the Wi-Tek Communication Solution Administrator Login page. It features the Wi-Tek logo at the top, followed by the text "Administrator Login". Below this, it states "Default Password is 'admin'". There are input fields for "English" and "Forget Your Password?". A blue "Login" button is at the bottom.

Step 4 Select **Wireless**.

Step 5 Select the SSID you want to configure, for example, 2.4GHz/5GHz.

Step 6 Select any encryption type and enter a password.

Step 7 Click the Save button to submit.



The image shows the Wi-Tek Communication Solution Wireless Configuration page. It has a sidebar menu with options: Dashboard, Wizard, WAN, Wireless (selected), WiFi Schedule, Access Controller, System, and Advanced. The main content area is titled "Wireless" and contains two sections: "2.4G WLAN Configuration" and "5G WLAN Configuration". Each section has a toggle for "Enable Wireless" (checked), a toggle for "Hide SSID" (unchecked), a text field for "SSID" (WI-TEK_2.4G_4035 for 2.4G and WI-TEK_5G_4035 for 5G), a dropdown for "Encryption" (WPA2-AES), and a text field for "Password" (88888888). A blue "Save/Apply" button is at the bottom.

-END

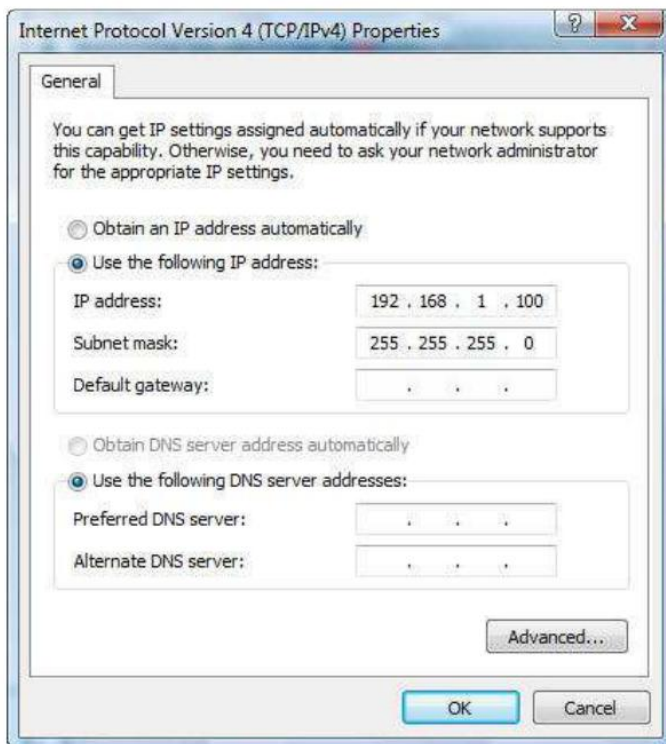
2. Log in to the web interface

2.1. Login

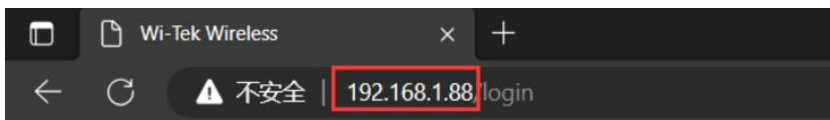
Step 1 Connect your computer to the AP with an ethernet cable.

Step 2 Make sure that the IP address of the management computer is in the same network segment of the AP.

For example, if the IP address of the AP is 192.168.1.88, the management computer can be configured with an IP address of 192.168.1.100.



Step 3 Launch a web browser on your computer and enter the IP address of the AP (default: 192.168.1.88) in the address bar.



Step 4 Enter the login username and password (default: admin) and click the Login button.



If the login page does not appear, try the following solutions:

If there is a DHCP server in the LAN where the AP is deployed, the AP will automatically obtain an IP address from the DHCP server. In this case, first check the AP's new IP address in the client list of the DHCP server, and log in to the AP's web page with the new IP address.

If a AC (including a Wi-Tek router that supports AP management) has been deployed in the network, the AP may have been managed by the AC and its IP address has changed. Please log in to the AC's web interface and check the AP's new IP address, then log in again with the new IP address.

If multiple APs are deployed in the network, IP address conflicts may occur, resulting in web interface login errors. Verify that the AP's IP address is not in use before integrating into the network.

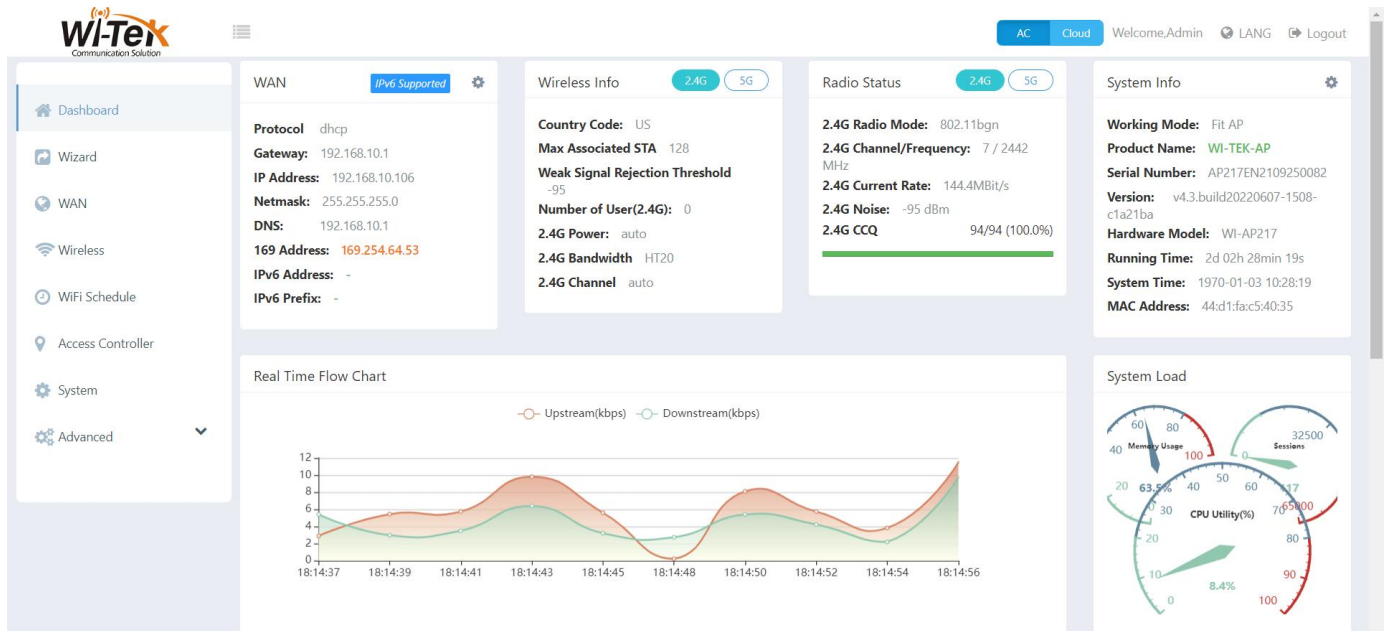
Reset the AP and try to log in with the default IP address. How to reset: After the AP starts, press and hold the reset button for about 10 seconds and release it. After waiting about 8 seconds, the AP will reset to factory settings and reboot.

2.2. log out

After logging in to the AP's web interface, the system will automatically log out if no operations are performed during the login timeout interval. Additionally, you can click "Sign Out" in the upper right corner to safely exit the web interface.

3. Dashboard

The Dashboard page allows you to check current system info of APs.



3.1. System Info

System Info

Working Mode: Fit AP

Product Name: WI-TEK-AP

Serial Number:
AP21500120604009D

Version: v4.3.build20220607-1744-c1a21ba

Hardware Model: WI-AP215

Running Time: 2d 00h 03min 28s

System Time: 2022-07-17 11:36:47

MAC Address: 44:d1:fa:8b:b1:38

Parameter	Describe
Working Mode	Display the current working mode of AP.

Product Name	Displays the default name of the AP, which can be modified manually.
Serial Number	Display the SN of AP.
Version	Displays the firmware version of the AP.
Hardware Model	Displays the model name of the AP.
Running Time	Displays how long the AP has been working since it starts up.
System Time	Displays the current system time.
MAC Address	Displays the MAC address of the AP.

3.2. WAN Info

WAN
IPv6 Supported

Protocol dhcp
Gateway: 192.168.10.1
IP Address: 192.168.10.106
Netmask: 255.255.255.0
DNS: 192.168.10.1
169 Address: 169.254.64.53
IPv6 Address: -
IPv6 Prefix: -

Parameter	Describe
Protocol	Display the current working protocol of WAN port.
Gateway	Displays the gateway IP of the AP, which may be dynamically obtained or statically specified.
IP Address	Displays the IP address of the AP, which may be dynamically obtained or statically specified.
Netmask	Displays the Netmask of the AP, which may be dynamically obtained or statically specified.
DNS	Displays the DNS of the AP, which may be dynamically obtained or

	statically specified.
169 Address	Displays Secondary IP address of the AP.
IPv6 Address	Displays the IPv6 address of the AP.
IPv6 Prefix	Displays the IPV6 prefix of the AP.

3.3. Wireless Info

Wireless Info

2.4G

5G

Wireless Info

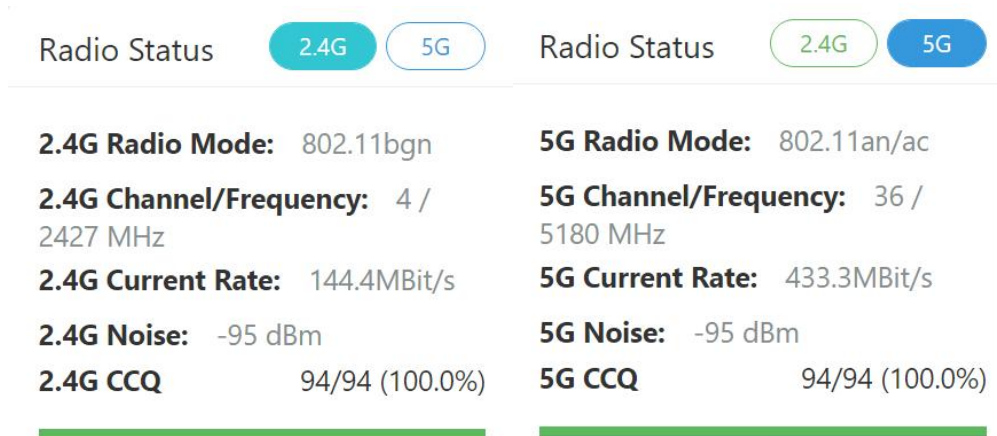
2.4G

5G

Country Code: US**Max Associated STA** 128**Weak Signal Rejection Threshold**
-95**Number of User(2.4G):** 4**2.4G Power:** auto**2.4G Bandwidth** HT20**2.4G Channel** 1**Country Code:** US**Max Associated STA** 128**Weak Signal Rejection Threshold**
-95**Number of User(5G):** 0**5G Power:** auto**5G Bandwidth** HT80**5G Channel:** auto

Parameter	Describe
Country Code	Display the country code of the current AP running.
Weak Signal Rejection Threshold (RSSI)	indicates the minimum signal level required for a client to remain connected.
Number of User	Display the number of users connected to this channel.
Power	Display the transmit power of the current AP operation.
Bandwidth	Displays the bandwidth of the current AP operation.
Channel	Display the wireless channel of current AP operation.

3.4. Radio Status

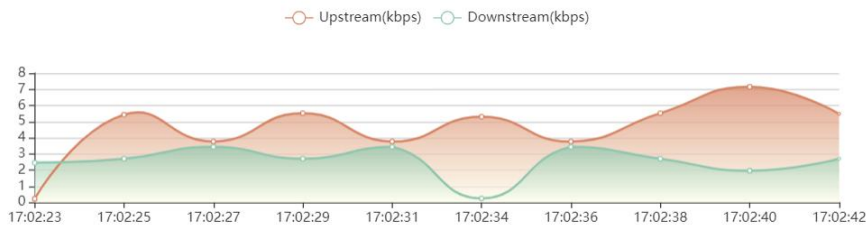


Parameter	Describe
Radio Mode	Displays the wireless protocol of the device. * Single band devices only display 2.4G
Channel / Frequency	Displays the channel of the device.
Current Rate	Display the current rate of devices
Noise	Display amount of background noise in your environment. *If the noise level is too high, it can result performance for your wireless network. *The closer the value to 0, the greater the noise level.
CCQ	displays the wireless Client Connection Quality (CCQ), the value in percent that shows how effective the bandwidth is used regarding the theoretically maximum available bandwidth.

3.5. Real Time Flow Chart&System Load

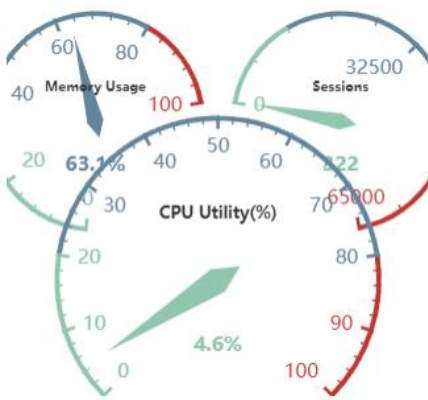
The real-time traffic(WLAN to LAN) is displayed in a graph and refreshed every 2s to display the current working uplink and downlink rates of the AP, in kbps.

Real Time Flow Chart



The system load is displayed in the form of a meter chart and refreshed every 2s to display the memory usage, the number of sessions, and the CPU usage.

System Load



3.6. SSID List

AP Wireless Statistics List allows you to check basic information and statistics about SSID based.

SSID	Encryption	Password	SSID Hide	Network	VLAN
WI-TEK_2.4G_4035	WPA2-AES	88888888	NO	2.4G	Default VLAN
WI-TEK_5G_4035	WPA2-AES	88888888	NO	5G	Default VLAN

Parameter	Describe
SSID	Displays the SSID number associated with the client.
Encryption	Display the encryption type of SSID

Password	Display the password of SSID
SSID Hide	Display whether SSID is hidden.
Network	Display the frequency band of SSID.
VALN	Displays the VLAN to which the SSID belongs.

3.7. DHCP Client

This part displays the information such as the IP address assigned to the user by the AP in Fat mode and WISP mode.

DHCP Client 			
Name	IP	MAC	Left Lease Time
OPPO-K9-5G	192.168.11.1	58:c...da:6f	35.9Minute
*	192.168.11.	7a:e...5:0c	41.4Minute
*	192.168.11.	22:...:89	54.0Minute
Wi-Tek	192.168.11.	60:a...f:ad	45.4Minute
*	192.168.11.	26:a...d:fe	42.5Minute
DESKTOP-QG59N11	192.168.11.	38:8...a1:dd	50.4Minute

Note: The list information needs to be in the Fat AP or WISP working mode to view the information of the client connected to the AP.

3.8. Wireless Terminal Station

This part will display the basic information of the wireless client after connecting to the AP, including MAC address, signal, SNR, etc

Wireless Terminal Station 							
MAC	IP	Signal	SNR	TX	RX	TX Pkts	RX Pkts
7A:E6:FC:B5:0C	*	-55dBm	40	780MBit/s	433.3MBit/s	18642	18352
22:21:53:61:89	*	-51dBm	44	816.7MBit/s	149.7MBit/s	29043	26868
10:6F:14:AD:13	*	-64dBm	31	866.7MBit/s	390MBit/s	154130	52325
BC:75:9E:DF:EB	*	-62dBm	33	260MBit/s	292.6MBit/s	77112	109077
58:D:ED:DA:6F	*	-47dBm	48	866.7MBit/s	433.3MBit/s	1102	1549
26:A:43:BD:FE	*	-47dBm	48	816.7MBit/s	864.8MBit/s	10041	12550
38:E5:62:A1:DD	*	-43dBm	52	1134.2MBit/s	1200.9MBit/s	1814427	2087651
6C:3:5D:63:14	*	-49dBm	46	866.7MBit/s	702MBit/s	28571	15081
60:A2:DF:4F:AD	*	-56dBm	39	907.4MBit/s	960.7MBit/s	446834	224309
DE:5:11:C6:65	*	-46dBm	49	866.7MBit/s	866.7MBit/s	36068	40233
14:S7:82:F9:D0	*	-56dBm	39	1134.2MBit/s	864.8MBit/s	78857	145904

Parameter	Describe
MAC	Displays the MAC address of the wireless client device.
IP	Display the IP address of the wireless client.
Signal	Display the signal value of the wireless client connected to the AP.
SNR	Displays the Signal-Noise Ratio of the device. *In general, you should have a minimum of +25dBm signal-to-noise ratio. Lower values than +25dBm result in poor performance and speeds.
TX/RX	Displays the rate of sending data or receiving data of the device.
TX Pkts / Rx Pkts	TX Pkts: Displays the number of packets received by the wireless client after connecting to the SSID. RX Pkts: Displays the number of packets received by the wireless client after connecting to the SSID.
	Click  to quickly jump to the wireless configuration page.

3.9. Routing Table

The Routing table views all of the valid route entries in use. The Goal IP address, Netmask, Gateway, and Interface will be displayed for each entry.

Routing Table			
Goal	Gateway	Netmask	Interface
169.254.0.0	*	255.255.0.0	lan1
192.168.1.0	*	255.255.255.0	lan1

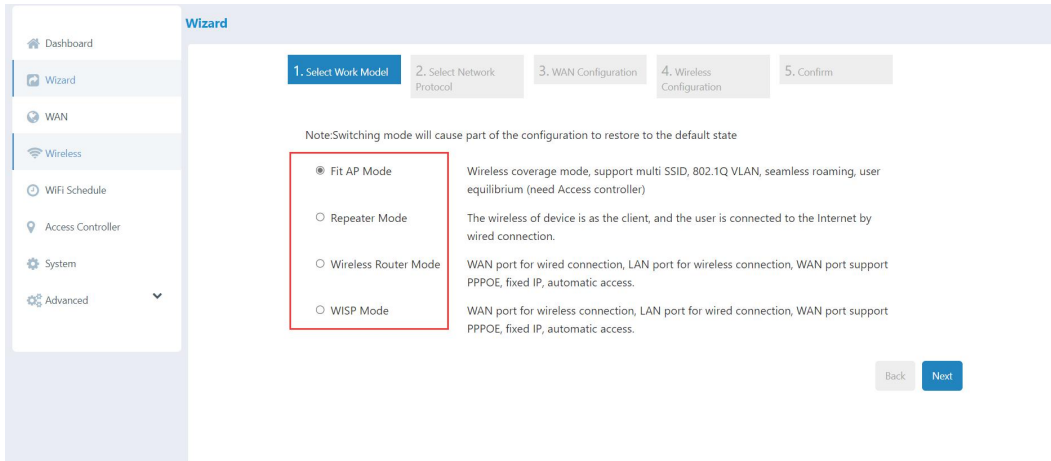
3.10. ARP Table

The ARP Table page allows you to view detailed ARP information on the device side connected to the AP.

ARP Table		
IP	MAC	Interface
192.168.10.102	2c:16:db:a3:d5:6a	lan1
192.168.10.1	e4:67:1e:0f:60:92	lan1

4. Wizard

The AP supports four working modes: Fit AP mode, Repeater mode, wireless router mode, and WISP mode. The default working mode is the fit mode. Please select the model according to the actual network needs.

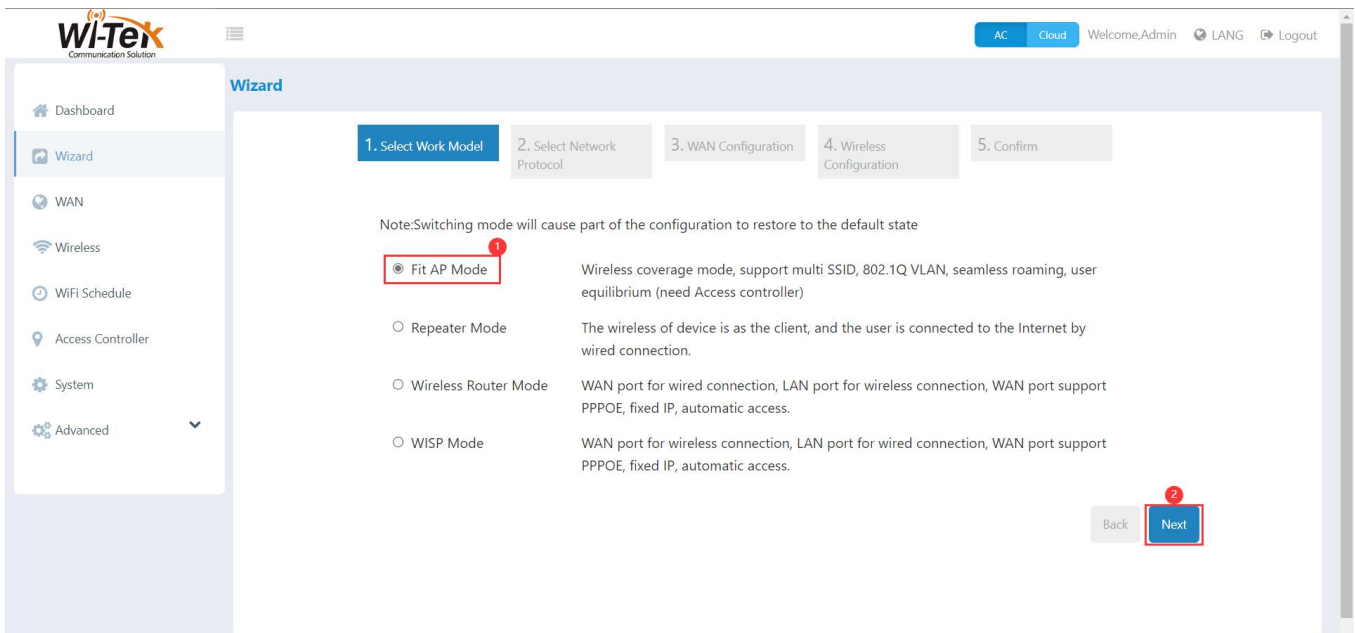
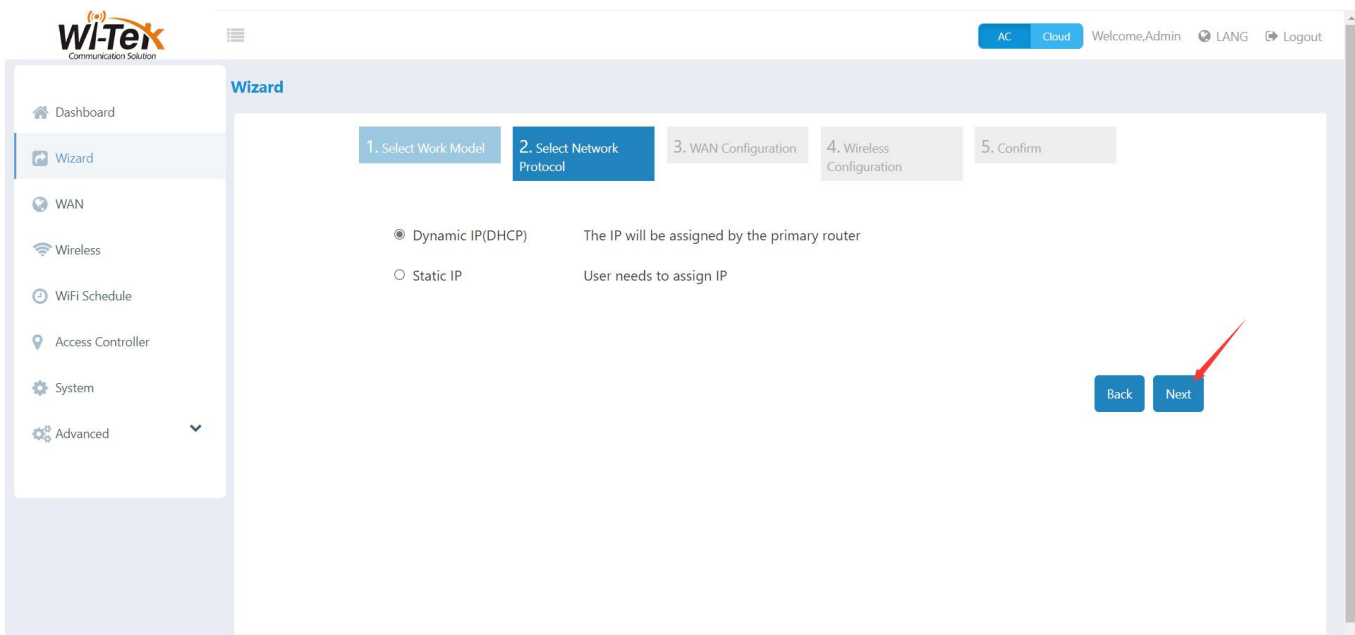


Parameter	Describe
Fit AP Mode	Wireless coverage mode, support multi SSID, 802.1Q VLAN, seamless roaming , user equilibrium (need Access controller).
Repeater Mode	The wireless of device is as the client, and the user is connected to the Internet by wired connection.
Wireless Router Mode	WAN port for wired connection, LAN port for wireless connection, WAN port support PPPOE, fixed IP, automatic access.
WISP Mode	WAN port for wireless connection, LAN port for wired connection, WAN port support PPPOE, fixed IP, automatic access.

Note: Switching mode will cause part of the configuration to restore to the default state.

4.1. Fit AP Mode

Wireless coverage mode, support multi SSID, 802.1Q VLAN, seamless roaming, user equilibrium (need Access controller)

Step 1 Go to Wizard and select Fit AP Mode.**Step 2** Select the type of connection network you want to configure, click the button to enter step 3.**Step 3** If you choose the Dynamic IP method, Customize DNS Server is optional.

If you choose static IP mode, the configuration Parameters are as follows. IP Address and Netmask are required, and others are optional.

The screenshot shows the Wi-Tek Cloud Access Point configuration wizard. The left sidebar contains a menu with options: Dashboard, Wizard (selected), WAN, Wireless, WiFi Schedule, Access Controller, System, and Advanced. The main area is titled 'Wizard' and shows a progress bar with five steps: 1. Select Work Model, 2. Select Network Protocol, 3. WAN Configuration (active), 4. Wireless Configuration, and 5. Confirm. Below the progress bar, the WAN Configuration form includes fields for IP Address (192.168.1.89), Netmask (255.255.255.0), Gateway (Gateway Address Required), Primary DNS Server (0.0.0.0), and Secondary DNS Server (0.0.0.0). At the bottom right, there are 'Back' and 'Next' buttons.

Step 4 Set the Wi-Fi name, choose a security encryption mode, and enter the password.

The screenshot shows the Wi-Tek Cloud Access Point configuration wizard, Step 4: Wireless Configuration. The left sidebar is the same as in Step 3. The main area is titled 'Wizard' and shows the progress bar with Step 4 (Wireless Configuration) active. The form includes fields for SSID (WI-TEK_2.4G_4035), Encryption (WPA2-AES), and Password (88888888). At the bottom right, there are 'Back' and 'Next' buttons.

Step 5 Finally, confirm the configuration information, and click the **Confirm** button after confirming that it is correct. If the configuration information is incorrect, click **Back** to return to the previous step to reconfigure.

Wizard

1. Select Work Model 2. Select Network Protocol 3. WAN Configuration 4. Wireless Configuration 5. Confirm

Working mode	Fit AP Mode
Protocol of WAN	dhcp
SSID	WI-TEK_2.4G_4035
Encryption	WPA2-AES
Password	88888888

Back Confirm

--END

4.2. Repeater Mode

The wireless of device is as the client, and the user is connected to the Internet by wired connection.

The example is as follows for other working modes to change to Repeater Mode working mode, and the steps for other working modes are roughly the same.

Step 1 Select Repeater Mode working mode.

Wizard

1. Select Work Model 2. Select Network Protocol 3. WAN Configuration 4. Wireless Configuration 5. Confirm

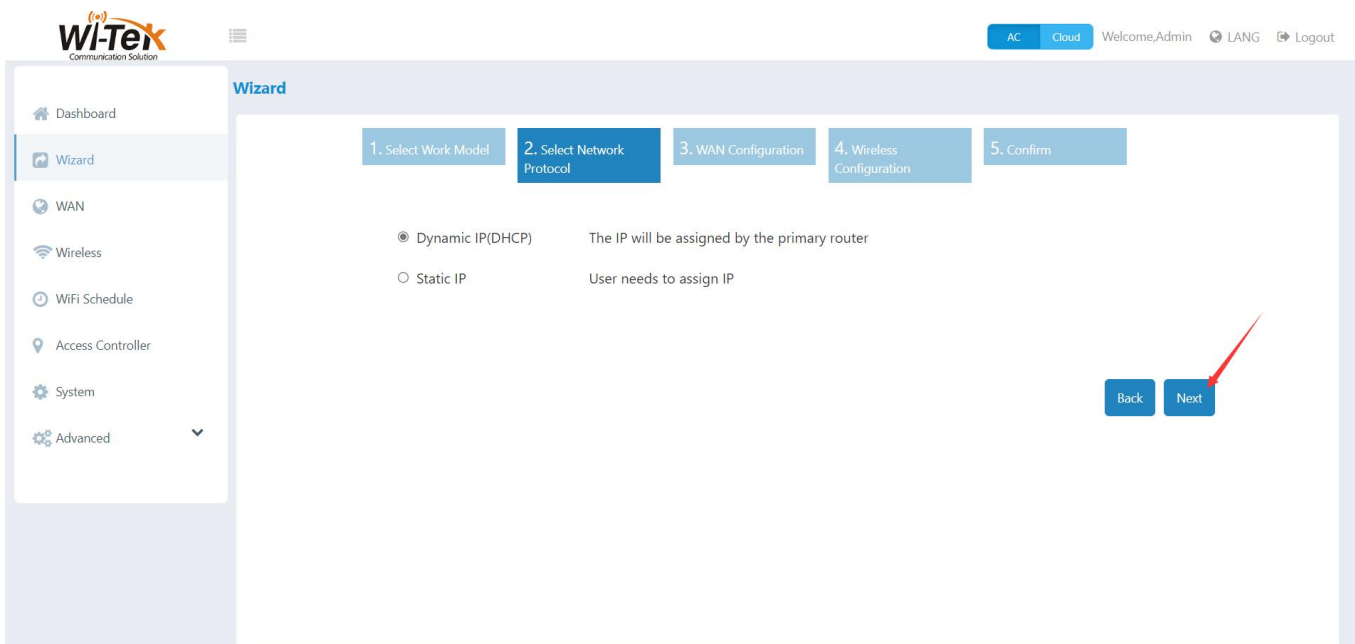
Note: Switching mode will cause part of the configuration to restore to the default state

- ☐ Fit AP Mode
Wireless coverage mode, support multi SSID, 802.1Q VLAN, seamless roaming, user equilibrium (need Access controller)
- ☒ **Repeater Mode** 1
The wireless of device is as the client, and the user is connected to the Internet by wired connection.
- ☐ Wireless Router Mode
WAN port for wired connection, LAN port for wireless connection, WAN port support PPPOE, fixed IP, automatic access.
- ☐ WISP Mode
WAN port for wireless connection, LAN port for wired connection, WAN port support PPPOE, fixed IP, automatic access.

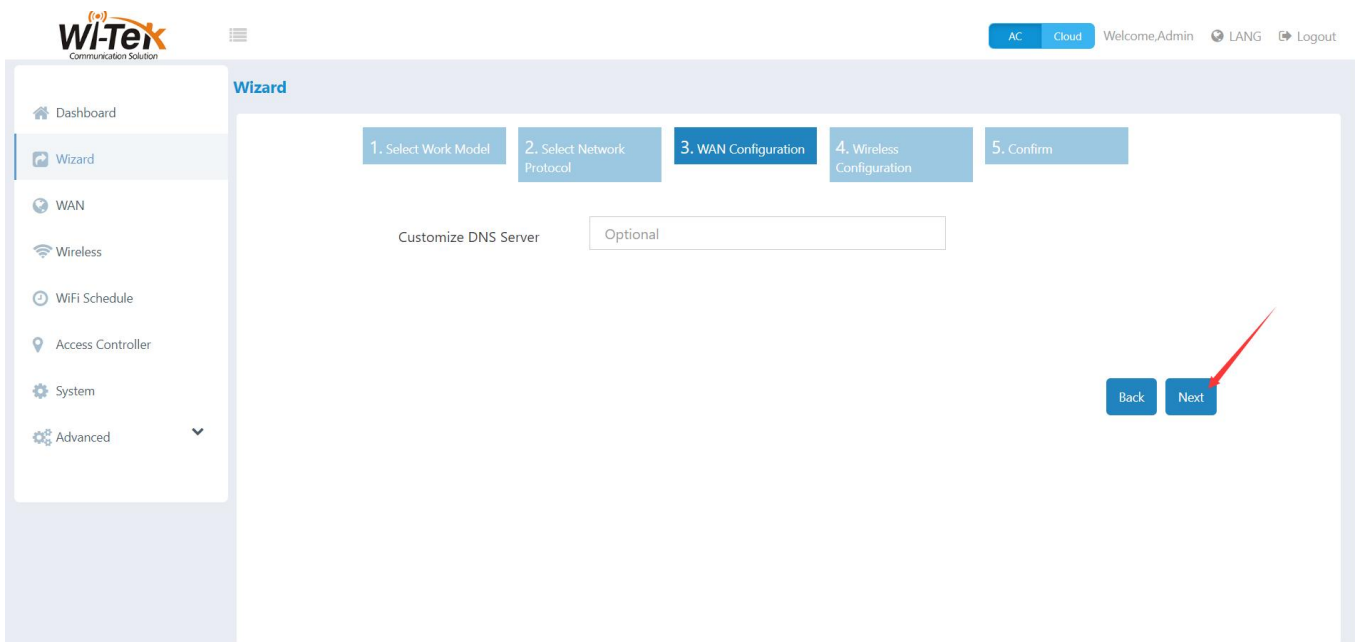
Back Next 2

Step 2 Select the type of connection network you want to configure, and click the Next

button to enter step 3.



Step 3 Configure Customize DNS Server optional.



Step 4 Click the **Start scan 2.4G** or **Start scan 5G** button to search for the upper-level wireless network, and select the upper-level network to connect. If not found Corresponding result Wi-Fi can click **Scan Again** to refresh again to query the superior wireless network list.

Scan Again					
Select	Signal	Channel	Wireless MAC	SSID	Encryption
☐	-40dBm	6	44:D1:FA:B2:62:93	WI-TEK-402	WPA2 PSK (CCMP)
☐	-2dBm	1	D2:24:2E:FE:E2:66	*Hidden*	WPA2 PSK (CCMP)
☐	-70dBm	1	F0:92:B4:80:C7:D1	ChinaNet-GCcm	mixed WPA/WPA2 PSK (TKIP)
☐	-83dBm	1	44:D1:FA:7A:11:3E	Wi-Tek-403	WPA2 PSK (TKIP)
☐	-49dBm	2	28:D1:27:D9:C5:71	Xiaomi_C570	mixed WPA/WPA2 PSK (TKIP)
☐	-63dBm	1	CC:24:2E:FE:E2:66	WI-TEK_E260	WPA2 PSK (CCMP)
☐	-84dBm	1	A0:63:91:B4:56:BA	NETGEAR61	WPA2 PSK (CCMP)

Step 5 Set the Wi-Fi name, choose a security encryption mode, and enter a password.

Step 6 Finally, confirm the configuration information, and click the **Confirm** button after confirming that it is correct. If the configuration information is incorrect, click **Back** to return to the previous step to reconfigure.

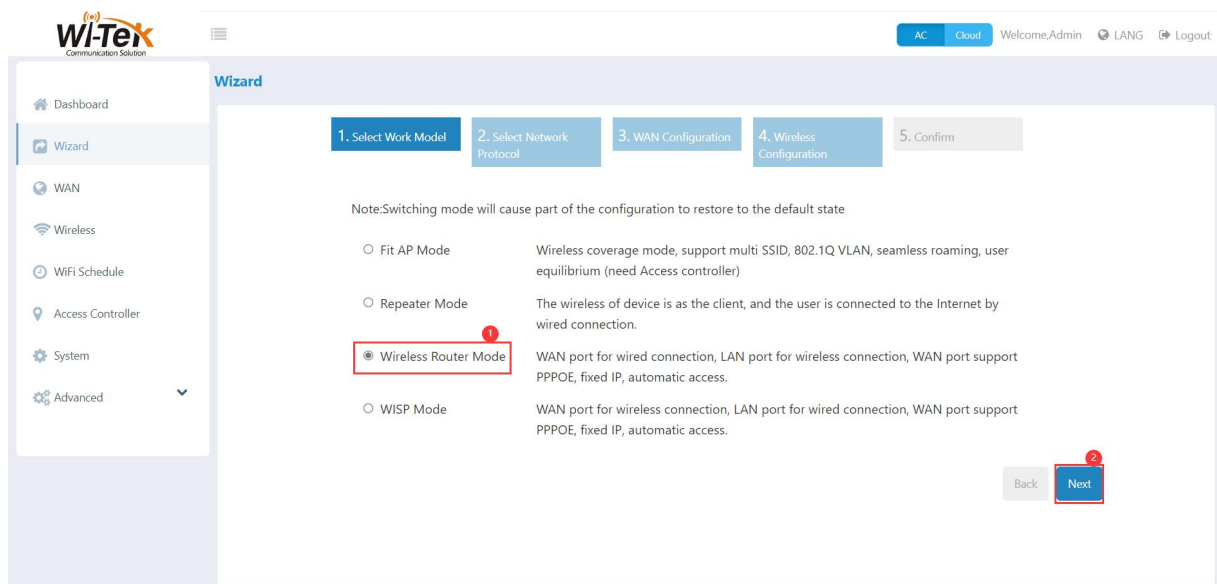
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4.3. Wireless Router Mode

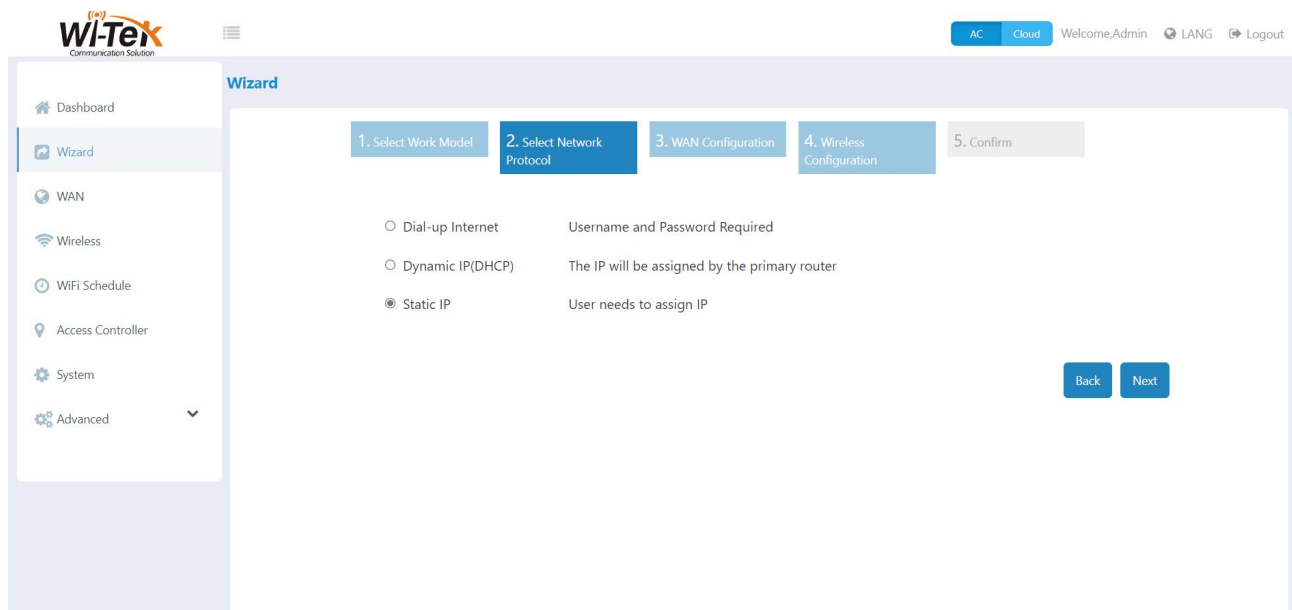
WAN port for wired connection, LAN port for wireless connection, WAN port support PPPoE, fixed IP, automatic access.

The default working mode of the AP is Fit AP Mode. An example of changing other working modes to Wireless Router Mode is as follows.

Step 1 Select the 'Wireless Router Mode' working mode.



Step 2 Select the type of connection network you want to configure, and click the **Next** button to enter step 3.



Step 3 If you choose the Dynamic IP method, Customize DNS Server is optional.

If you choose static IP mode, the configuration Parameters are as follows. IP Address and Netmask are required, and others are optional.

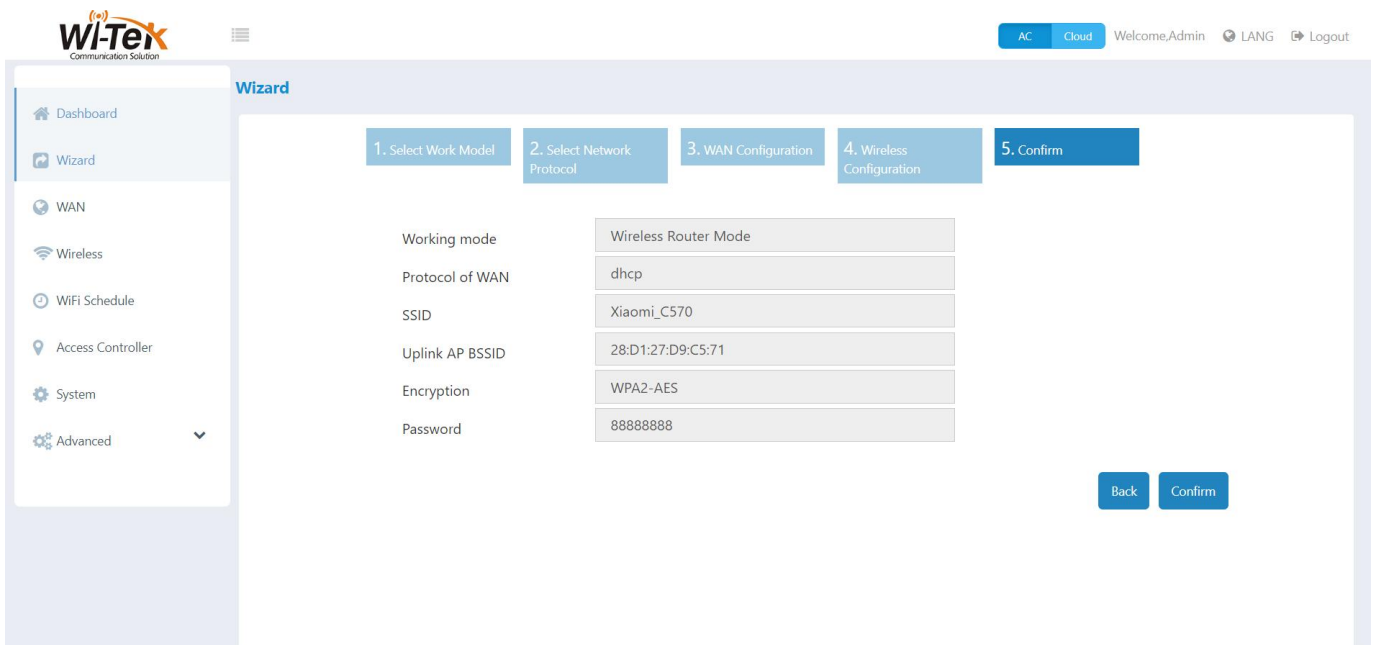
If you choose Dial-up Internet, you need to enter the account password provided by the operator.

The screenshot shows the 'Wizard' configuration page for a Wi-Tek Cloud Access Point. The left sidebar contains navigation links: Dashboard, Wizard (selected), WAN, Wireless, WiFi Schedule, Access Controller, System, and Advanced. The top right shows 'AC' and 'Cloud' tabs, and a user status 'Welcome, Admin' with 'LANG' and 'Logout' links. The main content area is titled 'Wizard' and displays a progress bar with five steps. Step 3, 'WAN Configuration', is the active step. Below the progress bar, there are two input fields: 'PPPoE Username' and 'Password'. Both fields have placeholder text indicating they are required. At the bottom right of the form, there are 'Back' and 'Next' buttons.

Step 4 Set the Wi-Fi name, choose a security encryption mode, and enter the password.

The screenshot shows the 'Wizard' configuration page for a Wi-Tek Cloud Access Point. The left sidebar contains navigation links: Dashboard, Wizard (selected), WAN, Wireless, WiFi Schedule, Access Controller, System, and Advanced. The top right shows 'AC' and 'Cloud' tabs, and a user status 'Welcome, Admin' with 'LANG' and 'Logout' links. The main content area is titled 'Wizard' and displays a progress bar with five steps. Step 4, 'Wireless Configuration', is the active step. Below the progress bar, there are three input fields: 'SSID' with the value 'WI-TEK_2.4G_4035', 'Encryption' with a dropdown menu showing 'WPA2-AES', and 'Password' with the value '88888888'. At the bottom right of the form, there are 'Back' and 'Next' buttons.

Step 5 Finally, confirm the configuration information, and click the **Confirm** button after confirming that it is correct. If the configuration information is incorrect, click **Back** to return to the previous step to reconfigure.



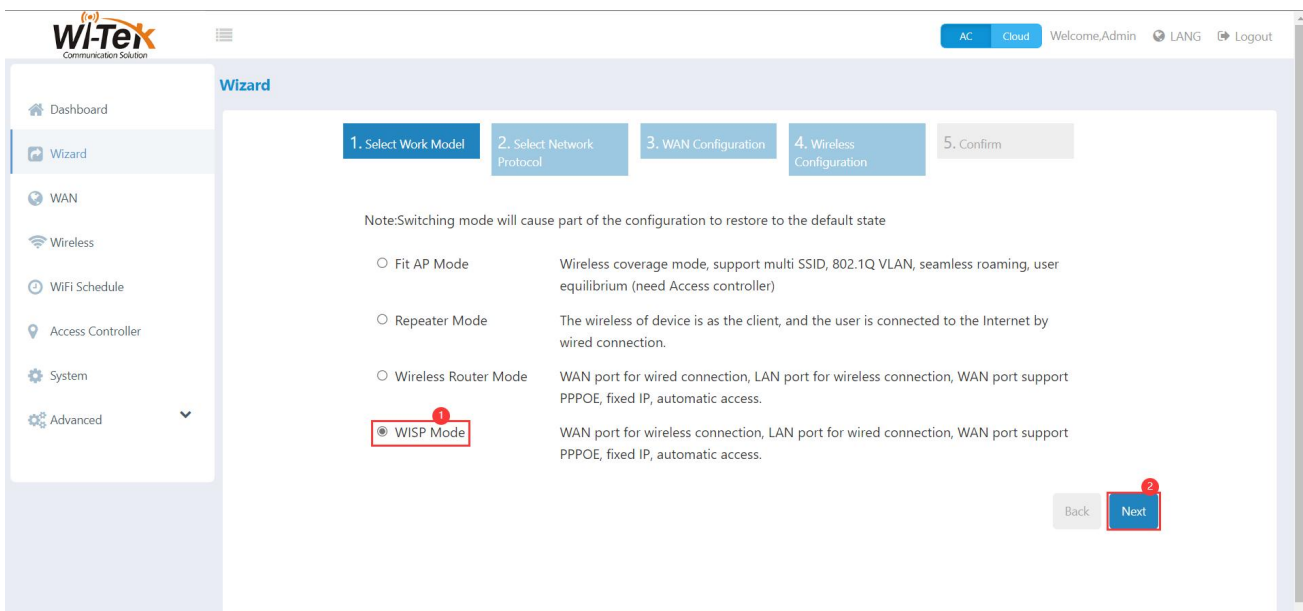
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4.4. WISP Mode

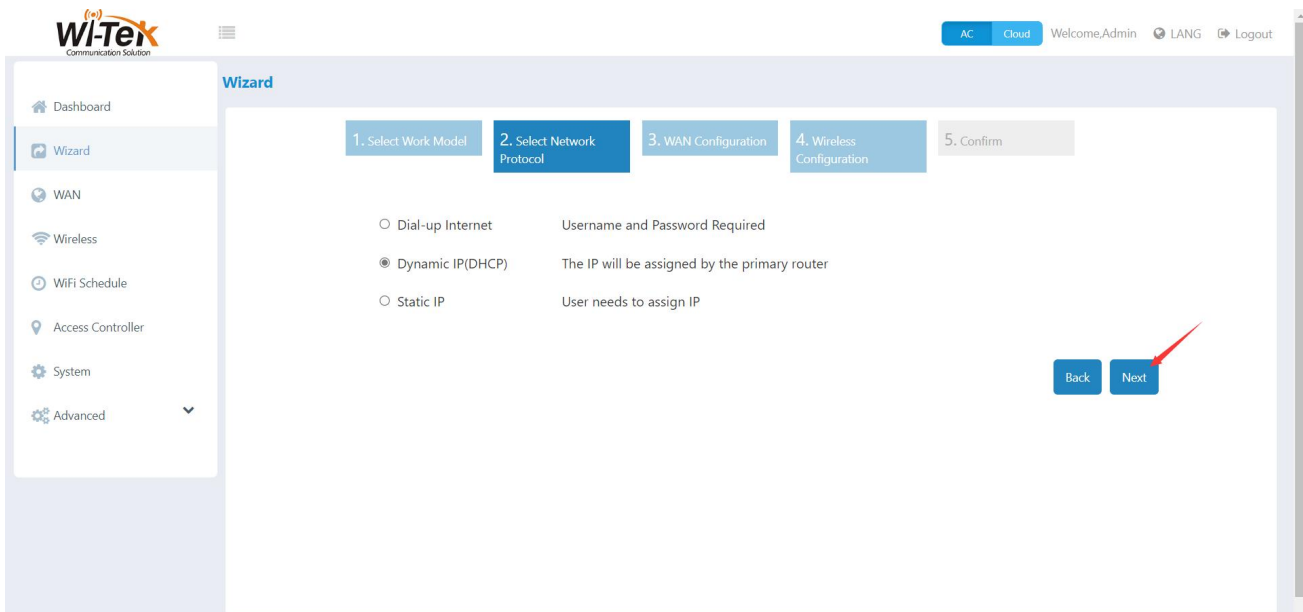
WAN port for wireless connection, LAN port for wired connection, WAN port support PPPoE, fixed IP, automatic access.

Example AP default working mode is Fit AP Mode and changed to WISP Mode working mode.

Step 1 Select '**WISP Mode**' working mode.



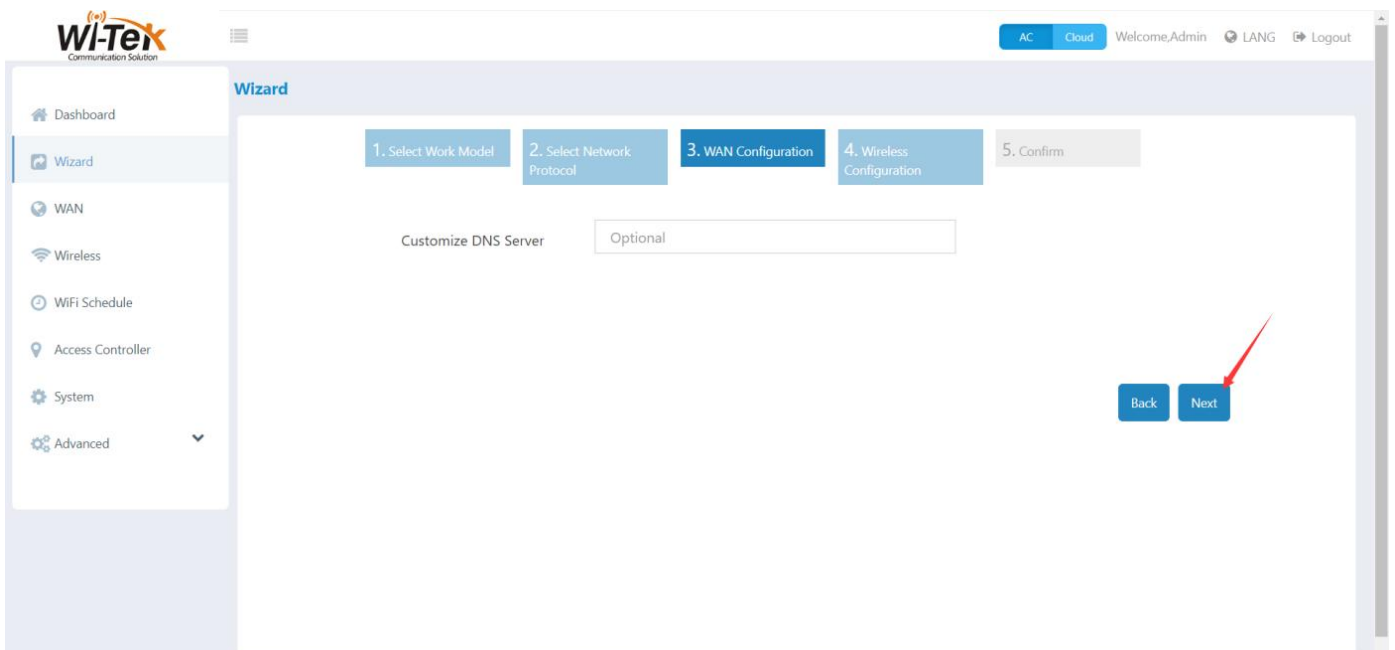
Step 2 Select the type of connection network you want to configure, click the **Next** button to enter step 3.



Step 3 If you choose the Dynamic IP method , Customize DNS Server is optional.

If you choose static IP mode, the configuration Parameters are as follows. IP Address and Netmask are required, and others are optional.

If you choose Dial-up Internet, you need to enter the account password provided by the operator.



Step 4 Click the **Start scan 2.4G** or **Start scan 5G** button to search for the upper level wireless network, and select the upper-level network to connect. If not found Corresponding result WiFi can click **Scan Again** to refresh again to query the superior wireless network list.

Scan Again					
Select	Signal	Channel	Wireless MAC	SSID	Encryption
☐	-85dBm	36	A0:63:91:B4:56:BC	NETGEAR61-5G	WPA2 PSK (CCMP)
☐	-37dBm	52	44:D1:FA:B2:62:94	WI-TEK-402	WPA2 PSK (CCMP)
☐	-61dBm	36	76:D6:C8:65:02:CF	*Hidden*	WPA2 PSK (CCMP)
☐	-61dBm	36	76:D6:C8:65:02:CF	TRF-5G	mixed WPA/WPA2 PSK (TKIP)
☐	-82dBm	36	D8:A8:C8:E7:D5:59	ChinaNet-xSq6-5G	mixed WPA/WPA2 PSK (TKIP)
☐	-89dBm	40	96:F7:B2:6A:5C:0A	*Hidden*	WPA2 PSK (CCMP)
☐	-88dBm	40	90:F7:B2:6A:5C:0A	308_5G	WPA2 PSK (CCMP)

Step 5 Set the Wi-Fi name, choose a security encryption mode, and enter a password.

The screenshot shows the 'Wizard' configuration interface for a Wi-Tek Cloud Access Point. The left sidebar contains navigation links: Dashboard, Wizard (selected), WAN, Wireless, WiFi Schedule, Access Controller, System, and Advanced. The main area is titled 'Wizard' and shows a progress bar with five steps: 1. Select Work Model, 2. Select Network Protocol, 3. WAN Configuration, 4. Wireless Configuration (current step), and 5. Confirm. Below the progress bar, there are two green buttons: 'Start scan 2.4G' and 'Start scan 5G'. A note states: 'Note:1.It is possible that the wireless signals of some channels cannot be scanned because of national geographic restrictions.2.There may be a disconnect during the scan.' The configuration fields are as follows:

Superior Network	Start scan 2.4G Start scan 5G
SSID	WI-TEK_2.4G_4035
Superior BSSID	Optionally,the input is bound to the specified parent
Encryption	WPA2-AES
Password	88888888

At the bottom right, there are 'Back' and 'Next' buttons.

Step 6 Finally, confirm the configuration information, and click the **Confirm** button after confirming that it is correct. If the configuration information is incorrect, click **Back** to return to the previous step to reconfigure.

The screenshot shows the 'Wizard' configuration interface for a Wi-Tek Cloud Access Point, Step 5: Confirm. The left sidebar is the same as in Step 4. The main area shows the progress bar with five steps: 1. Select Work Model, 2. Select Network Protocol, 3. WAN Configuration, 4. Wireless Configuration, and 5. Confirm (current step). The configuration fields are as follows:

Working mode	WISP Mode
Protocol of WAN	dhcp
SSID	Xiaomi_C570
Uplink AP BSSID	28:D1:27:D9:C5:71
Encryption	WPA2-AES
Password	88888888

At the bottom right, there are 'Back' and 'Confirm' buttons.

--END

5. WAN

How to set up the AP to access the Internet (there are three ways to access the Internet)
Enter the configuration page by clicking 'WAN' in the primary navigation bar.

PPPoE

Dynamic IP

Static IP

Username and Password Required

PPPoE Username

PPPoE Username Required

Password

Password Required

Dial

PPPoE

Dynamic IP

Static IP

The IP will be assigned by the primary router

Customize DNS Server

Optional

Save/Apply

PPPoE

Dynamic IP

Static IP

User needs to assign IP

IP Address

IP Required

Netmask

Netmask Required

Gateway

Gateway Address Required

Primary DNS Server

0.0.0.0

Secondary DNS Server

0.0.0.0

Save/Apply

Parameter	Describe
PPPoE	Enter the broadband account and password obtained from the ISP.
Dynamic IP(DHCP)	Connecting the AP to the router (with DHCP server) will automatically obtain the IP address, subnet mask, gateway, and other information.
Static IP	Enter the correct information such as static IP, subnet mask, gateway, DNS, etc. obtained from the upstream network.

6. Wireless

Make wireless settings for the AP.

Click "Wireless" in the first-level navigation bar to enter the page to configure AP wireless Parameters .

Parameter	Describe
Enable Wireless	Check this option to disable the wireless. If checked, the wireless radio will disable.
Hide SSID	Check this option to hide the SSID from clients. If checked, the SSID will not appear in the site survey.
SSID	Specify a name for the wireless network.
Encryption	Select the Encryption mode of the wireless network. There are five options: WPA-TKIP, WPA2-AES, WPA1/WPA2-Mixed, WPA-Enterprise and WPA2-Enterprise. The latest WPA2-AES mode is recommended. None: Clients can access the wireless network without authentication.
Password	Specify password for SSID.

7. Wi-Fi Schedule

With the Wi-Fi Scheduler feature, the wireless network can automatically turn on or off at the time you set.

The screenshot shows the Wi-Fi Schedule configuration page. On the left is a sidebar menu with options: Dashboard, Wizard, WAN, Wireless, WiFi Schedule (selected), Access Controller, System, and Advanced. The main content area is titled 'WiFi Schedule'. It features a toggle switch for 'WiFi Schedule' which is currently turned off. Below the toggle is a 'Repeat' section with a row of buttons for the days of the week: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and Sunday. The 'Start Time' is set to 06:00 and the 'Stop Time' is set to 22:00. A blue 'Save/Apply' button is located at the bottom of the configuration area.

Parameter	Describe
WiFi Schedule	Enable or disable Wi-Fi schedule.
Repeat	Specify rule Repeat.
Start Time	Specify rule start time.
Stop Time	Specify rule stop time.

8. Access Controller

Perform centralized parameter management and configuration on the AC bound to the AP. By clicking the first-level navigation bar 'Access Controller' to enter the page to configure.

The screenshot shows the 'Access Controller' configuration page in the Wi-Tek Cloud interface. The left sidebar contains navigation options: Dashboard, Wizard, WAN, Wireless, WiFi Schedule, Access Controller (selected), System, and Advanced. The main content area has a title 'Access Controller' and a toggle switch for 'Get AC Address From DHCP Server', which is currently enabled. Below the toggle, there are four input fields: 'Vendor ID', 'Product Name' (pre-filled with 'WI-TEK-AP'), and 'AC Address'. A 'Save/Apply' button is at the bottom. A note states: 'Note: when enabled, Will obtain and configure the AC address through DHCP option 43'. Another note for the Vendor ID field says: 'Vendor ID, Used for DHCP service to identify Different Type of Device, optional by default'. A third note for the AC Address field says: 'Domain or Address of AC'.

Parameter	Describe
Get AC Address Form DHCP Server	Enable or disable the function of automatically obtaining AC address.
Vendor ID	Enter the unique ID generated by the cloud1.0 account.
Product Name	Enter the host name of the device.
AC Address	Enter the IP address of AC. Note: By default, there is no need to fill in the AC address manually.

9. System

Manage and configure system parameters for APs.

Enter the page configuration by clicking "System" in the first-level navigation bar.

System

Change Password

Old Password	Old Password Required
New Password	New Password Required
Confirm New Password	Confirm Your New Password
Save/Apply	

WiFi Signal Intension Mode

WiFi Signal Mode:

System Upgrade

Firmware Upgrade:

Current Version: v4.3.build20211222-1508-1cb284e

Config:

After the configuration is restored, it is necessary to restart the device manually to take effect.

Reboot:

9.1. Change Password

Change Password

Old Password	Old Password Required
New Password	New Password Required
Confirm New Password	Confirm Your New Password
Save/Apply	

Parameter	Describe
Old Password	Specify to enter the old password.
New Password	Specify to enter a new password.
Confirm New Password	Specify and then confirm the new password.

9.2. Wi-Fi Signal Intension Mode

On this page, you can quickly modify the wireless transmission power.

WiFi Signal Intension Mode

WiFi Signal Mode

Low Middle High

Parameter	Describe
Low	Represents 50% of the transmission power.
Middle	Represents 70% of the transmission power.
High	Represents 100% of the transmission power

9.3. System Upgrade

System Upgrade

Firmware Upgrade

Select

Check Upgrade

Current Version: v4.3.build20220607-1508-c1a21ba

Config

Save Config

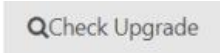
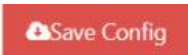
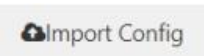
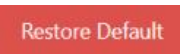
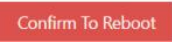
Import Config

Restore Default

After the configuration is restored, it is necessary to restart the device manually to take effect.

Reboot

Confirm To Reboot

Parameter	Describe
Select	Click  to upload the firmware upgrade version. * During the restoring process, do not power off or reset the router.
Check Upgrade	Click  to check for updates online.
Save Config	Click  to save a copy of the current settings in your local computer.
Import Config	Click  to locate the backup configuration file stored in your computer.
Restore Default	Click  to reset all settings to the default values.
Reboot	Click  to reboot the device.

10. Advanced

10.1. DHCP Server

By default, DHCP server is disabled and acts as DHCP server in wireless router and wisp mode. Enable it can dynamically assign IP parameters to client devices from the IP address pool.

The screenshot shows the Wi-Tek Cloud Access Point web interface. The top navigation bar includes 'AC' and 'Cloud' tabs, and a user status area with 'Welcome,Admin', 'LANG', and 'Logout'. The left sidebar menu is expanded to 'Advanced', which contains 'DHCP Server', 'Multiple SSID', 'RF Parameter', 'PING-WatchDog', and 'Scheduled Reboot'. The main content area is titled 'DHCP Server' and contains the following configuration options:

- Enable DHCP Server:** A toggle switch currently set to 'Off'.
- DHCP Pool Start:** An input field with the value '100'.
- DHCP Pool Size:** An input field with the value '150'.
- DHCP Lease Time:** An input field with the value '60'. Below it, the text 'Lease Time:Minute' is displayed.
- Primary DNS Server:** An input field with the value '0.0.0.0'.
- Secondary DNS Server:** An input field with the value '0.0.0.0'.
- Save/Apply:** A blue button at the bottom of the configuration area.

Parameter	Describe
Enable DHCP Sever	Enable or disable the DHCP server.It is disabled by default.
DHCP Pool Start	Specify an IP address for the DHCP Server to start with when assigning IP addresses.
DHCP Pool Size	Specify the range of IP addresses assigned by DHCP server.
DHCP Lease Time	Specify the lease time of the IP address assigned to the user.When time is up, the router will automatically assign the same IP address to the user.The default value is 60.
Primary DNS Server	It is recommended to use the IP address of the LAN port of the AP.
Secondary DNS Server	Input the IP address of another DNS server if your ISP provides DNS servers.

10.2. Multiple SSID

In this part, SSID can be added and deleted. Each RF can create up to 4 SSIDs.

Go to **Advanced > Multiple SSID** page. You can click **Add** button to add the SSID in the list. And you can click **Delete** button to delete the SSID in the list.

Note: Create up to 8 SSIDs per radio, Therefore, a single-band AP can create a maximum of 8 SSIDs, and a dual-band AP can create a maximum of 16 SSIDs.

The screenshot shows the Wi-Tek Cloud Access Point web interface. The top navigation bar includes links for AC, Cloud, Welcome Admin, LANG, and Logout. The sidebar menu on the left lists various configuration options: Dashboard, Wizard, WAN, Wireless, WiFi Schedule, Access Controller, System, and Advanced. The Advanced menu is expanded, showing DHCP Server, Multiple SSID (selected), RF Parameter, and PING-WatchDog.

The main content area is titled "Multiple SSID" and contains a section for "Add Wireless Signal". This section includes a table of existing SSIDs and a modal form for adding new ones.

SSID	Encryption	Password	SSID Hide	Network	VLAN	Operation
Wi-Tek-403	WPA/WPA2-Mixed	witek12345678	No	2.4G	Default VLAN	Delete
Wi-Tek-403_5G	WPA/WPA2-Mixed	witek12345678	No	5G	Default VLAN	Delete

The modal form titled "Please Enter new wireless information" contains the following fields:

- Network: 2.4G
- SSID: SSID Required
- Encryption: OPEN
- Hide SSID: NO
- VLAN Bind: 0

A note below the VLAN Bind field states: "0 means to add to the default VLAN". The modal form has "Cancel" and "Submit" buttons.

10.3. RF Parameter

The screenshot shows the 'Radio' configuration page in the Wi-Tek Cloud Access Point web interface. The left sidebar contains navigation links: Dashboard, Wizard, WAN, Wireless, WiFi Schedule, Access Controller, System, and Advanced. The 'Advanced' section is expanded, showing sub-options: DHCP Server, Multiple SSID, RF Parameter (selected), PING-WatchDog, Scheduled Reboot, System Time, and Diagnosis.

The 'Radio' configuration page includes the following parameters:

- Country:** United States (dropdown menu). Note: Switching national regions can affect the available channels, and you may not be able to connect wifi if it is different from the higher-level network channel in the sta mode.
- Enable WMM:** Enabled (toggle switch).
- Enable FILS:** Enabled (toggle switch). Note: Supporting fast initial link setup features, you can choose to turn off for old devices that are not supported.
- User Isolation:** Disabled (toggle switch).
- Max Associated STA:** 128 (text input).
- Beacon Interval:** 128 (text input). Unit: ms.
- RTS/CTS Threshold:** 2347 (text input). Unit: bytes, default: 2347.
- Weak Signal Rejection Threshold:** -95 (text input). Unit: dBm, Suggested value: -85, Max: -65, Min: -95.
- 2.4G Channel:** AUTO (dropdown menu). Note: Channel for receiving station mode is controlled by superior base station.
- 2.4G Bandwidth:** HT20 (selected), HT40, AUTO (radio buttons).
- 2.4G TxPower:** AUTO (dropdown menu). Unit of Power: dBm.
- 5G Channel:** AUTO (dropdown menu). Note: Channel for receiving station mode is controlled by superior base station.
- 5G Bandwidth:** HT20, HT40, HT80 (selected), AUTO (radio buttons).
- 5G TxPower:** AUTO (dropdown menu). Unit of Power: dBm.

A 'Save/Apply' button is located at the bottom right of the configuration area.

Parameter	Describe
Country	Select the corresponding country from the drop-down menu.
WMM	With WMM enabled, the AP uses the QoS function to guarantee the high priority of the transmission of audio and video packets.
FILS	Supporting fast initial link setup features, you can choose to turn off for old devices that are not supported.
User Isolation	With this function enabled, the device isolates all the connected clients within the same wireless network from each other.
Max Associated STA	Recommended value for the maximum number of wireless clients. Note: If it is set to 30, there are 31 actual wireless clients, then there will be 1 client that cannot connect to the SSID.
Beacon Interval	Beacons are transmitted periodically by the AP to announce the presence of a wireless network for the clients. Beacon Interval determines the time interval of the beacons sent by the AP. The default is 128ms.

RTS/CTS Threshold	RTS/CTS (Request to Send/Clear to Send) is used to improve the data transmission efficiency of the network with hidden nodes, especially when there are lots of large packets to be transmitted. When the size of a data packet is larger than the RTS Threshold, the RTS/CTS mechanism will be activated. With this mechanism activated, before sending a data packet, the client will send an RTS packet to the EAP to request data transmitting. And then the AP will send CTS packet to inform other clients to delay their data transmitting. In this way, packet collisions can be avoided. For a busy network with hidden nodes, a low threshold value will help reduce interference and packet collisions. But for a not-so-busy network, a too low threshold value will cause bandwidth wasting and reduce the data throughput. The recommended and default value is 2347 bytes.
Weak Signal Rejection Threshold	minimum signal level required for a client to remain connected.
Channel	Select the channel used by the AP. For example, 1/2412MHz means that the channel is 1 and the frequency is 2412MHz. By default, the channel is automatically selected, and we recommend that you keep the default setting.
Bandwidth	Select the channel width of the AP. For AP of different specifications, there is different bandwidth. Its available options include 20MHz, 40MHz, 80MHz, and Auto. Note: The greater the bandwidth, the greater the throughput, and the shorter the transmission distance, the more susceptible to interference.
Tx Power	Specify the transmit power value. If this value is set to be larger than the maximum transmitted power that is allowed, the regulated maximum transmit power will be applied. Note: In most cases, it is unnecessary to use the maximum transmit power. Specifying a larger transmit power than needed may cause interference to the neighborhood.

10.4. Ping Watchdog

Ping Watchdog allows the access point to continuously ping a specific remote host for connection status using a user-defined IP address (or an internet gateway). If it is unable to ping the target IP address under the user-defined constraints, the device will automatically reboot.

The screenshot shows the 'PING-WatchDog' configuration page in the Wi-Tek Cloud Access Point web interface. The page has a sidebar on the left with navigation links: Dashboard, Wizard, WAN, Wireless, WiFi Schedule, Access Controller, System, and Advanced. The 'Advanced' section is expanded, showing sub-options: DHCP Server, Multiple SSID, RF Parameter, PING-WatchDog (selected), and Scheduled Reboot. The main content area is titled 'PING-WatchDog' and contains the following configuration fields:

- Enable Ping Watchdog:** A toggle switch.
- Address:** A text input field with a placeholder 'IP or Domain'.
- Checking Interval:** A text input field with a placeholder 'Interval, unit:sec, Suggested value :60'.
- Number of Failure:** A text input field with a placeholder 'Selected action initiated after number of failures indicated. Suggested value 3'.
- Ping Timeout:** A text input field with a placeholder 'Ping Timeout, Suggested value:2'.
- Action:** A row of buttons: Reboot, Close wireless, Restart Network, Enable Rescue SSID, and NO Action (highlighted in green).

Below the Action buttons, there is a note: 'If the monitored address can not be pinged, the corresponding action will be performed. RESCUE SSID format :RESCUE 99 XXXX, RESCUE password: 99999999.' and a 'Save/Apply' button.

Parameter	Describe
Enable Ping Watchdog	Click the button to enable or disable.
Address	Specify the reachable IP address or domain name
Checking Interval	Specify the time interval between two continuous ping packets.
Number of Failure	Specify the number of failed Ping packets.
Ping Timeout	Specify the times of Ping timeout. The recommended value is 2.
Action	After the above conditions are met, the following actions are performed. * Reboot *Close wireless

*Restart Network *Enable Rescue SSID *NO Action

10.5. Scheduled Reboot

Configure the parameters of the scheduled restart plan for the AP.

Go to Advanced > Scheduled Reboot in the secondary navigation bar to enter the page to configure the parameters for the scheduled restart of the AP.

Every Day:

Scheduled Reboot

Scheduled Reboot ☒

Reboot Cycle Every Day

Reboot Time 00:00

Save/Apply

Every Week:

Scheduled Reboot

Scheduled Reboot ☒

Reboot Cycle Every Week

Date Select Sunday

Reboot Time 00:00

Save/Apply

Every Month:

Scheduled Reboot

Scheduled Reboot ☒

Reboot Cycle Every Month

Date Select 1

Reboot Time 00:00

Save/Apply

Parameter	Describe
Scheduled Reboot	Click the button to enable or disable.
Reboot Cycle	Specify the reachable IP address or domain name *Every Day/ Every Week/Every Month
Date Select	Specify the date of scheduled reboot.
Reboot Time	Specify the time point for scheduled reboot.

10.6. Time Manager

This page allows you to set the time manually or to configure automatic time synchronization. The AP can automatically update the time from an NTP server via the Internet.

Go to Advanced>System Time page, to configure the system time parameters of the AP.

Dashboard
Wizard
WAN
Wireless
WiFi Schedule
Access Controller
System
Advanced
> DHCP Server
> Multiple SSID
> RF Parameter
> PING-WatchDog
> Scheduled Reboot
> System Time

Time Manager

Enable NTP ☒

Time Zone Asia/Shanghai

System Time 1970-01-03 07:45:26

NTP Server 0.pool.ntp.org

NTP Server 1.pool.ntp.org

NTP Server 2.pool.ntp.org

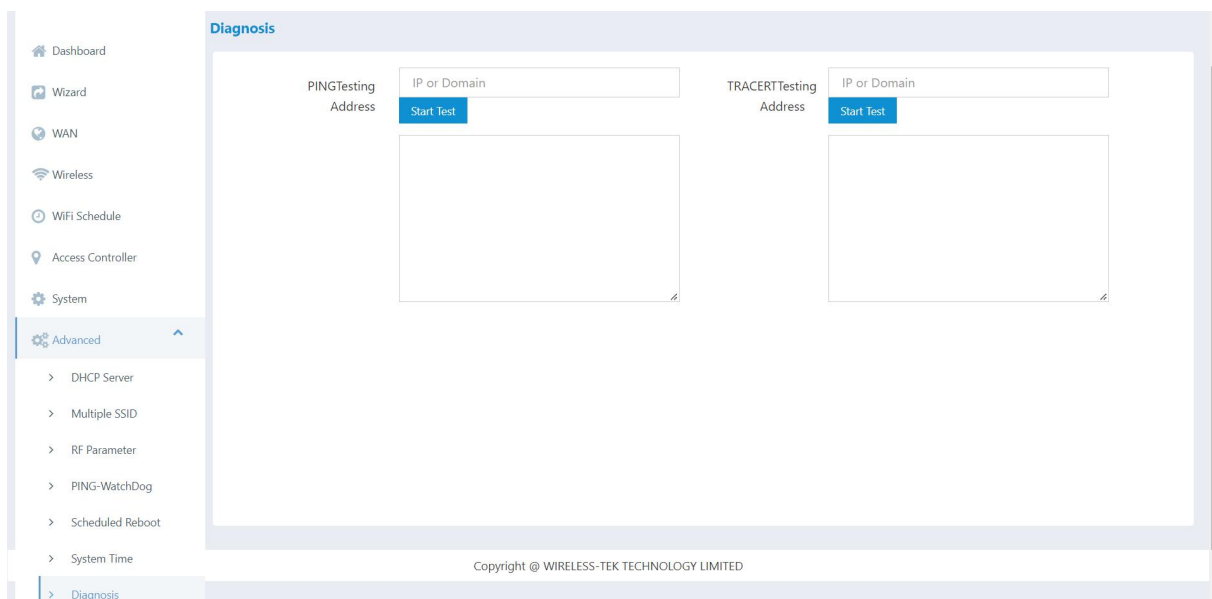
Save/Apply

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Parameter	Describe
Enable NTP	Enable or disable NTP function.
Time Zone	Select your local time zone from this pull down list.
System Time	Specify the time interval between two continuous ping packets.
NTP Server	Specify the number of failed Ping packets.

10.7. Diagnosis

Go to Advanced>Diagnosis page, and then you can transact Ping or Traceroute function to check connectivity of your network in the following page.



Parameter	Describe
Ping Testing Address	Specify the IP or domain name of the reachable network. * This diagnostic tool troubleshoots connectivity, reachability, and name resolution to a given host or gateway.
TRACERT Testing Address	Specify the IP or domain name of the reachable network. * This diagnostic tool tests the performance of a connection.