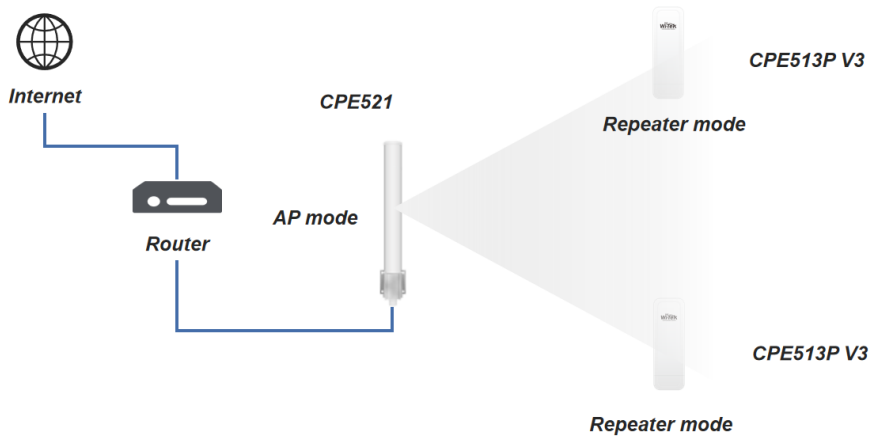


## How to configure PTP or PTMP in different CPE models.

Take CPE521 V1 and CPE513p V3 as examples.



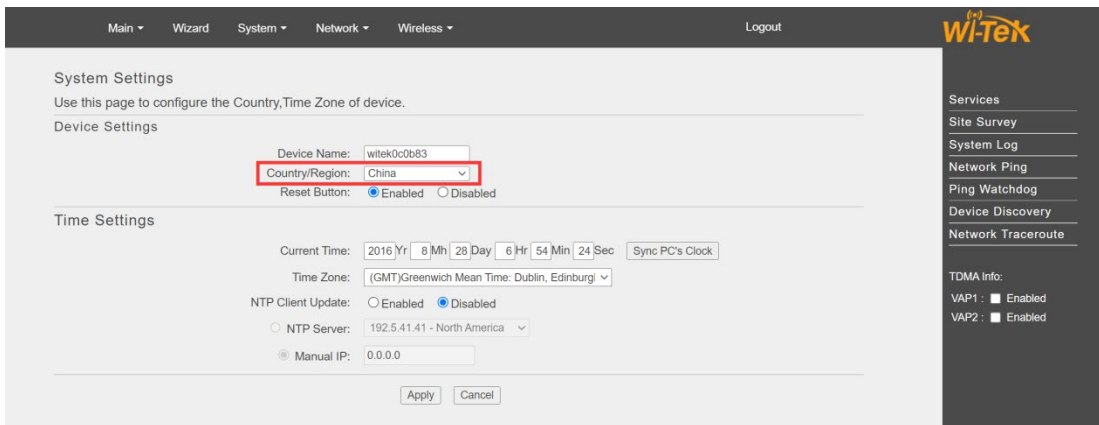
### Configure AP mode on CPE521.

1. Open the browser and enter the default IP address **192.168.1.88** and the default password **admin** to log in to the device.



The screenshot shows the login interface for the Wi-Tek device. At the top left is the Wi-Tek logo with the tagline 'Communication Solution'. Below the logo are three input fields: 'Username:', 'Password:', and 'Language: English' with a dropdown arrow. At the bottom of the form are two buttons: 'Login' and 'Reset'. Below the buttons is the website address 'www.wireless-tek.com'.

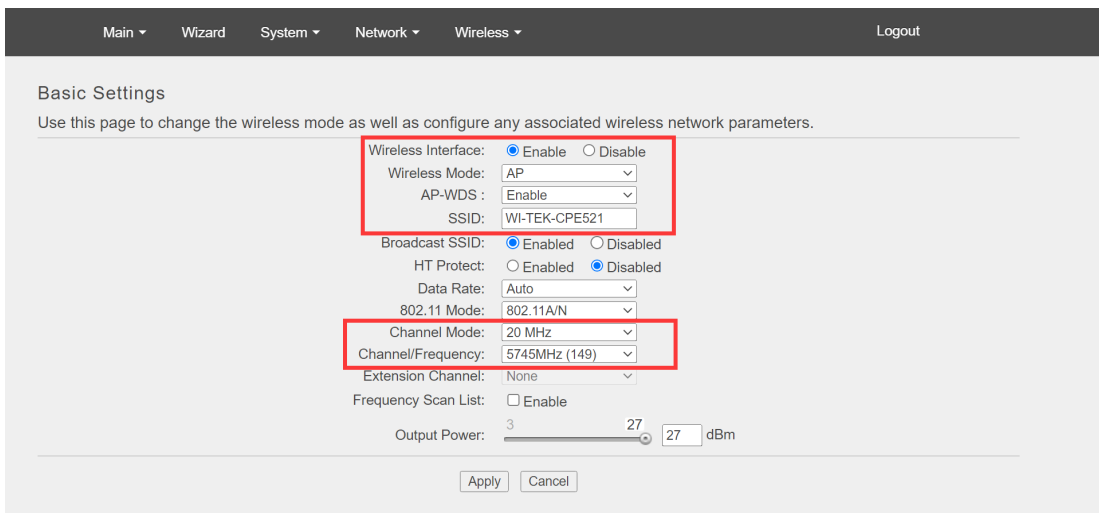
2. Go to **System>System Settings** page, Select the country code in the country option.



The screenshot shows the 'System Settings' page. Under 'Device Settings', the 'Country/Region' dropdown is set to 'China'. Under 'Time Settings', the 'Current Time' is 2016 Yr, 8 Mh, 28 Day, 6 Hr, 54 Min, 24 Sec. The 'Time Zone' is '(GMT)Greenwich Mean Time: Dublin, Edinburgh'. 'NTP Client Update' is set to 'Disabled'. 'NTP Server' is '192.5.41.41 - North America'. 'Manual IP' is '0.0.0.0'. There are 'Apply' and 'Cancel' buttons at the bottom.

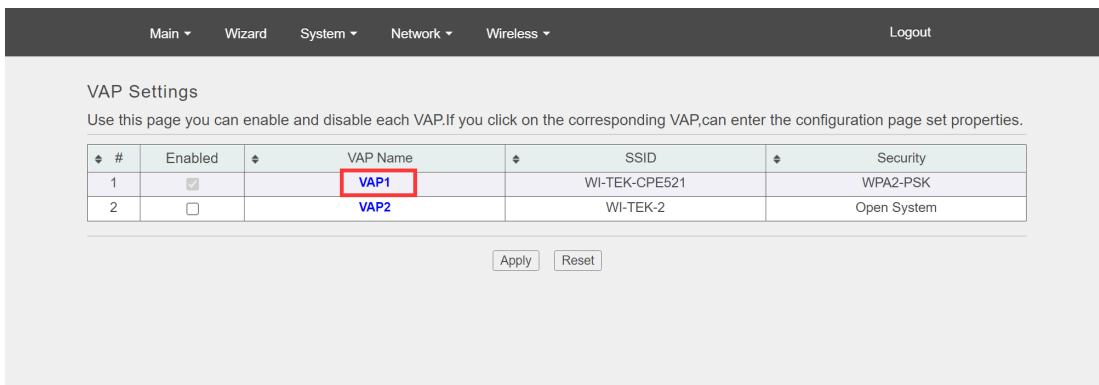
3. Go to Wireless > Basic Settings page, You can set wireless parameters as follows, then click Apply.

- Wireless Interface: Enable
- Wireless Mode:AP
- AP-WDS:Enable
- SSID:WI-TEK-CPE521
- Channel Mode: 20MHz
- Channel/Frequency: 5745MHz



The screenshot shows the 'Basic Settings' page for wireless configuration. 'Wireless Interface' is 'Enable'. 'Wireless Mode' is 'AP'. 'AP-WDS' is 'Enable'. 'SSID' is 'WI-TEK-CPE521'. 'Broadcast SSID' is 'Enabled'. 'HT Protect' is 'Disabled'. 'Data Rate' is 'Auto'. '802.11 Mode' is '802.11A/N'. 'Channel Mode' is '20 MHz'. 'Channel/Frequency' is '5745MHz (149)'. 'Extension Channel' is 'None'. 'Frequency Scan List' is 'Enable'. 'Output Power' is set to 27 dBm. There are 'Apply' and 'Cancel' buttons at the bottom.

4. Go to Wireless >VAP Settings page, Click **VAP1** to pop up the SSID password setting page.



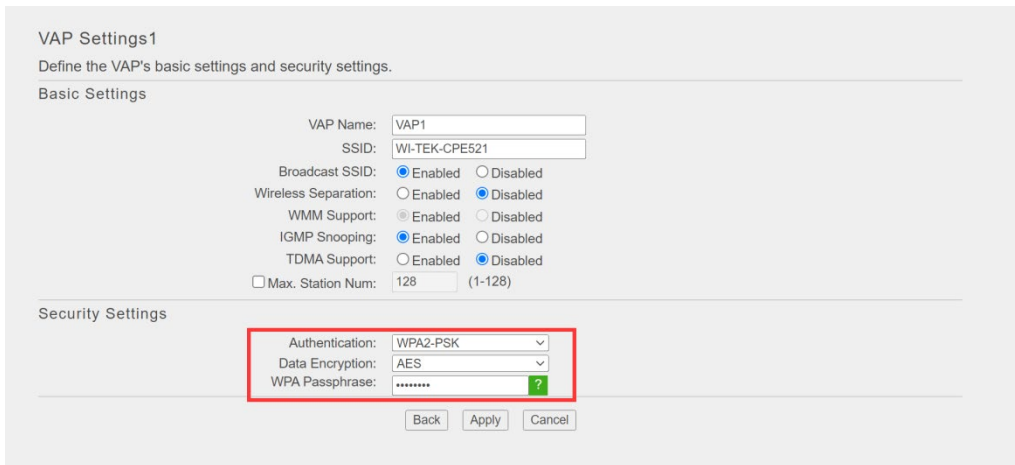
The screenshot shows the 'VAP Settings' page. It contains a table with the following data:

#	Enabled	VAP Name	SSID	Security
1	<input checked="" type="checkbox"/>	VAP1	WI-TEK-CPE521	WPA2-PSK
2	<input type="checkbox"/>	VAP2	WI-TEK-2	Open System

There are 'Apply' and 'Reset' buttons at the bottom.

Select the authentication method and enter the password, and then click apply.

The password for this example is **88888888**.



VAP Settings1  
Define the VAP's basic settings and security settings.

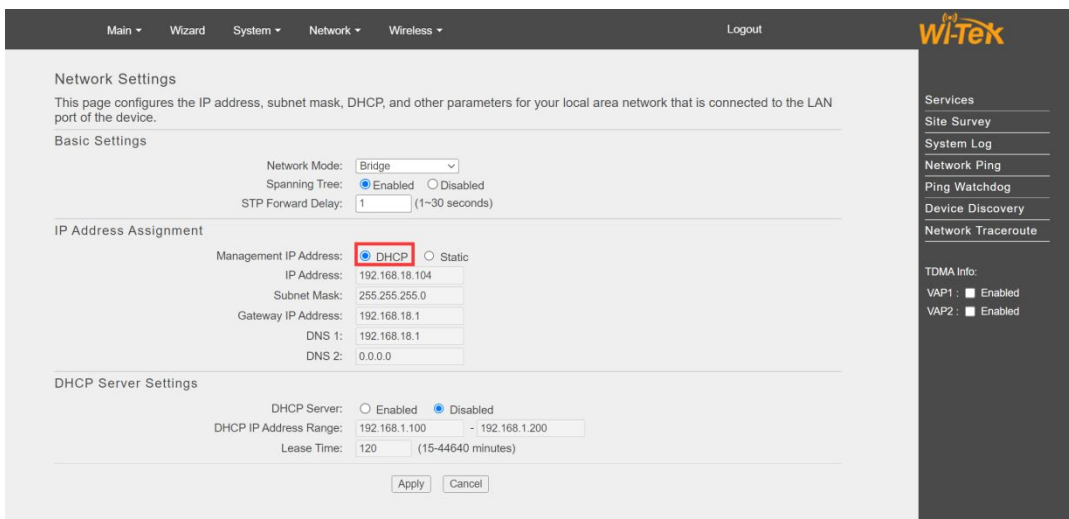
Basic Settings

VAP Name:   
 SSID:   
 Broadcast SSID:  Enabled  Disabled  
 Wireless Separation:  Enabled  Disabled  
 WMM Support:  Enabled  Disabled  
 IGMP Snooping:  Enabled  Disabled  
 TDMA Support:  Enabled  Disabled  
 Max. Station Num:  (1-128)

Security Settings

Authentication:   
 Data Encryption:   
 WPA Passphrase:

3. Go to Network > Network Settings page, change the acquisition method of management IP from static to DHCP, then click Apply.



Main Wizard System Network Wireless Logout

Network Settings  
This page configures the IP address, subnet mask, DHCP, and other parameters for your local area network that is connected to the LAN port of the device.

Basic Settings

Network Mode:   
 Spanning Tree:  Enabled  Disabled  
 STP Forward Delay:  (1-30 seconds)

IP Address Assignment

Management IP Address:  DHCP  Static  
 IP Address:   
 Subnet Mask:   
 Gateway IP Address:   
 DNS 1:   
 DNS 2:

DHCP Server Settings

DHCP Server:  Enabled  Disabled  
 DHCP IP Address Range:  -   
 Lease Time:  (15-44640 minutes)

Services  
 Site Survey  
 System Log  
 Network Ping  
 Ping Watchdog  
 Device Discovery  
 Network Traceroute

TDMA Info:  
 VAP1:  Enabled  
 VAP2:  Enabled

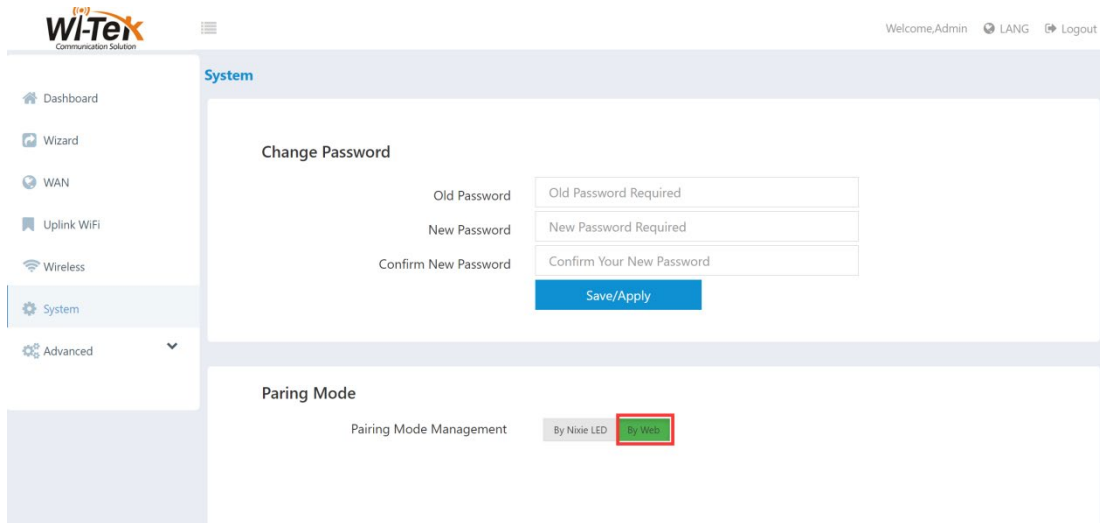
Note: Check the IP address obtained by CPE 521 in the DHCP list of the router. For example, as shown in the following figure.

IP地址	MAC地址	主机名	设备信息
192.168.18.106	44:d1:fa:b1:a7:87	WI-TEK-AP	udhcp 1.33.2
192.168.18.112	44:d1:fa:ce:37:0e	CDUTD00121B040003-WI-TEK-AP	udhcp 1.19.4
192.168.18.101	5a:83:85:f0:98:db	jianguo-R2	android-dhcp-11
192.168.18.116	d6:1e:df:21:08:09	WI-AC50	udhcp 1.30.1
192.168.18.111	44:d1:fa:8b:b1:38	AP21500120604009D-WI-TEK-AP	udhcp 1.19.4
192.168.18.104	b0:96:6c:0c:0b:84	witek0c0b83	udhcp 1.15.0
192.168.18.123	e4:aa:ea:cc:89:59	Aiden	MSFT 5.0
192.168.18.113	44:d1:fa:c4:af:5f	WI-TEK-AP	udhcp 1.30.1
192.168.18.108	00:e0:4b:6a:22:76	Aiden	MSFT 5.0
192.168.18.105	44:d1:fa:ac:84:e5	-	udhcp 1.30.1

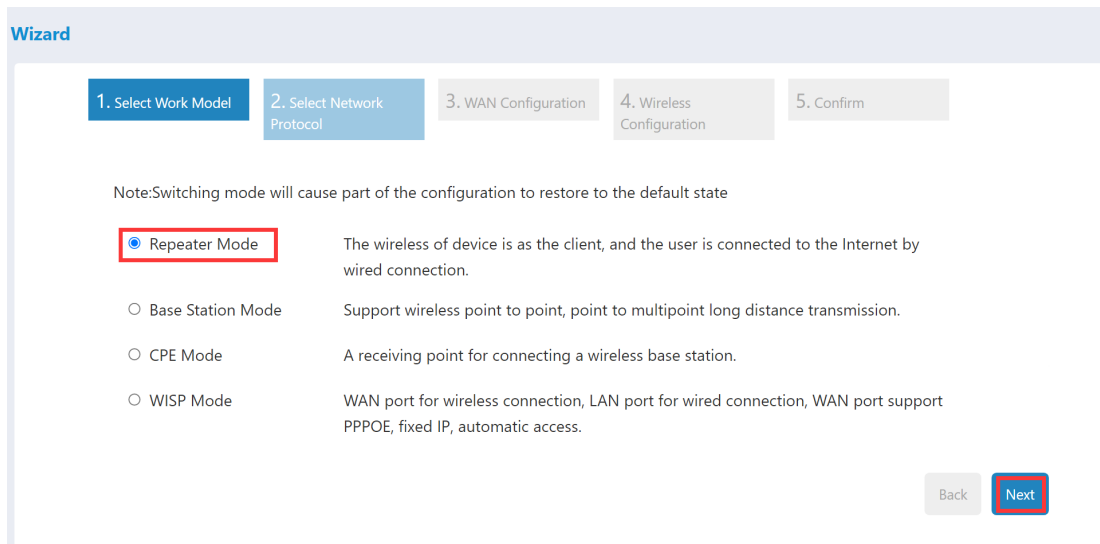
--END--

## Configure Repeater mode on CPE513P V3.

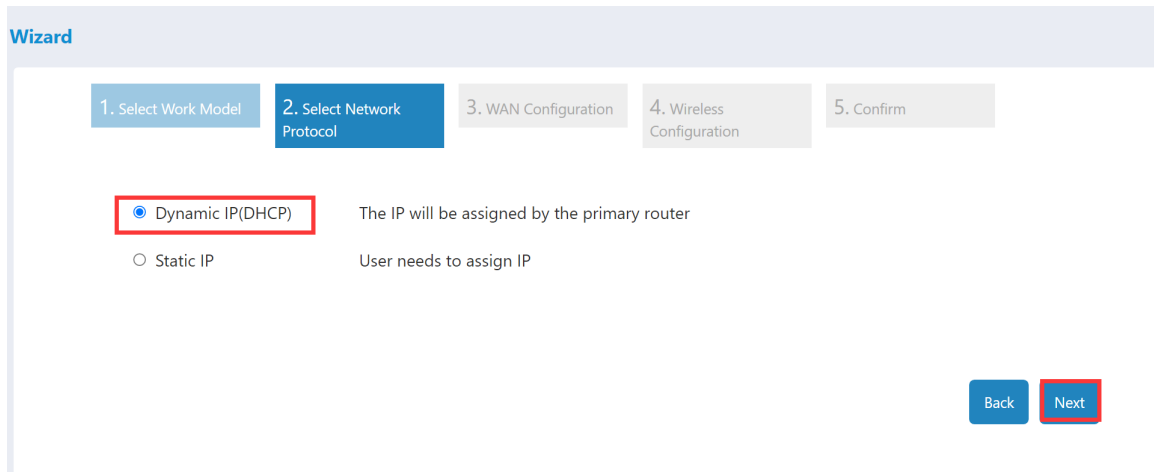
Before configuration, make sure that the pairing mode of cpe513p is switched to web.



1. Go to **Wizard** > Choose **Repeater Mode** > Click Next.



2. Click **Dynamic IP**, then click **Next**.



3. Click **Next**.

**Wizard**

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

Customize DNS Server    Optional

Back    **Next**

4. Click **Start scan 5G** button to search SSID.

**Wizard**

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

Superior Network    **Start scan 5G**

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.

SSID    WI-TEK-CPE521

Superior BSSID    Optionally,the input is bound to the specified parent  
Optionally,the input is bound to the specified AP

Encryption    WPA2-AES

Password    88888888

Back    Next

Select the previously created SSID.

Scan Again

Select	Signal	Channel	Wireless MAC	SSID	Encryption
<input type="radio"/>	-12dBm	149	B0:96:6C:0C:0B:83	WI-TEK-CPE521	WPA2 PSK (CCMP)
<input type="radio"/>	-16dBm	149	44:D1:FA:AC:84:E7	AP219-AX27	WPA2 PSK (CCMP)
<input type="radio"/>	-16dBm	149	44:D1:FA:B1:A7:88	WI-TEK_A787	WPA2 PSK (CCMP)
<input type="radio"/>	-36dBm	149	44:D1:FA:B1:A3:05	YunZhong-5G	WPA2 PSK (CCMP)
<input type="radio"/>	-47dBm	149	20:76:93:54:23:6C	Wi-Tek-FQ	mixed WPA/WPA2 PSK (TKIP, CCMP)
<input type="radio"/>	-49dBm	36	D8:A8:C8:E7:D5:59	ChinaNet-xSq6-5G	mixed WPA/WPA2 PSK (TKIP, CCMP)
<input type="radio"/>	-49dBm	36	76:D6:CB:75:02:CF	TRF-5G	mixed WPA/WPA2 PSK (TKIP, CCMP)
<input type="radio"/>	-51dBm	52	44:D1:FA:B2:62:94	WI-TEK-402	WPA2 PSK (CCMP)
<input type="radio"/>	-56dBm	157	30:3F:7B:51:E3:71	ChinaNet-asfz-5G	mixed WPA/WPA2 PSK (TKIP, CCMP)

Ensure that the encryption and password are the same as those on the CPE521 side.

Click **Next**.

Superior Network

Start scan 5G

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.

SSID

WI-TEK-CPE521

Superior BSSID

B0:96:6C:0C:0B:83

Optionally,the input is bound to the specified AP

Encryption

WPA2-AES

Password

88888888

Back

Next

After checking the parameters again for no errors and clicking the **Confirm** button.

Wizard

1. Select Work Model

2. Select Network Protocol

3. WAN Configuration

4. Wireless Configuration

5. Confirm

Working mode

Repeater Mode

Protocol of WAN

dhcp

SSID

WI-TEK-CPE521

Uplink AP BSSID

B0:96:6C:0C:0B:83

Encryption

WPA2-AES

Password

88888888

Back

Confirm

1. Select Work Model

2. Select Network Protocol

3. WAN Configuration

4. Wireless Configuration

5. Confirm

Working mode

Repeater Mode

Protocol of WAN

dhcp

SSID

WI-TEK-CPE521

Uplink A

Encrypti

Password

Mode Switching

Please use the new IP to access the device later

In dynamic IP mode, please query the new IP from the superior equipment, or use our tool to scan the current device



Back

Confirm

--END--

**How to verify whether the CPE is connected**

### On CPE513P V3 side

Go to **Dashboard > Wireless Terminal Station** page, display the MAC address of CPE521.

MAC	IP	Signal	SNR	TX	RX	TX Pkts	RX Pkts
B0:96:6C:0C:0B:83	*	-13dBm	82	115.6MBit/s	6MBit/s	356	4294967289

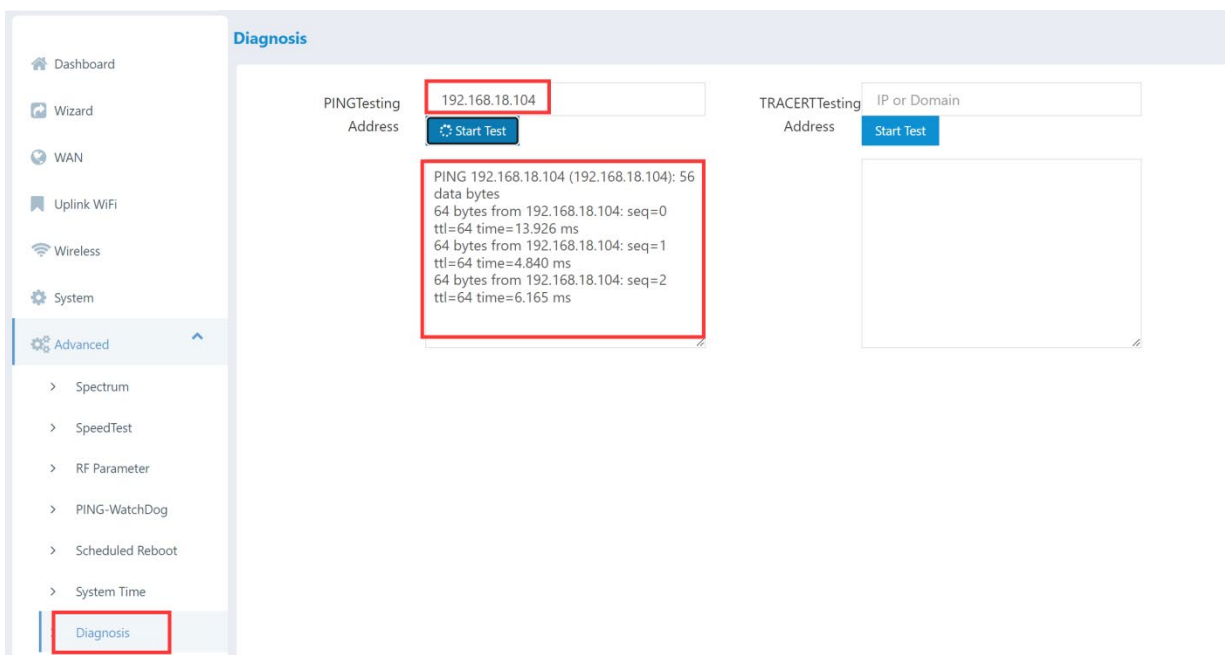
### On CPE521 side

Go to **Main > connections** page, display the MAC address of CPE513P V3.

#	Interface	MAC Address	IP Address	802.11 Mode	Signal Strength	Connected Time	Action
1	VAP1	44:d1:fa:c4:af:5f	192.168.0.5	802.11A/N	-11dBm	00h:12m:50s	<a href="#">Kick</a>

### Ping the remote IP address on both devices.

On CPE513P V3 side:



The screenshot shows the 'Diagnosis' page with a sidebar on the left containing 'Dashboard', 'Wizard', 'WAN', 'Uplink WiFi', 'Wireless', 'System', 'Advanced', and 'Diagnosis' (highlighted). The main content area has two test sections: 'PINGTesting Address' with the IP '192.168.18.104' and a 'Start Test' button, and 'TRACERTesting IP or Domain Address' with an empty input field and a 'Start Test' button. The ping test results are displayed in a red-bordered box:

```

PING 192.168.18.104 (192.168.18.104): 56
data bytes
64 bytes from 192.168.18.104: seq=0
ttl=64 time=13.926 ms
64 bytes from 192.168.18.104: seq=1
ttl=64 time=4.840 ms
64 bytes from 192.168.18.104: seq=2
ttl=64 time=6.165 ms
  
```

On CPE521 side:

### Network Ping

Use this page to view the results of the current network ping.

Select Destination IP:    
  
 Resolve IP Addresses

Packet Count:   
Packet Size:

HOST	TIME	TTL
192.168.18.113	6.49 ms	64
192.168.18.113	7.35 ms	64
192.168.18.113	4.57 ms	64
192.168.18.113	6.92 ms	64
192.168.18.113	8.13 ms	64

Received: 5 , Transmitted: 5 , 0%Loss  
MIN: 4.57 ms | AVG: 6.69 ms | MAX: 8.13 ms

- Services
- Site Survey
- System Log
- Network Ping**
- Ping Watchdog
- Device Discovery
- Network Traceroute

TDMA Info:  
VAP1 :  Enabled  
VAP2 :  Enabled

--END--