



User Manual

FWR9402/FWR9502

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About This User Guide

Thank you for choosing FWR9402/FWR9502 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 FWR9402/FWR9502 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 FWR9402/FWR9502 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. FWR9402/FWR9502 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.



This guide contains the following chapters:

- [Chapter 1: Product description](#)
- [Chapter 2: Configuring Basic Settings](#)
- [Chapter 3: Web Interface Management](#)
- [Chapter 4: Managing device](#)
- [Chapter 5: Troubleshooting Guide](#)

Contacting FlyingVoice

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Purpose

The documents are intended to instruct and assist personnel in the operation, installation and maintenance of the FlyingVoice equipment and ancillary devices. It is recommended that all personnel engaged in such activities be properly trained. FlyingVoice disclaims all liability whatsoever, implied or express, for any risk of damage, loss or reduction in system performance arising directly or indirectly out of the failure of the customer, or anyone acting on the customer's behalf, to abide by the instructions, system parameters, or recommendations made in this document.

Cross references

References to external publications are shown in italics. Other cross references, emphasized in blue text in electronic versions, are active links to the references.

This document is divided into numbered chapters that are divided into sections. Sections are not numbered, but are individually named at the top of each page, and are listed in the table of contents.

Feedback

We appreciate feedback from the users of our documents. This includes feedback on the structure, content, accuracy, or completeness of our documents. Send feedback to support@flyingvoice.com.

Declaration of Conformity

Part 15 FCC Rules

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

- This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.
- This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body



Warning

Changes or modifications to this unit not expressly approved by the party responsible for compliance

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

Warnings and Notes

The following describes how warnings and notes are used in this document and in all documents of the FlyingVoice document set.

Warnings

Warnings precede instructions that contain potentially hazardous situations. Warnings are used to alert the reader to possible hazards that could cause loss of life or physical injury. A warning has the following format:



Warning

Warning text and consequence for not following the instructions in the warning.

Notes

A note means that there is a possibility of an undesirable situation or provides additional information to help the reader understand a topic or concept. A note has the following format:



Notes

Notes text and consequence for not following the instructions in the Notes.

Chapter 1: Product description

This chapter covers:

- [FWR9402/FWR9502](#)
- [LED Indicators and Interfaces](#)
- [Hardware Installation](#)
- [Voice Prompt](#)

FWR9402/FWR9502

Table 1 Features at-a-glance

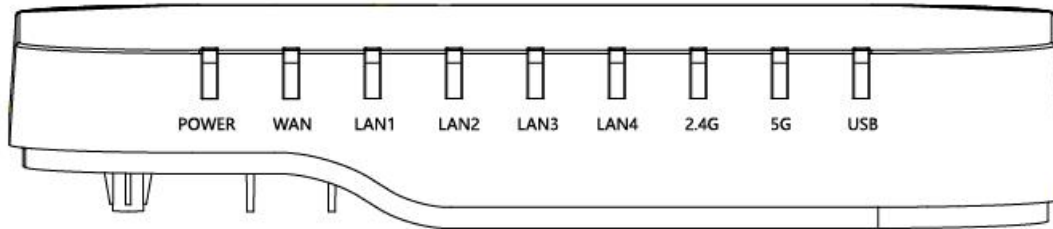
Port/Model	FWR9402	FWR9502
picture		
WAN	1	1
LAN	4	4
FXS	2	2
USB	yes	yes
Speed limit NAT	yes	yes
Ethernet interface	5* RJ45 10/100M/1000M	5* RJ45 10/100M/1000M
Fax	T.30, T.38 Fax	
WiFi	2.4G 2T2R (300Mbps) 5G 2T2R (867Mbps)	2.4G 4T4R(600Mbps) 5G 4T4R(1700Mbps)
Voice Code	G.711 (A-law, U-law), G.729A/B, G.723, G.722 (Wide band)	
Management	Voice menu, Web Management, Provision:TFTP/HTTP/HTTPS, TR069, SNMP	
VLAN	Support	

LED Indicators and Interfaces

Table 2 LED Indicators



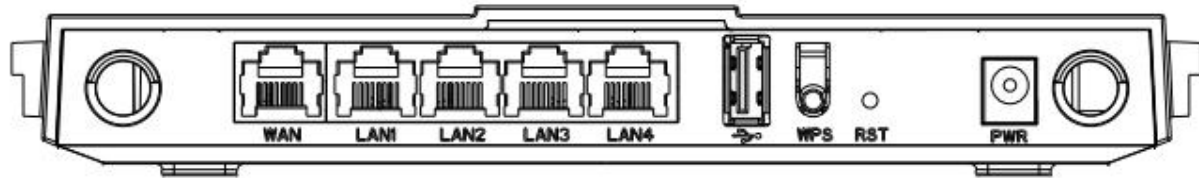
LED	Status	Explanation
PHONE1/2	Blinking (Green)	Not registered
	On (Green)	Registered
5G	On (Green)	The port is connected with 5G
	Off	The port is disconnected
	Blinking (Green)	It will blink while transmitting data.
2.4G	On (Green)	The port is connected with 2.4G
	Off	The port is disconnected.
	Blinking (Green)	It will blink while transmitting data.
LAN1/2/3/4	On (Green)	The port is connected with 1000Mbps.
	Off	The port is disconnected.
	Blinking (Green)	It will blink while transmitting data.
WAN	On (Green)	The port is connected with 1000Mbps.
	Off	The port is disconnected.
	Blinking (Green)	It will blink while transmitting data.
WLAN	On (Green)	Wireless access point is ready.
	Blinking (Green)	It will blink while wireless traffic goes through.
	Off	The system is not powered on or the WIFI switch is off
POWER	On (Green)	The router is powered on and running normally.
	Off	The router is powered off.



LED	Status	Explanation
PHONE1/2	Blinking (Green)	Not registered
	On (Green)	Registered
5G	On (Green)	The port is connected with 5G
	Off	The port is disconnected
	Blinking (Green)	It will blink while transmitting data.
2.4G	On (Green)	The port is connected with 2.4G
	Off	The port is disconnected.
	Blinking (Green)	It will blink while transmitting data.
LAN1/2/3/4	On (Green)	The port is connected with 1000Mbps.
	Off	The port is disconnected.
	Blinking (Green)	It will blink while transmitting data.
WAN	On (Green)	The port is connected with 1000Mbps.
	Off	The port is disconnected.
	Blinking (Green)	It will blink while transmitting data.
WLAN	On (Green)	Wireless access point is ready.
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	Off	The system is not powered on or the WIFI switch is off
POWER	On (Green)	The router is powered on and running normally.
	Off	The router is powered off.

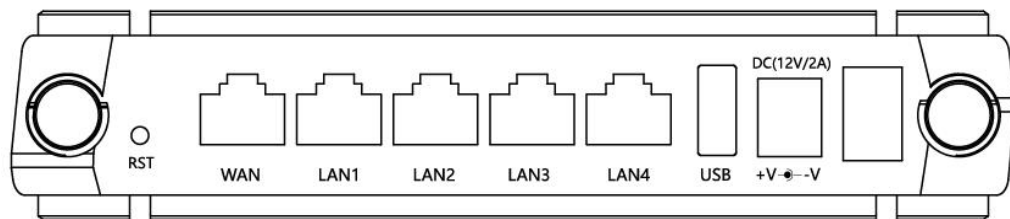
Table 3 Interfaces

FWR9502



Interface	Description
POWER	Connector for a power adapter
Phone1/2	ATA Analog phone connector
WAN	Connector for accessing the Internet
LAN 1/2/3/4	Connectors for local networked devices
RESET	Restore the factory settings button, press and hold the device after 5s to restore the factory settings

FWR9402



Interface	Description
POWER	Connector for a power adapter
Phone1/2	ATA Analog phone connector
WAN	Connector for accessing the Internet
LAN 1/2/3/4	Connectors for local networked devices
RESET	Restore the factory settings button, press and hold the device after 5s to restore the factory settings

Hardware Installation

Before configuring your router, please see the procedure below for instructions on connecting the device in your network.

Procedure 1 Configuring the Router

1. Connect analog phone to ATA Port with an RJ11 cable.
2. Connect the WAN port to the Internet your network's modem/switch/router/ADSL
3. equipment using an Ethernet cable.
4. Connect one end of the power cord to the power port of the device. Connect the other end to the wall outlet.
5. Check the Power, WAN, and LAN LED to confirm network connectivity.



Warning

Please do not attempt to use unsupported power adapters and do not remove power during configuring or updating the device. Using other power adapters may damage



Warning

Changes or modifications not expressly approved by the party responsible for compliance can void the user's authority to operate the equipment.

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 cause harmful interference to radio communications. However, there is no energy and, if not installed and used in accordance with the instructions, may 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.
-

Voice Prompt

The devices may be configured by navigating the unit's voice menu. By using your phone and dialing a sequence of commands, the device may be configured for operation. Each device configuration section may be accessed by entering a certain operation code, as shown below.

Table 4 Voice Menu Setting Options

Operation code	Menu Navigation
1 (1) WAN Port Connection Type	1. Pick up phone and press “****” to start IVR 2. Choose “1” , and The router reports the current WAN port connection type 3. Prompt "Please enter password" , user needs to input password and press “#” key, if user wants to configuration WAN port connection type. The password in IVR is same as web management interface login, the user may use phone keypad to enter password directly For example: WEB login password is “admin” , so the password in IVR is “admin” . The user may “23646” to access and then configure the WAN connection port. The unit reports “Operation Successful” if the password is correct. 4. Prompt "Please enter password" , user needs to input password and press “#” key if user wants to configuration WAN port connection type. 5. Choose the new WAN port connection type (1) DHCP or (2) Static The unit reports “Operation Successful” if the changes are successful. The router returns to the prompt “please enter your option ...” 6. To quit, enter “*”

(2) WAN Port IP Address	1. Pick up phone and press “****” to start IVR 2. Choose “2”, and The router reports current WAN Port IP Address 3. Input the new WAN port IP address and press “#” key: 4. Use “*” to replace “.”, for example user can input 192*168*20*168 to set the new IP address 192.168.20.168 5. Press # key to indicate that you have finished 6. Report “operation successful” if user operation is ok. 7. To quit, enter “**” .
(3) WAN Port Subnet Mask	1. Pick up phone and press “****” to start IVR 2. Choose “3”, and router reports current WAN port subnet mask 3. Input a new WAN port subnet mask and press # key: 4. Use “*” to replace “.”, user can input 255*255*255*0 to set the new WAN port subnet mask 255.255.255.0 5. Press “#” key to indicate that you have finished 6. Report “operation successful” if user operation is ok. 7. To quit, enter “**” .
(4) Gateway	1. Pick up phone and press “****” to start IVR 2. Choose “4”, and the router reports current gateway 3. Input the new gateway and press “#” key: 4. Use “*” to replace “.”, user can input 192*168*20*1 to set the new gateway 192.168.20.1. 5. Press “#” key to indicate that you have finished. 6. Report “operation successful” if user operation is ok. 7. To quit, press “**” .

(5) DNS	1. Pick up phone and press “****” to start IVR 2. Choose “5”, and the router reports current DNS 3. Input the new DNS and press # key: 4. Use “*” to replace “.”, user can input 192*168*20*1 to set the new gateway 192.168.20.1. 5. Press “#” key to indicate that you have finished.
2 phone port configuration	1. Pick up phone and press “****” to start IVR 2. Select "2", then the device will continue to broadcast prompts the user to select current phone number; 2. registration server address; 3. registration port; 4. call forwarding configuration, 5. DNS configuration ; 3. Continue pressing "1" and the unit will continue to broadcast the phone number of the current phone port. The device will then broadcast "1. Phone number ..." again.
3 Factory Reset	1. Pick up phone and press “****” to start IVR 2. Choose “6”, and the router reports “Factory Reset” 3. Prompt "Please enter password", the method of inputting password is the same as operation 1. 4. If you want to quit, press “*” . 5. Prompt “operation successful” if password is right and then the router will be
4 Reboot	1. Pick up phone and press “****” to start IVR 2. Choose “7”, and the router reports “Reboot” 3. Prompt "Please enter password", the method of inputting password is same as operation 1. 4. the router reboots if password is right and operation

5 WAN Port Login	1. Pick up phone and press “****” to start IVR 2. Choose “8”, and the router reports “WAN Port Login” 3. Prompt "Please enter password", the method of inputting password is same as operation 1. 4. If user wants to quit, press “*”.
6 WEB Access Port	1. Pick up phone and press “****” to start IVR 2. Choose “9”, and the router reports “ WEB Access Port” 3. Prompt “Please enter password”, the method of inputting password is same as operation 1. 4. Report “operation successful” if user operation is ok. 5. Report the current WEB Access Port
7 Firmware Version	1. Pick up phone and press “****” to start IVR 2. Choose “0” and the router reports the current Firmware version



Note

1. While using Voice menu, press * (star) to return to main menu.
 2. If any changes made in the IP assignment mode, the router must be rebooted in order for the settings to take effect.
 3. While entering an IP address or subnet mask, use "*" (star) to enter "." (Dot) and use "#" (hash) key to finish entering IP address or subnet mask:
 4. For example, to enter the IP address 192.168.20.159 by keypad, press these keys:
192*168*20*159, use the #(hash) key to indicate that you have finished entering the IP address.
 5. Use the # (hash) key to indicate that you have finish entering the IP address or subnet mask
 6. While assigning an IP address in Static IP mode, setting the IP address, subnet mask and default gateway is required to complete the configuration. If in DHCP mode, please make sure that a DHCP server is available in your existing broadband connection to which WAN port of FWR8102 is connected.
 7. The default LAN port IP address of FWR8102 is 192.168.11.1 and this address should not be assigned to the WAN port IP address of FWR8102 in the same network segment of LAN port.
 8. The password can be entered using phone keypad, the mapping 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',
-

Chapter 2: Configuring Basic Settings

This chapter covers:

- [Two-Level Management](#)
- [Web Management Interface](#)
- [Configuring](#)
- [Making a Call](#)

Two-Level Management

This section explains how to setup a password for an administrator or user and how to adjust basic and advanced settings.

FWR9502 supports two-level management: administrator and user. For administrator mode operation, please type “admin/admin” on Username/Password and click Login button to begin configuration. For user mode operation, please type “user/user” on Username/Password and click Login button to begin configuration.

Web Management Interface

The devices feature a web browser-based interface that may be used to configure and manage the device. See below for information

Logging in from the LAN port

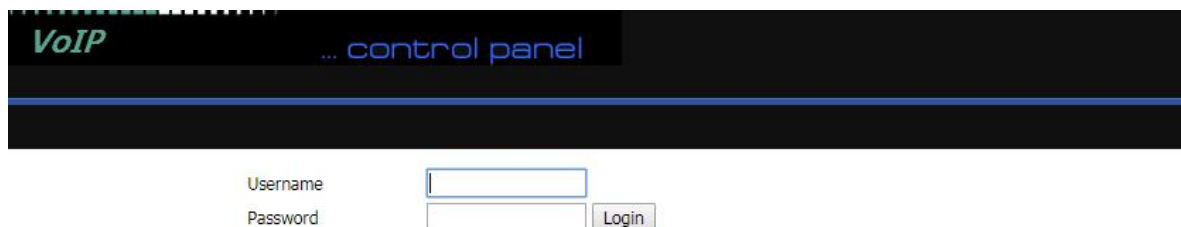
Ensure your PC is connected to the router's LAN port correctly.



Note

You may either set up your PC to get an IP dynamically from the router or set up the IP address of the PC to be the same subnet as the default IP address of router is 192.168.11.1. For detailed information, see Chapter 5: Troubleshooting Guide.

Open a web browser on your PC and type “http://192.168.11.1” . The following window appears that prompts for Username and Password.



VoIP ... control panel

Username

Password Login

For administrator mode operation, please type admin/admin on Username/Password and click Login to begin configuration. For user mode operation, please type user/user on Username/Password and click Login to begin configuration.

**Note**

If you are unable to access the web configuration, please see Chapter 5: Troubleshooting Guide for more information.

The web management interface automatically logs out the user after 5 minutes of inactivity.

Logging in from the WAN port

Ensure your PC is connected to the router's WAN port correctly.

Obtain the IP addresses of WAN port using Voice prompt or by logging into the device web management interface via a LAN port and navigating to Network > WAN.

Open a web browser on your PC and type `http://<IP address of WAN port>`. The following login page will be opened to enter username and password.

VoIP ... control panel

Username

Password

For administrator mode operation, type admin/admin on Username/Password and click Login to begin configuration. For user mode operation, type user/user on Username/Password and click Login to begin configuration.

**Note**

If you fail to access to the web configuration, see Chapter 6: Troubleshooting Guide for more information.

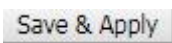
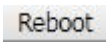
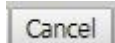
The web management interface automatically logs out the user after 5 minutes of inactivity.

Web Management Interface Details

Table 5 Web management interface

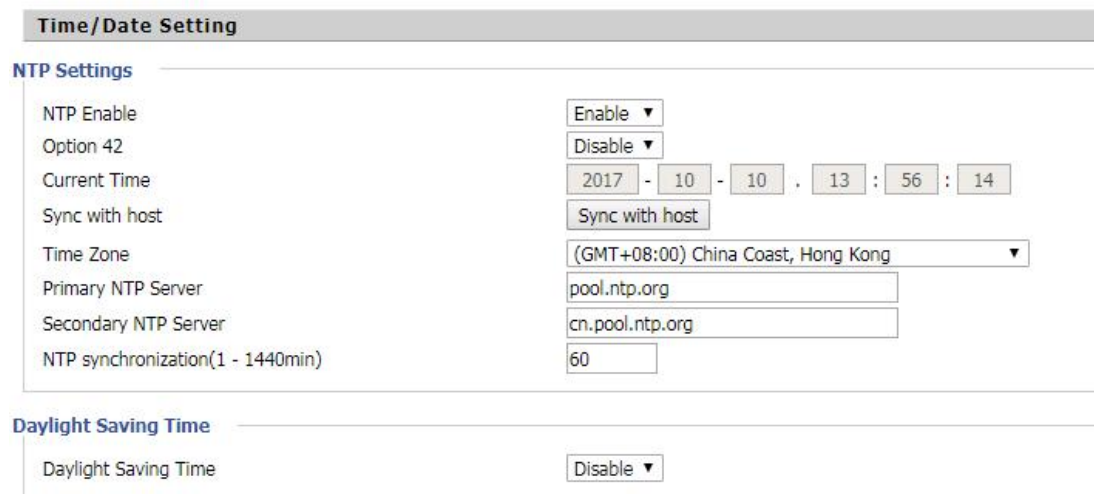
The screenshot displays the VoIP control panel web management interface. The top navigation bar (1) includes tabs for Status, Network, Wireless 2.4GHz, Wireless 5GHz, SIP, FXS1, FXS2, Security, Application, and Storage. The sub-navigation bar (2) shows tabs for WAN, LAN, IPv6 Advanced, IPv6 WAN, IPv6 LAN, VPN, Port Forward, DMZ, VLAN, QoS, Rate Limit, and Port. The main configuration area (3) is titled 'INTERNET' and contains various settings for the WAN connection, such as Connect Name, Service, IP Protocol Version, WAN IP Mode, DHCP Server, MAC Address Clone, NAT Enable, VLAN Mode, VLAN ID, DNS Mode, Primary DNS, Secondary DNS, DHCP Renew, DHCP Vendor, and Port Bind options. A 'Help' sidebar is visible on the right, and buttons for 'Save & Apply', 'Save', 'Cancel', and 'Reboot' are located at the bottom.

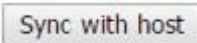
Field Name	Descripti
Top Navigation bar	Click an option in Top Navigation bar (area marked as “1”). Multiple options in the Sub-navigation bar are displayed
Sub-navigation bar	Click the Sub-navigation bar to choose a configuration page (area marked as “2”)
Parameter configuration	This area displays the current parameters for configuration (e.g. area marked as “3”)

	After changing the parameters need to click this button to save&apply, modify the parameters immediately take effect.
	Any time changes are made click "Save" to confirm and save the changes. On click of “Save” button, a red message will be displayed as shown below to notify a reboot.
	Reboot the device to ensure that the modification parameters take effect
	To cancel the changes.

Setting the Time Zone

Table 6 Setting time zone



Field Name	Description
NTP Enable	Enable NTP (Network Time Protocol) to automatically retrieve time and date settings for the device
Current Time	When NTP Enable is set to “Disable” , manually configure the time and date via the Current Time parameter
Sync with host	Press  button to synchronize the host PC date, time and time zone
Primary NTP Server	Primary and secondary NTP server address for clock synchronization. A valid NTP server must be reachable for full NTP functionality
Secondary NTP Server	
NTP Synchronization (1- 1440m)	The synchronization period with NTP (1-1440 minutes), default is 60

Configuring an Internet Connection

From the Network > WAN page, WAN connections may be inserted or deleted. For more information on Internet Connection setting, see Table 10below.

Table 7 Configuring an internet connection

The screenshot displays the WAN configuration page. The top navigation bar includes tabs for Status, Network, Wireless 2.4GHz, Wireless 5GHz, SIP, FXS1, FXS2, Security, and Application. The Network tab is active, showing sub-tabs for WAN, LAN, IPv6 Advanced, IPv6 WAN, IPv6 LAN, VPN, Port Forward, DMZ, VLAN, QoS, and Rate L. The WAN sub-tab is selected, and the 'INTERNET' section is expanded. The configuration fields are as follows:

- Connect Name:** 1_MANAGEMENT_VOICE_INTERNET_R_VID (with a 'Delete Connect' button)
- Service:** MANAGEMENT_VOICE_INTERNET
- IP Protocol Version:** IPv4
- WAN IP Mode:** DHCP
- DHCP Server:** (empty text field)
- MAC Address Clone:** Disable
- NAT Enable:** Enable
- VLAN Mode:** Disable
- VLAN ID:** 1 (range 1-4094)
- DNS Mode:** Auto
- Primary DNS:** (empty text field)
- Secondary DNS:** (empty text field)
- DHCP:**
 - DHCP Renew:** Renew
 - DHCP Vendor (Option 60):** FLYINGVOICE-FWR9502
- Port Bind:**
 - ☒ Port_1, ☒ Port_2, ☒ Port_3, ☒ Port_4
 - ☒ Wireless (SSID), ☒ Wireless (SSID1), ☒ Wireless (SSID2), ☒ Wireless (SSID3)

A note at the bottom states: "Note: LAN (local) ports can only be bound to one WAN (Internet) connection at a time!". At the bottom of the page are buttons for 'Save & Apply', 'Save', 'Cancel', and 'Reboot'.

Field Name	Description
Connect Name	Use keywords to indicate WAN port service model (the parameters are defined in Network--> multi-WAN page)
Service	Chose the service mode for the created connection
IP Protocol Version	IPv4 and IPv6 are supported
WAN IP Mode	Choose Internet connection mode, DHCP, PPPoE, or Bridge
NAT Enable	Enable or disable NAT

VLAN ID

**Note**

Multiple WAN connections may be created with the same VLAN ID

DNS Mode

Select DNS mode, options are Auto and Manual:

When DNS mode is Auto, the device under LAN port will automatically obtains the preferred DNS and alternate DNS.

When DNS mode is Manual, the user should manually configure the preferred DNS and alternate DNS

Primary DNS

Enter the preferred DNS address

Secondary DNS

Enter the secondary DNS address

DHCP

(Displayed when WAN IP Mode is set to DHCP)

DHCP Renew

Refresh the DHCP IP

DHCP Vendor
(Option60)

Specify the DHCP Vendor field Display the vendor and product name

Setting up Wireless Connections

To set up the wireless connection, please perform the following steps.

Enable Wireless and Setting SSID

Open Wireless > Basic webpage as shown below:

Table 8 Wireless > Basic web page (user view)

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application	Storage	Admin
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	FWR9502-0000C8 Enable ☒ Hidden ☐ Isolated ☐ Max Client 32
Multiple SSID1	Enable ☐ Hidden ☐ Isolated ☐ Max Client 16
Multiple SSID2	Enable ☐ Hidden ☐ Isolated ☐ Max Client 8
Multiple SSID3	Enable ☐ Hidden ☐ Isolated ☐ Max Client 8
broadcast (SSID)	☒ Enable ☐ Disable
AP Isolation	☐ Enable ☒ Disable
MBSSID AP Isolation	☐ Enable ☒ Disable
BSSID	00:21:F2:00:00:10
Frequency (Channel)	2437MHz (Channel 6) ▼
HT Physical Mode	
Operating Mode	☒ Mixed Mode ☐ Green Field
Channel BandWidth	☐ 20 ☒ 20/40

Field Name	Description
Radio On/Off	Select "Radio Off" to disable wireless operation Select "Radio on" to enable wireless operation Please note: "Save" required for this parameter change
Network Mode	Choose one network mode from the drop down list.
SSID	The logical name of the wireless connection (text, numbers or various special characters)
Multiple SSID 1-4	Multiple SSID 1 - 4, configure up to 4 unique SSIDs
broadcast(SSID)	Enabled: The device SSID is broadcast at regular intervals Disabled: The device SSID is not broadcast at regular intervals, disallowing wi-fi clients from automatically connecting to the FWR9402

AP Isolation	Enabled: Devices connected to the router are isolated from one another on virtual networks Disabled: Devices connected to the router are visible on the network to each other
MBSSID AP Isolation	Enabled: Devices connected to the router via one of the Multiple SSIDs are isolated from one another on virtual networks Disabled: Devices connected to the router via one of the Multiple SSIDs are visible on the network to each other
BSSID	Basic Service Set Identifier – AP MAC Address Listing
Frequency (Channel)	Select the channel of operation for the device from the drop-down list
HT Physical Mode	
Operating Mode	Mixed Mode: Packet preamble (only) is transmitted in a format compatible with legacy 802.11a/g (for 802.11a/g receivers). Green Field: High throughput packet preambles do not contain legacy formatting (802.11n only network)
Channel Bandwidth	20: the device operates with a 20 MHz channel size 20/40: the device operates with a 40 MHz channel size

Encryption

Open Wireless/Wireless Security webpage to configure custom security parameters.

Table 9 Wireless Security web page

Basic	Wireless Security	WMM	WDS	WPS	Station Info	Advanced
Wi-Fi Security Settings						
Select SSID						
SSID choice		FWR9502-0000C8 ▼				
"FWR9502-0000C8"						
Security Mode		WPAPSKWPA2PSK ▼				
WPA						
WPA Algorithms		☒ TKIP ☐ AES ☐ TKIPAES				
Pass Phrase		*****				
Key Renewal Interval		3600 sec (0 ~ 86400)				
Access Policy						
Policy		Disable ▼				
Add a station MAC		(The maximum rule count is 64)				

Field Name	Description
SSID Choice	Choose the SSID from the drop-down list for which security will be configured
Security Mode	Select an appropriate encryption mode to improve the security and privacy of your wireless data packets. Each encryption mode will launch an additional web page and ask you to offer additional configuration. For high security, the device can be configured for Security Mode as WPA2-PSK and WPA Algorithms as AES.
WPA Algorithms	This parameter is used to select the encryption of wireless home gateway algorithms; options are TKIP, AES and TKIPAES.
Pass Phrase	Configure the WPA-PSK security password.
Key Renewal Interval	Set the key scheduled update cycle, default is 3600s.
Access Policy	
Policy	Disable: Access policy rules are not enforced Allow: Only allow the clients in the station MAC list to access Rejected: Block the clients in the station MAC list from registering
Add a Station MAC	Enter the MAC address of the clients which you want to allow or reject

Configuring Session Initiation Protocol (SIP)

SIP Accounts

The device have 2 FXS ports to make SIP (Session Initiation Protocol) calls. Before registering, the device user should have a SIP account configured by the system administrator or provider. See the section below for more information.

Configuring SIP via the Web Management Interface

Table 10 Configuring SIP the Web Management Interface

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
SIP Account Preferences								
Basic								
Basic Setup Line Enable Enable ▼ Outgoing Call without Registration Disable ▼								
Proxy and Registration Proxy Server Proxy Port 5060 Outbound Server Outbound Port 5060 Backup Outbound Server Backup Outbound Port 5060 Allow DHCP Option 120 to Override SIP Server Disable ▼								
Subscriber Information Display Name Phone Number Account Password								
Procedure								

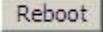
1. Open the FXS1/SIP Account webpage, as illustrated above.
2. Fill the SIP Server address and SIP Server port number (from administrator or provider) into Proxy Server Name and into Proxy Port parameters.
3. Fill account details received from your administrator into Display Name, Phone Number and Account details.
4. Type the password received from your administrator into the Password parameter.
5. Press **Save** button in the bottom of the webpage to save changes.



Note

Upon the following dialogue:

Please REBOOT to make the changes effective!

Please press  button to make changes effective.

Viewing the Registration Status

Table 11 Registration status

Status

Network

Wireless 2.4GHz

Wireless 5GHz

SIP

FXS1

FXS2

Security

Application

Basic

LAN Host

Syslog

Product Information

Product Information

Product Name	FWR9502
Internet (WAN) MAC Address	00:21:F2:00:00:C9
PC (LAN) MAC Address	00:21:F2:00:00:C8
Hardware Version	V4.4
Loader Version	V3.35(May 4 2017 17:41:36)
Firmware Version	V3.20(201709061037)
Serial Number	FLY58161000007

SIP Account Status

SIP Account Status

FXS 1 SIP Account Status	Register Fail
Primary Server	0.0.0.0
Backup Server	0.0.0.0
FXS 2 SIP Account Status	Register Fail
Primary Server	0.0.0.0
Backup Server	0.0.0.0

Procedure

To view the SIP account status of device, open the Status webpage and view the value of registration status.

Making a Call

Calling phone or extension numbers

To make a phone or extension number call:

- Both ATA and the other VoIP device (i.e., another ATA or other SIP products) must have public IP addresses, or
- 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
- Both ATA and the other VoIP device (i.e., another ATA or other SIP products) can be connected through a router using a 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 #.

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:

- Both ATA and the other VoIP device (i.e., another ATA or other SIP products) have public IP addresses, or
- 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
- 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 “#” .

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.

Blind Transfer

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

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.

A can hang up.

Attended Transfer

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

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

Party A dials “*78” to transfer to C, then B and C now in conversation.

If the transfer is not completed successfully, then A and B are in conversation again.

Conference

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

Party A dials “*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.

Party A dials “*88” to add C, then A and B, for conference.

Chapter 3: Web Interface

This chapter guides users to execute advanced (full) configuration through admin mode operation. This chapter covers:

- [Login](#)
- [Status](#)
- [Network and Security](#)
- [Wireless](#)
- [SIP](#)
- [FXS1](#)
- [FXS2](#)
- [Security](#)
- [Application](#)
- [Administration](#)
- [Management](#)
- [System Log](#)
- [Logout](#)
- [Reboot](#)

Login

Table 12 Login details



Username	admin
Password	 Login

Procedure

1. Connect the LAN port of the router to your PC an Ethernet cable
2. Open a web browser on your PC and type http://192.168.1.1.
3. Enter Username admin and Password admin.
4. Click Login

Status

Table 13 Status Page

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
Basic	LAN Host	Syslog						
Product Information								
Product Information								
Product Name		FWR9502						
Internet (WAN) MAC Address		00:21:F2:00:00:C9						
PC (LAN) MAC Address		00:21:F2:00:00:C8						
Hardware Version		V4.4						
Loader Version		V3.35(May 4 2017 17:41:36)						
Firmware Version		V3.20(201709061037)						
Serial Number		FLY58161000007						
SIP Account Status								
SIP Account Status								
FXS 1 SIP Account Status		Register Fail						
Primary Server		0.0.0.0						
Backup Server		0.0.0.0						
FXS 2 SIP Account Status		Register Fail						
Primary Server		0.0.0.0						
Backup Server		0.0.0.0						
FXS Port Status								
FXS Port Status								
FXS 1 Hook State		On						
FXS 1 Port Status		Idle						
FXS 2 Hook State		On						
FXS 2 Port Status		Idle						

Network Status**Active WAN Interface**

Connection Type	DHCP
IP Address	192.168.10.142 Renew
Link-local IPv6 Address	
Subnet Mask	255.255.255.0
Default Gateway	192.168.10.1
Primary DNS	192.168.10.1
Secondary DNS	192.168.18.1
IPv6 PD Prefix	
IPv6 Domain Name	
IPv6 Primary DNS	
IPv6 Secondary DNS	
WAN Port Status	100Mbps Full
WAN Down Speed	1.008KB/s
WAN Up Speed	320B/s

1 TR069_VOICE_INTERNET Vlan Status

Connection Type	DHCP
MAC Address	00:21:F2:00:00:C9
IP Address	192.168.10.142
Subnet Mask	255.255.255.0
Default Gateway	192.168.10.1
Primary DNS	192.168.10.1
Secondary DNS	192.168.18.1

VPN Status

VPN Type	Disable
Initial Service IP	
Virtual IP Address	

LAN Port Status

IP Address	192.168.1.1
Subnet Mask	255.255.255.0
LAN1	Link Down
LAN2	Link Down
LAN3	1000Mbps Full
LAN4	Link Down

Wireless Info**Wireless 2.4GHz**

Radio On/Off	On
Network Mode	11b/g/n mixed mode
Current Channel	1
Channel Bandwidth	40MHz

Wireless 5GHz

Radio On/Off	On
Network Mode	11vht AC/AN/A
Current Channel	1
Channel Bandwidth	80/40MHz

FWR9502-0000C8 (2.4GHz)

BSSID	00:21:F2:00:00:10
Number of Device	0

FWR9502-5G-0000C8 (5GHz)

BSSID	00:0C:43:26:60:00
Number of Device	0

System Status**System Status**

Current Time	2017-10-25 16:13:51
Elapsed Time	2 Hours, 27 Mins

Description

This webpage shows the status information about the Product, Network, and System including Product Information, SIP Account Status, FXS Port Status, Network Status. Wireless Info and System Status

Network and Security

You can configure the WAN port, LAN port, DDNS, Multi WAN, DMZ, Port Forward and other parameters in this section of the web management interface.

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

This configuration may be utilized when a user receives a fixed public IP address or a public subnet, namely multiple public IP addresses from the Internet 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 can assign an IP address to the WAN interface.

Table 14 Internet



Static

IP Address: 192.168.10.173

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.10.1

DNS Mode: Manual ▼

Primary DNS: 192.168.10.1

Secondary DNS: 192.168.18.1

Field Name	Description
IP Address	The IP address of Internet port
Subnet Mask	The subnet mask of Internet port
Default Gateway	The default gateway of Internet port
DNS Mode	Select DNS mode, options are Auto and Manual: - When DNS mode is Auto, the device under LAN port will automatically obtain the preferred DNS and alternate DNS. - When DNS mode is Manual, the user manually configures the preferred DNS and alternate DNS information
Primary DNS Address	The primary DNS of Internet port
Secondary DNS Address	The secondary DNS of Internet port

DHCP

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

The DHCP feature allows to the router to obtain an IP address automatically from a DHCP server. In this case, it is not necessary to assign an IP address to the client manually.

Table 15 DHCP

INTERNET	
WAN	
Connect Name	1_MANAGEMENT_VOICE_INTERNET_R_VID ▼ Delete Connect
Service	MANAGEMENT_VOICE_INTERNET ▼
IP Protocol Version	IPv4 ▼
WAN IP Mode	DHCP ▼
DHCP Server	
MAC Address Clone	Disable ▼
NAT Enable	Enable ▼
VLAN Mode	Disable ▼
VLAN ID	1 (1-4094)
DNS Mode	Auto ▼
Primary DNS	
Secondary DNS	
DHCP	
DHCP Renew	Renew
DHCP Vendor(Option 60)	FLYINGVOICE-FWR8102
Port Bind	
☒ Port_1	☒ Port_2
☒ Wireless(SSID)	☒ Wireless(SSID1)
☒ Port_3	☒ Wireless(SSID2)
	☒ Wireless(SSID3)
Note : WAN connection can not be shared between the binding port , and finally bound port WAN connections bind operation will wash away before the other WAN connection to the port binding operation !	

Field Name	Description
DNS Mode	Select DNS mode, options are Auto and Manual: When DNS mode is Auto, the device under LAN port will automatically obtain the preferred DNS and alternate DNS. When DNS mode is Manual, the user should manually configure the preferred DNS and alternate DNS
Primary DNS Address	Primary DNS of Internet port.
Secondary DNS Address	Secondary DNS of Internet port.
DHCP Renew	Refresh the DHCP IP address
DHCP Vendor (Option60)	Specify the DHCP Vendor field. Display the vendor and product name.

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.

Table 16 PPPoE

INTERNET	
WAN	
Connect Name	1_MANAGEMENT_VOICE_INTERNET_R_VID ▼ Delete Connect
Service	MANAGEMENT_VOICE_INTERNET ▼
IP Protocol Version	IPv4 ▼
WAN IP Mode	PPPoE ▼
MAC Address Clone	Disable ▼
NAT Enable	Enable ▼
VLAN Mode	Disable ▼
VLAN ID	1 (1-4094)
DNS Mode	Auto ▼
Primary DNS	
Secondary DNS	
PPPoE	
PPPoE Account	
PPPoE Password	
Confirm Password	
Service Name	
	Leave empty to autodetect
Operation Mode	Keep Alive ▼
Keep Alive Redial Period(0-3600s)	5

Field Name	Description
PPPoE Account	Enter a valid user name provided by the ISP
PPPoE Password	Enter a valid password provided by the ISP. The password can contain special characters and allowed special characters are \$, +, *, #, @ and ! For example, the password can be entered as #net123@IT!\$+*.

Confirm Password	Enter your PPPoE password again
Service Name	Enter a service name for PPPoE authentication. If it is left empty, the service name is auto detected.
Operation Mode	Select the mode of operation, options are Keep Alive, On Demand and Manual: When the mode is Keep Alive, the user sets the 'keep alive redial period' values range from 0 to 3600s, the default setting is 5 minutes; When the mode is On Demand, the user sets the 'on demand idle time' value in the range of 0-60 minutes, the default setting is 5 minutes; Operation Mode On Demand On Demand Idle Time(0-60m) 5 When the mode is Manual, there are no additional settings to configure
Keep Alive Redial Period	Set the interval to send Keep Alive messaging
PPPoE Account	Assign a valid user name provided by the ISP

Bridge Mode

Bridge Mode under Multi WAN is different with traditional bridge setting. Bridge mode employs no IP addressing and the device operates as a bridge between the WAN port and the LAN port. Route Connection has to be built to give IP address to local service on device.

Table 17 Bridge Mode

INTERNET	
WAN	
Connect Name	1_MANAGEMENT_VOICE_INTERNET_R_VID ▼ Delete Connect
Service	MANAGEMENT_VOICE_INTERNET ▼
IP Protocol Version	IPv4 ▼
WAN IP Mode	Bridge ▼
Bridge Type	IP Bridge ▼
DHCP Service Type	Pass Through ▼
VLAN Mode	Disable ▼
VLAN ID	1 (1-4094)
Port Bind ☒ Port_1 ☒ Port_2 ☒ Port_3 ☒ Wireless(SSID) ☒ Wireless(SSID1) ☒ Wireless(SSID2) ☒ Wireless(SSID3)	
Note : WAN connection can not be shared between the binding port , and finally bound port WAN connections bind operation will wash away before the other WAN connection to the port binding operation !	

Field Name	Description
Bridge Type	
IP Bridge	Allow all Ethernet packets to pass. PC can connect to upper network directly.
PPPoE Bridge	Only Allow PPPoE packets pass. PC needs PPPoE dial-up software.
Hardware IP Bridge	Packets pass through hardware switch with wired speed. Does not support wireless port binding
DHCP Service Type	
Pass Through	DHCP packets can be forwarded between WAN and LAN, DHCP server in gateway will not allocate IP to clients of LAN port.
DHCP Snooping	When gateway forwards DHCP packets form LAN to WAN it will add option82 to DHCP packet, and it will remove option82 when forwarding

	DHCP packet from the WAN interface to the LAN interface. Local DHCP service will not allocate IP to clients of LAN port.
Local Service	Gateway will not forward DHCP packets between LAN and WAN, it also blocks DHCP packets from the WAN port. Clients connected to the LAN port can get IP from DHCP server run in gateway.
VLAN Mode	
Disable	The WAN interface is untagged. LAN is untagged.
Enable	The WAN interface is tagged. LAN is untagged.
Trunk	Only valid in bridge mode. All ports, including WAN and LAN, belong to this VLAN Id and all ports are tagged with this VLAN id. Tagged packets can pass through WAN and LAN.
VLAN ID	Set the VLAN ID.
	 Note Multiple WAN connections may be created with the same VLAN ID
802.1p	Set the priority of VLAN, Options are 0~7.

LAN

LAN Port

NAT translates the packets from public IP address to local IP address to forward packets to the proper destination.

Table 18 LAN port

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application		
WAN	LAN	IPv6 Advanced	IPv6 WAN	IPv6 LAN	VPN	Port Forward	DMZ	VLAN	QoS	Rate
Advance										

PC Port(LAN)

PC Port(LAN)

Local IP Address: 192.168.1.1
Local Subnet Mask: 255.255.255.0
Local DHCP Server: Enable
DHCP Start Address: 192.168.1.2
DHCP End Address: 192.168.1.254
DNS Mode: Auto
Primary DNS: 192.168.1.1
Secondary DNS: 192.168.10.1
Client Lease Time (0-86400s): 86400
DHCP Client List
DHCP Static Allotment

NO.	MAC	IP Address
Delete Selected Add Edit		

DNS Proxy: Enable

Save & Apply Save Cancel Reboot

Field Name	Description
IP Address	Enter the IP address of the router on the local area network. All the IP addresses of the computers which are in the router's LAN must be in the same network segment with this address, and the default gateway of the computers must be this IP address. (The default is 192.168.11.1).
Local Subnet Mask	Enter the subnet mask to determine the size of the network (default is 255.255.255.0/24).
Local DHCP Server	Enable/Disable Local DHCP Server.

DHCP Start Address	Enter a valid IP address as a starting IP address of the DHCP server, and if the router's LAN IP address is 192.168.11.1, starting IP address can be 192.168.11.2 or greater, but should be less than the ending IP address.
DHCP End Address	Enter a valid IP address as an end IP address of the DHCP server.
DNS Mode	Select DNS mode, options are Auto and Manual: When DNS mode is Auto, the device under LAN port will automatically obtains the preferred DNS and alternate DNS. When DNS mode is Manual, the user should manually configure the preferred DNS and alternate DNS.
Primary DNS	Enter the preferred DNS address.
Secondary DNS	Enter the secondary DNS address.
Client Lease Time	This option defines how long the address will be assigned to the computer within the network. In that period, the server does not assign the IP address to the other computer.
DNS Proxy	Enable or disable; If enabled, the device will forward the DNS request of LAN-side network to the WAN side network.

DHCP Server

The router has a built-in DHCP server that assigns private IP address to each local client.

DHCP stands for Dynamic Host Configuration Protocol. The router, by factory default acts a DHCP server for your network so it automatically dispatches 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.

Table 19 DHCP server settings

PC Port(LAN)	
PC Port(LAN)	
Local IP Address	192.168.11.1
Local Subnet Mask	255.255.255.0
Local DHCP Server	Enable ▼
DHCP Start Address	192.168.11.2
DHCP End Address	192.168.11.254
DNS Mode	Auto ▼

Field Name	Description
Local DHCP Server	Enable/Disable DHCP server.
DHCP Start Address	Enter a value of the IP address pool for the DHCP server to start with when issuing IP addresses.
DHCP End Address	Enter a value of the IP address pool for the DHCP server to end with when issuing IP addresses.
DNS Mode	If DNS information is to be received from a network server, set this parameter to Auto. If DNS information is to be configured manually, set this parameter to Manual.

Table 20 DHCP server, DNS and Client Lease Time

Primary DNS	192.168.11.1
Secondary DNS	8.8.8.8
Client Lease Time(0-86400s)	86400
	DHCP Client List

Field Name	Description
Primary DNS	Specify the Primary DNS address provided by your ISP. 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	Specify the Secondary DNS address provided by your ISP. If your ISP does not provide this address, the router will automatically apply default Secondary DNS Server IP of 202.96.128.86 to this field. 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.
Client Lease Time	It allows you to set the leased time for the specified PC.

VPN

The router supports VPN connections with PPTP-based VPN servers.

Table 21 VPN

The screenshot shows the router's web interface with the 'Network' tab selected. Under 'Network', the 'VPN' sub-tab is active. The 'VPN Settings' section is visible, and the 'VPN Enable' dropdown menu is open, showing options: Disable (selected), PPTP, L2TP, and OpenVPN. At the bottom of the settings area are buttons for 'Save & Apply', 'Save', 'Cancel', and 'Reboot'.

Field Name	Description
VPN Enable	Enable/Disable VPN. If the VPN is enabled, user can select PPTP and L2TP mode VPN.
Initial Service IP	Enter VPN server IP address.
User Name	Enter authentication username.
Password	Enter authentication password.

Port Forward

Table 22 Port Forward

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application	Storage	Admi	
WAN	LAN	IPv6 Advanced	IPv6 WAN	IPv6 LAN	VPN	Port Forward	DMZ	VLAN	QoS	Rate Limit	Port Setting
Advance											

Port Forwarding				
No.	Comment	IP Address	Port Range	Protocol
Delete Selected Add Edit				
Port Forwarding				
Comment				
IP Address				
Port Range		-		
Protocol		TCP&UDP ▼		
(The maximum rule count is 32)				
Apply Cancel				

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					

Field Name	Description
Comment	Sets the name of a port mapping rule or comment
IP Address	The IP address of devices under the LAN port
Port Range	Set the port range for the devices under the LAN port. (1-65535)
Protocol	You can select TCP, UDP, TCP & UDP three cases
Apply/Cancel	After finish configurations, click apply, the number will be generated under NO. List; click Cancel to if you do not want to make the changes
Comment	To set up a virtual server notes
IP Address	Virtual server IP address
Public Port	Public port of virtual server
Private Port	Private port of virtual servers ports
Protocol	You can select from TCP, UDP, and TCP&UDP
Apply/Cancel	After finish configurations, click apply, the number will be generated under NO. List; click Cancel to if you do not want to make the changes

VLAN

Table 23 VLAN

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application	Storage	Admin	
WAN	LAN	IPv6 Advanced	IPv6 WAN	IPv6 LAN	VPN	Port Forward	DMZ	VLAN	QoS	Rate Limit	Port Setting
Advance											

VLAN Model Configuration					
VLAN Divide Model		Custom ▼			

Port VLAN ID Configuration				
WAN	LAN1	LAN2	LAN3	LAN4
1	2	2	2	2

VLAN Configuration					
VLAN ID	Port				
	WAN	LAN1	LAN2	LAN3	LAN4
☒ 1	UnTagged ▼	UnSet ▼	UnSet ▼	UnSet ▼	UnSet ▼
☒ 2	UnSet ▼	UnTagged ▼	UnTagged ▼	UnTagged ▼	UnTagged ▼
☐	UnSet ▼	UnSet ▼	UnSet ▼	UnSet ▼	UnSet ▼

Field Name	Description
VLAN Divide Model	Select the desired mode
VLAN Configurations	Select the desired configuration, divided into unset / Tagged / unTagged

DMZ

Table 24 DMZ

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
WAN	LAN	IPv6 Advanced	IPv6 WAN	IPv6 LAN	VPN	Port Forward	DMZ	VLAN
Advance								

Demilitarized Zone (DMZ)

DMZ Setting

DMZ Enable Enable ▾

DMZ Host IP Address Get Current PC IP

Save & Apply Save Cancel Reboot

Field Name	Description
DMZ Enable	Enable/Disable DMZ.
DMZ Host IP Address	Enter the private IP address of the DMZ host.

QoS

Table 25 QoS

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application	Storage
WAN	LAN	IPv6 Advanced	IPv6 WAN	IPv6 LAN	VPN	Port Forward	DMZ	VLAN	QoS
Advance									

QoS setting

QoS setting

Enable QoS Enable ▾

Upstream (0-102400)kbit/s

Downstream (0-102400)kbit/s

Algorithm WFQ ▾

Save Cancel

	Name	Condition									Action			
		Src.IP Address	Dst.IP Address	Protocol	Src.Port Range	Dst.Port Range	Physical Port	DSCP	802.1p	VLAN ID	Remark DSCP	Remark 802.1p	Remark VLAN_ID	Priority
Delete Selected Add														

Field Name	Description
QoS Enable	Enable/Disable QoS function
Upstream	Set the upstream bandwidth
Downstream	Set the downstream bandwidth
Delete Selected	In NO., Check the items you want to delete, click the Delete option
Add	Click Add to add a new parameter

**Note**

From system release 4.2 or later, the QoS bandwidth can be configured for Upstream and Downstream

Rate Limit

Table 26 Port setting

WAN

LAN

IPv6 Advanced

IPv6 WAN

IPv6 LAN

VPN

Port Forward

DMZ

VLAN

QoS

Rate Limit

Advance

Rate Limit Setting

Help

Enable Rate Limit

Enable Rate Limit

Enable ▼

Port	Ingress Rate	Egress Rate
WAN	100000 (1-100000)kbit/s	100000 (1-100000)kbit/s
LAN1	100000 (1-100000)kbit/s	100000 (1-100000)kbit/s
LAN2	100000 (1-100000)kbit/s	100000 (1-100000)kbit/s
LAN3	100000 (1-100000)kbit/s	100000 (1-100000)kbit/s
LAN4	100000 (1-100000)kbit/s	100000 (1-100000)kbit/s

Port	Broadcast Storm Rate
WAN	255 (0-255)*64 packets/s
LAN1	255 (0-255)*64 packets/s
LAN2	255 (0-255)*64 packets/s
LAN3	255 (0-255)*64 packets/s
LAN4	255 (0-255)*64 packets/s

Description

Set the port speed limit for WAN port and LAN port, select enable or disable

Port Setting

Table 27 Port setting

Field Name	Description
WAN Port speed Nego	Auto-negotiation, options are Auto, 100M full, 100M half-duplex, 10M half and full.
LAN1~LAN3 Port Speed Nego	Auto-negotiation, options are Auto, 100M full, 100M half, 10M half and 10M full.

Routing

Table 28 Routing

Field Name	Description
Destination	Destination address
Host/Net	Both Host and Net selection
Gateway	Gateway IP address
Interface	LAN/WAN/Custom three options, and add the corresponding address
Comment	Comment

Advance

Table 29 Advance

WAN	LAN	IPv6 Advanced	IPv6 WAN	IPv6 LAN	VPN	Port Forward	DMZ	VLAN	QoS	Rate
Advance										

Most Nat connections (512-8192)	4096
MSS Mode	☒ Manual ☐ Auto
MSS Value (1260-1460)	1440
Anti-DoS-P	☒ Enable ☐ Disable
IP Conflict Detection	☒ Enable ☐ Disable
IP Conflict Detecting Interval(0-3600s)	600

Field Name	Description
Most Nat connections	The largest value which the FWR9502 can provide
Mss Mode	Choose Mss Mode from Manual and Auto
Mss Value	Set the value of TCP
AntiDos-p	You can choose to enable or prohibit
IP conflict detection	Select enable if enabled, phone IP conflict will have tips or prohibit
IP conflict Detecting Interval	Detect IP address conflicts of the time interval

Wireless 2.4G

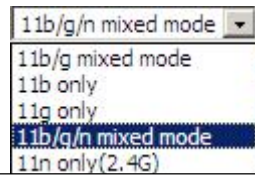
Basic

Table 30 Basic

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application	Storage	Admin
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	FWR9502-0000C8 Enable ☒ Hidden ☐ Isolated ☐ Max Client 32
Multiple SSID1	Enable ☐ Hidden ☐ Isolated ☐ Max Client 16
Multiple SSID2	Enable ☐ Hidden ☐ Isolated ☐ Max Client 8
Multiple SSID3	Enable ☐ Hidden ☐ Isolated ☐ Max Client 8
broadcast (SSID)	☒ Enable ☐ Disable
AP Isolation	☐ Enable ☒ Disable
MBSSID AP Isolation	☐ Enable ☒ Disable
BSSID	00:21:F2:00:00:10
Frequency (Channel)	2437MHz (Channel 6) ▼
HT Physical Mode	
Operating Mode	☒ Mixed Mode ☐ Green Field
Channel BandWidth	☐ 20 ☒ 20/40
Guard Interval	☐ Long ☒ Short
Reverse Direction Grant (RDG)	☐ Disable ☒ Enable
Extension Channel	2457MHz (Channel 10) ▼
STBC	☐ Disable ☒ Enable
Aggregation MSDU (A-MSDU)	☒ Disable ☐ Enable
Auto Block ACK	☐ Disable ☒ Enable
Decline BA Request	☒ Disable ☐ Enable
HT Disallow TKIP	☐ Disable ☒ Enable
HT LDPC	☒ Disable ☐ Enable

Field Name	Description
Radio on/off	Select "Radio off" to disable wireless. Select "Radio on" to enable wireless.
Wireless connection mode	According to the wireless client type, select one of these modes. Default is AP
Network Mode	Choose one network mode from the drop down list. Default is 11b/g/n mixed mode



SSID	It is the basic identity of wireless LAN. SSID can be any alphanumeric or a combination of special characters. It will appear in the wireless network access list.
Multiple SSID1~SSID3	The device supports 4 SSIDs.
Hidden	After the item is checked, the SSID is no longer displayed in the search for the Wi-Fi wireless network connection list
Broadcast(SSID)	After initial State opening, the device broadcasts the SSID of the router to wireless network
AP Isolation	If AP isolation is enabled, the clients of the AP cannot access each other.
MBSSID AP Isolation	AP isolation among the devices which are not belong to this AP and along to, when the option is enabled, the devices which do not belong to this AP cannot access the devices which are within the AP
BSSID	A group of wireless stations and a WLAN access point (AP) consists of a basic access device (BSS), each computer in the BSS must be configured with the same BSSID, that is, the wireless AP logo
Frequency (Channel)	You can select Auto Select and channel 1/2/3/4/5/6/7/8/9/10/11.
HT Physical Mode Operating Mode	Mixed Mode: In this mode, the previous wireless card can recognize and connect to the Pre-N AP, but the throughput will be affected Green Field: high throughput can be achieved, but it will affect backward compatibility, and security of the system
Channel Bandwidth	Select channel bandwidth, default is 20 MHz and 20/40 MHz.
Guard Interval	The default is automatic, in order to achieve good BER performance, you must set the appropriate guard interval
Reverse Dirction Grant (RDG)	Enabled: Devices on the WLAN are able to transmit to each other without requiring an additional contention-based request to transfer (i.e. devices are able to transmit to another device on the network during TXOP) Disabled: Devices on the WLAN must make a request for transmit when communicating with another device on the network
STBC	Space-time Block Code

	Enabled: Multiple copies of signals are transmitted to increase the chance of successful delivery
Aggregation MSDU (A-MSDU)	Enabled: Allows the device to aggregate multiple Ethernet frames into a single 802.11n, thereby improving the ratio of frame data to frame overhead Disabled: No frame aggregation is employed at the router
Auto Block Ack	Enabled: Multiple frames are acknowledged together using a single Block Acknowledgement frame. Disabled: Auto block acknowledgement is not used by the device – use this configuration when low throughput/connectivity issues are experienced by mobile devices
Decline BA Request	Enabled: Disallow block acknowledgement requests from devices Disabled: Allow block acknowledgement requests from devices
HT Disallow TKIP	Enabled: Disallow the use of Temporal Key Integrity Protocol for connected devices Disabled: Allow the use of Temporal Key Integrity Protocol for connected devices
HT LDPC	Enabled: Enable Low-Density Parity Check mechanism for increasing chance of successful delivery in challenging wireless environments Disabled: Disable Low-Density Parity Check mechanism

Wireless Security

Table 31 Wireless security

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
Basic	Wireless Security	WMM	WDS	WPS	Station Info	Advanced		

Wi-Fi Security Settings

Select SSID

SSID choice

FWR9502-0000C8 ▼

"FWR9502-0000C8"

Security Mode

WPAPSKWPA2PSK ▼

WPA

WPA Algorithms

☒ TKIP
☐ AES
☐ TKIPAES

Pass Phrase

Key Renewal Interval

3600

sec (0 ~ 86400)

Access Policy

Policy

Disable ▼

Add a station MAC

(The maximum rule count is 64)

Save & Apply

Save

Cancel

Reboot

Field Name	Description
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.

User can configure the corresponding parameters. Here are some common encryption methods:

OPENWEP: A handshake way of WEP encryption, encryption via the WEP key:

Table 32 WiFi Security Setting

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
Basic	Wireless Security	WMM	WDS	WPS	Station Info	Advanced		

Wi-Fi Security Settings

Select SSID

SSID choice

FWR9502-0000C8 ▼

"FWR9502-0000C8"

Security Mode

OPENWEP ▼

Wire Equivalence Protection (WEP)

Default Key

WEP Key 1 ▼

WEP Key 1

Hex ▼

64bit ▼

WEP Key 2

Hex ▼

64bit ▼

WEP Key 3

Hex ▼

64bit ▼

WEP Key 4

Hex ▼

64bit ▼

Access Policy

Policy

Disable ▼

Add a station MAC

(The maximum rule count is 64)

Field Name	Description
Security Mode	This is used to select one of the 4 WEP keys, key settings on the clients should be the same with this when connecting.
WEP Keys	Set the WEP key. A-64 key need 10 Hex characters or 5 ASCII characters; choose A-128 key need 26 Hex characters or 13 ASCII characters.
WEP represents Wired Equivalent Privacy, which is a basic encryption method.	

WPA-PSK, the router will use WPA way which is based on the shared key-based .

Table 33 WPA-PSK

Wi-Fi Security Settings	
Select SSID	
SSID choice	FWR9502-0000C8 ▼
"FWR9502-0000C8"	
Security Mode	WPA-PSK ▼
WPA	
WPA Algorithms	☒ TKIP ☐ AES ☐ TKIPAES
Pass Phrase	*****
Key Renewal Interval	3600 sec (0 ~ 86400)
Access Policy	
Policy	Disable ▼
Add a station MAC	(The maximum rule count is 64)

Field Name	Description
WPA Algorithms	This item is used to select the encryption of wireless home gateway algorithms, options are TKIP, AES and TKIPAES.
Pass Phrase	Setting up WPA-PSK security password.

WPAPSKWPA2PSK manner is consistent with WPA2PSK settings:

Table 34 WPAPSKWPA2PSK

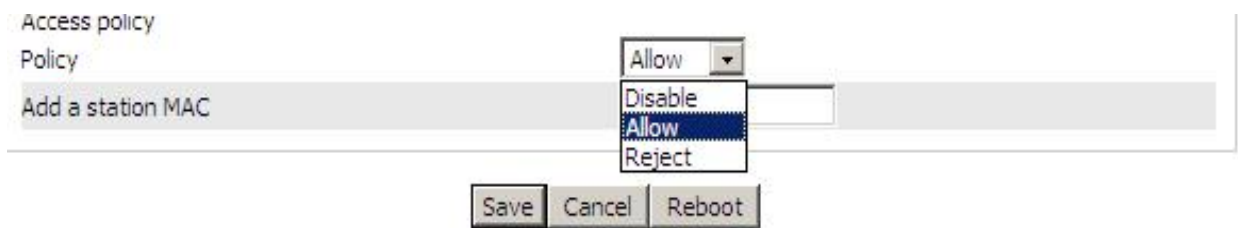
Wi-Fi Security Settings	
Select SSID	
SSID choice	FWR9502-0000C8 ▼
"FWR9502-0000C8"	
Security Mode	WPAPSKWPA2PSK ▼
WPA	
WPA Algorithms	☒ TKIP ☐ AES ☐ TKIPAES
Pass Phrase	*****
Key Renewal Interval	3600 sec (0 ~ 86400)

Field Name	Description
WPA Algorithms	The home gateway is used to select the wireless security encryption algorithm options are TKIP, AES, TKIP / AES. 11N mode does not support TKIP algorithms.
Pass Phrase	Set WPA-PSK/WPA2-PSK security code
Key Renewal Interval	Set the key scheduled update cycle, default is 3600s

WPA-PSK/WPA2-PSK WPA/WPA2 security type is actually a simplified version, which is based on the WPA shared key mode, higher security setting is also relatively simple, suitable for ordinary home users and small businesses.

Wireless Access Policy:

Table 35 Wireless Access Policy



Field Name	Description
Access policy	Wireless access control is used to allow or prohibit the specified client to access to your wireless network based on the MAC address.
Policy	Disable : Prohibition: wireless access control policy. Allow: only allow the clients in the list to access. Rejected: block the clients in the list to access.
Add a station MAC	Enter the MAC address of the clients which you want to allow or prohibit

Example: Prohibit the device whose wireless network card MAC address is 00:1F: D0: 62: BA:FF's to access the wireless network, and allow other computers to access the network.Implementation: As shown, the Policy is Reject, add 00:1F: D0: 62: BA: FF to the MAC, click Save and reboot the device settings to take effect.

WMM

Table 36 WMM

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
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	☐	☐
AC_BK	7	15 ▼	1023 ▼	0	☐	☐
AC_VI	1	7 ▼	15 ▼	94	☐	☐
AC_VO	1	3 ▼	7 ▼	47	☐	☐

Save & Apply

Apply

Cancel

Description

WMM (Wi-Fi Multi-Media) is the QoS certificate of Wi-Fi Alliance (WFA). This provides you to configure the parameters of wireless multimedia; WMM allows wireless communication to define a priority according to the home gateway type. To make WMM effective, the wireless clients must also support WMM.

WDS

Table 37 WDS

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
Basic	Wireless Security	WMM	WDS	WPS	Station Info	Advanced		

WDS Setting

WDS Config

WDS Mode

Disable
Disable
Lazy Mode
Bridge Mode
Repeater Mode

Save & Apply
Save

Description

WDS stands for Wireless Distribution System, enabling WDS access points to be interconnected to expand a wireless network.

WPS

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

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

Table 38 WPS

WPS Setting

WPS Config

WPS Enable ▾

WPS Summary

WPS Current Status	Idle
WPS Configured	Yes
WPS SSID	FWR9502-0000C8

WPS Progress

WPS Mode ☐ PIN ☒ PBC

WPS Status

WSC:Idle

Field Name	Description
WPS Config	
WPS	Enable/Disable WPS function
WPS Summary	
WPS Current Status	Display the current status of WPS
WPS Configured	Display the configure the status information of WPS
WPS SSID	Display WPS SSID
WPS Progress	

WPS Mode	PIN: Enter the PIN code of the wireless device which accesses to this LAN in the following option, and press apply. Then router begins to send signals, turn on the PIN accessing method on the clients, and then it can access the wireless AP automatically. PBC: There are two ways to start PBC mode, user can press the PBC button directly on the device, or select PBC mode on the software and apply. Users can activate WPS connection in WPS mode through these two methods, only when the clients choose PBC access, the clients can connect the AP automatically.
WPS Status	WPS shows status in three ways: WSC: Idle WSC: Start WSC process (begin to send messages) WSC: Success; this means clients have accessed the AP successfully

Station Info

Table 39 Station info

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application		
Basic	Wireless Security	WMM	WDS	WPS	Station Info	Advanced				
Wireless Status										
Wireless Status										
Current Channel		Channel 1								
FWR9502-0000C8		00:21:F2:00:00:10								
Wireless Network										
Wireless Network										
MAC Address	Aid	PSM	MIMO PS	TX Rate	TxBF	RSSI	Stream SNR	Snd Rsp SNR	Last RX Rate	Connect Time

Description

This page displays information about the current registered clients' connections including operating MAC address and operating statistics.

Advanced

Table 40 Advanced

Basic

Wireless Security

WMM

WDS

WPS

Station Info

Advanced

Advanced Wireless

Advanced Wireless

BG Protection Mode

Auto

Beacon Interval

100

ms (range 20 - 999, default 100)

Data Beacon Rate (DTIM)

3

(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

Enable

Disable

Short Slot

Enable

Disable

TX Burst

Enable

Disable

Pkt_Aggregate

Enable

Disable

Country Code

NONE

Support Channel

Ch1~14

Tx Beamforming

Disable

Wi-Fi Multimedia

WMM Capable

☒

Multiple SSID

☐

Multiple SSID1

☐

Multiple SSID2

☐

Multiple SSID3

☐

APSD Capable

Enable

Disable

Multicast-to-Unicast Converter

Enable

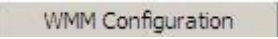
Disable

Multicast-to-Unicast

Enable

Disable

Field Name	Description
BG Protection Mode	Select G protection mode, options are on, off and automatic.
Beacon Interval	The interval of sending a wireless beacon frame, within this range, it will send a beacon frame for the information of the surrounding radio network.
Data Beacon Rate(DTIM)	Specify the interval of transmitting the indication message, it is a kind of cut down operation, and it is used for informing the next client which is going to receive broadcast multi-cast.
Fragment Threshold	Specify the fragment threshold for the packet, when the length of the packet exceeds this value, the packet is divided.

RTS Threshold	Specify the packet RTS threshold, when the packet exceeds this value, the router will send RTS to the destination site consultation
TX Power	Define the transmission power of the current AP, the greater it is, the stronger the signal is
Short Preamble	Choose enable or disable
Short Slot	Enable/Disable short slot. By default it is enabled, it is helpful in improving the transmission rate of wireless communication
Tx Burst	One of the features of MAC layer, it is used to improve the fairness for transmitting TCP
Pkt_Aggregate	It is a mechanism that is used to enhance the LAN, in order to ensure that the home gateway packets are sent to the destination correctly
Support Channel	Choose appropriate channel
Wi-Fi Multimedia (WMM)	
WMM Capable	Enable/Disable WMM.
APSD Capable	Enable/Disable APSD. Once it is enabled, it may affect wireless performance, but can play a role in energy-saving power
WMM Parameters	Press  , the webpage will jump to the configuration page of Wi-Fi multimedia
Multicast-to-Unicast Converter	Enable/Disable Multicast-to-Unicast. By default, it is Disabled

Wireless 5G

Please refer to the [wireless 2.4G](#).

SIP

SIP Settings

Table 41 SIP settings

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application																														
SIP Settings VoIP QoS Dial Rule Blacklist Call Log																																						
SIP Parameters																																						
SIP Parameters <table> <tr> <td>SIP T1</td> <td>500</td> <td>ms</td> <td>Max Forward</td> <td>70</td> </tr> <tr> <td>SIP User Agent Name</td> <td colspan="2"></td> <td>Max Auth</td> <td>2</td> </tr> <tr> <td>Reg Retry Intvl</td> <td>30</td> <td>sec</td> <td>Reg Retry Long Intvl</td> <td>60 sec</td> </tr> <tr> <td>Mark All AVT Packets</td> <td colspan="2">Enable ▾</td> <td>RFC 2543 Call Hold</td> <td>Enable ▾</td> </tr> <tr> <td>SRTP</td> <td colspan="2">Disable ▾</td> <td>SRTP Prefer Encryption</td> <td>AES_CM ▾</td> </tr> <tr> <td>Service Type</td> <td colspan="2">Common ▾</td> <td>DNS Refresh Timer</td> <td>0 sec</td> </tr> </table>									SIP T1	500	ms	Max Forward	70	SIP User Agent Name			Max Auth	2	Reg Retry Intvl	30	sec	Reg Retry Long Intvl	60 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
SIP T1	500	ms	Max Forward	70																																		
SIP User Agent Name			Max Auth	2																																		
Reg Retry Intvl	30	sec	Reg Retry Long Intvl	60 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																																		

Mark All AVT Packets	Voice packet marking to enable this item will see the mark on the voice message when the call environment changed (such as press a key during the call)
RFC 2543 Call Hold	Enable the Connection Information field displays the address is 0.0.0.0 in the invite message of Hold.Disable the Connection Information field displays the device IP address in the invite message of Hold
SRTP	Whether to enable the call packet encryption function
SRTP Prefer Encryption	The preferred encryption type of calling packet (the Message body of INVITE Message)
Service Type	Choose the server type
NAT Traversal	Enable/Disable NAT Traversal FWR9502 supports STUN Traversal; if user wants to traverse NAT/Firewall, select the STUN
STUN Server Address	Add the correct STUN service provider IP address
NAT Refresh Interval	Set NAT Refresh Interval, default is 60s
STUN Server Port	Set STUN Server Port, default is 5060

VoIP QoS

Table 42 VoIP QoS

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
SIP Settings VoIP QoS Dial Rule Blacklist Call Log								
QoS Settings								
Layer 3 QoS SIP QoS(0-63) 46 RTP QoS(0-63) 46								
Save Cancel Reboot								

Field Name	Description
SIP /RTP QoS	The default value is 0,you can set a range of values is 0~63

Dial Plan

Parameters and Settings

Table 43 Parameters and settings

StatusNetworkWireless 2.4GHzWireless 5GHzSIPFXS1FXS2SecurityApplication

SIP SettingsVoIP QoS**Dial Rule**BlacklistCall Log

Dial Rule

General

Dial RuleDisable

Unmatched PolicyAccept

No.	FXS	Digit Map	Action	Move Up	Move Down	
1	FXS 1	vb	Deny	▲	▼	☐
2	FXS 1	rgg	Deny	▲	▼	☐

FXSFXS 1

Digit Map

ActionDeny

OKCancel

SaveCancelReboot

Field Name	Description
Dial Plan	Enable/Disable dial plan
Line	Set the line
Digit Map	Enter the sequence used to match input number The syntactic, please refer to the following Dial Plan Syntactic
Action	Choose the dial plan mode from Deny and Dial Out. Deny means router will reject the matched number, while Dial Out means router will dial out the matched number
Move Up	Move the dial plan up the list
Move Down	Move the dial plan down the list

Adding one Dial Plan

Table 44 Adding one dial plan

Dial Plan						
General						
Dial Plan		Disable ▼				
Unmatched Policy		▼				
No.	FXS	Digit Map	Action	Move Up	Move Down	
FXS		FXS 1 ▼				
Digit Map						
Action		Deny ▼				
		OK	Cancel			
Description						
Step 1. Enable Dial Plan						
Step 2. Click Add button, and the configuration table						
Step 3. Fill in the value of parameters						
Step 4. Press OK button to end configuration						

Dial Plan Syntactic

Table 45 Dial Plan

No.	String	Description
1	0 1 2 3 4 5 6 7 8 9 * #	Allowed 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 and so on. For example: “01” can be match to “0”, “01”, “011” ... “011111...” and so on
5	<diald:substituted>	Replace diald with substituted. For example: <8:1650>123456: input is “85551212” , output is “16505551212”
6	x,y	Make outside dial tone after dialing “x” , stop until dialing character “y” For example: “9,1xxxxxxxxx” :the device reports dial tone after inputting “9” , stops tone until inputting “1” “9,8,010x” : make outside dial tone after inputting “9” , stop tone until inputting “0”
7	T	Set the delayed time. For example: “<9:111>T2” : The device will dial out the matched number “111” after 2 seconds.

Blacklist

In this page, user can upload or download blacklist file, and can add or delete or edit blacklist one by one.

Table 46 Blacklist

Blacklist Upload && Download

Blacklist Upload && Download

Local File

Choose File

No file chosen

Upload CSV

Download CSV

Blacklist

Index	Name	Number	
1	Rob	12345	☐
2	Henry	123456	☐

Edit

Add

Delete

Move to phonebook

Description

Click to select the blacklist file and to upload it to device; Click to save the blacklist file to your local computer.

Select one contact and click edit to change the information, click delete to delete the contact, click Move to phonebook to move the contact to phonebook.

Click Add to add one blacklist, enter the name and phone number, click OK to confirm and click cancel to cancel.

Name
Number

Call Log

To view the call log information such as redial list , answered call and missed call

Table 47 Call log

Redial List				
Index	NUMBER	Start Time	Duration	☐
1	123	10/28 10:30	00:00:07	☐
2	010123	10/28 12:02	00:00:01	☐
3	010123	10/28 16:16	00:00:00	☐
4	010123	10/28 16:16	00:00:00	☐
5	123	10/28 16:20	00:00:13	☐
6	123	10/28 16:21	00:00:34	☐
7	123	10/29 10:50	00:00:10	☐
8	123	10/29 14:36	00:00:01	☐
9	123	10/29 15:05	00:00:23	☐
10	123	10/29 15:06	00:00:05	☐
11	123	10/29 15:07	00:00:01	☐

Redial List

Answered Calls				
Index	NUMBER	Start Time	Duration	☐
1	22222	10/21 09:56	00:00:40	☐
2	110	10/21 18:14	00:00:03	☐
3	110	10/21 18:15	00:00:07	☐
4	sipp	10/23 13:40	00:00:06	☐
5	sipp	10/24 18:05	00:00:05	☐
6	sipp	10/24 18:05	00:00:05	☐
7	sipp	10/25 15:38	00:00:03	☐
8	sipp	10/25 15:42	00:00:06	☐
9	sipp	10/25 15:55	00:00:10	☐
10	sipp	10/25 16:03	00:00:02	☐
11	sipp	10/25 16:15	00:00:00	☐

Answered Calls

Missed Calls

Index	NUMBER	Start Time	Duration	
1	110	10/21 09:50	00:00:03	
2	555	10/22 12:04	00:00:03	

Missed Calls

FXS1

SIP Account

Basic

Set the basic information provided by your VOIP Service Provider, such as Phone Number, Account, password, SIP Proxy and others.

Table 48 SIP Account - Basic

StatusNetworkWireless 2.4GHzWireless 5GHzSIPFXS1FXS2SecurityApplication

SIP AccountPreferences

Basic

Basic Setup

Line EnableEnable

Outgoing Call without RegistrationDisable

Proxy and Registration

Proxy Server

Outbound Server

Backup Outbound Server

Allow DHCP Option 120 to Override SIP ServerDisable

Proxy Port5060

Outbound Port5060

Backup Outbound Port5060

Subscriber Information

Display Name

Account

Phone Number

Password

Field Name	Description
Line Enable	Enable/Disable the line.
	Enable/Disable PEER to PEER.
Peer To Peer	If enabled, SIP-1 will not send register request to SIP server; but in Status/ SIP Account Status webpage, Status is Registered; lines 1 can dial out, but the external line number cannot dialed line1.
Proxy Server	The IP address or the domain of SIP Server
Outbound Server	The IP address or the domain of Outbound Server
Backup Outbound Server	The IP address or the domain of Backup Outbound Server
Proxy port	SIP Service port, default is 5060

Outbound Port	Outbound Proxy's Service port, default is 5060
Backup Outbound Port	Backup Outbound Proxy's Service port, default is 5060
Display Name	The number will be displayed on LCD
Phone Number	Enter telephone number provided by SIP Proxy
Account	Enter SIP account provided by SIP Proxy
Password	Enter SIP password provided by SIP Proxy

Audio Configuration

Table 49 Audio configuration

Audio Configuration	
Codec Setup	
Audio Codec Type 1	G.711U ▼
Audio Codec Type 3	G.729 ▼
Audio Codec Type 5	G.723 ▼
Packet Cycle(ms)	20ms ▼
Echo Cancel	Enable ▼
Audio Codec Type 2	G.711A ▼
Audio Codec Type 4	G.722 ▼
G.723 Coding Speed	5.3k bps ▼
Silence Supp	Disable ▼
Auto Gain Control	Disable ▼
FAX Configuration	
FAX Mode	T.38 ▼
T.38 CNG Detect Enable	Disable ▼
gpmid attribute Enable	Disable ▼
ByPass Attribute Value	fax ▼
T.38 CED Detect Enable	Enable ▼
T.38 Redundancy	Disable ▼

Audio Codec Type1	Choose the audio codec type from G.711U, G.711A, G.722, G.729, G.723
Audio Codec Type2	Choose the audio codec type from G.711U, G.711A, G.722, G.729, G.723
Audio Codec Type3	Choose the audio codec type from G.711U, G.711A, G.722, G.729, G.723
Audio Codec Type4	Choose the audio codec type from G.711U, G.711A, G.722, G.729, G.723
Audio Codec Type5	Choose the audio codec type from G.711U, G.711A, G.722, G.729, G.723

G.723 Coding Speed	Choose the speed of G.723 from 5.3kbps and 6.3kbps
Packet Cycle	The RTP packet cycle time, default is 20ms
Silence Supp	Enable/Disable silence support
Echo Cancel	Enable/Disable echo cancel. By default, it is enabled
Auto Gain Control	Enable/Disable auto gain
T.38 Enable	Enable/Disable T.38
T.38 Redundancy	Enable/Disable T.38 Redundancy
T.38 CNG Detect Enable	Enable/Disable T.38 CNG Detect
gpmc attribute Enable	Enable/Disable gpmc attribute.

Supplementary Service Subscription

Table 50 Supplementary service

Supplementary Service Subscription

Supplementary Services

Call Waiting	Enable	Hot Line	
MWI Enable	Enable	Voice Mailbox Numbers	
MWI Subscribe Enable	Disable	VMWI Serv	Enable
DND	Disable		

Speed Dial

Speed Dial 2		Speed Dial 3	
Speed Dial 4		Speed Dial 5	
Speed Dial 6		Speed Dial 7	
Speed Dial 8		Speed Dial 9	

Field Name	Description
Call Waiting	Enable/Disable Call Waiting
Hot Line	Fill in the hotline number, Pickup handset or press hands-free or headset button, the device will dial out the hotline number automatically
MWI Enable	Enable/Disable MWI (message waiting indicate). If the user needs to user voice mail, please enable this feature
MWI Subscribe Enable	Enable/Disable MWI Subscribe

Voice Mailbox Numbers	Fill in the voice mailbox phone number, Asterisk platform, for example, its default voice mail is *97
VMWI Serv	Enable/Disable VMWI service
DND	Enable/Disable DND (do not disturb) If enable, any phone call cannot arrive at the device; default is disable
Speed Dial	Enter the speed dial phone numbers. Dial *74 to active speed dial function. Then press the speed dial numbers, for example, press 2, phone dials 075526099365 directly

Advanced

Table 51 Advanced

Advanced	
Advanced Setup	
Domain Name Type	Enable ▾
Signal Port	5060
RFC2833 Payload(>=96)	101
RTP Port	0 (=0 auto select)
Session Refresh Time(sec)	0
Prack Enable	Disable ▾
Primary SER Detect Interval	0
Keep-alive Interval(10-60s)	15
Anonymous Call Block	Disable ▾
Use OB Proxy In Dialog	Disable ▾
Dial Prefix	
Hold Method	ReINVITE ▾
Only Recv Request From Server	Enable ▾
SIP Received Detection	Disable ▾
Country Code	
Caller ID Header	FROM ▾
Carry Port Information	Disable ▾
DTMF Type	RFC2833 ▾
Register Refresh Interval(sec)	3600
Cancel Message Enable	Disable ▾
Refresher	UAC ▾
SIP OPTIONS Enable	Disable ▾
Max Detect Fail Count	3
Anonymous Call	Disable ▾
Proxy DNS Type	A Type ▾
Reg Subscribe Enable	Disable ▾
User Type	IP ▾
Request-URI User Check	Disable ▾
Server Address	
VPN	Disable ▾
Remove Country Code	Disable ▾

Field Name	Description
Domain Name Type	If or not use domain name in the SIP URI.
Carry Port Information	If or not carry port information in the SIP URI.
Signal Port	The local port of SIP protocol, default is 5060.
DTMF Type	Choose the DTMF type from Inbound, RFC2833 and SIP INFO.
RFC2833Payload(>=96)	User can use the default setting.
Register Refresh Interval	The interval between two normal Register messages. You can use the default setting.
RTP Port	Set the port to send RTP. The device will select one idle port for RTP if you set “0” ; otherwise use the value which user sets.
Cancel Message Enable	When you set enable, an unregistered message will be sent before registration, while you set disable, unregistered message will not be sent before registration. You should set the option for different Proxy.
Session Refresh Time(sec)	Time interval between two sessions, you can use the default settings.
Refresher	Choose refresher from UAC and UAS.
Prack Enable	Enable/Disable prack.
SIP OPTIONS Enable	When you set enable, the device will send SIP-OPTION to the server, instead of sending periodic Hello message. The sending interval is Keep- alive interval.
Primary SER Detect Interval	Test interval of the primary server, the default value is 0, it represents disable.
Max Detect Fail Count	Interval of detection of the primary server fail; the default value is 3, it means that if detect 3 times fail; the device will no longer detect the primary server.
Keep-alive Interval(10-60s)	The interval that the device will send an empty packet to proxy.
Anonymous Call	Enable/Disable anonymous call.
Anonymous Call Block	Enable/Disable anonymous call block.
Proxy DNS Type	Set the DNS server type, choose from A type and DNS SRV.
Use OB Proxy In Dialog	If or not use OB Proxy In Dialog.
Reg Subscribe Enable	If enable, subscribing will be sent after registration message, if not enable, do not send subscription.

Dial Prefix	The number will be added before your telephone number when making calls.
User Type	Choose the User Type from IP and Phone.
Hold Method	Choose the Hold Method from ReINVITE and INFO.
Request-URI User Check	Enable/Disable the user request URI check.
Only Recv request from server	Enable/Disable the only receive request from server.
Server Address	The IP address of SIP server.
SIP Received Detection	Enable/Disable SIP Received Detection, if enable, use it to confirm the public network address of the device.

Preferences

Volume Settings

Table 52 Volume settings

Preferences	
Volume Settings	
Handset Input Gain	5 ▼
Handset Volume	5 ▼

Field Name	Description
Handset Input Gain	Adjust the handset input gain from 0 to 7
Handset Volume	Adjust the output gain from 0 to 7

Regional

Table 53 Regional

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)	45
Ring Frequency(15-30Hz)	25
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

Field Name	Description
Tone Type	Choose tone type form China, US, Hong Kong and so on
Dial Tone	Dial Tone
Busy Tone	Busy Tone
Off Hook Warning Tone	Off Hook warning tone
Ring Back Tone	Ring back tone
Call Waiting Tone	Call waiting tone
Min Jitter Delay	The Min value of home gateway's jitter delay, home gateway is an adaptive jitter mechanism.
Max Jitter Delay	The Max value of home gateway's jitter delay, home gateway is an adaptive jitter mechanism.
Ringing Time	How long the device will ring when there is an incoming call.
Ring Waveform	Select regional ring waveform, options are Sinusoid and Trapezoid, the default Sinusoid.
Ring Voltage	Set ringing voltage, the default value is 70.
Ring Frequency	Set ring frequency, the default value is 25.
VMWI Ring Splash Len(sec)	Set the VMWI ring splash length, default is 0.5s.
Flash Time Max(sec)	Set the Max value of the device's flash time, the default value is 0.9
Flash Time Min(sec)	Set the Min value of the device's flash time, the default value is 0.1

Features and Call Forward

Table 54 Features and call forward

Features			
All Forward	Disable ▼	Busy Forward	Disable ▼
No Answer Forward	Disable ▼		

Call Forward			
All Forward		Busy Forward	
No Answer Forward		No Answer Timeout	20

Feature Code			
Hold Key Code	*77	Conference Key Code	*88
Transfer Key Code	*98	IVR Key Code	****
R Key Enable	Disable ▼	R Key Cancel Code	R1 ▼
R Key Hold Code	R2 ▼	R Key Transfer Code	R4 ▼
R Key Conference Code	R3 ▼	Speed Dial Code	*74

Field Name		Description
Features	All Forward	Enable/Disable forward all calls
	Busy Forward	Enable/Disable busy forward.
	No Answer Forward	Enable/Disable no answer forward.
Call Forward	All Forward	Set the target phone number for all forward. The device will forward all calls to the phone number immediately when there is an incoming call.
	Busy Forward	The phone number which the calls will be forwarded to when line is busy.
	No Answer Forward	The phone number which the call will be forwarded to when there's no answer.
	No Answer Timeout	The seconds to delay forwarding calls, if there is no answer at your phone.
Feature Code	Hold key code	Call hold signatures, default is *77.
	Conference key code	Signature of the tripartite session, default is *88.

Transfer key code	Call forwarding signatures, default is *98.
IVR key code	Signatures of the voice menu, default is ****.
R key enable	Enable/Disable R key way call features.
R key cancel code	Set the R key cancel code, option are ranged from R1 to R9, default value is R1.
R key hold code	Set the R key hold code, options are ranged from R1 to R9, default value is R2.
R key transfer code	Set the R key transfer code, options are ranged from R1 to R9, default value is R4.
R key conference code	Set the R key conference code, options are ranged from R1 to R9, default value is R3.
Speed Dial Code	Speed dial code, default is *74.

Miscellaneous

Table 55 Miscellaneous

Miscellaneous

Codec Loop Current	26	Impedance Maching	US PBX,Korea,Taiwan(600)
CID Service	Enable	CWCID Service	Disable
Caller ID Method	Bellcore	Polarity Reversal	Disable
Dial Time Out(IDT)	5	Call Immediately Key	#
ICMP Ping	Disable	Escaped char enable	Disable
Bellcore Style 3-Way Conference	Disable		

Field Name	Description
Codec Loop Current	Set off-hook loop current, default is 26.
Impedance Maching	Set impedance matching, default is US PBX,Korea,Taiwan(600).
CID service	Enable/Disable displaying caller ID; If enable, caller ID is displayed when there is an incoming call or it won't be displayed. Default is enable.
CWCID Service	Enable/Disable CWCID. If enable, the device will display the waiting call's caller ID, or it won't display. Default is disable.
Dial Time Out	How long device will sound dial out tone when device dials a number.
Call Immediately Key	Choose call immediately key form * or #.
ICMP Ping	Enable/Disable ICMP Ping. If enable this option, home gateway will ping the SIP Server every interval time, otherwise, It will send “hello” empty packet to the SIP Server.
Escaped char enable	Open special character translation function; if enable, when you press the # key, it will be translated to 23%, when disable, it is just #.

FXS2

The settings of FXS2 are the same as FXS1. See FXS1 on page 74.

Security

Filtering Setting

Table 56 Filtering setting

Basic Settings	
Basic Settings	
Filtering	Disable ▼
Default Policy	Drop ▼
The packet that don't match with any rules would be Drop	
Save Cancel	
IP/Port Filter Settings	
Interface	LAN ▼
Mac address	
Dest IP Address	
Source IP Address	
Protocol	NONE ▼
Dest. Port Range	-
Src Port Range	-
Action	Accept ▼
Comment	
(The maximum rule count is 32)	
Save Cancel	

Field Name	Description
Filtering	Enable/Disable filter function
Default Policy	Choose to drop or accept filtered MAC addresses
Mac address	Add the Mac address filtering
Dest IP address	Destination IP address
Source IP address	Source IP address
Protocol	Select a protocol name, support for TCP, UDP and TCP/UDP
Dest. Port Range	Destination port ranges
Src Port Range	Source port range
Action	You can choose to receive or give up; this should be consistent with the default policy
Comment	Add callout
Delete	Delete selected item

Content Filtering

Table 57 Content filtering

Filtering Setting	Content Filtering
Basic Settings	
Basic Settings	
Filtering	Disable ▼
Default Policy	Accept ▼
Save Cancel	
Filter List Upload & Download	
Local File	选择文件 未选择任何文件
Upload Download	
Web URL Filter Settings	
Current Web URL Filters	
No.	URL
Delete Cancel	
Add a URL Filter	
URL (The maximum rule count is 16)	
Add Cancel	
Web Host Filter Settings	
Current Website Host Filters	
No.	Keyword
Delete Cancel	
Add a Host (keyword) Filter	
Keyword (The maximum rule count is 16)	
Add Cancel	

Field Name	Description
Filtering	Enable/Disable content Filtering
Default Policy	The default policy is to accept or to prohibit filtering rules
Current Webs URL Filters	List the URL filtering rules that already existed (blacklist)
Delete/Cancel	You can choose to delete or cancel the existing filter rules
Add a URL Filter	Add URL filtering rules
Add/Cancel	Click adds to add one rule or click cancel
Current Website Host	List the keywords that already exist (blacklist)
Filters	
Delete/Cancel	You can choose to delete or cancel the existing filter rules the existing keywords
Add a Host Filter	Add keywords
Add/Cancel	Click the Add or cancel

Application

Advance NAT

Table 58 advance NAT

Advance Nat													
UPnP IGMP													
ALG													
ALG Setting <table> <tbody> <tr> <td>FTP</td> <td>Enable ▾</td> </tr> <tr> <td>SIP</td> <td>Disable ▾</td> </tr> <tr> <td>H323</td> <td>Disable ▾</td> </tr> <tr> <td>PPTP</td> <td>Disable ▾</td> </tr> <tr> <td>L2TP</td> <td>Disable ▾</td> </tr> <tr> <td>IPSec</td> <td>Disable ▾</td> </tr> </tbody> </table>		FTP	Enable ▾	SIP	Disable ▾	H323	Disable ▾	PPTP	Disable ▾	L2TP	Disable ▾	IPSec	Disable ▾
FTP	Enable ▾												
SIP	Disable ▾												
H323	Disable ▾												
PPTP	Disable ▾												
L2TP	Disable ▾												
IPSec	Disable ▾												
Save & Apply Save Cancel Reboot													

Description

Enable/Disable these function(FTP/SIP/H323/PPTP/L2TP/IPSec).

UPnP

UPnP (Universal Plug and Play) supports zero-configuration networking, and can automatically discover a variety of networked devices. When UPnP is enabled, the connected device is allowed to access the network, obtain an IP address, and convey performance information. If the network has a DHCP and DNS server, the connected device can automatically obtain DHCP and DNS services.

UPnP devices can be automatically added to the network without affecting previously-connected devices.

Table 59 UPnP

UPnP	
UPnP Setting UPnP enable Enable ▾	
Save Cancel Reboot	

Field Name

Description

UPnP enable

Enable/Disable UPnP function.

IGMP

Multicast has the ability to send the same data to multiple devices.

IP hosts use IGMP (Internet Group Management Protocol) report multicast group memberships to the neighboring routers to transmit data, at the same time, the multicast router use IGMP to discover which hosts belong to the same multicast group.

Table 60 IGMP

Status	Network	Wireless	SIP	FXS1	FXS2	Security	Application	Administration
Advance Nat UPNP IGMP								
IGMP								
IGMP Setting IGMP Proxy enable Enable ▼ IGMP Snooping enable Enable ▼								
Save & Apply Save Cancel Reboot								

Field Name	Description
IGMP Proxy enable	Enable/Disable IGMP Proxy function.
IGMP Snooping enable enable	Enable/Disable IGMP Snooping function.

Storage

Disk Management

This page is used to manage the USB storage device.

Table 61 Disk Management

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application	Storage				
Disk Management FTP Setting SMB Setting													
Disk Management									Help				
Folder List <table border="1"> <thead> <tr> <th>Directory Path</th> <th>Partition</th> </tr> </thead> <tbody> <tr> <td colspan="2"> Add Delete Remove Disk </td> </tr> </tbody> </table>										Directory Path	Partition	Add Delete Remove Disk	
Directory Path	Partition												
Add Delete Remove Disk													
Partition Status <table border="1"> <thead> <tr> <th>Partition</th> <th>Path</th> </tr> </thead> <tbody> <tr> <td colspan="2"> Format Reallocate </td> </tr> </tbody> </table>										Partition	Path	Format Reallocate	
Partition	Path												
Format Reallocate													

Field Name	Description
Add	Adding files to the USB storage device
Delete	Remove the USB storage device file
Remove Disk	Transfer files within a USB storage device
Format	Format the USB storage device
Re-allocate	Reset the USB storage device

FTP Setting

Table 62 FTP Setting

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application	Storage
Disk Management FTP Setting SMB Setting									
FTP Setting									Help
FTP Server Setup									
FTP Server ☐ Enable ☒ Disable									
FTP Server Name FTP									
Anonymous Login ☐ Enable ☒ Disable									
FTP Port 21									
Max. Sessions 10									
Create Directory ☒ Enable ☐ Disable									
Rename File/Directory ☒ Enable ☐ Disable									
Remove File/Directory ☒ Enable ☐ Disable									
Read File ☒ Enable ☐ Disable									
Write File ☒ Enable ☐ Disable									
Download Capability ☒ Enable ☐ Disable									
Upload Capability ☒ Enable ☐ Disable									

Field Name	Description
FTP Server	Enable/Disable FTP server
FTP Server Name	Set the FTP server name
Anonymous Login	If or not support anonymous login
FTP Port	Set FTP server port number
Max. Sessions	Maximum number of connections
Create Directory	Enable/Disable create directory
Rename File/Directory	Enable/Disable rename file/directory
Remove File/Directory	Enable/Disable transfer of files/directories
Read File	Enable/Disable read files
Write File	Enable/Disable write files
Download Capability	Enable/Disable download capability function.
Upload Capability	Enable/Disable upload capability function

Smb Setting

Table 63 Smb setting

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application	Storage
Disk Management FTP Setting SMB Setting									
SMB Setting									Help
SAMBA Server Setup									
SAMBA Server				☐ Enable ☒ Disable					
Workgroup				FWR9502					
NetBIOS Name				FileShare					
Anonymous Login				☐ Enable ☒ Disable					
Sharing Directory List									
Directory Name			Directory Path			Allowed Users			
Add			Edit			Delete			
Apply			Cancel						

Field Name	Description
SAMBA Server	Enable/Disable SAMBA server
Workgroup	Enter the working group
NetBIOS Name	Network basic input/output system name
Add	Add a shared file
Edit	Edit a shared file
Del	Delete a shared file
Add	Add a shared file
Edit	Edit a shared file
Del	Delete a shared file

Administration

The user can manage the device in these webpages; you can configure the Time/Date, password, web access, system log and associated configuration TR069.

Management

Save config file

Table 64 Save Config File

Save Config File Config File Upload && Download Local File 选择文件 未选择任何文件 Upload Download	
Field Name	Description
Config file upload and download	Upload: click on browse, select file in the local, press the upload button to begin uploading files
	Download: click to download, and then select contains the path to download the configuration file

Administrator settings

Table 65 Administrator settings

Administrator Settings	
Password Reset User Type Admin User ▼ New User Name admin New Password (The maximum length is 25) Confirm Password	
Language Language English ▼	
VPN Access Management Using VPN Disable ▼	
Web Access Remote Web Login Enable ▼ Local Web Port 80 Web Port 80 Web SSL Port 443 Web Idle Timeout(0 - 60min) 5 Allowed Remote IP(IP1;IP2;...) 0.0.0.0	
Telnet Access Remote Telnet Enable ▼ Telnet Port 23 Allowed Remote IP(IP1;IP2;...) 0.0.0.0 HostName FWR8102	
Field Name	Description
User type	Choose the user type from admin user and normal user and basic user
New User Name	You can modify the user name, set up a new user name
New Password	Input the new password
Confirm Password	Input the new password again
Language	Select the language for the web, the device support Chinese, English, and Spanish and so on
Remote Web Login	Enable/Disable remote Web login
Web Port	Set the port value which is used to login from Internet port and PC port, default is 80

Web Idle timeout	Set the Web Idle timeout time. The webpage can be logged out after Web Idle Timeout without any operation.
Allowed Remote IP(IP1,IP2,...)	Set the IP from which a user can login the device remotely.
Telnet Port	Set the port value which is used to telnet to the device.

NTP settings

Table 66 NTP settings

Time/Date Setting

NTP Settings

NTP Enable Enable ▼
Option 42 Disable ▼
Current Time 2016 - 01 - 19 . 05 : 55 : 06
Sync with host Sync with host
NTP Settings (GMT-06:00) Central Time ▼
Primary NTP Server pool.ntp.org
Secondary NTP Server
NTP synchronization(1 - 1440min) 60

Daylight Saving Time

Daylight Saving Time Disable ▼

Field Name	Description
NTP Enable	Enable/Disable NTP
Option 42	Enable/Disable DHCP option 42. This option specifies a list of the NTP servers available to the client by IP address
Current Time	Display current time
NTP Settings	Setting the Time Zone
Primary NTP Server	Primary NTP server's IP address or domain name

Secondary NTP Server	Options for NTP server's IP address or domain name
NTP synchronization	NTP synchronization cycle, cycle time can be 1 to 1440 minutes in any one, the default setting is 60 minutes

Daylight Saving Time

Table 67 Daylight Saving Time

Daylight Saving Time	
Daylight Saving Time	Enable ▼
Offset	60 Min.
Start Month	April ▼
Start Day of Week	Sunday ▼
Start Day of Week Last in Month	First in Month ▼
Start Hour of Day	2
Stop Month	October ▼
Stop Day of Week	Sunday ▼
Stop Day of Week Last in Month	Last in Month ▼
Stop Hour of Day	2

Procedure

Step 1. Enable Daylight Savings Time.

Step 2. Set value of offset for Daylight Savings Time

Step 3: Set starting Month/Week/Day/Hour in Start Month/Start Day of Week Last in Month/Start Day of Week/Start Hour of Day, analogously set stopping Month/Week/Day/Hour in Stop Month/Stop Day of Week Last in Month/Stop Day of Week/Stop Hour of Day.

Step 4. Press Saving button to save and press Reboot button to active changes.

System Log Setting

Table 68 System log Setting

System Log Setting

Syslog Setting

Syslog Enable

Syslog Level

Login Syslog Enable

Call Syslog Enable

Net Syslog Enable

Device Management Syslog Enable

Device Alarm Syslog Enable

Kernel Syslog Enable

Remote Syslog Enable

Remote Syslog Server

Enable ▼

INFO ▼

Enable ▼

Enable ▼

Enable ▼

Enable ▼

Enable ▼

Enable ▼

Disable ▼

Field Name	Description
Syslog Enable	Enable/Disable syslog function
Syslog Level	Select the system log, there is INFO and Debug two grades, the Debug INFO can provide more information
Remote Syslog Enable	Enable/Disable remote syslog function
Remote Syslog server	Add a remote server IP address.
Syslog Enable	Enable/Disable syslog function

Factory Defaults Setting

Table 69 Factory Defaults Setting

Factory Defaults Setting

Factory Defaults Setting

Factory Defaults Lock

Disable ▼

Description
When enabled, the device may not be reset to factory defaults until this parameter is reset to Disable.

Factory Defaults

Table 70 Factory Defaults

Factory Defaults
Reset to Factory Defaults Factory Default
Description
Click Factory Default to restore the residential gateway to factory settings.

Firmware Upgrade

Table 71 Firmware upgrade

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
Management	Firmware Upgrade	LTE Upgrade	Scheduled Tasks	Certificates	Provision	SNMP	TR-069	
Firmware Management								
Firmware Upgrade Local Upgrade 选择文件 未选择任何文件 Upgrade								
Description								
1. Choose upgrade file type from Image File and Dial Rule								
2. Press “Browse..” button to browser file								
3. Press Upgrade to start upgrading								

Provision

Provisioning allows the router to auto-upgrade and auto-configure devices which support TFTP, HTTP and HTTPS .

- Before testing or using TFTP, user should have tftp server and upgrading file and configuring file.
- Before testing or using HTTP, user should have http server and upgrading file and configuring file.
- Before testing or using HTTPS, user should have https server and upgrading file and configuring file and CA Certificate file (should same as https server's) and Client Certificate file and Private key file

User can upload a CA Certificate file and Client Certificate file and Private Key file in the Security page.

Table 72 Provision

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
Management	Firmware Upgrade	LTE Upgrade	Scheduled Tasks	Certificates	Provision	SNMP	TR-069	

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	Enable ▾
Config File Name	\$(MA)
User Agent	
Profile Rule	http://prv1.flyingvoice.net:69/config/\$(MA)?mac=\$(MA)&

Field Name	Description
Provision Enable	Enable provision or not.
Resync on Reset	Enable resync after restart or not

Resync Random Delay(sec)	Set the maximum delay for the request of synchronization file. The default is 40.
Resync Periodic(sec)	If the last resync was failure, The router will retry resync after the “Resync Error Retry Delay ” time, default is 3600s.
Resync Error Retry Delay(rec)	Set the periodic time for resync, default is 3600s.
Forced Resync Delay(sec)	If it's time to resync, but the device is busy now, in this case,the router will wait for a period time, the longest is “Forced Resync Delay” , default is 14400s, when the time over, the router will forced to
Resync After Upgrade	Enable firmware upgrade after resync or not. The default is Enabled.
Resync From SIP	Enable/Disable resync from SIP.
Option 66	It is used for In-house provision mode only. When use TFTP with option 66 to realize provisioning, user must input right configuration file name in the webpage. When disable Option 66, this parameter has no effect.
Config File Name	It is used for In-house provision mode only. When use TFTP with option 66 to realize provisioning, user must input right configuration file name in the webpage. When disable Option 66, this parameter has no effect.
Profile Rule	URL of profile provision file Note that the specified file path is relative to the TFTP server's virtual root directory.

Table 73 Firmware Upgrade

Firmware Upgrade

Upgrade Enable	Enable ▾
Upgrade Error Retry Delay(sec)	3600
Upgrade Rule	

Field Name	Description
Upgrade Enable	Enable firmware upgrade via provision or not
Upgrade Error Retry Delay(sec)	If the last upgrade fails, the router will try upgrading again after “Upgrade Error Retry Delay” period, default is 3600s
Upgrade Rule	URL of upgrade file

SNMP

Table 74 SNMP

Management	Firmware Upgrade	LTE Upgrade	Scheduled Tasks	Certificates	Provision	SNMP	TR-069
SNMP Configuration							
SNMP Configuration							
SNMP Service		Enable ▼					
Trap Server Address		183.234.48.155					
Read Community Name		public					
Write Community Name		private					
Trap Community		trap					
Trap Period Interval (sec)		300					
Save & Apply Save Cancel Reboot							

Field Name	Description
SNMP Service	Enable or Disable the SNMP service
Trap Server Address	Enter the trap server address for sending SNMP traps
Read Community Name	String value that is used as a password to request information via SNMP from the device
Write Community Name	String value that is used as a password to write configuration values to the device via SNMP
Trap Community	String value used as a password for retrieving traps from the device
Trap period interval(sec)	The interval for which traps are sent from the device

TR-069

TR-069 provides the possibility of auto configuration of internet access devices and reduces the cost of management. TR-069 (short for Technical Report 069) is a DSL Forum technical specification entitled CPE WAN Management Protocol (CWMP). It defines an application layer protocol for remote management of end-user devices. Using TR-069, the terminals establish connection with the Auto Configuration Servers (ACS) and get configured automatically.

Device Configuration using TR-069

The TR-069 configuration page is available under Administration menu.

Table 75 TR069

Management	Firmware Upgrade	LTE Upgrade	Scheduled Tasks	Certificates	Provision	SNMP	TR-069
TR-069 Configuration							
ACS TR-069 Enable Enable CWMP Enable ACS URL http://acs1.flyingvoice.net:8080/tr069 User Name FLY58161000007 Password Enable Periodic Inform Enable Periodic Inform Interval 3600							
Connect Request User Name FWR9502 Password 							
Save & Apply Save Cancel Reboot							

Field Name	Description
ACS parameters	
TR069 Enable	Enable or Disable TR069
CWMP	Enable or Disable CWMP
ACS URL	ACS URL address
User Name	ACS username
Password	ACS password

Periodic Inform Enable	Enable the function of periodic inform or not. By default it is Enabled
Periodic Inform Interval	Periodic notification interval with the unit in seconds. The default value is 3600s
Connect Request parameters	
User Name	The username used to connect the TR069 server to the DUT
Password	The password used to connect the TR069 server to the DUT

Diagnosis

In this page, user can do packet trace, ping test and traceroute test to diagnose the device's connection status.

Table 76 Diagnosis

Management	Firmware Upgrade	LTE Upgrade	Scheduled Tasks	Certificates	Provision	SNMP	TR-069	Diagnosis
------------	------------------	-------------	-----------------	--------------	-----------	------	--------	-----------

Packet Trace [Help](#)

Packet Trace

Tracking Interface

WAN

Packet Trace

start stop save

Ping Test

Ping Test

Dest IP/Host Name

WAN Interface

1_MANAGEMENT_VOICE_INTERNET_R_VID_

Apply

Cancel

Traceroute Test

Traceroute Test

Dest IP/Host Name

WAN Interface

1_MANAGEMENT_VOICE_INTERNET_R_VID_

Apply

Cancel

Description

1. Packet Trace

Users can use the packet trace feature to intercept packets which traverse the device. Click the Start button to start home gateway tracking and keep refreshing the page until the message trace shows to stop, click the Save button to save captured packets.

2. Ping Test

Enter the destination IP or host name, and then click Apply, device will perform ping test.

Ping Test

Ping Test

Dest IP/Host Name

WAN Interface

```
PING www.baidu.com (115.239.210.26): 56 data bytes
64 bytes from 115.239.210.26: seq=0 ttl=54 time=43.979 ms
64 bytes from 115.239.210.26: seq=1 ttl=54 time=53.875 ms
64 bytes from 115.239.210.26: seq=2 ttl=54 time=45.226 ms
64 bytes from 115.239.210.26: seq=3 ttl=54 time=49.534 ms
64 bytes from 115.239.210.26: seq=4 ttl=54 time=49.045 ms

--- www.baidu.com ping statistics ---
5 packets transmitted, 5 packets received, 0% packet loss
round-trip min/avg/max = 43.979/48.331/53.875 ms
```

3. Traceroute Test

Enter the destination IP or host name, and then click Apply, device will perform traceroute test.

Traceroute Test

Traceroute Test

Dest IP/Host Name

WAN Interface

```
traceroute to www.google.com (216.58.208.68), 30 hops max, 38 byte packets
 1 10.110.134.254 (10.110.134.254) 1.017 ms 9.507 ms 1.419 ms
 2 * * *
 3 * * *
 4 * * *
 5 * * *
 6 * * *
 7 * * *
 8 * * *
 9 * * *
10 * * *
```

Apply Cancel

Operating Mode

Table 77 Operating mode

Operating Mode Settings

Operating Mode Settings

Operating Mode

Basic Mode

Basic Mode

Advanced Mode

Save

Cancel

Reboot

Description
Choose the Operation Mode as Basic Mode or Advanced Mode.

System Log

Table 78 System log

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application	Storage
Basic	LAN Host	Syslog							
Refresh Clear Save <pre> Manufacturer: FLYINGVOICE ProductClass: FWR9502 SerialNumber: FLY58161000007 BuildTime: 201709061037 IP: 192.168.1.1 HWVer: V4.4 SWVer: V3.20 <Wed Sep 6 10:40:39 2017> ipphone[15931]: InCall line 0 Caller Callee <Wed Sep 6 10:40:39 2017> ipphone[15800]: New Call from: [[]] <Wed Sep 6 10:40:41 2017> LinkStatus: LAN1 Link Up </pre>									
Description									

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

Logout

Table 79 Logout

VoIP ... control panel Firmware Version V3.2 Current Time 2017-10-26 09:11:11 Admin Mode [Logout] [Reboot]									
Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application	Storage
SIP Account	Preferences								
Basic									Help
Description									

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

Reboot

Press the **Reboot** button to reboot the device.

Chapter 4: IPv6 address configuration

The router devices support IPv6 addressing. This chapter covers:

- [Introduction](#)
- [IPv6 Advance](#)
- [Configuring IPv6](#)
- [Viewing WAN port status](#)
- [IPv6 DHCP configuration for LAN/WLAN clients](#)
- [LAN DHCPv6](#)

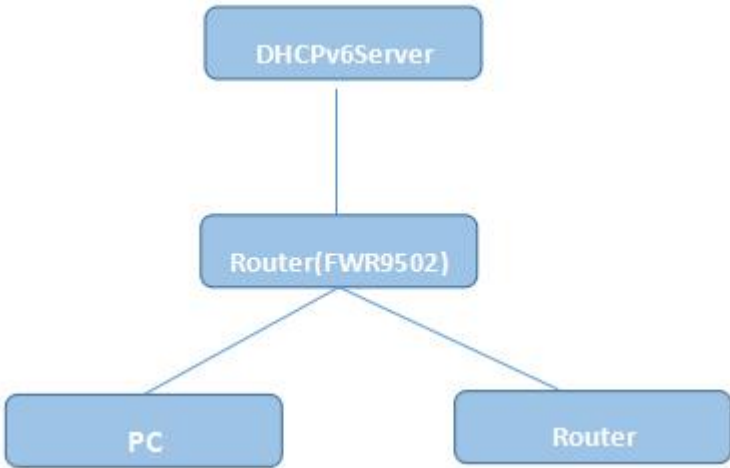
Introduction

DHCPv6 protocol is used to automatically provision/configure IPv6 capable end points in a local network. In addition to acquiring an IPv6 IP address for the WAN interface and its associated LAN/WLAN clients, the devices are also capable of prefix delegation.

The Routers devices support the following types of modes of IPv6 addresses:

- Stateless DHCPv6
- Statefull DHCPv6

Table 80 IPv6 Modes

Mode	Description
Stateless	In Stateless DHCPv6 mode, the Routers devices listen for ICMPv6 Router Advertisements messages which are periodically sent out by the routers on the local link or requested by the node using a Router Advertisements solicitation message. The device derives a unique IPv6 address using prefix receives from the router and its own MAC address.
 <pre> graph TD DHCPv6Server[DHCPv6Server] --- RouterFWR9502[Router(FWR9502)] RouterFWR9502 --- PC[PC] RouterFWR9502 --- Router[Router] </pre>	
Statefull	In Statefull DHCPv6 mode, the client works exactly as IPv4 DHCP, in which hosts receive both their IPv6 addresses and additional parameters from the DHCP server.

IPv6 Advance

To enable IPv6 functionality:

Navigate to Network > IPv6 Advanced page.

Select Enable from the IPv6 Enable drop-down list.

Click Save.

Table 81 Enabling IPv6

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application		
WAN	LAN	IPv6 Advanced	IPv6 WAN	IPv6 LAN	VPN	Port Forward	DMZ	VLAN	QoS	Rate
Advance										

IPv6 Advanced Settings

IPv6 Enable

IPv6 Enable

Enable ▼

Save & Apply

Save

Cancel

Reboot

Configuring IPv6

Configuring Statefull IPv6

1. Navigate to Network > IPv6WAN page. The following window is displayed:

Table 82 Configuring Statefull IPv6

The screenshot shows the 'IPv6 WAN Setting' configuration page. At the top, there is a navigation bar with tabs: WAN, LAN, IPv6 Advanced, IPv6 WAN (selected), IPv6 LAN, VPN, Port Forward, DMZ, VLAN, QoS, and Rate Limit. Below the navigation bar is a sub-tab 'Advance'. The main heading is 'IPv6 WAN Setting'. Under this heading, there are three configuration items, each with a dropdown menu:

- Connection Type: DHCPv6
- DHCPv6 Address Settings: Statefull
- Prefix Delegation: Enable

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

Field Name	Description
Connection Type	Select connection type
DHCPv6 Address Settings	Set it to statefull mode.
Prefix Delegation	Select Enable.

Configuring Stateless IPv6

Table 83 Configuring Stateless IPv6

The screenshot shows the 'IPv6 WAN Setting' configuration page. The top navigation bar includes tabs for WAN, LAN, IPv6 Advanced, IPv6 WAN, IPv6 LAN, VPN, Port Forward, DMZ, VLAN, QoS, and Rate. The 'IPv6 WAN' tab is currently selected. Below the tabs, the 'IPv6 WAN Setting' section is displayed, containing three configuration items: 'Connection Type' (set to DHCPv6), 'DHCPv6 Address Settings' (set to Stateless), and 'Prefix Delegation' (set to Enable). At the bottom of the settings area, there are three buttons: 'Save', 'Cancel', and 'Reboot'.

Field Name	Description
Connection Type	Select connection type
DHCPv6 Address Settings	Set it to stateless mode
Prefix Delegation	Select Enable

Viewing WAN port status

To view the status of WAN port:

Navigate to Status page.

Network Status	
Active WAN Interface	
Connection Type	DHCP
IP Address	192.168.10.174 Renew
Link-Local IPv6 Address	
Subnet Mask	255.255.255.0
Default Gateway	192.168.10.1
Primary DNS	192.168.10.1
Secondary DNS	192.168.18.1
pv6 PD Prefix	
pv6 Domain Name	
pv6 Primary DNS	
pv6 Secondary DNS	
WAN Port Status	100Mbps Full

IPv6 DHCP configuration for LAN/WLAN clients

Wired and wireless clients connected to the Routers can obtain their IPv6 addresses based on how the LAN side DHCPv6 parameters are configured. The Routers can be either configured as a DHCPv6 server in which the LAN/WLAN clients get IPv6 addresses from the configured pool. If DHCP server is disabled on the Routers, the clients will get IPv6 addresses from the external DHCPv6 server configured in the network.

LAN DHCPv6

When IPv6 is enabled, the LAN/WLAN clients of Routers can be configured to receive IPv6 addresses from locally configured IPv6 pool or from an external DHCPv6 server.

To enable LAN DHCPv6 service:

WAN	LAN	IPv6 Advanced	IPv6 WAN	IPv6 LAN	VPN	Port Forward	DMZ	VLAN	QoS	Rate L
Advance										

IPv6 LAN Setting

IPv6 LAN Setting

IPv6 Address	fec0::1		
IPv6 Prefix Length	64	(0-128)	
DHCPv6 Server			
DHCPv6 Status	Disable ▼		
DHCPv6 Mode	Stateless ▼		
Domain Name			
Server Preference	255	(0-255)	
Primary DNS Server			
Secondary DNS Server			
Lease Time	86400	(0-86400sec)	
IPv6 Address Pool			
Router Advertisement			
Router Advertisement	Disable ▼		
Advertise Interval	30	(10-1800sec)	
RA Managed Flag	Disable ▼		
RA Other Flag	Enable ▼		
Prefix			
Prefix Lifetime	3600	(0-3600sec)	

Save & Apply Save Cancel Reboot

Chapter 5: Troubleshooting Guide

This chapter covers:

- [Configuring PC to get IP Address automatically](#)
- [Cannot connect to the Web GUI](#)
- [Forgotten Password](#)

Configuring PC to get IP Address automatically

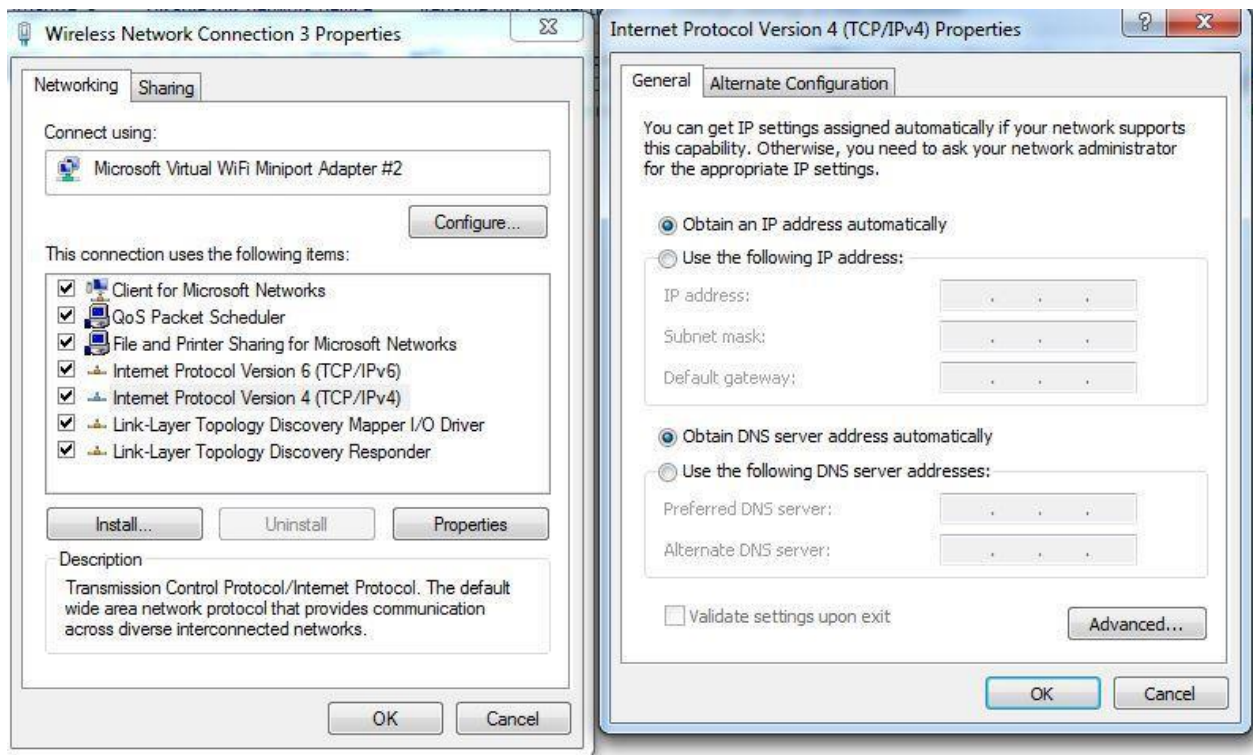
Follow the below process to set your PC to get an IP address automatically:

Step 1 : Click the “Start” button

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

Step 3 : Right click the “network connection” that your PC uses, select “attribute” and you can see the interface as shown in Figure 3.

Step 4.: Select “Internet Protocol (TCP/IP)”, click “attribute” button, then click the “Get IP address automatically” .



Cannot connect to the Web

Solution:

- Check if the Ethernet cable is properly connected
- Check if the URL is correct. The format of URL is: http:// the IP address
- Check on any other browser apart from Internet explorer such Google
- Contact your administrator, supplier or ITSP for more information or assistance.

Forgotten Password

If you have forgotten the management password, you cannot access the configuration web GUI. Solution:

To factory default: press and hold reset button for 10 seconds.