

The cnPilot R190W

User's Guide



V1.0

The page 1 of 56
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Table of Contents

1 Preface.....5

2 LED Indicators and Connectors6

2.1 LED Indicators.....6

2.2 Hardware Installation8

3 Voice Prompt9

4 Configuring Basic Settings 12

4.1 Two-Level Management 12

4.2 Accessing Web Page..... 12

4.2.1 From LAN port 12

4.2.2 From WAN port 13

4.3 Webpage 14

4.4 Setting up the Time Zone 15

4.5 Setting up the Internet Connection 15

4.5.1 Static IP 16

4.5.2 DHCP..... 17

4.6 Setting up the Wireless Connection 18

4.6.1 Encryption 18

4.7 Register 18

4.7.1 Get the Accounts 18

4.7.2 Connections..... 18

4.7.3 Configuration SIP from Webpage 19

4.7.4 View the Register Status..... 19

4.8 Make Call..... 20

4.8.1 Calling phone or extension numbers..... 20

4.8.2 Direct IP calls 20

4.8.3 Call Hold 20

4.8.4 Blind Transfer..... 20

4.8.5 Attended Transfer..... 20

4.8.6 Conference 21

5 Web Configuration..... 22

5.1 Login..... 22

5.2 Status 24

5.3 Network&Security 24

5.3.1 WAN..... 25

5.3.2 LAN 27

5.3.3 DMZ/Port Forward..... 29

5.3.4 MAC Clone 30

5.3.5 Multi WAN..... 31

5.4 Wireless 32

5.4.1 Basic 32

5.4.2	Security	33
5.4.3	WMM.....	33
5.4.4	WPS	33
5.4.5	Station list	34
5.4.6	Advanced	35
5.5	SIP Account	36
5.5.1	SIP Settings	36
5.5.2	FXS.....	37
5.5.3	VOIP QoS Setting	38
5.6	Phone.....	39
5.6.1	Preferences	39
5.6.2	Dial Plan.....	40
5.6.3	Phonebook.....	41
5.6.4	Call Log	42
5.7	Security	43
5.7.1	Filtering Setting.....	43
5.7.2	DMZ	44
5.7.3	MAC Clone.....	44
5.7.4	Port Forward	45
5.7.5	Content Filtering	46
5.8	Administration	47
5.8.1	Mnagement.....	47
5.8.2	Firmware Upgrade.....	48
5.8.3	Provision	48
5.8.4	SNMP.....	50
5.8.5	TR069	51
5.9	System Log	51
5.10	Logout.....	52
5.11	Reboot.....	52
6	Trouble shooting of the guide	53
6.1	Can not connect to the configuration Website	54
6.2	Forget the Password	54
7	Statement	55

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.

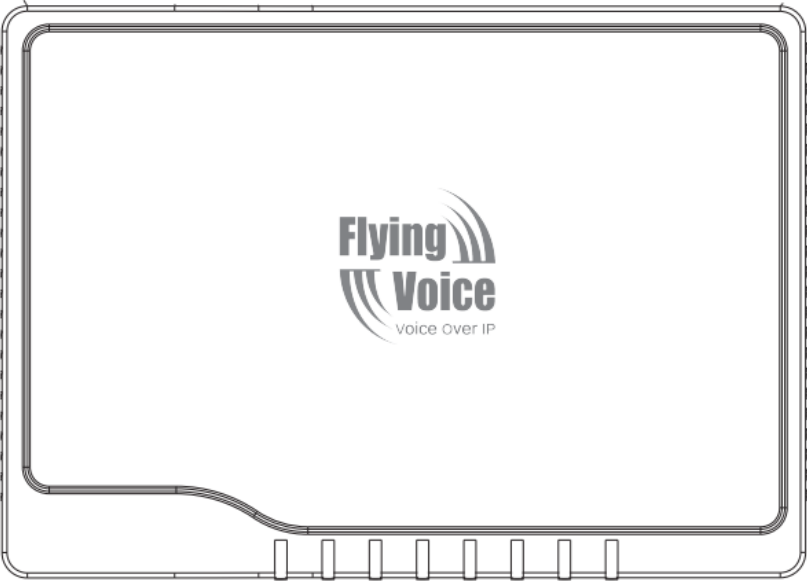
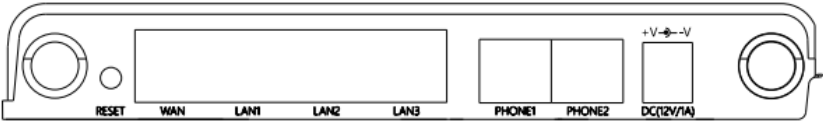
Before you can connect cnPilot R190W to the Internet and use it, you must have a high-speed broadband connection installed. A high-speed connection includes environments such as DSL, cable modem, and a leased line.

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	Step 1.Pick up phone and press “*****” to start IVR Step 2.Choose “1”, and cnPilot R190W report the current WAN port connection type Step 3.Prompt "Please enter password", user need to input password with end char # if user want to configuration WAN port connection type. ✧ 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
2	Step 1.Pick up phone and press “*****” to start IVR Step 2.Choose “2”, and cnPilot R190W report current WAN Port IP Address Step 3.Input the new WAN port IP address and with the end char #, ✧ using “*” to replace “.”, user can input 192*168*20*168 to set the new IP address 192.168.20.168 ✧ press # key to indicate that you have finished Step 4.Report “operation successful” if user operation properly. ✧ Note: If you want to quit by the wayside, press “***”.
3	Step 1.Pick up phone and press “*****” to start IVR Step 2.Choose “3”, and cnPilot R190W report current WAN port subnet mask Step 3.Input a new WAN port subnet mask and with the end char # ✧ using “*” to replace “.”, user can input 255*255*255*0 to set the new WAN port subnet mask 255.255.255.0 ✧ press # key to indicate that you have finished 3) Report “operation successful” if user operation properly. ✧ Note: If you want to quit by the wayside, press “***”.
4	Step 1.Pick up phone and press “*****” to start IVR Step 2.Choose “4”, and cnPilot R190W report current gateway Step 3.Input the new gateway and with the end char # ✧ using “*” to replace “.”, user can input 192*168*20*1 to set the new gateway 192.168.20.1 ✧ press # (pound) key to indicate that you have finished 3) Report “operation successful” if user operation properly. ✧ Note: If you want to quit by the wayside, press “***”.
5	Step 1.Pick up phone and press “*****” to start IVR Step 2.Choose “5”, and cnPilot R190W report current DNS Step 3.Input the new DNS and with the end char # ✧ using “*” to replace “.”, user can input 192*168*20*1 to set the new gateway 192.168.20.1 ✧ press # (pound) key to indicate that you have finished 3) Report “operation successful” if user operation properly. ✧ If you want to quit by the wayside, press “***”.

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

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

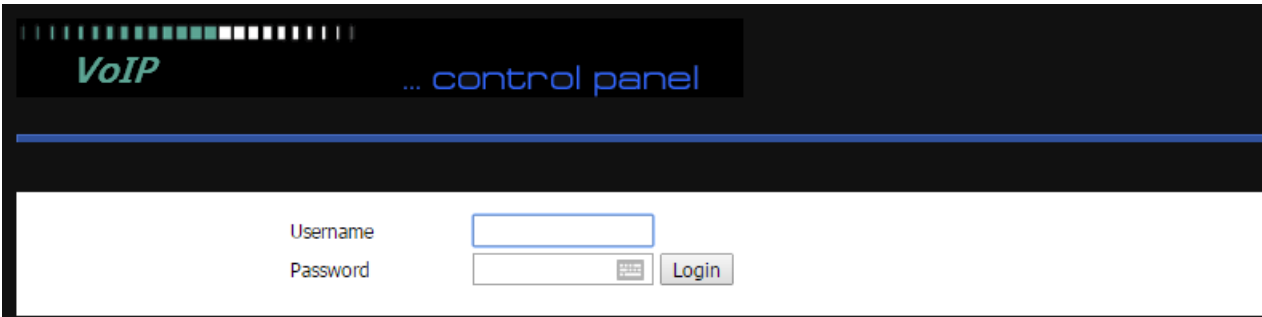
4.2.1 From LAN port

- 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.



- 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.

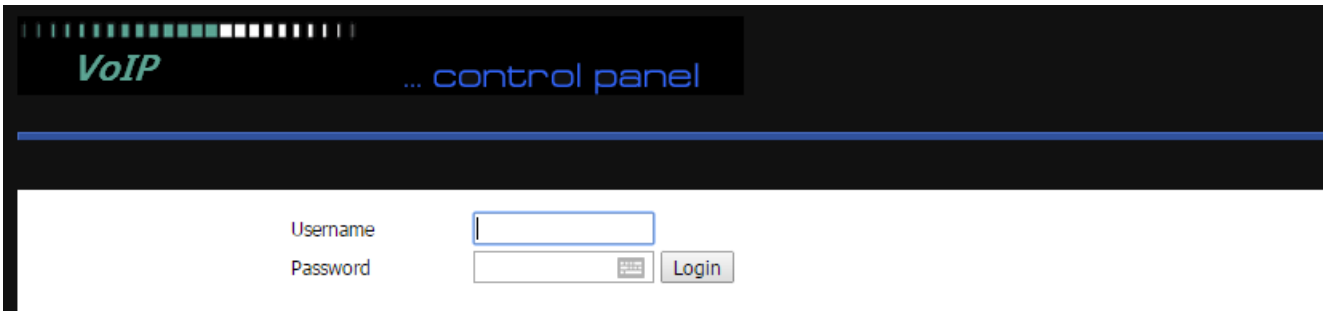


Notice: If you fail to access to the web configuration, please go to “Trouble Shooting” for detecting and solving your problem.

- 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.



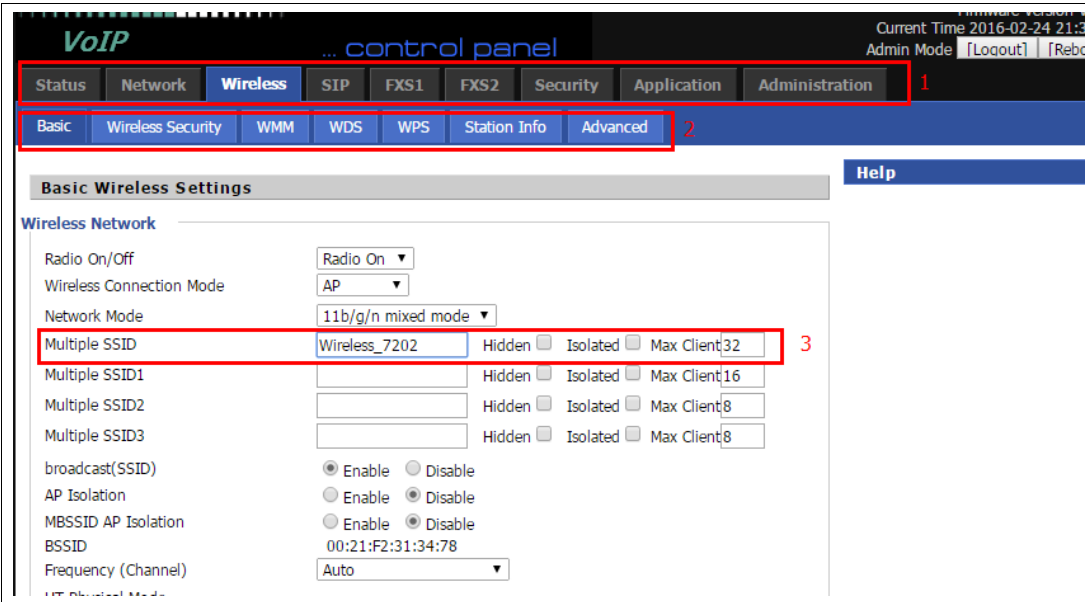
- 4. For administrator mode operation, please type “**admin/admin**” on Username/Password and click Login to configuration. Yet, for root user mode operation, please type “**user/user**” on Username/Password and click Login for full configuration.



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	◆ 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**.

Time/Date Setting

NTP Settings

NTP Enable

Enable

Option 42

Disable

Current Time

2016-02-24 21:40:13

Sync with host

Sync with host

NTP Settings

(GMT+08:00) China Coast, Hong Kong

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.

VoIP

... control panel

Firmware Version V3
Current Time 2016-02-24 21:40
Admin Mode [Logout] [Reboot]

Status

Network

Wireless

SIP

FXS1

FXS2

Security

Application

Administration

WAN

LTE

LAN

VPN

Port Forward

DMZ

DDNS

QoS

MAC Clone

Port Setting

Routing

Advance

INTERNET

WAN

WAN IP Mode

DHCP

DHCP Server

LAN Connection Mode

NAT

DNS Mode

Auto

Primary DNS

Secondary DNS

Save

Cancel

Reboot

Help

WAN IP Mode:

Static IP - Set the IP Address, Subnet Mask and Default Gateway that you have gotten from you ISP provider.

DHCP - You will get an IP Address, Subnet Mask and Default Gateway from some DHCP Server.

PPPoE - Set the PPPoE Account and PPPoE Password that you have gotten from your ISP provider.

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.

WANLTELANVPNPort ForwardDMZDDNSQoSMAC ClonePo

INTERNET

WAN

WAN IP ModeStatic

LAN Connection ModeNAT

Static

IP Address172.29.171.63

Subnet Mask255.255.255.128

Default Gateway172.29.171.1

DNS ModeManual

Primary DNS123.123.123.123

Secondary DNS123.123.123.124

IP AddressType the IP address

Subnet MaskType the subnet mask

Gateway IP AddressType the gateway IP address

Primary DNS ServerType in the primary IP address for the route

Secondary DNS ServerType 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.

WANLTELANVPNPort ForwardDMZDDNSQoSMAC ClonePort S

INTERNET

WAN

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

Save

Cancel

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.

StatusNetworkWirelessSIPFXS1FXS2SecurityApplicationAdministrationBasicWireless SecurityWMMWDSWPSStation InfoAdvanced

WIFI Security SettingHelp

Select SSID

SSID choiceWireless_7102"Wireless_7202"Security ModeWPA-PSKWPA AlgorithmsTKIPAES TKIPAESPass PhraseKey Renewal Interval3600sec (0 ~ 86400)

SSID Choice Choose one SSID from Off-premises 1, off-premises 2 and Premises.

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.

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.

StatusNetworkWirelessSIP**FXS1**FXS2SecurityApplicationAdministra

SIP AccountPreferencesDial PlanBlacklistCall Log

Basic

Basic Setup

Line Enable

Enable

Outgoing Call without Registration

Disable

Proxy and Registration

Proxy Server

flyingvoicesz.ddns.n

Outbound Server

Backup Outbound Server

Proxy Port

5060

Outbound Port

5060

Backup Outbound Port

5060

Subscriber Information

Display Name

540

Phone Number

540

Account

540

Password

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.

StatusNetworkWirelessSIPFXS1FXS2SecurityApplicationAdministration

BasicLAN HostSyslog

Product Information

Product Information

Product Name

FWR7102

Internet(WAN) MAC Address

00:21:F2:31:34:79

PC(LAN) MAC Address

00:21:F2:31:34:78

Hardware Version

V1.1

Loader Version

V3.01(Nov 25 2015 17:34:06)

Firmware Version

V3.10(201602240227)

Serial Number

TEST000001

Help

Product Inform

It shows the bas product.

Line Status:

It shows the regi line.

Network Statu

It shows the infc Port,WIFI and P

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.

StatusNetworkWirelessSIPFXS1FXS2SecurityApplicationAdministration

BasicLAN HostSyslog

Product Information

Product Information

Product Name	FWR 7102
Internet(WAN) MAC Address	00:21:F2:31:34:79
PC(LAN) MAC Address	00:21:F2:31:34:78
Hardware Version	V1.1
Loader Version	V3.01(Nov 25 2015 17:34:06)
Firmware Version	V3.10(201602240227)
Serial Number	TEST000001

Help

Product Information:

It shows the basic inform product.

Line Status:

It shows the registration line.

Network Status:

It shows the information Port,WIFI and PC port.

System Status:

It shows the current time

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.

WANLTELANVPNPort ForwardDMZDDNSQoS

INTERNET

WAN

WAN IP ModeStatic

LAN Connection ModeNAT

Static

IP Address10.20.34.131

Subnet Mask255.255.255.248

Default Gateway10.20.34.129

DNS ModeManual

Primary DNS123.123.123.123

Secondary DNS123.123.123.124

IP AddressType the IP address

Subnet MaskType the subnet mask

Gateway IPType the gateway IP address

Primary DNSType in the primary IP address for the route

Server

Secondary DNSType in secondary IP address for necessity in the

Serverfuture

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.

StatusNetworkWirelessSIPFXS1FXS2SecurityApplication

WANLTELANVPNPort ForwardDMZDDNSQoSMAC ClonePort

INTERNET

WAN

WAN IP ModeDHCP

DHCP Server

LAN Connection ModeNAT

DNS ModeManual

Primary DNS

Secondary DNS

DNS Mode

Primary DNS Server

Secondary DNS Server

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.

Type in the primary IP address for the route

Type in secondary IP address for necessity in the future

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.

<div><div><div>WANLTELANVPNPort ForwardDMZDDNSQoSMAC ClonePort</div><div>INTERNET</div><div>WAN</div><div><div>WAN IP Mode</div><div>PPPoE</div><div>LAN Connection Mode</div><div>NAT</div><div>DNS Mode</div><div>Auto</div><div>Primary DNS</div><div></div><div>Secondary DNS</div><div></div><div>PPPoE</div><div>PPPoE Account</div><div>4346789738</div><div>PPPoE Password</div><div>*****</div><div>Confirm Password</div><div>*****</div><div>Service Name</div><div></div><div>Leave empty to autodetect</div><div>Operation Mode</div><div>Keep Alive</div><div>Keep Alive Redial Period(0-3600s)</div><div>5</div></div></div></div>	<div>PPPoE Account</div> <div>Assign a specific valid user name provided by the ISP</div> <div>PPPoE Password</div> <div>Assign a valid password provided by the ISP</div> <div>PPPoE Auto-Dial</div> <div>If or not enable PPPoE Password.</div> <div>DNS Mode</div> <div>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.</div> <div>Primary DNS Server</div> <div>Type in the primary IP address for the route</div> <div>Secondary DNS Server</div> <div>Type in secondary IP address for necessity in the future</div>
---	--

DDNS Setting

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

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

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><div>Local IP Address</div><div>192.168.11.1</div></div> <div><div>Local Subnet Mask</div><div>255.255.255.0</div></div> <div><div>Local DHCP Server</div><div>Enable</div></div> <div><div>DHCP Start Address</div><div>192.168.11.2</div></div> <div><div>DHCP End Address</div><div>192.168.11.254</div></div> <div><div>DNS Mode</div><div>Auto</div></div> <div><div>Primary DNS</div><div>192.168.11.1</div></div> <div><div>Secondary DNS</div><div></div></div> <div><div>Client Lease Time (0-86400s)</div><div>86400</div></div> <div><div>DNS Proxy</div><div>Enable</div></div>	Local DHCP Server	If or not enable DHCP server.	DHCP Starting Address	Enter a value of the IP address pool for the DHCP server to start with when issuing IP addresses. If the LAN Interface IP	DHCP Ending Address	Enter a value of the IP address pool for the DHCP server to end with when issuing IP addresses.	Primary/Secondary DNS	Input the primary or secondary DNS IP address.
Local DHCP Server	If or not enable DHCP server.							
DHCP Starting Address	Enter a value of the IP address pool for the DHCP server to start with when issuing IP addresses. If the LAN Interface IP							
DHCP Ending Address	Enter a value of the IP address pool for the DHCP server to end with when issuing IP addresses.							
Primary/Secondary DNS	Input the primary or secondary DNS IP address.							

WANLTELANVPNPort ForwardDMZDDNSQoSMAC ClonePort SettingRoutingAdvance

Port Forwarding

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

Delete Selected

Add

Edit

Virtual Servers

No.	Comment	IP Address	Public Port	Private Port	Protocol
-----	---------	------------	-------------	--------------	----------

Delete Selected

Add

Edit

Virtual Servers

Comment

IP Address

Public Port

Private Port

Protocol

TCP&UDP

(The maximum rule count is 32)

Apply

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.

WANLTELANVPNPort ForwardDMZDDNSQoSMAC ClonePort Setting

MAC Address Clone

MAC Address Clone

MAC Address

Enable

Get Current PC MAC

- Step 1.Press

Clone Address

 button to clone the currently PC MAC address to router's Internet port.
- Step 2.Press

Save

 button to save the changes
- Step 3.Press

Cancel

 button to make changes effective

5.3.5 Multi WAN

WANLTELANVPNPort ForwardDMZDDNSQoSMAC ClonePort SettingRoute

INTERNET

WAN

LAN

Connect Name1_MANAGEMENT_VOICE_INTERNET_R_VIDDelete Connect

Service1_MANAGEMENT_VOICE_INTERNET_R_VIDNew Connection

IP Protocol VersionIPv4

WAN IP ModeDHCP

DHCP Server

NAT EnableEnable

VLAN ModeDisable

VLAN ID1(1-4094)

DNS ModeAuto

Primary DNS

Secondary DNS

DHCP

WAN

Static

Mask

have

DHCP

Addn

Gate

PPPoE

PPPoE

from

Note: Muti-wan only used in WAN connection mode

5.4 Wireless

5.4.1 Basic

Basic

Wireless Security

WMM

WDS

WPS

Station Info

Advanced

Basic Wireless Settings

Wireless Network

Radio On/Off

Radio On

Wireless Connection Mode

AP

Network Mode

11b/g/n mixed mode

Multiple SSID

Wireless_7102

Hidden

Isolated

Max Client

32

Multiple SSID1

Hidden

Isolated

Max Client

16

Multiple SSID2

Hidden

Isolated

Max Client

8

Multiple SSID3

Hidden

Isolated

Max Client

8

broadcast(SSID)

Enable

Disable

AP Isolation

Enable

Disable

MBSSID AP Isolation

Enable

Disable

BSSID

00:21:F2:31:34:78

Frequency (Channel)

Auto

HT Physical Mode

Operating Mode

Mixed Mode

Green Field

Channel BandWidth

20

20/40

Guard Interval

Long

Short

Reverse Direction Grant(RDG)

Disable

Enable

HT RxStream

2

Save

Cancel

Reboot

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 page 32 of 56
Revision time: 2016-07-07

5.4.2 Security

Select SSID

SSID choiceWireless_7202"Security ModeWPA-PSK

SSID Choice

Choose one SSID from SSID, Multiple SSID1, Multiple SSID2 and Multiple SSID3.

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.

5.4.3 WMM

Basic	Wireless Security	WMM	WDS	WPS	Station Info	Advanced
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.

StatusNetworkWirelessSIPFXS1FXS2SecurityApplicationAdministra

BasicWireless SecurityWMMWDSWPSStation InfoAdvanced

WPS Setting

WPS Config

WPSEnableApply

Apply

WPS

If or not enable WPS.

Press the button to apply.

5.4.5 Station list

StatusNetworkWirelessSIPFXS1FXS2SecurityApplicationAdministra

BasicWireless SecurityWMMWDSWPSStation InfoAdvanced

Wireless Status

Wireless Status

Current ChannelChannel 1

Wireless_720200:21:F2:31:34:78

Wireless Network

Wireless Network

MAC AddressAidPSMMimoPSMCSBWSGISTBC

5.4.6 Advanced

Advanced Wireless

Advanced Wireless

BG Protection Mode	Auto	
Beacon Interval	100	ms 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

StatusNetworkWirelessSIPFXS1FXS2SecurityApplicationAdministration

SIP SettingsVoIP QoS

SIP Parameters

SIP Parameters

SIP T1	500	ms	Max Forward	70
SIP User Agent Name			Max Auth	2
Reg Retry Intvl	30	sec	Reg Retry Long Intvl	1200
Mark All AVT Packets	Enable		RFC 2543 Call Hold	Enable
SRTP	Disable		SRTP Prefer Encryption	AES_CM
Service Type	Common		DNS Refresh Timer	0

Response Status Code Handling

Retry Reg RSC

NAT Traversal

NAT Traversal	Disable	STUN Server Address	
NAT Refresh Interval(sec)	60	STUN Server Port	

Help

SIP Para

These para

registratio

NAT Trav

It is helpfu

NAT.

5.5.2 FXS

StatusNetworkWirelessSIPFXS1FXS2SecurityApplicationAdministration

SIP AccountPreferencesDial PlanBlacklistCall Log

Basic

Basic Setup

Line Enable

Enable

Outgoing Call without Registration

Disable

Proxy and Registration

Proxy Server

flyingvoicesz.ddns.net

Outbound Server

Backup Outbound Server

Proxy Port

5060

Outbound Port

5060

Backup Outbound Port

5060

Subscriber Information

Display Name

540

Account

540

Phone Number

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

StatusNetworkWirelessSIPFXS1FXS2SecurityApplicationAdministra

SIP SettingsVoIP QoS

QoS Settings

Layer 3 QoS

SIP QoS(0-63)46

RTP QoS(0-63)46

SaveCancelReboot

5.6 Phone

5.6.1 Preferences

StatusNetworkWirelessSIPFXS1FXS2SecurityApplicationAdministration

SIP AccountPreferencesDial PlanBlacklistCall Log

Preferences

Volume Settings

Handset Input Gain5

Handset Volume5

Regional

Tone TypeChina

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

Ring Ringing Time(10-300sec)60

Ring Ring Voltage(40-63 Vrms)63

Ring 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

Preference

Volume gain or handset

Call Forward to forward phone

Auto Answer will be

5.6.2 Dial Plan

StatusNetworkWirelessSIPFXS1FXS2SecurityApplicationAdministration

SIP AccountPreferencesDial PlanBlacklistCall Log

Dial Plan

General

Dial PlanEnable

Unmatched PolicyAccept

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

The page 41 of 56
Revision time: 2016-07-07

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

Disable

Default Policy

Drop

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

Save

Cancel

IP/Port Filter Settings

Mac address

Dest IP Address

Source IP Address

Protocol

NONE

Dest. Port Range

-

Src Port Range

-

Action

Drop

Comment

(The maximum rule count is 32.)

Save

Cancel

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

StatusNetworkWirelessSIP AccountPhoneAdministrationSecurity

Filtering SettingDMZMAC ClonePort ForwardContent Filtering

Please REBOOT to make the changes effective!

Demilitarized Zone (DMZ)

DMZ Setting

DMZ Enable

Enable

DMZ Host IP Address

5.7.3 MAC Clone

MAC Address Clone

MAC Address Clone

MAC Address Clone

Enable

MAC Address

Get Current PC MAC

5.7.4 Port Forward

StatusNetworkWirelessSIPFXS1FXS2SecurityApplicationAdministration

WANLTELANVPNPort ForwardDMZDDNSQoSMAC ClonePort SettingRoutingAdvance

Please REBOOT to make the changes effective!

Port Forwarding				
No.	Comment	IP Address	Port Range	Protocol

Delete SelectedAddEdit

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 SelectedAddEdit

5.7.5 Content Filtering

Webs URL Filter Settings

Current Webs URL Filters:

No.	URL
<div>DeleteCancel</div>	

Add a URL Filter:

URL:

AddCancel

Webs Host Filter Settings

Current Website Host Filters:

No.	Host(Keyword)
<div>DeleteCancel</div>	

Add a Host (keyword) Filter:

Keyword:

AddCancel

5.8 Administration

5.8.1 Mnagement

StatusNetworkWirelessSIPFXS1FXS2SecurityApplicationAdministration

ManagementFirmware UpgradeScheduled TasksCertificatesProvisionSNMPTR069DiagnosisOperating Mode

Please REBOOT to make the changes effective!

Save Config File

Config File Upload && Download

Local File

选择文件

未选择任何文件

Upload

Download

Administrator Settings

Password Reset

User Type

Admin User

New User Name

superadmin

New Password

Confirm Password

(The maximum length is 25)

Language

Language

English

VPN Access

Help

NTP Settings:

Time Zone - Choose the time zone. The router can use local time or UTC time.

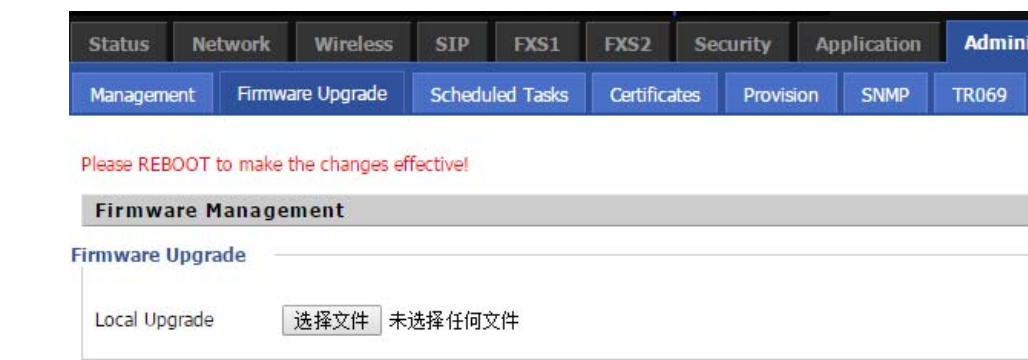
Administrator Settings:

Web Access - Enable or Disable the login function from WAN interface and set the login port that is http request.

Factory Defaults Setting:

Factory Default Lock - Enable the lock function. When a long press RST button or a long press power button, the router will reboot without restoring state.

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.

StatusNetworkWirelessSIPFXS1FXS2SecurityApplicationAdministration

ManagementFirmware UpgradeScheduled TasksCertificatesProvisionSNMPTR069DiagnosisOpen

Please REBOOT to make the changes effective!

Help

Provision:

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

Provision

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

StatusNetworkWirelessSIPFXS1FXS2SecurityApplicationAdministration

ManagementFirmware UpgradeScheduled TasksCertificatesProvisionSNMPTR069DiagnosisOp

Please REBOOT to make the changes effective!

Help

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.

5.8.5 TR069

StatusNetworkWirelessSIPFXS1FXS2SecurityApplicationAdministration

ManagementFirmware UpgradeScheduled TasksCertificatesProvisionSNMPTR069DiagnosisOperating Mode

Please REBOOT to make the changes effective!

Help

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

TR069 Configuration

ACS

TR069 Enable

Disable

CWMP

Enable

ACS URL

User Name

TEST000001

Password

.....

Periodic Inform Enable

Enable

Periodic Inform Interval

600

Connect Request

User Name

TEST

Password

.....

5.9 System Log

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

StatusNetworkWirelessSIPFXS1FXS2SecurityApplicationAdministration

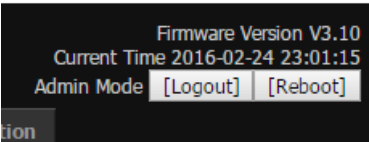
BasicLAN HostSyslog

RefreshClearSave

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 Trouble shooting of the guide

Setting your PC gets IP automatically

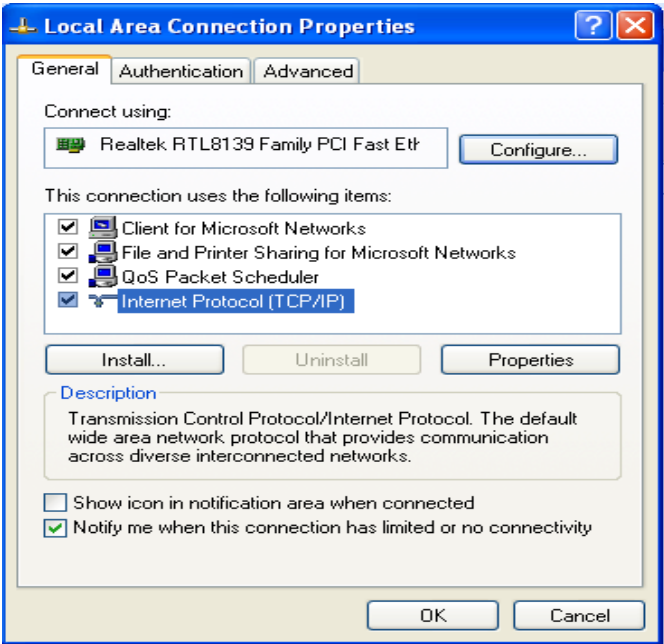
Following are the process of setting your PC gets IP automatically

Step 1.Click the “begin”

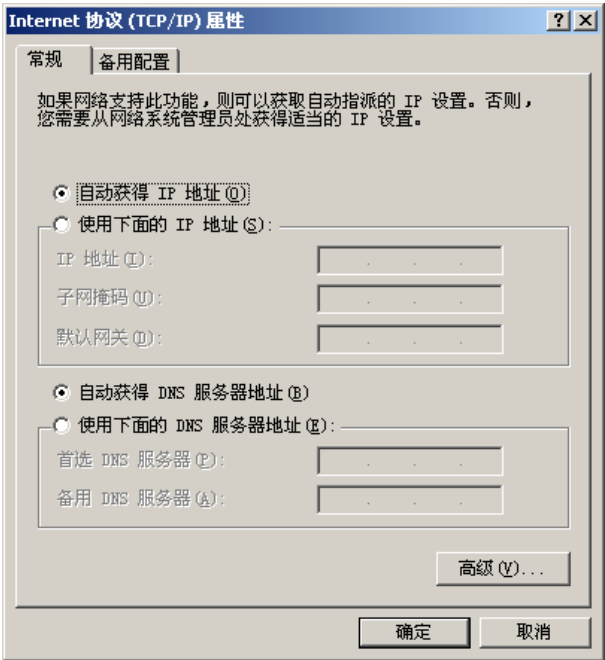
Step 2.Select “control panel”, then double click “network connections” in the “control panel”

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.