

The cnPilot R190W

User's Guide



V1.0

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1 Preface

Thank you for choosing cnPilot R190W wireless router with VoIP. This product will allow you to make ATA call using your broadband connection, and provides Wi-Fi router function.

This manual provides basic information on how to install and connect cnPilot R190W wireless router with VoIP to the Internet. It also includes features and functions of wireless router with VoIP components, and how to use it correctly.

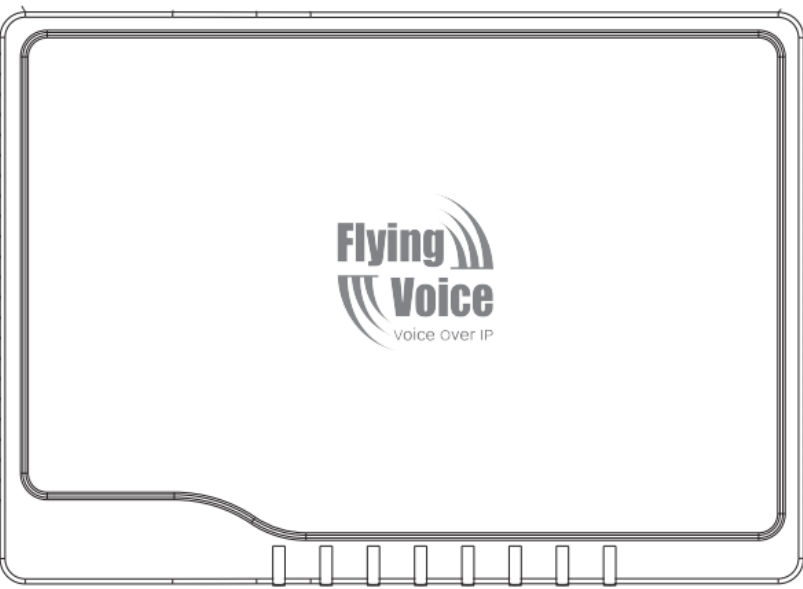
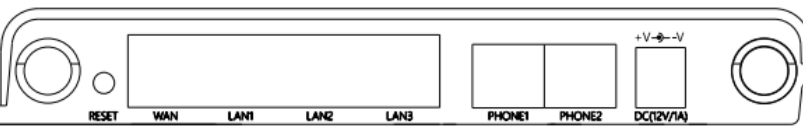
Before you can connect cnPilot R190W to the Internet and use it, you must have a high-speed broadband connection installed. A high-speed connection includes environments such as DSL, cable modem, and a leased line.

cnPilot R190W wireless router with VoIP is a stand-alone device, which requires no PC to make Internet calls. This product guarantees clear and reliable voice quality on Internet, which is fully compatible with SIP industry standard and able to interoperate with many other SIP devices and software on the market.

2 LED Indicators and Connectors

Before you use the high speed router, please get acquainted with the LED indicators and connectors first.

2.1 LED Indicators

Front Panel		LED	Status	Explanation
	PHONE1/2	Blinking(Green)		Not registered.
		On (Green)		Registered
	WLAN	On (Green)		Wireless access point is ready.
		Blinking(Green)		It will blink while wireless traffic goes through.
	LAN 1/2/3	On (Green)		The port is connected with 100Mbps.
		Off		The port is disconnected.
		Blinking(Green)		The data is transmitting.
	WAN	On(Green)		The port is connected with 100Mbps.
		Off		The port is disconnected.
		Blinking(Green)		It will blink while transmitting data.
	POWER	On(Red)		The router is powered on and running normally.
		Off		The router is powered off.
Rear Panel		Interface	Description	
	DC 12V/1.5A		Connector for a power adapter.	
	PHONE1/2		Connect to the phone.	
	WAN		Connector for accessing the Internet.	
	LAN (1/2/3)		Connectors for local networked devices.	

2.2 Hardware Installation

Before starting to configure the router, you have to connect your devices correctly.

Step 1. Connect Line port to land line jack with a RJ-11 cable.

Step 2. Connect the WAN port to a modem or switch or router or Internet with an Ethernet cable.

Step 3. Connect one port of 4 LAN ports to your computer with a RJ-45 cable. This device allows you to connect 4 PCs directly.

Step 4. Connect one end of the power cord to the power port of this device. Connect the other end to the wall outlet of electricity.

Step 5. Check the Power and WAN, LAN LEDs to assure network connections.

3 Voice Prompt

In any circumstance, pressing the following command to enter relevant function. The following table lists command, and description.

Voice Menu Setting Options

Operation code	Contents
1	<p>Step 1.Pick up phone and press “*****” to start IVR</p> <p>Step 2.Choose “1”, and cnPilot R190W report the current WAN port connection type</p> <p>Step 3.Prompt "Please enter password", user need to input password with end char # if user want to configuration WAN port connection type.</p> <p>◇ The password in IVR is same as the one of WEB login, user can use phone keypad to enter password directly, and the matching table is in Note</p>
2	<p>Step 1.Pick up phone and press “*****” to start IVR</p> <p>Step 2.Choose “2”, and cnPilot R190W report current WAN Port IP Address</p> <p>Step 3.Input the new WAN port IP address and with the end char #,</p> <p>◇ using “*” to replace “.”, user can input 192*168*20*168 to set the new IP address 192.168.20.168</p> <p>◇ press # key to indicate that you have finished</p> <p>Step 4.Report “operation successful” if user operation properly.</p> <p>◇ Note: If you want to quit by the wayside, press “***”.</p>
3	<p>Step 1.Pick up phone and press “*****” to start IVR</p> <p>Step 2.Choose “3”, and cnPilot R190W report current WAN port subnet mask</p> <p>Step 3.Input a new WAN port subnet mask and with the end char #</p> <p>◇ using “*” to replace “.”, user can input 255*255*255*0 to set the new WAN port subnet mask 255.255.255.0</p> <p>◇ press # key to indicate that you have finished</p> <p>3) Report “operation successful” if user operation properly.</p> <p>◇ Note: If you want to quit by the wayside, press “***”.</p>
4	<p>Step 1.Pick up phone and press “*****” to start IVR</p> <p>Step 2.Choose “4”, and cnPilot R190W report current gateway</p> <p>Step 3.Input the new gateway and with the end char #</p> <p>◇ using “*” to replace “.”, user can input 192*168*20*1 to set the new gateway 192.168.20.1</p> <p>◇ press # (pound) key to indicate that you have finished</p> <p>3) Report “operation successful” if user operation properly.</p> <p>◇ Note: If you want to quit by the wayside, press “***”.</p>
5	<p>Step 1.Pick up phone and press “*****” to start IVR</p> <p>Step 2.Choose “5”, and cnPilot R190W report current DNS</p> <p>Step 3.Input the new DNS and with the end char #</p> <p>◇ using “*” to replace “.”, user can input 192*168*20*1 to set the new gateway 192.168.20.1</p> <p>◇ press # (pound) key to indicate that you have finished</p> <p>3) Report “operation successful” if user operation properly.</p> <p>◇ If you want to quit by the wayside, press “***”.</p>

6	<p>Step 1.Pick up phone and press “****” to start IVR</p> <p>Step 2.Choose “6”, and cnPilot R190W report “Factory Reset”</p> <p>Step 3.Prompt "Please enter password", the method of inputting password is the same as operation 1.</p> <p>◇ If you want to quit by the wayside, press “*”.</p> <p>Step 4.Prompt “operation successful” if password is right and then cnPilot R190W will be factory setting.</p> <p>Step 5.Press “7” reboot to make changes effective.</p>
7	<p>Step 1.Pick up phone and press “****” to start IVR</p> <p>Step 2.Choose “7”, and cnPilot R190W report “Reboot”</p> <p>Step 3.Prompt "Please enter password", the method of inputting password is same as operation 1.</p> <p>Step 4.cnPilot R190W will reboot if password is right and operation is properly.</p>
8	<p>Step 1.Pick up phone and press “****” to start IVR</p> <p>Step 2.Choose “8”, and cnPilot R190W report “WAN Port Login”</p> <p>Step 3.Prompt "Please enter password", the method of inputting password is same as operation 1.</p> <p>◇ If you want to quit by the wayside, press “*”.</p> <p>Step 4.Report “operation successful” if user operation properly.</p> <p>Step 5.Prompt “1enable 2disable”,choose 1 or 2, and with confirm char #</p> <p>Step 6.Report “operation successful” if user operation properly.</p>
9	<p>Step 1.Pick up phone and press “****” to start IVR</p> <p>Step 2.Choose “9”, and cnPilot R190W report “ WEB Access Port”</p> <p>Step 3.Prompt “Please enter password”, the method of inputting password is same as operation 1.</p> <p>Step 4.Report “operation successful” if user operation properly.</p> <p>Step 5.Report the current WEB Access Port</p> <p>Step 6.Set the new WEB access port and with end char #</p> <p>Step 7. Report “operation successful” if user operation properly.</p>
0	<p>Step 1.Pick up phone and press “****” to start IVR</p> <p>Step 2.Choose “0”, and cnPilot R190W report current Firmware version</p>

Notice:

- ◆ When using Voice Menu, press * (star) to return the main menu.
- ◆ If any changes made in the IP assignment mode, please reboot the cnPilot R190W to take the setting into effect.
- ◆ When enter IP address or subnet mask, use “*” (Star) to replace “.” (Dot).

For example, to enter the IP address 192.168.20.159 by keypad, press these keys: 192*168*20*159,use the #(pound) key to indicate that you have finished entering the IP address.

- ◆ #(pound) key to indicate that you have finish entering the IP address or subnet mask
- ◆ When assigning IP address in Static IP mode, setting IP address, subnet mask and default gateway is a must. If in DHCP mode, please make sure that DHCP SERVER is available in your existing broadband connection to which WAN port of cnPilot R190W is connected.
- ◆ The default LAN port IP address of cnPilot R190W is 192.168.1.1 and do not set the WAN port IP address of cnPilot R190W in the same network segment of LAN port of cnPilot R190W, otherwise it may lead to the cnPilot R190W fail to work properly.
- ◆ You can enter the password by phone keypad, the matching table between number and letters as follows:
 - To input: D, E, F, d, e, f -- press '3'
 - To input: G, H, I, g, h, i -- press '4'
 - To input: J, K, L, j, k, l -- press '5'
 - To input: M, N, O, m, n, o -- press '6'
 - To input: P, Q, R, S, p, q, r, s -- press '7'
 - To input: T, U, V, t, u, v -- press '8'
 - To input: W, X, Y, Z, w, x, y, z -- press '9'
 - To input all other characters in the administrator password----press '0',
E.g. password is 'admin-admin', press '236460263'

4 Configuring Basic Settings

4.1 Two-Level Management

This chapter explains how to setup a password for an administrator/root user and how to adjust basic/advanced settings for accessing Internet successfully.

cnPilot R190W supports two-level management: administrator and user. For administrator mode operation, please type “**admin/admin**” on Username/Password and click **Login** button to configuration. While for user mode operation, please type “**user/user**” on Username/Password and click **Login** button for full configuration.

4.2 Accessing Web Page

4.2.1 From LAN port

1. Make sure your PC have connected to the router's LAN port correctly.



Notice: You may either simply set up your computer to get IP dynamically from the router or set up the IP address of the computer to be the same subnet as **the default IP address of router is 192.168.1.1**. For the detailed information, please refer to the later section - **Trouble shooting of the guide**.

2. Open a web browser on your PC and type **http://192.168.1.1**. The following window will be open to ask for username and password, and you can choose language.

The screenshot shows a web browser window displaying the VoIP control panel login page. The page has a black header with 'VoIP' in green and '... control panel' in blue. Below the header is a white login form with 'Username' and 'Password' labels, two input fields, and a 'Login' button.

3. For administrator mode operation, please type “**admin/admin**” on Username/Password and click Login to configuration. Yet, for root user mode operation, please type “**user/user**” on Username/Password and click Login for full configuration.

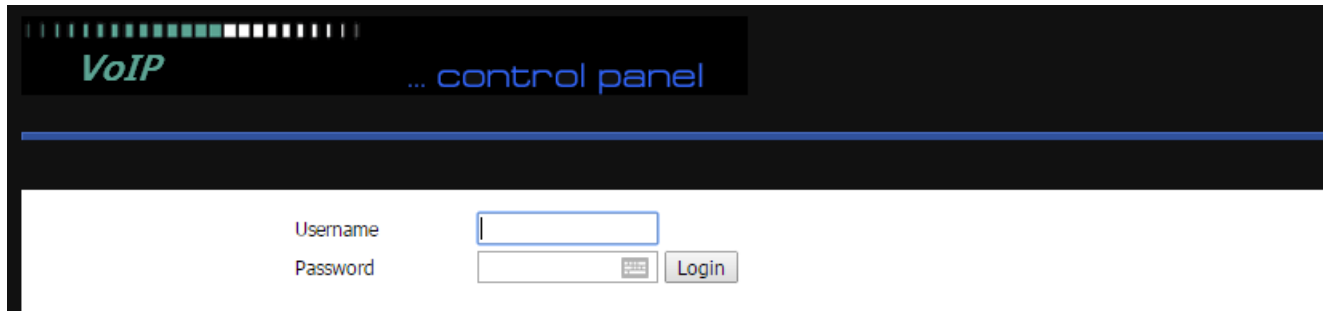


Notice: If you fail to access to the web configuration, please go to “Trouble Shooting” for detecting and solving your problem.

4. The web page can be logged out after 5 minutes without any operation.

4.2.2 From WAN port

1. Make sure your PC can connect to the router's WAN port correctly.
2. Getting the IP addresses of WAN port using Voice prompt.
3. Open a web browser on your PC and type <http://the IP address of WAN port>. The following window will be open to ask for username and password.



4. For administrator mode operation, please type **“admin/admin”** on Username/Password and click Login to configuration. Yet, for root user mode operation, please type **“user/user”** on Username/Password and click Login for full configuration.



Notice: If you fail to access to the web configuration, please go to “Trouble Shooting” for detecting and solving your problem.

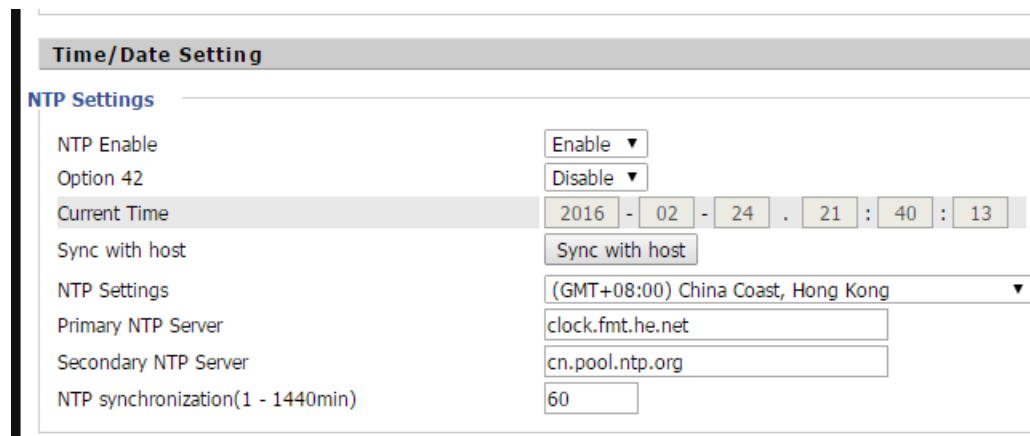
5. The web page can be logged out after 5 minutes without any operation.

4.3 Webpage

No.	Name	Description
1	Navigation bar	Click navigation bar, many sub-navigation bar will appear in the place 2
2	Title	Click sub-navigation bar to choose one configuration page
3	Parameter	To configuration the parameters
	Save	<ul style="list-style-type: none"> ◆ Every time making some changes, user should press this button to confirm the changes. ◆ After pressing the button, the red Please REBOOT to make the changes effective! will appear to notice rebooting.
	Cancel	To cancel the changes.
	Reboot	Press it to reboot the router

4.4 Setting up the Time Zone

Open **Administration/Management** webpage as shown below, please select the **Time Zone** for the router installed and specify the **NTP server** and set the update interval in **NTP synchronization**.

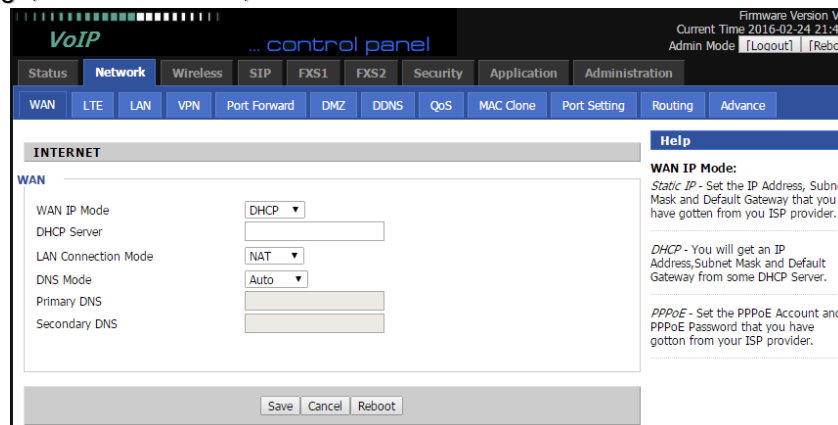


The screenshot shows the 'Time/Date Setting' page. Under the 'NTP Settings' section, the following fields are visible:

- NTP Enable: Enable (dropdown)
- Option 42: Disable (dropdown)
- Current Time: 2016 - 02 - 24 . 21 : 40 : 13
- Sync with host: Sync with host (button)
- NTP Settings: (GMT+08:00) China Coast, Hong Kong (dropdown)
- Primary NTP Server: clock.fmt.he.net
- Secondary NTP Server: cn.pool.ntp.org
- NTP synchronization(1 - 1440min): 60

4.5 Setting up the Internet Connection

Open the **Network/WAN** webpage as shown below; please select the appropriate **IP Mode** according to the information from your ISP. There are three types offered in this page, which are Static, DHCP and PPPoE.



The screenshot shows the 'WAN IP Mode' configuration page. The 'WAN IP Mode' is set to 'DHCP'. Other fields include 'DHCP Server', 'LAN Connection Mode' (set to 'NAT'), 'DNS Mode' (set to 'Auto'), 'Primary DNS', and 'Secondary DNS'. A 'Help' section on the right provides instructions for Static IP, DHCP, and PPPoE. At the bottom, there are 'Save', 'Cancel', and 'Reboot' buttons.

4.5.1 Static IP

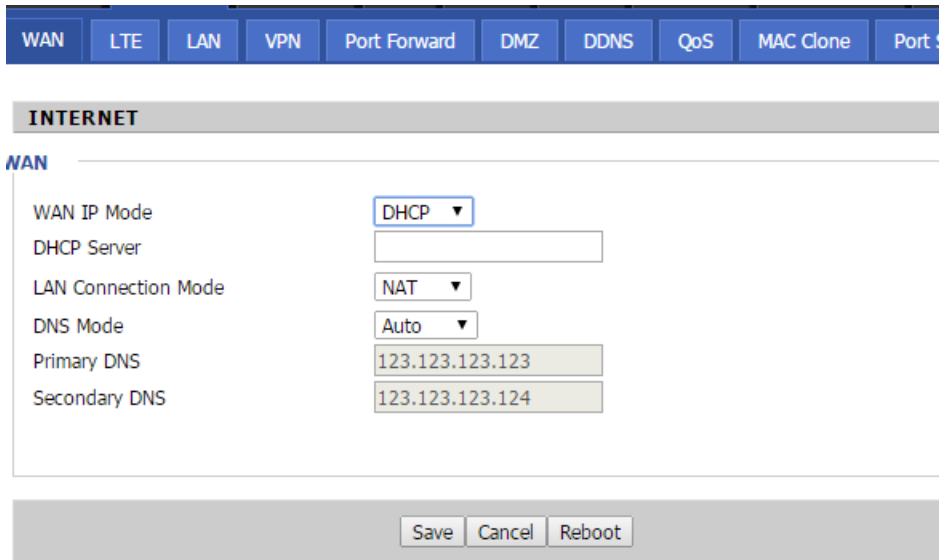
You will receive a fixed public IP address or a public subnet, namely multiple public IP addresses from your DSL or Cable ISP service providers. In most cases, a Cable service provider will offer a fixed public IP, while a DSL service provider will offer a public subnet. If you have a public subnet, you could assign an IP address to the WAN interface.

WAN	LTE	LAN	VPN	Port Forward	DMZ	DDNS	QoS	MAC Clone	Po
INTERNET									
WAN									
WAN IP Mode	Static ▼								
LAN Connection Mode	NAT ▼								
Static									
IP Address	172.29.171.63								
Subnet Mask	255.255.255.128								
Default Gateway	172.29.171.1								
DNS Mode	Manual ▼								
Primary DNS	123.123.123.123								
Secondary DNS	123.123.123.124								

IP Address	Type the IP address
Subnet Mask	Type the subnet mask
Gateway IP Address	Type the gateway IP address
Primary DNS Server	Type in the primary IP address for the route
Secondary DNS Server	Type in secondary IP address for necessity in the future

4.5.2 DHCP

It is not necessary for you to type any IP address manually. Simply choose this type and the system will obtain the IP address automatically from DHCP server.



The screenshot shows the router's configuration interface. At the top, there is a navigation bar with tabs: WAN, LTE, LAN, VPN, Port Forward, DMZ, DDNS, QoS, MAC Clone, and Port S. Below this is the 'INTERNET' section, which is expanded to show the 'WAN' configuration. The settings are as follows:

WAN IP Mode	DHCP
DHCP Server	
LAN Connection Mode	NAT
DNS Mode	Auto
Primary DNS	123.123.123.123
Secondary DNS	123.123.123.124

At the bottom of the configuration area, there are three buttons: Save, Cancel, and Reboot.

DNS Mode

Set the DNS Mode from Auto and Manual, If user choose manual, you should fill the primary DNS address and Secondary DNS address into Primary DNS Address and Secondary DNS Address.

Primary DNS Server

Type in the primary IP address for the route

Secondary DNS Server

Type in secondary IP address for necessity in the future

4.6 Setting up the Wireless Connection

4.6.1 Encryption

Open **Wireless/Security** webpage to set the encryption of routers.

	<p>SSID Choice Choose one SSID from Off-premises 1, off-premises 2 and Premises.</p> <p>Security Mode Select an appropriate encryption mode to improve the security and privacy of your wireless data packets. Each encryption mode will bring out different web page and ask you to offer additional configuration.</p>
--	--

4.7 Register

4.7.1 Get the Accounts

cnPilot R190W have 2 phone port, you can use it to make SIP call, and before registering, you should get the SIP account from you administrator or provider.

4.7.2 Connections

Connect cnPilot R190W to the Internet properly

4.7.3 Configuration SIP from Webpage

- Step 1. Open **SIP Account/Line 1** webpage, as the picture in the right side.
- Step 2. Fill the SIP Server domain and SIP Server address (which get from you administrator or provider) into Domain Name parameter, into SIP Server
- Step 3. Fill account which get from you administrator into Display Name parameter, Phone Number parameter, and Account parameter.
- Step 4. Fill password which get from you administrator into Password parameter.
- Step 5. Press **Save** button in the bottom of the webpage to save changes.

Note: if there is **Please REBOOT to make the changes effective!**, please press **Reboot** button to make changes effective.

4.7.4 View the Register Status

To view the status, please open Status webpage and view the value of register status. The value is registered like the following picture which means cnPilot R190W have registered normally and you can make calls.

4.8 Make Call

4.8.1 Calling phone or extension numbers

To make a phone or extension number call:

- a) Both ATA and the other VoIP device (i.e., another ATA or other SIP products) have public IP addresses, or
- b) Both ATA and the other VoIP device (i.e., another ATA or other SIP products) are on the same LAN using private or public IP addresses, or
- c) Both ATA and the other VoIP device (i.e., another ATA or other SIP products) can be connected through a router using public or private IP addresses.

To make a call, first pick up the analog phone or turn on the speakerphone on the analog phone, input the IP address directly, end with #.

4.8.2 Direct IP calls

Direct IP calling allows two phones, that is, an ATA with an analog phone and another VoIP Device, to talk to each other without a SIP proxy. VoIP calls can be made between two phones if:

- a) Both ATA and the other VoIP device (i.e., another ATA or other SIP products) have public IP addresses, or
- b) Both ATA and the other VoIP device (i.e., another ATA or other SIP products) are on the same LAN using private or public IP addresses, or
- c) Both ATA and the other VoIP device (i.e., another ATA or other SIP products) can be connected through a router using public or private IP addresses.

To make a direct IP call, first pick up the analog phone or turn on the speakerphone on the analog phone, Input the IP address directly, with the end "#".

4.8.3 Call Hold

While in conversation, pressing the ****77** to put the remote end on hold, then you will hear the dial tone and the remote party will hear hold tone at the same time.

Pressing the ****77** again to release the previously hold state and resume the bi-directional media.

4.8.4 Blind Transfer

Assuming that call party A and party B are in conversation. A wants to Blind Transfer B to C:

Step 1. Party A dials ****78** to get a dial tone, then dials party C's number, and then press immediately key # (or wait for 4 seconds) to dial out.

Step 2. A can hang up.

4.8.5 Attended Transfer

Assuming that call party A and B are in conversation. A wants to Attend Transfer B to C:

Step 1. Party A dial ****77** to hold the party B, when hear the dial tone, A dial C's number, then party A and party C are in conversation.

Step 2. Party A dial ****78** to transfer to C, then B and C now in conversation.

Step 3.If the transfer doesn't success, then A and B in conversation again.

4.8.6 Conference

Assuming that call party A and B are in conversation. A wants to add C to the conference:

Step 1.Party A dial ****77** to hold the party B, when hear the dial tone, A dial C's number, then party A and party C are in conversation.

Step 2.Party A dial ****88** to add C, then A, B and C now in conference.

5 Web Configuration

This chapter will guide users to execute advanced (full) configuration through admin mode operation.

5.1 Login

Step 1. Connect the LAN port of the router to your PC

Step 2. Open a web browser on your PC and type in **http://192.168.1.1**. The window will ask for typing username and password. And you can choose language, too.



Step 3. Please type "**admin/admin**" on Username/Password for administration operation. Now, the Main Screen will appear like below.

Status	Network	Wireless	SIP	FXS1	FXS2	Security	Application	Administration
Basic	LAN Host	Syslog						

Product Information		Help
Product Information		Product Information: It shows the basic inform product.
Product Name	FWR 7102	Line Status: It shows the registration line.
Internet(WAN) MAC Address	00:21:F2:31:34:79	Network Status: It shows the information Port,WIFI and PC port.
PC(LAN) MAC Address	00:21:F2:31:34:78	System Status: It shows the current time
Hardware Version	V1.1	
Loader Version	V3.01(Nov 25 2015 17:34:06)	
Firmware Version	V3.10(201602240227)	
Serial Number	TEST000001	

5.2 Status

This webpage shows the status information about **product information, Network** and **system**.

It shows the basic information of the product, such as product name, serial number, MAC address, hardware version and software version.

It also shows the information of Link Status, WAN Port Status, and LAN Port Status.

And it shows the current time and the running time of the product.

The picture in the right side is the cnPilot R190W's Status webpage.

5.3 Network&Security

You can configuration the WAN port, LAN port, DDNS, Multi WAN,DMZ, MAC Clone,Port Forward and so on in these two bars.

5.3.1 WAN

This page allows you to set WAN configuration with different modes. Use the Connection Type drop down list to choose one WAN mode and then the corresponding page will be displayed.

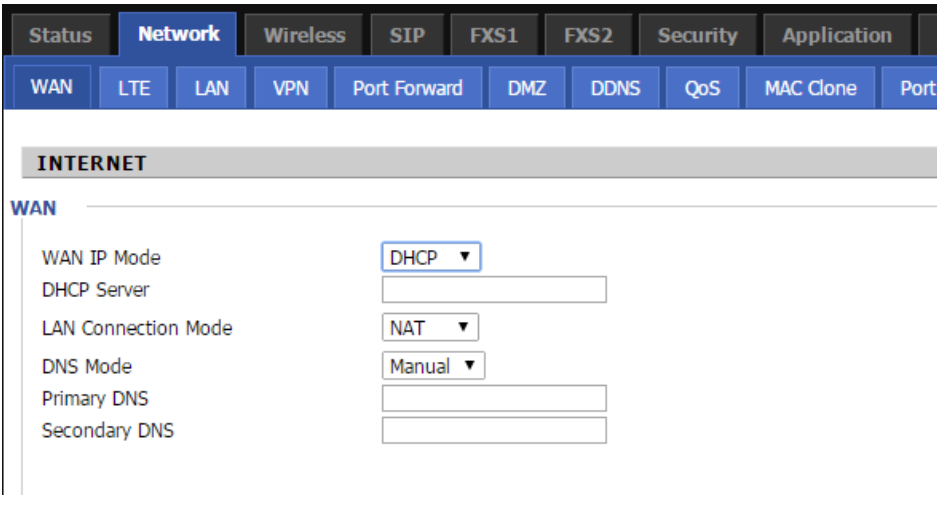
Static IP:

You will receive a fixed public IP address or a public subnet, namely multiple public IP addresses from your DSL or Cable ISP service providers. In most cases, a Cable service provider will offer a fixed public IP, while a DSL service provider will offer a public subnet. If you have a public subnet, you could assign an IP address to the WAN interface.

WAN		IP Address	Type the IP address
INTERNET		Subnet Mask	Type the subnet mask
WAN		Gateway IP Address	Type the gateway IP address
WAN IP Mode	Static ▼	Primary DNS Server	Type in the primary IP address for the route
LAN Connection Mode	NAT ▼	Secondary DNS Server	Type in secondary IP address for necessity in the future
Static			
IP Address	10.20.34.131		
Subnet Mask	255.255.255.248		
Default Gateway	10.20.34.129		
DNS Mode	Manual ▼		
Primary DNS	123.123.123.123		
Secondary DNS	123.123.123.124		

DHCP:

It is not necessary for you to type any IP address manually. Simply choose this type and the system will obtain the IP address automatically from DHCP server.

	<p>DNS Mode</p> <p>Primary DNS Server</p> <p>Secondary DNS Server</p>	<p>Set the DNS Mode from Auto and Manual,</p> <p>If user choose manual, you should fill the primary DNS address and Secondary DNS address into Primary DNS Address and Secondary DNS Address.</p> <p>Type in the primary IP address for the route</p> <p>Type in secondary IP address for necessity in the future</p>
--	--	---

PPPoE:

PPPoE stands for **Point-to-Point Protocol over Ethernet**. It relies on two widely accepted standards: PPP and Ethernet. It connects users through an Ethernet to the Internet with a common broadband medium, such as a single DSL line, wireless device or cable modem. All the users over the Ethernet can share a common connection.

PPPoE is used for most of DSL modem users. All local users can share one PPPoE connection for accessing the Internet. Your service provider will provide you information about user name, password, and authentication mode.

	<p>PPPoE Account</p> <p>PPPoE Password</p> <p>PPPoE Auto-Dial</p> <p>DNS Mode</p> <p>Primary DNS Server</p> <p>Secondary DNS Server</p>	<p>Assign a specific valid user name provided by the ISP</p> <p>Assign a valid password provided by the ISP</p> <p>If or not enable PPPoE Password.</p> <p>Set the DNS Mode from Auto and Manual, If user choose manual, you should fill the primary DNS address and Secondary DNS address into Primary DNS Address and Secondary DNS Address.</p> <p>Type in the primary IP address for the route</p> <p>Type in secondary IP address for necessity in the future</p>
--	---	--

DDNS Setting

	<p>DDNS Provider</p> <p>DDNS Account</p> <p>DDNS Password</p> <p>DDNS Name</p>	<p>Use the drop down list to select one DDNS Provider domain</p> <p>Fill in the DDNS account.</p> <p>Fill in the DDNS Password.</p> <p>Fill in the DDNS name.</p>
--	--	---

5.3.2 LAN

LAN Port:

The most generic function of router is NAT. What NAT does is to translate the packets from public IP address to local IP address to forward the right

packets to the right host and vice versa.

<div style="border: 1px solid black; padding: 5px;"> <p>PC Port(LAN)</p> <p>PC Port(LAN)</p> <p>Local IP Address: <input type="text" value="192.168.1.1"/></p> <p>Local Subnet Mask: <input type="text" value="255.255.255.0"/></p> <p>Local DHCP Server: <input type="text" value="Enable"/></p> <p>DHCP Start Address: <input type="text" value="192.168.1.2"/></p> <p>DHCP End Address: <input type="text" value="192.168.1.254"/></p> <p>DNS Mode: <input type="text" value="Auto"/></p> <p>Primary DNS: <input type="text" value="202.96.134.133"/></p> <p>Secondary DNS: <input type="text" value="8.8.8.8"/></p> <p>Client Lease Time(0-86400s): <input type="text" value="86400"/></p> <p>DNS Proxy: <input type="text" value="Disable"/></p> </div>	<p>Local IP Address</p> <p>Local Subnet Mask</p> <p>Local DHCP Server</p>	<p>Type in local IP address for connecting to a local private network (Default: 192.168.1.1)</p> <p>Type in an address code that determines the size of the network. (Default: 255.255.255.0/ 24)</p> <p>If or not enable DHCP server.</p>
---	--	---

DHCP Server:

Router has a built-in DHCP server that assigns private IP address to each local host.

DHCP stands for Dynamic Host Configuration Protocol. The router by factory default acts a DHCP server for your network so it automatically dispatch related IP settings to any local user configured as a DHCP client. It is highly recommended that you leave the router enabled as a DHCP server if you do not have a DHCP server for your network.

<div style="border: 1px solid black; padding: 5px;"> <p>Local IP Address: <input type="text" value="192.168.11.1"/></p> <p>Local Subnet Mask: <input type="text" value="255.255.255.0"/></p> <p>Local DHCP Server: <input type="text" value="Enable"/></p> <p>DHCP Start Address: <input type="text" value="192.168.11.2"/></p> <p>DHCP End Address: <input type="text" value="192.168.11.254"/></p> <p>DNS Mode: <input type="text" value="Auto"/></p> <p>Primary DNS: <input type="text" value="192.168.11.1"/></p> <p>Secondary DNS: <input type="text" value=""/></p> <p>Client Lease Time (0-86400s): <input type="text" value="86400"/></p> <p>DNS Proxy: <input type="text" value="Enable"/></p> </div>	<p>Local DHCP Server</p> <p>DHCP Starting Address</p> <p>DHCP Ending Address</p> <p>Primary/Secondary DNS</p>	<p>If or not enable DHCP server.</p> <p>Enter a value of the IP address pool for the DHCP server to start with when issuing IP addresses. If the LAN Interface IP</p> <p>Enter a value of the IP address pool for the DHCP server to end with when issuing IP addresses.</p> <p>Input the primary or secondary DNS IP address.</p>
--	---	--

Primary DNS Secondary DNS Client Lease Time (0-86400s) DNS Proxy	<input type="text" value="192.168.11.1"/> <input type="text"/> <input type="text" value="86400"/> <input type="button" value="Enable"/>	Primary DNS	You must specify a DNS server IP address here because your ISP should provide you with usually more than one DNS Server. If your ISP does not provide it, the router will automatically apply default DNS Server IP address: 202.96.134.33 to this field.
		Secondary DNS	You must specify a DNS server IP address here because your ISP should provide you with usually more than one DNS Server. If your ISP does not provide it, the router will automatically apply default DNS Server IP address: 202.96.128.86 to this field.
		Client Lease Time	If both the Primary IP and Secondary IP Address fields are left empty, the router will assign its own IP address to local users as a DNS proxy server and maintain a DNS cache. It allows you to set the leased time for the specified PC.

5.3.3 DMZ/Port Forward

DMZ

DMZ Enable If or not enable DMZ.

DMZ Host IP Address Enter the private IP address of the DMZ host

Port Forward

Port Forwarding					
No.	Comment	IP Address	Port Range	Protocol	
<input type="button" value="Delete Selected"/> <input type="button" value="Add"/> <input type="button" value="Edit"/>					

Virtual Servers					
No.	Comment	IP Address	Public Port	Private Port	Protocol
<input type="button" value="Delete Selected"/> <input type="button" value="Add"/> <input type="button" value="Edit"/>					
Virtual Servers					
Comment		<input type="text"/>			
IP Address		<input type="text"/>			
Public Port		<input type="text"/>			
Private Port		<input type="text"/>			
Protocol		TCP&UDP ▼			
(The maximum rule count is 32)					
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>					

5.3.4 MAC Clone

Some ISPs will require you to register your MAC address. If you do not wish to re-register your MAC address, you can have the router clone the MAC address that is registered with your ISP. To use the Clone Address button, the computer viewing the Web-base utility screen will have the MAC address automatically entered in the Clone WAN MAC field.

MAC Address Clone	
MAC Address Clone	<input type="button" value="Clone Address"/>
MAC Address	<input type="text"/> <input type="button" value="Get Current PC MAC"/>

- Step 1. Press button to clone the currently PC MAC address to router's Internet port.
- Step 2. Press button to save the changes
- Step 3. Press button to make changes effective

5.3.5 Multi WAN

The screenshot displays a network configuration page with a top navigation bar containing tabs for WAN, LTE, LAN, VPN, Port Forward, DMZ, DDNS, QoS, MAC Clone, Port Setting, and Routing. The 'INTERNET' section is active, and the 'WAN' configuration is shown. The 'Connect Name' dropdown menu is open, listing '1_MANAGEMENT_VOICE_INTERNET_R_VID' and 'New Connection'. Other configuration options include IP Protocol Version (IPv4), WAN IP Mode (DHCP), NAT Enable (Enable), VLAN Mode (Disable), and VLAN ID (1). A note on the right side of the page reads: 'Note: Muti-wan only used in WAN connection mode'.

5.4 Wireless

5.4.1 Basic

Basic Wireless Settings	
Radio On/Off	Select Radio On to enable the wireless, select Radio Off to disable wireless.
Network Mode	Choose one network mode from the five types.
SSID	The name of the wireless name, it can be any text numbers or various special characters. The default SSID is "Wireless_7102".
Multiple SSID1-3	User can set multiple SSID.
broadcast(SSID)	If or not enable SSID broadcast.

The screenshot shows the 'Basic Wireless Settings' configuration page. The 'Radio On/Off' dropdown is set to 'Radio On'. The 'Wireless Connection Mode' is set to 'AP'. The 'Network Mode' is set to '11b/g/n mixed mode'. There are three 'Multiple SSID' entries (Multiple SSID, Multiple SSID1, Multiple SSID2, Multiple SSID3) with text input fields and checkboxes for 'Hidden' and 'Isolated', and 'Max Client' input fields. Below these are radio buttons for 'broadcast(SSID)', 'AP Isolation', and 'MBSSID AP Isolation'. Other settings include 'BSSID' (00:21:F2:31:34:78), 'Frequency (Channel)' (Auto), 'HT Physical Mode' (Mixed Mode), 'Operating Mode' (20/40), 'Channel BandWidth' (20/40), 'Guard Interval' (Short), 'Reverse Direction Grant(RDG)' (Disable), and 'HT RxStream' (2). At the bottom are 'Save', 'Cancel', and 'Reboot' buttons.

5.4.2 Security

Select SSID		SSID Choice	Choose one SSID from SSID, Multiple SSID1, Multiple SSID2 and Multiple SSID3.
SSID choice	Wireless_7202 ▼		Select an appropriate encryption mode to improve the security and privacy of your wireless data packets.
"Wireless_7202"		Security Mode	Each encryption mode will bring out different web page and ask you to offer additional configuration.
Security Mode	WPA-PSK ▼		

5.4.3 WMM

WMM Parameters of Access Point						
	Aifsn	CWMin	CWMax	Txop	ACM	AckPolicy
AC_BE	3	15 ▼	63 ▼	0	<input type="checkbox"/>	<input type="checkbox"/>
AC_BK	7	15 ▼	1023 ▼	0	<input type="checkbox"/>	<input type="checkbox"/>
AC_VI	1	7 ▼	15 ▼	94	<input type="checkbox"/>	<input type="checkbox"/>
AC_VO	1	3 ▼	7 ▼	47	<input type="checkbox"/>	<input type="checkbox"/>

5.4.4 WPS

WPS (**Wi-Fi Protected Setup**) provides easy procedure to make network connection between wireless station and wireless access point (vigor router) with the encryption of WPA and WPA2.

It is the simplest way to build connection between wireless network clients and vigor router. Users do not need to select any encryption mode and type any long encryption passphrase to setup a wireless client every time. He/she only needs to press a button on wireless client, and WPS will connect for client and router automatically.

The screenshot shows a network management interface with a top navigation bar containing tabs for Status, Network, Wireless, SIP, FXS1, FXS2, Security, Application, and Administration. The 'Wireless' tab is active, and within it, the 'WPS' sub-tab is selected. Below the navigation, there are sub-tabs for Basic, Wireless Security, WMM, WDS, WPS, Station Info, and Advanced. The main content area is titled 'WPS Setting' and contains a 'WPS Config' section with a dropdown menu set to 'Enable' and an 'Apply' button. To the right of the screenshot, there is a legend: 'WPS' is defined as 'If or not enable WPS.', and the 'Apply' button is defined as 'Press the button to apply.'

5.4.5 Station list

The screenshot shows the 'Wireless' configuration page. The top navigation bar is the same as in the previous screenshot. The 'WPS' sub-tab is selected. The main content area is divided into two sections: 'Wireless Status' and 'Wireless Network'. The 'Wireless Status' section displays the following information:

Current Channel	Channel 1
Wireless_7202	00:21:F2:31:34:78

The 'Wireless Network' section contains a table with the following columns:

MAC Address	Aid	PSM	MimoPS	MCS	BW	SGI	STBC
-------------	-----	-----	--------	-----	----	-----	------

5.4.6 Advanced

Advanced Wireless	
Advanced Wireless	
BG Protection Mode	Auto
Beacon Interval	100 ms (range 20 - 999, default 100)
Data Beacon Rate (DTIM)	3 ms (range 1 - 255, default 3)
Fragment Threshold	2346 (range 256 - 2346, default 2346)
RTS Threshold	2347 (range 1 - 2347, default 2347)
TX Power	100 (range 1 - 100, default 100)
Short Preamble	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Short Slot	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Tx Burst	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Pkt Aggregate	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
IEEE 802.11H Support	<input type="radio"/> Enable <input checked="" type="radio"/> Disable (only in A band)
Wi-Fi Multimedia	
WMM Capable	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
APSD Capable	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
WMM Parameters	WMM Configuration
Multicast-to-Unicast Converter	
Multicast-to-Unicast	<input type="radio"/> Enable <input checked="" type="radio"/> Disable

5.5 SIP Account

5.5.1 SIP Settings

Status	Network	Wireless	SIP	FXS1	FXS2	Security	Application	Administration
SIP Settings		VoIP QoS						
SIP Parameters								Help
SIP Parameters								SIP Para These para registratio
SIP T1	500	ms	Max Forward	70				
SIP User Agent Name			Max Auth	2				
Reg Retry Intvl	30	sec	Reg Retry Long Intvl	1200	sec			
Mark All AVT Packets	Enable		RFC 2543 Call Hold	Enable				
SRTP	Disable		SRTP Prefer Encryption	AES_CM				
Service Type	Common		DNS Refresh Timer	0	sec			
Response Status Code Handling								NAT Trav It is helpft NAT.
Retry Reg RSC								
NAT Traversal								
NAT Traversal								
NAT Traversal	Disable		STUN Server Address					
NAT Refresh Interval(sec)	60		STUN Server Port					

5.5.2 FXS

Status	Network	Wireless	SIP	FXS1	FXS2	Security	Application	Administration
SIP Account Preferences Dial Plan Blacklist Call Log								
Basic								
Basic Setup								
Line Enable	Enable ▼			Outgoing Call without Registration	Disable ▼			
Proxy and Registration								
Proxy Server	flyingvoicesz.ddns.net			Proxy Port	5060			
Outbound Server				Outbound Port	5060			
Backup Outbound Server				Backup Outbound Port	5060			
Subscriber Information								
Display Name	540			Phone Number	540			
Account	540			Password	••••••••			
Audio Configuration								
Codec Setup								
Audio Codec Type 1	G.711U ▼			Audio Codec Type 2	G.711A ▼			
Audio Codec Type 3	G.729 ▼			Audio Codec Type 4	G.722 ▼			
Audio Codec Type 5	G.723 ▼							

Help

Basic:
Set the basic your VoIP Se Phone Numb SIP Proxy an

Audio Confi
Select the au use.

Supplemen Subscriptio
Call Waiting your phone t calls during t

Advanced:
The Advance Administrator

5.5.3 VOIP QoS Setting

The screenshot shows a web interface for configuring SIP VoIP QoS. At the top, there is a navigation menu with tabs for Status, Network, Wireless, SIP (selected), FXS1, FXS2, Security, Application, and Administration. Below this, there are sub-tabs for SIP Settings and VoIP QoS. The main content area is titled 'QoS Settings' and contains a section for 'Layer 3 QoS'. This section has two rows of configuration: 'SIP QoS(0-63)' and 'RTP QoS(0-63)', each with a text input field containing the value '46'. At the bottom of the form, there are three buttons: 'Save', 'Cancel', and 'Reboot'.

QoS Settings	
Layer 3 QoS	
SIP QoS(0-63)	<input type="text" value="46"/>
RTP QoS(0-63)	<input type="text" value="46"/>

Save Cancel Reboot

5.6 Phone

5.6.1 Preferences

Status	Network	Wireless	SIP	FXS1	FXS2	Security	Application	Administration
SIP Account	Preferences	Dial Plan	Blacklist	Call Log				

Preferences	
Volume Settings	
Handset Input Gain	5 ▼
Handset Volume	5 ▼
Regional	
Tone Type	China ▼
Dial Tone	
Busy Tone	
Off Hook Warning Tone	
Ring Back Tone	
Call Waiting Tone	
Min Jitter Delay(0-600ms)	20
Max Jitter Delay(20-1000ms)	160
Ringing Time(10-300sec)	60
Ring Waveform	Sinusoid ▼
Ring Voltage(40-63 Vrms)	63
Ring Frequency(15-30Hz)	20
VMWI Ring Splash Len(0.1-10sec)	0.5
Flash Time Max(0.2-1sec)	0.9
Flash Time Min(0.1-0.5sec)	0.1

Help
Prefer
Volume gain or handse
Call Fo
to forw
phone
Auto A
will be

5.6.2 Dial Plan

Status
Network
Wireless
SIP
FXS1
FXS2
Security
Application
Administration

SIP Account
Preferences
Dial Plan
Blacklist
Call Log

Dial Plan

General

Dial Plan: Enable ▼

Unmatched Policy: Accept ▼

No.	FXS	Digit Map	Action	Move Up	Move Down	
1	FXS 1	100xx	Dial Out	▲	▼	<input type="checkbox"/>
2	FXS 1	11[03459]	Dial Out	▲	▼	<input type="checkbox"/>
3	FXS 1	111xx	Dial Out	▲	▼	<input type="checkbox"/>
4	FXS 1	12[02]	Dial Out	▲	▼	<input type="checkbox"/>
5	FXS 1	121xx	Dial Out	▲	▼	<input type="checkbox"/>
6	FXS 1	123xx	Dial Out	▲	▼	<input type="checkbox"/>
7	FXS 1	12530	Dial Out	▲	▼	<input type="checkbox"/>

Help

Dial Plan:
Controls how calls will be dialed on this line. It can add Prefix to Matched Number and remove Digits by setting Dial Cuts.

1. '0 1 2 3 4 5 6 7 8 9 * #' : Legal characters.
2. 'x' : Lowercase letter x stands for one legal character.
3. '[sequence]' : To match one character form sequence. For example: [0-9] : match one digit form 0 to 9; [23-5*] : match one character from 2 or 3 or 4 or 5 or *.
4. 'x.' : Match to x, xx, xxx, xxxx, ... ; For example?01.'can match'0'?01'?011'?011111?.
5. '<'dialed';substituted'>' : Replace dialed with substituted. For example?'<#:23%>xx<#:23%>',

5.6.3 Phonebook

Phonebook Upload && Download

Phonebook Upload && Download

Local File: 浏览...

upload CSV download CSV

Blacklist Upload && Download

Blacklist Upload && Download

Local File: 浏览...

upload CSV download CSV

Phonebook

Index	Name	Number	Ring	
-------	------	--------	------	--

Edit Add Delete Move to blacklist

Blacklist

5.6.4 Call Log

Redial List				
Index	NUMBER	Start Time	Duration	<input type="checkbox"/>
1	501	08/13 09:13	00:00:01	<input type="checkbox"/>
2	550	08/13 15:56	00:00:03	<input type="checkbox"/>
3	550	08/13 16:00	00:00:07	<input type="checkbox"/>
4	1001	08/13 16:12	00:00:01	<input type="checkbox"/>
5	550	08/13 16:12	00:00:08	<input type="checkbox"/>
6	550	08/13 16:16	00:00:10	<input type="checkbox"/>
7	550	08/13 16:32	00:00:56	<input type="checkbox"/>
8	550	08/13 16:38	00:00:22	<input type="checkbox"/>
9	550	08/13 17:06	00:00:22	<input type="checkbox"/>
10	550	08/13 17:07	00:01:01	<input type="checkbox"/>
11	550	08/13 17:10	00:00:00	<input type="checkbox"/>

Answered Calls				
Index	NUMBER	Start Time	Duration	<input type="checkbox"/>
1	501	08/13 09:13	00:00:15	<input type="checkbox"/>
2	015910695671	08/13 09:58	00:03:44	<input type="checkbox"/>

5.7 Security

5.7.1 Filtering Setting

Basic Settings

Basic Settings

MAC/IP/Port Filtering ▾

Default Policy ▾

The packet that don't match with any rules would be:

IP/Port Filter Settings

Mac address

Dest IP Address

Source IP Address

Protocol ▾

Dest. Port Range -

Src Port Range -

Action ▾

Comment

(The maximum rule count is 32.)

Current MAC/IP/Port filtering rules in system

#	Mac address	Dest IP Address	Source IP Address	Protocol	Dest. Port Range	Src Port Range	Action	Comment	PktCnt
Others would be dropped.									

5.7.2 DMZ

Status	Network	Wireless	SIP Account	Phone	Administration	Security
Filtering Setting	DMZ	MAC Clone	Port Forward	Content Filtering		

Please REBOOT to make the changes effective!

Demilitarized Zone (DMZ)

DMZ Setting

DMZ Enable	Enable ▾
DMZ Host IP Address	<input type="text"/>

5.7.3 MAC Clone

MAC Address Clone

MAC Address Clone

MAC Address Clone	Enable ▾
MAC Address	<input type="text"/> <input type="button" value="Get Current PC MAC"/>

5.7.4 Port Forward

Status Network Wireless SIP FXS1 FXS2 Security Application Administration

WAN LTE LAN VPN Port Forward DMZ DDNS QoS MAC Clone Port Setting Routing Advance

Please REBOOT to make the changes effective!

Port Forwarding

No.	Comment	IP Address	Port Range	Protocol
-----	---------	------------	------------	----------

Delete Selected Add Edit

Virtual Servers

No.	Comment	IP Address	Public Port	Private Port	Protocol
1 <input type="checkbox"/>	http	192.168.4.55	5000	80	TCP&UDP

Delete Selected Add Edit

5.7.5 Content Filtering

Webs URL Filter Settings

Current Webs URL Filters:

No.	URL

Add a URL Filter:

URL:

Webs Host Filter Settings

Current Website Host Filters:

No.	Host(Keyword)

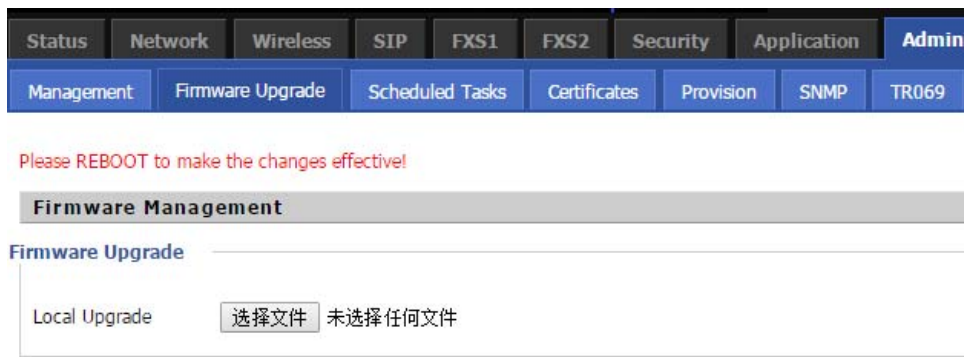
Add a Host (keyword) Filter:

Keyword:

5.8 Administration

5.8.1 Mnagement

5.8.2 Firmware Upgrade



- 1) Choose upgrade file type from **Image File** and **Dial Rule**
- 2) Press to browser file.
- 3) Press to start upgrading.

5.8.3 Provision

Please refer to the provision user manual to test provision.

Please REBOOT to make the changes effective!

Help

Provision

Provision:
Provision allows resync to a spec on a TFTP server which use HTTP

Configuration Profile

Provision Enable	Disable ▾
Resync On Reset	Enable ▾
Resync Random Delay(sec)	40
Resync Periodic(sec)	3600
Resync Error Retry Delay(sec)	3600
Forced Resync Delay(sec)	14400
Resync After Upgrade	Enable ▾
Resync From SIP	Disable ▾
Option 66	Enable ▾
Option 67	Disable ▾
Config File Name	\$(MA)
User Agent	
Profile Rule	

Firmware Upgrade

5.8.4 SNMP

Status	Network	Wireless	SIP	FXS1	FXS2	Security	Application	Administration
Management	Firmware Upgrade	Scheduled Tasks	Certificates	Provision	SNMP	TR069	Diagnosis	Op

Please REBOOT to make the changes effective!

SNMP Configuration

SNMP Configuration

SNMP Service	Disable ▾
Trap Server Address	192.168.10.78
Read Community Name	public
Write Community Name	private
Trap Community	trap
Trap period interval(sec)	1800

SNMP Config
Allow the device to be managed by the Manager with the Manager IP.

[Help](#)

5.8.5 TR069

Status	Network	Wireless	SIP	FXS1	FXS2	Security	Application	Administration
Management	Firmware Upgrade	Scheduled Tasks	Certificates	Provision	SNMP	TR069	Diagnosis	Operating Mode

Please **REBOOT** to make the changes effective!

TR069 Configuration

ACS

TR069 Enable	Disable ▾
CWMP	Enable ▾
ACS URL	<input type="text"/>
User Name	TEST000001
Password <input type="button" value="Show"/>
Periodic Inform Enable	Enable ▾
Periodic Inform Interval	600

Connect Request

User Name	TEST
Password <input type="button" value="Show"/>

Help

TR069 Configuration:
Allow the device to be managed the ACS server which is set in the URL.

5.9 System Log

If you enable the system log in **Status/syslog** webpage, you can view the system log in this webpage.

Status	Network	Wireless	SIP	FXS1	FXS2	Security	Application	Administration
Basic	LAN Host	Syslog						

Refresh Clear Save

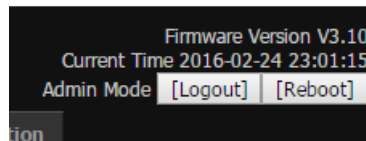
```

Manufacturer:FLYINGVOICE
ProductClass:FWR7202
SerialNumber:TEST000001
BuildTime:201602240227
IP:192.168.4.1:8008
HWVer:V1.1
SWVer:V3.10
<Wed Feb 24 12:41:36 2016> superadmin: 29889 superadm 1732 S /bin/sh /sbin/linkchange.sh
<Wed Feb 24 12:41:41 2016> watchdog[753]: warn:restart ipphone for pcount(26->1)
<Wed Feb 24 12:41:41 2016> ipphone[31004]: ***system booting***
<Wed Feb 24 12:41:41 2016> ipphone[31004]: SW:142(120106174008)
<Wed Feb 24 12:41:43 2016> ipphone[31116]: UISignalControl[30][9000][30][9000][9000]
<Wed Feb 24 12:41:43 2016> ipphone[30842]: Wan If usb0 ip Change :0.0.0.0 -> 10.20.39.136
<Wed Feb 24 12:41:43 2016> ipphone[31004]: Local SIP Addr:10.20.39.136
<Wed Feb 24 12:41:43 2016> ipphone[31004]: Start Init Sip Stack...
<Wed Feb 24 12:41:43 2016> ipphone[31004]: SIP all register client init
<Wed Feb 24 12:41:43 2016> ipphone[31004]: SIP0(Disable) Contact:10.20.39.136:5060
<Wed Feb 24 12:41:43 2016> ipphone[31004]: SIP1(Disable) Contact:10.20.39.136:5061
<Wed Feb 24 12:41:43 2016> ipphone[31004]: Init Sip Stack Success
<Wed Feb 24 12:41:44 2016> ipphone[31001]: Start Register Client ...
<Wed Feb 24 12:41:48 2016> ipphone[30842]: TZ change to GMT-8
<Wed Feb 24 12:42:31 2016> dnsmasq[5893]: reading /etc/resolv.conf
<Wed Feb 24 12:42:31 2016> dnsmasq[5893]: using nameserver 123.123.123.124#53
<Wed Feb 24 12:42:31 2016> dnsmasq[5893]: using nameserver 123.123.123.123#53
<Wed Feb 24 04:34:18 2016> chat[3163]: Can't get terminal parameters: Inappropriate ioctl for device...
<Wed Feb 24 04:34:51 2016> LinkStatus: WAN Link Down
<Wed Feb 24 04:34:51 2016> LinkStatus: LAN1 Link Down

```

5.10 Logout

Press the **logout** button to logout, and then the login window will appear.



5.11 Reboot

Press the **Reboot** button to reboot cnPilot R190W.

6 Troubleshooting of the guide

Setting your PC gets IP automatically

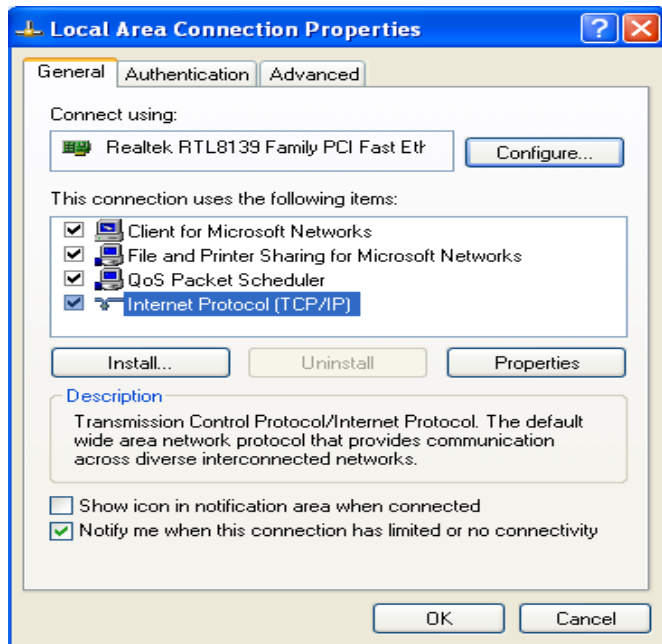
Following are the process of setting your PC gets IP automatically

Step 1. Click the “begin”

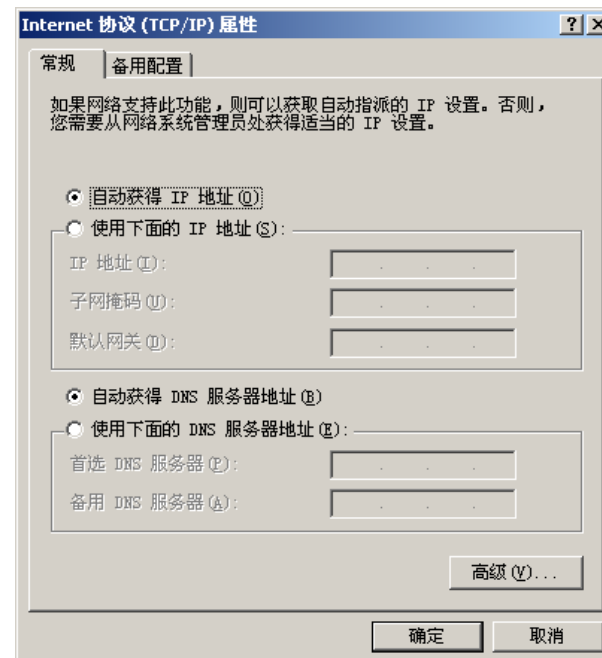
Step 2. Select “control panel”, then double click “network connections” in the “control panel”

Step 3. Right clicks the “network connection” that your PC uses, select “attribute” and you can see the interface as picture 1:

Step 4. Select “Internet Protocol (TCP/IP)”, click “attribute” button, and you can see the interface as following Picture 2 and you should click the “Get IP address automatically”.



Picture 1



Picture 2

6.1 Can not connect to the configuration Website

Solution:

Check if the Ethernet cable is properly connected, then

Check if the URL is right wrote, the format of URL is: **http:// the IP address: 8080**, 8080 must be added, then

Check if the version of IE is IE8, or use other browser such as Firefox or Mozilla, then

Contact your administrator, supplier, or ITSP for more information or assistance.

6.2 Forget the Password

If user changed the password and then forgot, you can not access to the configuration website.

Solution:

To factory default: press reset button 10s.

7 Statement

FCC Radiation Exposure Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices)

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with minimum distance 20cm between the radiator

and your body.

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This device complies with Industry Canada licence - exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) il ne doit pas produire de brouillage et
- (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.