



User Manual FWR9600B

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About This User Guide

Thank you for choosing FWR9600B wireless router with VoIP.FWR9600B includes extended functions which support, USB memory card, This design not only provide users with a conventional VoIP and routing capabilities. Users can also take FWR9600B as a FTP server, to share LAN files, pictures and other resources. Meanwhile, FWR9600B VoIP wireless router is ideally suited for small and medium enterprises (SMB) to build wireless office. FWR9600Bsupports IEEE802.11ac gigabit wireless LAN standard, the highest wireless speed is up to 867Mbps and it supports both 2.4GHz and 5GHz bands. For VoIP end user, 5G band can make sure less interference and the transmission quality. The more, users can enjoy greater bandwidth, and enhanced data throughput.FWR9600B is integrates Internet sharing for daily application. It can not only provides wired Internet sharing capabilities but also offers Access Point (AP) function for daily wireless communication.



This guide contains the following chapters:

- Chapter 1 Product description
- Chapter 2 Configuring Basic Settings
- Chapter 3 Web Interface
- Chapter 4 IPv6 address configuration on WAN interface
- 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 three conditions:

- This device may not cause harmful interference
- This device must accept any interference received, including interference that may cause undesired operation.
- The distance between user and products should be no less than 20cm
- Operations in the 5.15-5.25GHz band are restricted to indoor usage only

CE

Manufacturer: Flyingvoice Network Technology Co., Ltd.

Address: Room 207~209, 2/F, Bldg B52#, Zhongchuang industrial park, Liuxian Avenue, Taoyuan

street, Nanshan District, Shenzhen

Hereby, Flyingvoice Network Technology Co., Ltd. declares that this device is in compliance with

the essential requirements and other relevant provisions of Directive 2014/53/EU

Importers: XXXXXXX
Address: XXXXXXX

A copy of the declaration of conformity can be obtained with this user manual; this product is

not restricted in the EU.

Hardware Version:R195W_V1_2

Software Version: V3.20(201901291603)

The wireless operation frequency

WIFI: 2412MHz-2472MHz, Max EIRP Power 18.95dBm

WIFI: 5180-5240MHz, Max EIRP Power 21.85dBm

WIFI: 5180-5240MHz, Max EIRP Power 21.85dBm

WIFI: 5745-5825MHz, Max EIRP Power 13.36dBm

Safety warning and Attentions

If use adapter, adapter must be comply 2014/30/EU Directive

Adapter Caution: Adapter shall be installed near the equipment and shall be easily accessible.

Do not store or use your product in temperatures higher than 45°C

RF Exposure Statement

The distance between user and products should be no less than 20cm

Class B Digital Device or Peripheral

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 can generate, use and radiate radio frequency energy. If not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference does not occur in a particular installation.



Note

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

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 interferences 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:

- FWR9600B
- LED Indicators and Interfaces
- Hardware Installation
- Voice Prompt

FWR9600B

Table 1 Features at-a-glance

Port/Model	FWR9600B
picture	
WAN	1
LAN	4
FXS	0
USB	NO
Ethernet	5* RJ45
interface	10/100/1000M
WiFi	2.4G 2T2R(300Mbps)
	5G 2T2R (867Mbps)
Management	Web Management, Provision:TFTP/HTTP/HTTPS, TR069, SNMP
VLAN	Support

LED Indicators and Interfaces

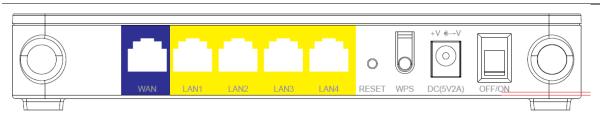
Table 2 LED Indicators



LED	Status	Explanation
Power	on Green	System is powereded on
	off	System is powered off
	on Green	Network is connected (physical connection established), no data transmission
WAN	Blinking Green	There is data being transmitted
	off	System is powered off or the network port is not connected to the network device.
	on Green	Network is connected (physical connection established), no data transmission
LAN (1-4)	Blinking Green	There is data being transmitted
	off	System is powered off or the network port is not
		connected to the network device.
	on Green	Wireless access point is ready.
2.4G	Blinking Green	2.4g is connected, and there is data transmitted
	off	2.4g wifi off or system is powered off
	on Green	Wireless access point is ready.
5G	Blinking Green	5g is connected, and there is data transmitted
	off	5g wifi off or system is powered off
	on Green	Registered successfully, but no data transfer
FXS(1-2)	Blinking Green	There is data being transmitted or fxs port is registering
	off	Power is off or registered failed

Table 3 Interfaces

FWR9600B



Interface	Description
POWER	Connector for a power adapter
RESET	Restore the factory settings button, press and hold the device after 5s to restore
WPS	Wi-Fi security settings, when mobile phones, laptops and other wireless devices to
	find the wireless router WiFi signal, when connected, click the WPS button on the
	router to complete the wireless router and wireless device encryption
	authentication and connection.
WAN	Connector for accessing the Internet
LAN 1/2/3/4	Connectors for local networked devices

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 the WAN port to the Interne your network's modem/switch/router/ADSL
- 2. equipment using an Ethernet cable.
- 3. Connect one end of the power cord to the power port of the device. Connect the other end to the wall outlet.
- 4. 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 configuration or updating the device. Using other power adapters may damage the equipment and will void the manufacturer warranty.

The standard power supply is 12V, 1A, and the Operation Temperature: 0~50 Degree C

A

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.

Chapter 2 Basic Settings

This chapter covers:

- Two-Level Management
- Web Management Interface
- Configuring

Two-Level Management

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

FWR9600B supports two-level management:

- (1) administrator mode operation: please type "admin/admin" on Username/Password and click Login button to begin configuration.
- (2) 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

Login in from the LAN port

1.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 192.168.1.1. For detailed information, see Chapter 5: Troubleshooting Guide.

- 2.Open a web browser on your PC and type "http://192.168.1.1".
- 3. The following window appears and prompts for username, password.



- 4. For administrator mode operation, please type admin/admin on Username/Password and click Login to begin configuration.
- 5. 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 5Troubleshooting Guide for more information.

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

Login in from the WAN port

- 1.Ensure your PC is connected to the router's WAN port correctly.
- 2.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.
- 3.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.



- 4. For administrator mode operation, type admin/admin on Username/Password and click Login to begin configuration.
- 5. 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 5 Troubleshooting Guide for more information.

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

Web Management Interface Details

Satus

Table 5 Web management interface



Serial number	Name	Description
Postition 1	Main navigation bar	Click this navigation bar to bring up the corresponding child navigation bar
Postition 2	navigation bar	Click the sub navigation bar to enter the configuration page
Postition 3	Product Information	Device Information Configuration Title
Postition 4	Product Information	Show product information
Postition 5	Login/Logout	main information shows the firmware version, DSP version, current time and management mode.
Postition 6	Help	help to display help information, users can get some help here
	Save & Apply	Use this button, conifg will be saved and And take effect immediately
	Save	After changing the parameters, you need to click this button to save. After you click Save, there is a need to restart the device.
	Cancel	Click to cancel the change
	Reboot	Click to restart
	Refresh	Refresh current page

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
Option 42	Whether to enable Option 42
Current Time	When NTP Enable is set to "Disable", manually configure the time
	and date via the Current Time parameter
Sync with host	Press Sync with host button to synchronize the host PC
	date, time and time zone.
Time Zone	Select the desired time zone
Primary NTP Server	Primary and secondary NTP server address for clock
Secondary NTP Server	synchronization. A valid NTP server must be reachable for full NTP
NTP Synchronization(1 -	The synchronization period with NTP (1-1440 minutes), default is
1440min)	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 Network Wireless 2.4GHz Wireless 5GHz SIP FXS1 FXS2 **Application Status** Security WAN LAN IPv6 Advanced VPN IPv6 WAN IPv6 LAN Port Forward DMZ VLAN QoS Rate I Advance INTERNET WAN Connect Name 1_MANAGEMENT_VOICE_INTERNET_R_VID ▼ Delete Connect Service MANAGEMENT_VOICE_INTERNET ▼ IP Protocol Version IPv4 ▼ DHCP ▼ WAN IP Mode **DHCP Server** MAC Address Clone Disable ▼ Enable ▼ NAT Enable VLAN Mode Disable ▼ VLAN ID (1-4094)DNS Mode Auto Primary DNS Secondary DNS DHCP **DHCP Renew** Renew DHCP Vendor (Option 60) FLYINGVOICE-G902CH Port Bind Port_2 Port_1 Port 3 Port_4 ✓ Wireless (SSID1) ✓ Wireless (SSID2) ✓ Wireless (SSID) ✓ Wireless (SSID3) Note: LAN (local) ports can only be bound to one WAN (Internet) connection at a time!

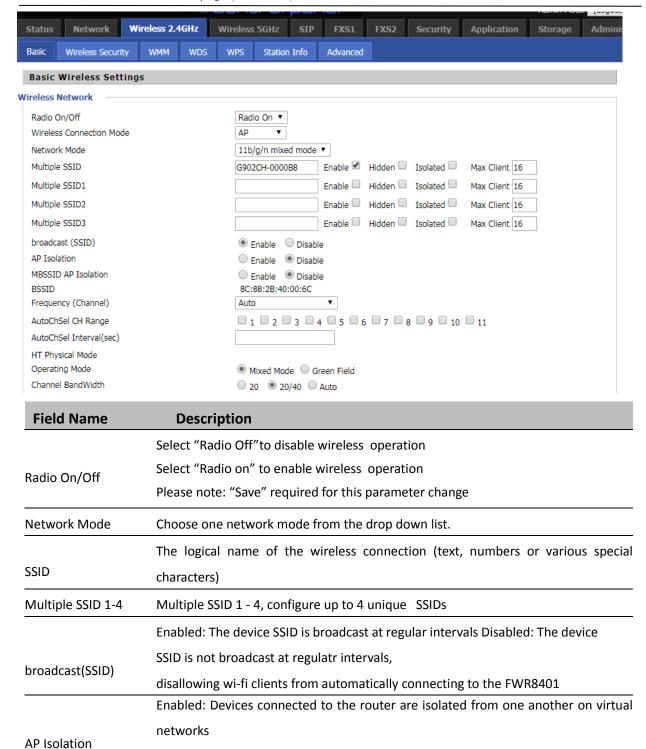
Field Name	Description
Connect Name	Use keywords to indicate WAN port service model (the parameters are defined
	in Network> multi-WAN page)
Service	Chose the service mode for the created connection
IP Protocol Version	IPv4 and IPv6 are supported
WAN IP Mode	Choose Internet connection mode, DHCP, PPPoE,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

- 1. Enable Wireless and Setting SSID
- 2.Open Wireless > Basic webpage as shown below:

Table 8 Wireless > Basic web page (user view)



Disabled: Devices connected to the router are visible on the network to each other

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
Basic Service Set Identifier – AP MAC Address Listing
Select the channel of operation for the device from the drop-down list
Mixed Mode: Packet preamble (only) is transmitted in a format compatible with
egacy 802.11a/g (for 802.11a/g receivers).
Green Field: High throughput packet preambles do not contain legacy formatting
20: the device operates with a 20 MHz channel size 20/40: the device operates with
a 40 MHz channel size
3

Encryption

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

Table 9 Wireless Security web page Wireless Security WMM WDS WPS Basic Station Info Advanced Wi-Fi Security Settings Select SSID SSID choice FWR9202-0C1F38 ▼ "FWR9202-0C1F38" WPA-PSK • Security Mode WPA WPA Algorithms ○ TKIP ● AES ○ TKIPAES ******* Pass Phrase sec (0 ~ 86400) Key Renewal Interval 3600 **Access Policy** Disable ▼ Policy Add a station MAC (The maximum rule count is 64) Save & Apply Save | Cancel | Reboot

Field Name	Description
SSID Choice	Choose the SSID from the drop-drown list for which security will be configured
	Select an appropriate encryption mode to improve the security and privacy of
	your wireless data packets.
Security Mode	Each encryption mode will launch an additional web page and ask you to offer
Jesuite, meac	additional configuration.
	For high security, the device can be configured for Security Mode as
	WPA2-PSK and WPA Algorithms as AES.
	This parameter is used to select the encryption of wireless home gateway
WPA Algorithms	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	
	Disable: Access policy rules are not enforced
Policy	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

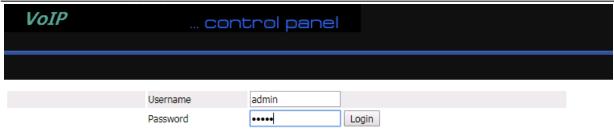
Chapter 3 Web Interface

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

- Login
- Status
- Network and Security
- Wireless
- Security
- Application
- Administration
- Management
- System Log
- Logout
- Reboot

Login

Table 12 Login details



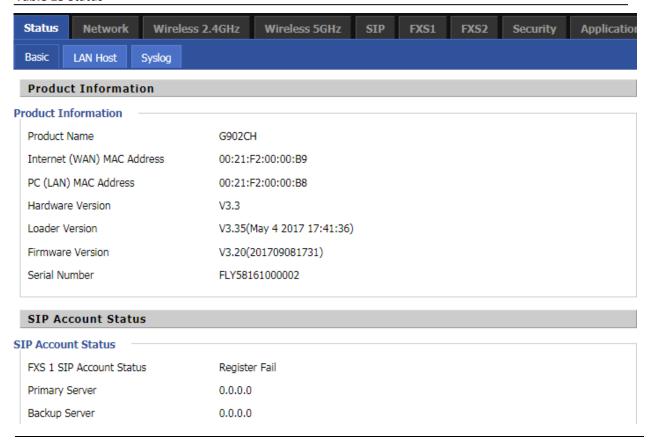
Procedure

- 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

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

Table 13 Status



Network and Security

You can configure the WAN port, LAN port, DDNS, Multi WAN, DMZ, MAC Clone, 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

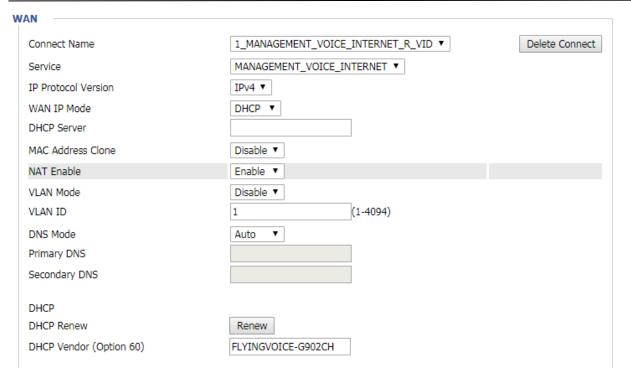
Field Name	Descripti
IP Address	The IP address of Internet port
Subnet Mask	The subnet mask of Internet port
Default Gateway	The default gateway of Internet port
DNS Mode	 Select DNS mode, options are Auto and Manual: When DNS mode is Auto, the device under LAN port will automatically obtain the preferred 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



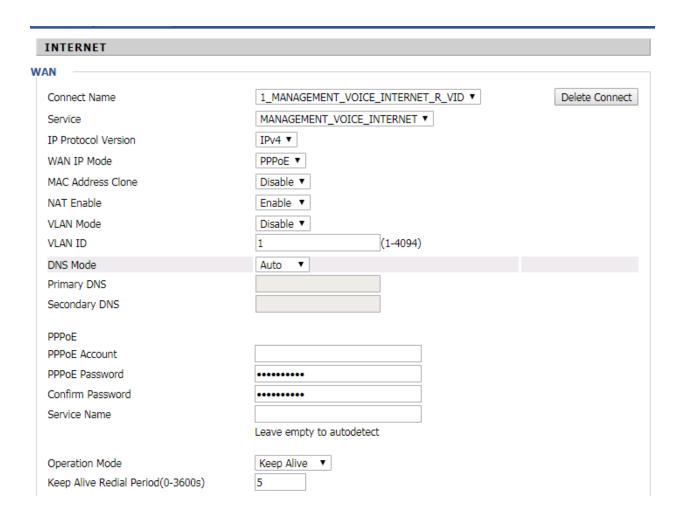
Field Name	Description
	Select DNS mode, options are Auto and Manual:
DNS Mode	When DNS mode is Auto, the device under LAN port will automatically obtain the preferred DNS and alternate DNS.
	When DNS mode is Manual, the user should manually configure the
Primary DNS Address	Primary DNS of Internet port.
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



Field Name	Description
PPPoE Account	Enter a valid user name provided by the ISP
	Enter a valid password provided by the ISP. The password can contain special characters
PPPoE Password	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 emply, 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	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 1_MANAGEMENT_VOICE_INTERNET_R_VID ▼ Delete Connect Connect Name MANAGEMENT_VOICE_INTERNET ▼ Service IPv4 ▼ IP Protocol Version WAN IP Mode Bridge ▼ Bridge Type IP Bridge DHCP Service Type Pass Through VLAN Mode Disable ▼ VLAN ID (1-4094)Port Bind Port_2 Port 1 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	Descripti
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.
802.1p	Set the priority of VLAN, Options are 0~7.



Note

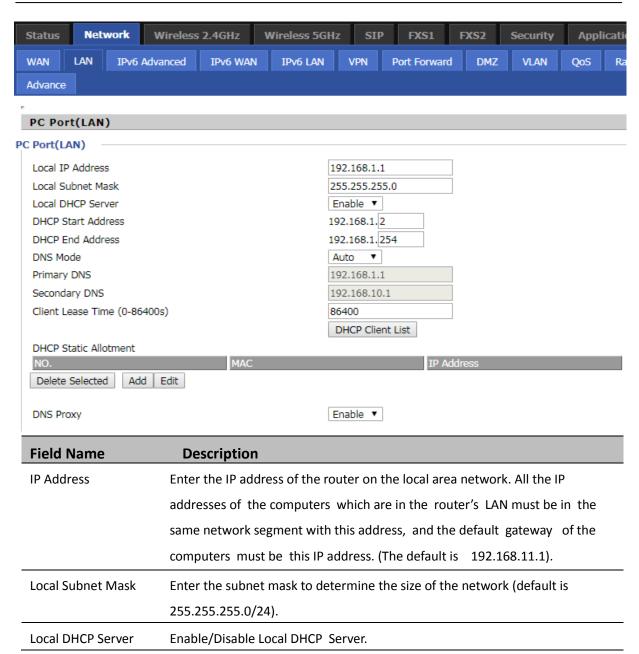
Multiple WAN connections may be created with the same VLAN ID

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



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 made is Manual the user should manually configure the preferred
	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.

VPN

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

Table 19 VPN



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.

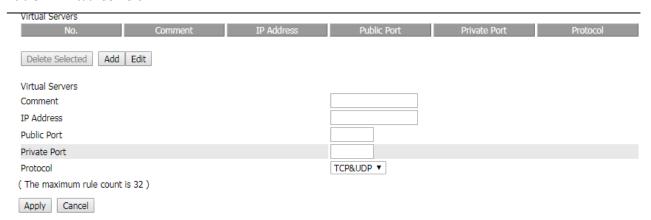
Port Forward

Table 20 Port Forward



Field Name	Description
ricia ivanic	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.

Table 21 Virtual Servers



Field Name	Description
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.

DMZ

Table 22 DMZ

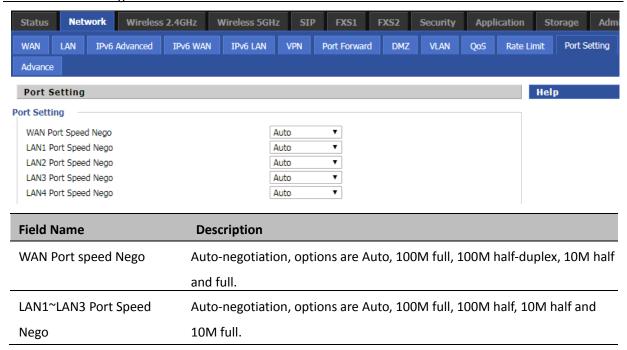
DMZ Host IP Address



Enter the private IP address of the DMZ host.

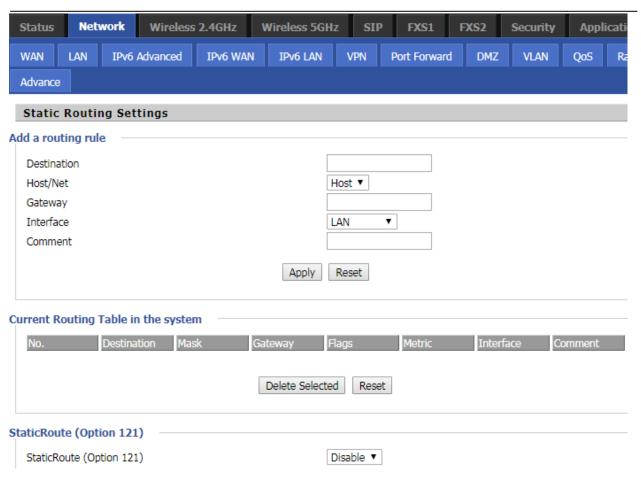
Port Setting

Table 23 Port setting



Routing

Table 24 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 25 Advance

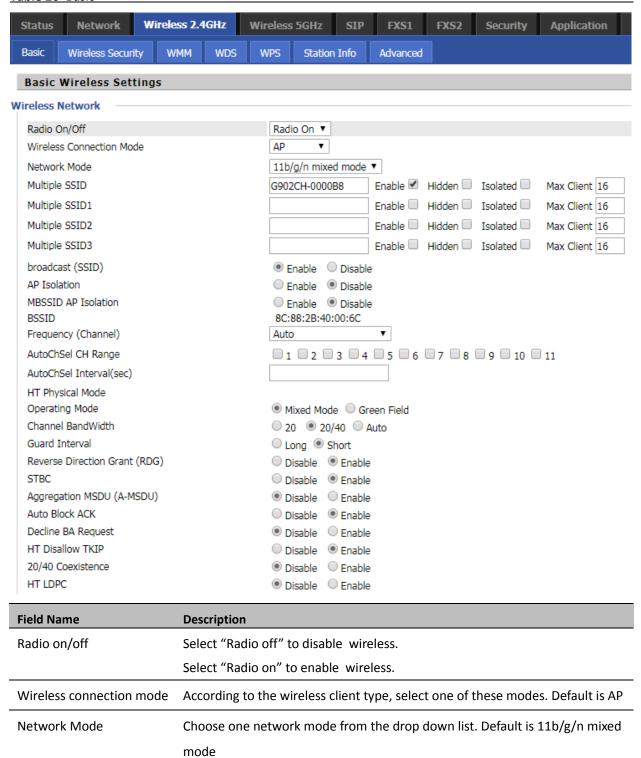


Field Name	Description
Most Nat connections	The largest value which the FWR8401 can provide
Mss Mode	Choose Mss Mode from Manual and Auto
Mss Value	Set the value of TCP
AntiDos-p	You can choose to enable or prohibit
IP conflict detection	Select enable if enabled, phone IP conflict will have tips or prohibit;
IP conflict Detecting	Detect IP address conflicts of the time interval
Interval	

Wireless 2.4GHz

Basic

Table 26 Basic

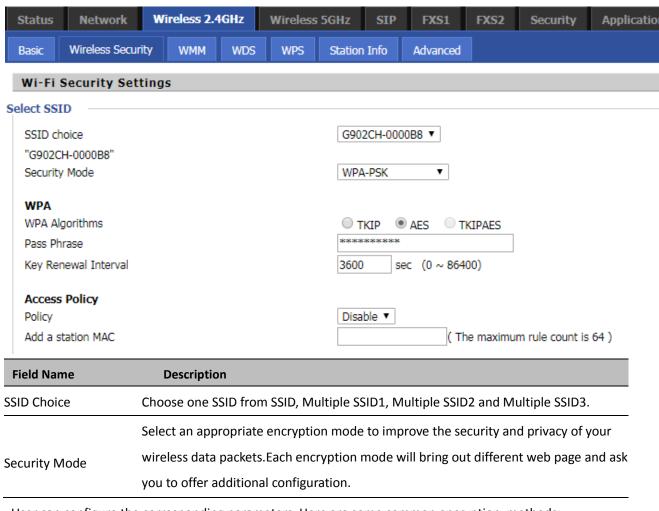


	11b/g/n mixed mode 11b/g mixed mode 11b only 11g only 11b/g/n mixed mode 11n only(2.4G)	
SSID	It is the basic identity of wireless LAN. SSID can be any alphanumeric or a	
	combination of special characters. It will appear in the wireless network access	
	list.	
Multiple SSID1~SSID3	The device supports 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	Mixed Mode: In this mode, the previous wireless card can recognize and	
Operating	connect to the Pre-N AP, but the throughput will be affected	
Mode	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	
	Enabled: Devices on the WLAN are able to transmit to each other without	
Reverse Dirction Grant	requiring an additional contention-based request to transfer (i.e. devices are	
(RDG)	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	

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

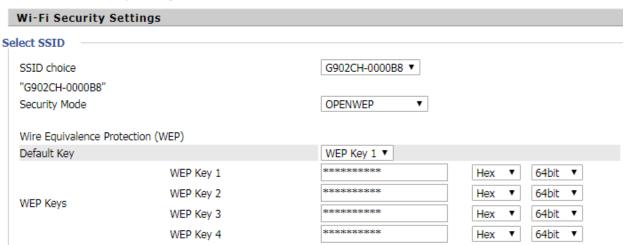
Table 27 Wireless security



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 28 WiFI Security Setting



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 29 WPA-PSK

ect SSID	
SSID choice	G902CH-0000B8 ▼
"G902CH-0000B8"	
Security Mode	WPA-PSK ▼
WPA	
WPA Algorithms	○ TKIP ● AES ○ TKIPAES
Pass Phrase	*******
Key Renewal Interval	3600 sec (0 ~ 86400)

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.
Key Renewal Interval	Set the key scheduled update cycle, default is 3600s.

WPAPSKWPA2PSK manner is consistent with WPA2PSK settings:

Table 30 WPAPSKWPA2PSK

Wi-Fi Security Settings Select SSID SSID choice G902CH-0000B8 ▼ "G902CH-0000B8" • Security Mode WPA2-PSK WPA WPA Algorithms Pass Phrase ****** Key Renewal Interval sec (0 ~ 86400) 3600

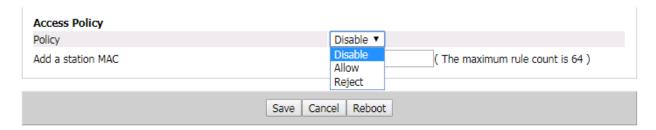
Field Name	Description
WPA Algorithms	The home gateway is used to select the wireless security encryption algorithm options are TKIP, AES, TKIP / AES. 11N mode does not support TKIP algorithms.
Pass Phrase	Set WPA-PSK/WPA2-PSK security code
Key Renewal Interval	Set the key scheduled update cycle, default 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 31 Wireless Access Policy



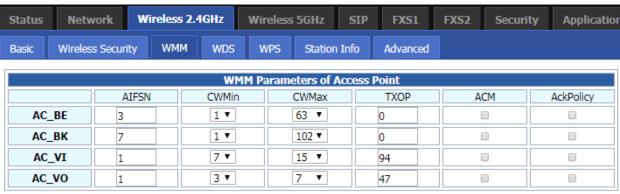
Field Name	Description
Access policy	Wireless access control is used to allow or prohibit the specified client to access to
	your wireless network based on the MAC address.
Policy	Disable: Prohibition: wireless access control policy. Allow: only allow the clients in
	the list to access.
	Rejected: block 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
Evample: Prohibit the	device whose wireless network card MAC address is 00:15: D0: 62: RA:EE's to access

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

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.

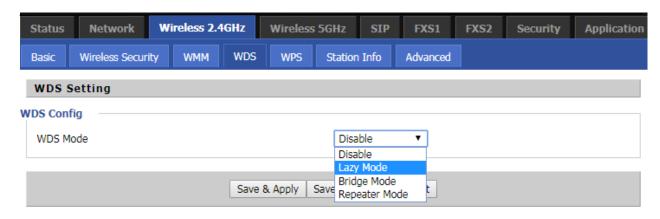
Table 32 WMM



WDS

Table 33 WDS

Chapter 3 Web Interface



Description

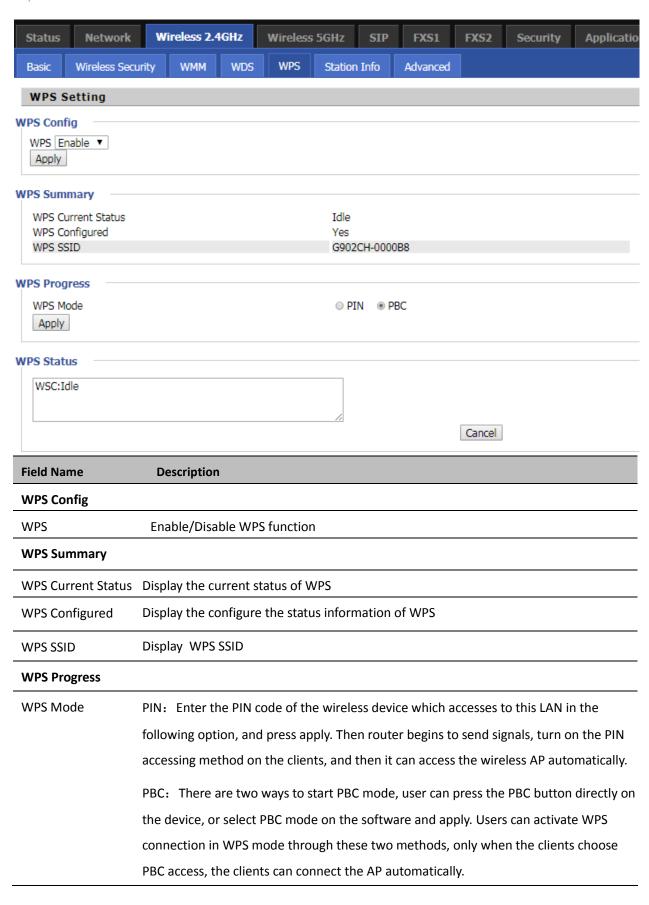
WDS stands for Wireless Distribution System, enabling WDS access points to be interconnected to expand a wireless network.

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 34 WPS



WPS Status WPS shows status in three ways:

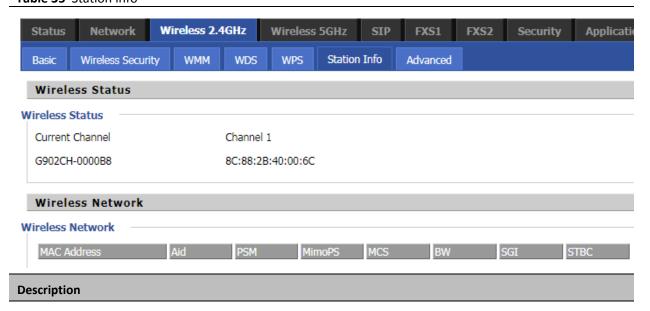
WSC: Idle

WSC: Start WSC process (begin to send messages)

WSC: Success; this means clients have accessed the AP successfully

Station Info

Table 35 Station info



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

Advanced

Table 36 Advanced



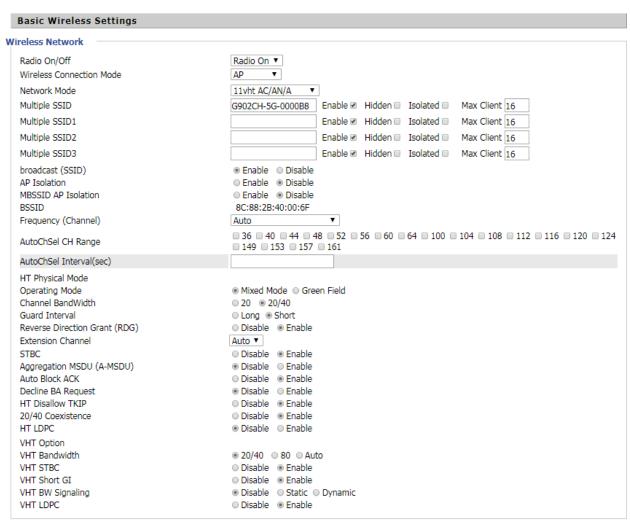
Chapter 3 Web Interface

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 WMM Configuration , 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 5GHz

Basic

Table 37 Basic



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

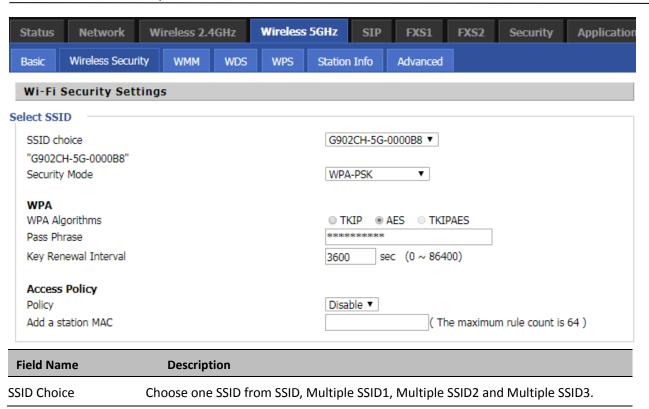
Multiple SSID	It is the basic identity of wireless LAN. SSID can be any alphanumeric or a
	combination of special characters. It will appear in the wireless network access
	list.

Multiple SSID1~SSID3	The device supports 4 SSIDs.
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.
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
	Enabled: Devices on the WLAN are able to transmit to each other without
Reverse Dirction Grant	requiring an additional contention-based request to transfer (i.e. devices are
(RDG)	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
	Disabled: STBC is not employed for signal transmission
	Enabled: Allows the device to aggregate multiple Ethernet frames into a single
Aggregation MSDU (A-	802.11n, thereby improving the ratio of frame data to frame overhead
MSDU)	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
HT LDPC	devices 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 38 Wireless security



	Select an appropriate encryption mode to improve the security and privacy of your
Security Mode	wireless data packets. Each encryption mode will bring out different web page and ask
	you to offer additional configuration.

Select a different encryption mode, the web interface will be different, user can configure the corresponding parameters under the mode you select. Please refer to 4.4.2 section.

WMM

Please refer to 4.4.3 section.

WDS

Please refer to 4.4.4 section.

WPS

Please refer to 4.4.5 section.

Station Info

Please refer to 4.4.6 section.

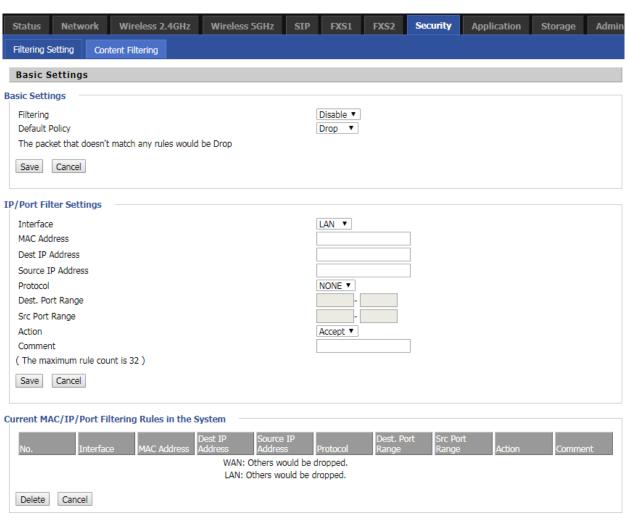
Advanced

Please refer to 4.4.7 section.

Security

Filtering Setting

Table 54 Filtering Setting

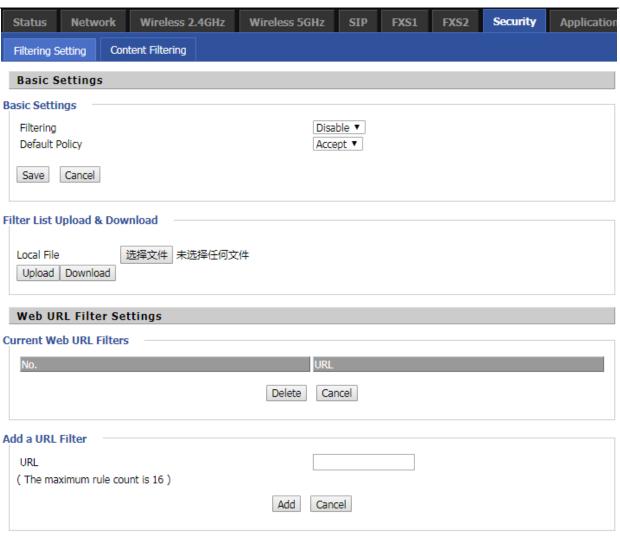


Description
If or not enable filter function
Choose to give up or accept
Add the Mac address filtering
Dest IP address
Source IP address
Select a protocol name, support for TCP, UDP and TCP&UDP
Destination port ranges
Source port range

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 55 Content Filtering



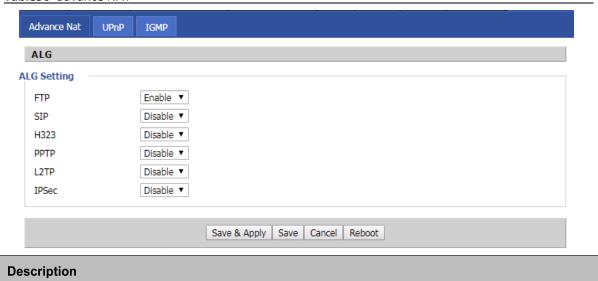
Field Name	Description
Filtering	Enable/Disable content Filtering
Default Policy	The default policy is to accept or to prohibit filtering rules
Current Webs URL Filters	List the URL filtering rules that already existed (blacklist)
Delete/Cancel	You can choose to delete or cancel the existing filter rules
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

Table56 advance NAT



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 57 UPnP



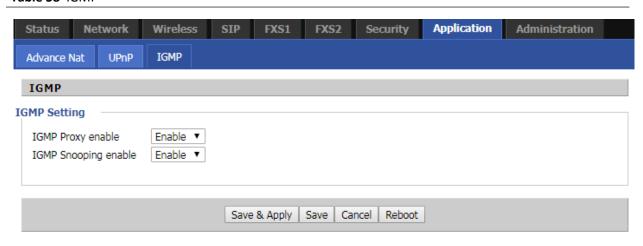
110 0 11	5 11 /p; 11 11p p (
UPnP enable	Enable/Disable UPnP function.

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 58 IGMP



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

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

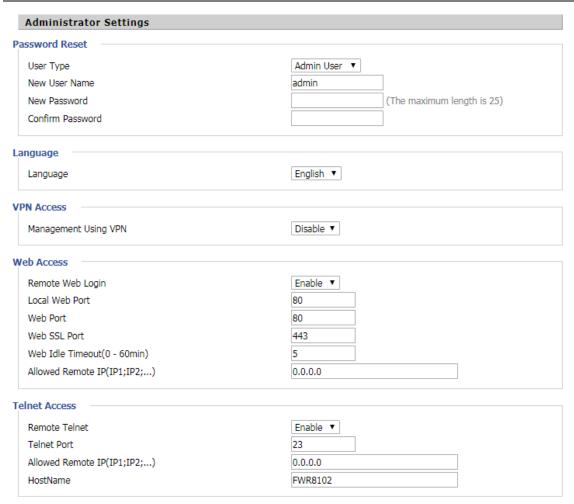
Table 62 Save Config File



Field Name	Description
Config file upload and	Upload: click on browse, select file in the local, press the upload button to
download	begin uploading files
	Download: click to download, and then select contains the path to download
	the configuration file

Administrator settings

Table 63 Administrator settings

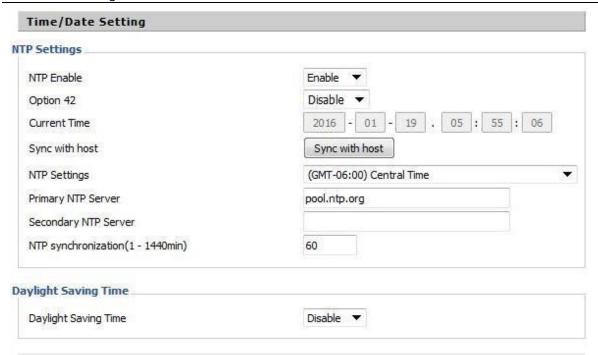


Field Name	Description
User type	Choose the user type from admin user and normal user and basic user
New User Name	You can modify the user name, set up a new user name
New Password	Input the new password
Confirm Password	Input the new password again

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	Set the IP from which a user can login the device remotely
IP(IP1,IP2,)	
Telnet Port	Set the port value which is used to telnet to the device

NTP settings

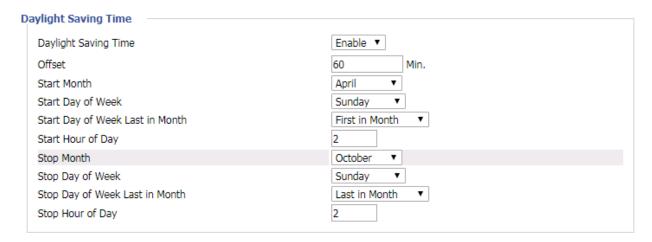
Table 64 NTP settings



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 65 Daylight Saving Time



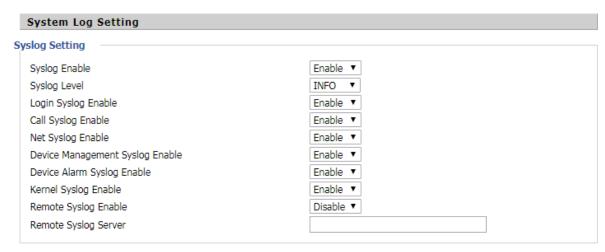
Procedure

- 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

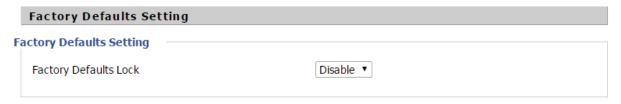
Table 66 System log Setting



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 67 Factory Defaults Setting



Description

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

Factory Defaults

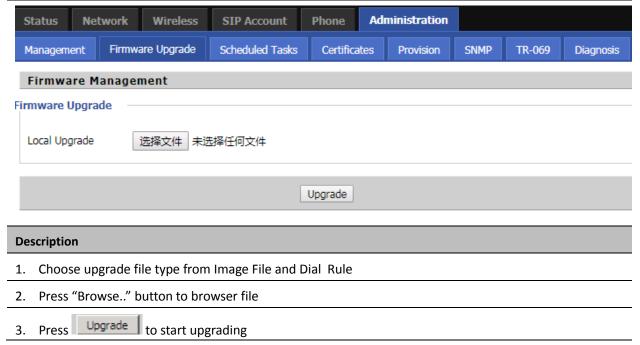
Table 68 Factory Defaults



Click Factory Default to restore the residential gateway to factory settings

Firmware Upgrade

Table 69 Firmware upgrade



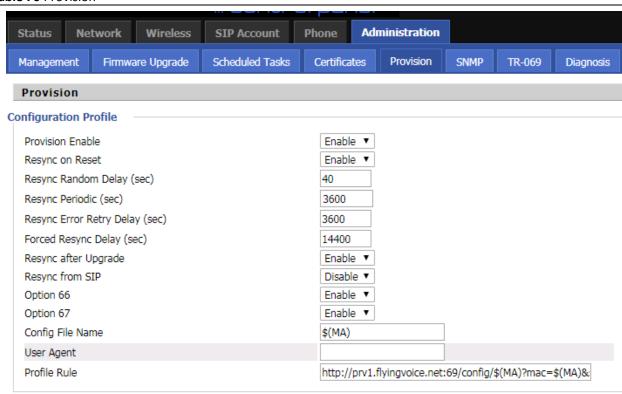
Provision

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 70 Provision



Field Name	Description
Provision Enable	Enable provision or not.
Resync on Reset	Enable resync after restart or not
Resync Random	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
Resync Error Retry	Set the periodic time for resync, default is 3600s
Forced Resync	If it's time to resync, but the device is busy now, in this case, the router will wait
Resync After	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

Chapter 3 Web Interface

Config File Name	It is used for In-house provision mode only. When use TFTP with option 66 to
Profile Rule	URL of profile provision file

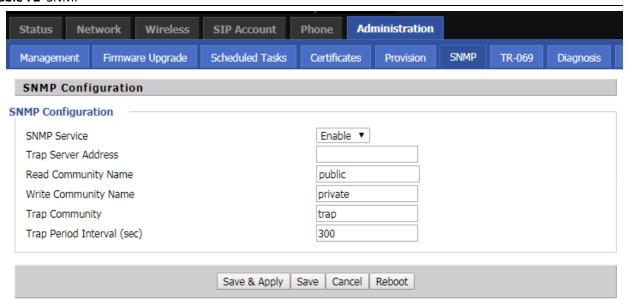
Table 71 Firmware Upgrade



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

SNMP

Table 72 SNMP



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 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 73 TR069 Status Network Wireless **SIP Account Phone** Administration Scheduled Tasks Certificates SNMP TR-069 Firmware Upgrade Provision Diagnosis Management TR-069 Configuration ACS Enable ▼ TR-069 Enable Enable ▼ CWMP ACS URL http://acs1.flyingvoice.net:8080/tr069 User Name Password Enable Periodic Inform Enable ▼ Periodic Inform Interval 3600 Connect Request User Name FWR8401 Password Save & Apply Save Cancel Reboot

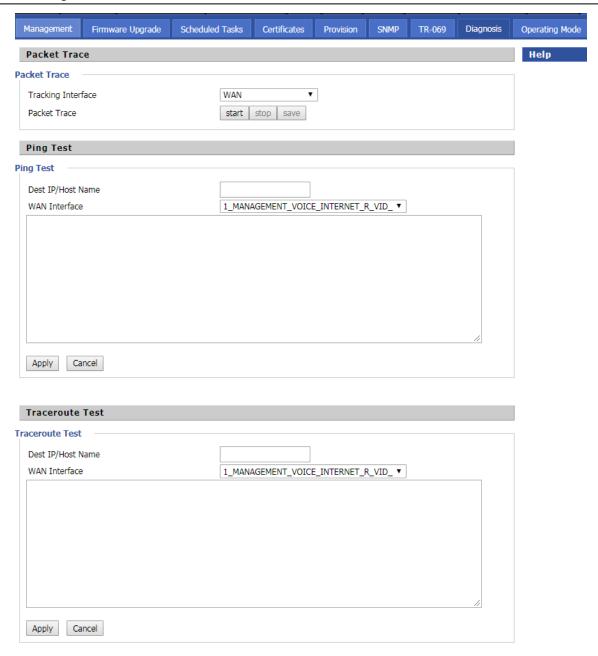
Field Name	Description
ACS parameters	
TR069 Enable	Enable or Disable TR069
CWMP	Enable or Disable CWMP
ACS URL	ACS URL address
User Name	ACS username
Password	ACS password

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 paramet	ers
User Name	The username 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 74 Diagnosis



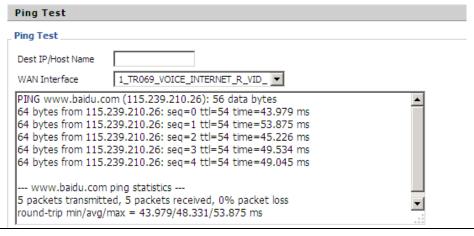
Description

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.



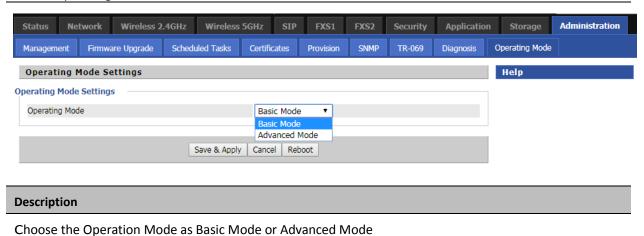
3. Traceroute Test

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



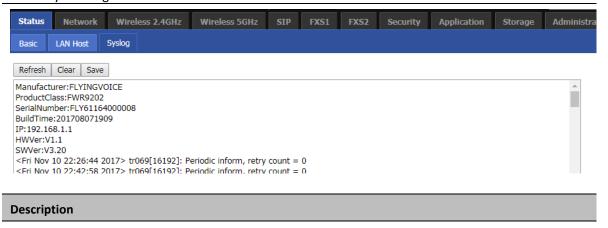
Operating Mode

Table 75 Operating mode



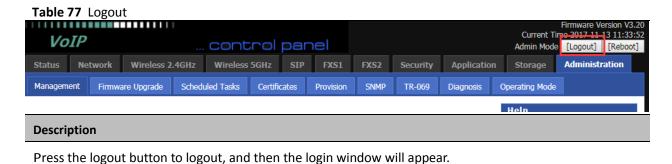
System Log

Table 76 System log



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

Logout



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

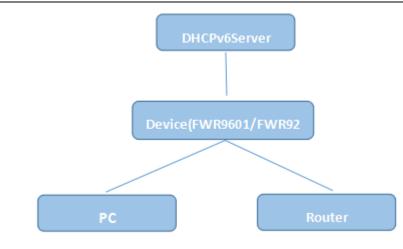
DHCPv6 protocol is used to automatically provision/configure IPv6 capable end points in a local network. In addition to acquiring an IPv6 IP address for the WAN interface and its associated LAN/WLAN clients, the devices are also capable of prefix delegation.

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

- Stateless DHCPv6
- Statefull DHCPv6

Table 78 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.



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

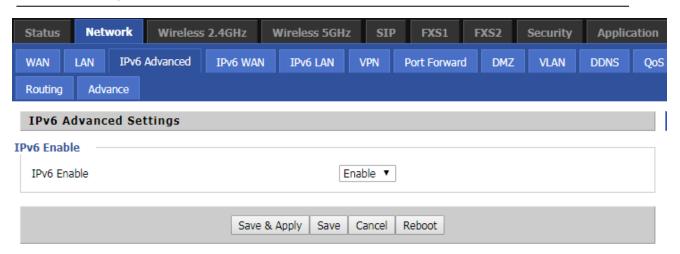
To enable IPv6 functionality:

Navigate to Network > IPv6 Advanced page.

Select Enable from the IPv6 Enable drop-down list.

Click Save.

Table 79 Enabling IPv6

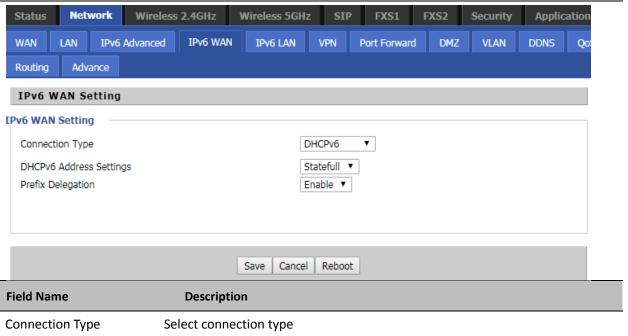


Configuring IPv6

Configuring Statefull IPv6

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

Table 80 Configuring Statefull IPv6

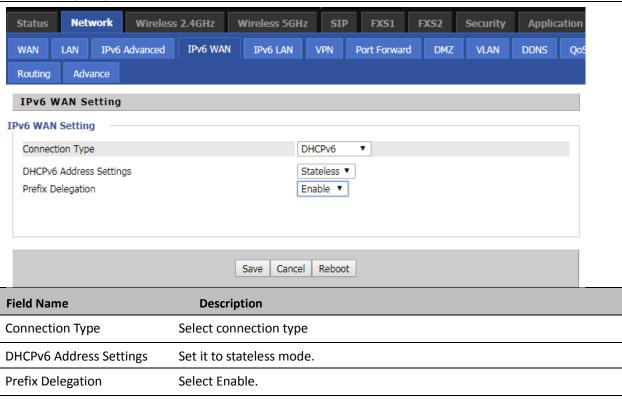


Chapter 4 IPv6 address configuration

DHCPv6 Address Settings	Set it to statefull mode.
Prefix Delegation	Select Enable.

Configuring Stateless IPv6

Table 81 Configuring Stateless IPv6



Viewing WAN port status

To view the status of WAN port: Navigate to Status page.

Network Status		
ctive WAN Interface		
Connection Type	DHCP	
IP Address	192.168.10.174 F	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		7
pv6 Domain Name		-1
pv6 Primary DNS		
pv6 Secondary DNS		
WAN Port Status	100Mbps Full	

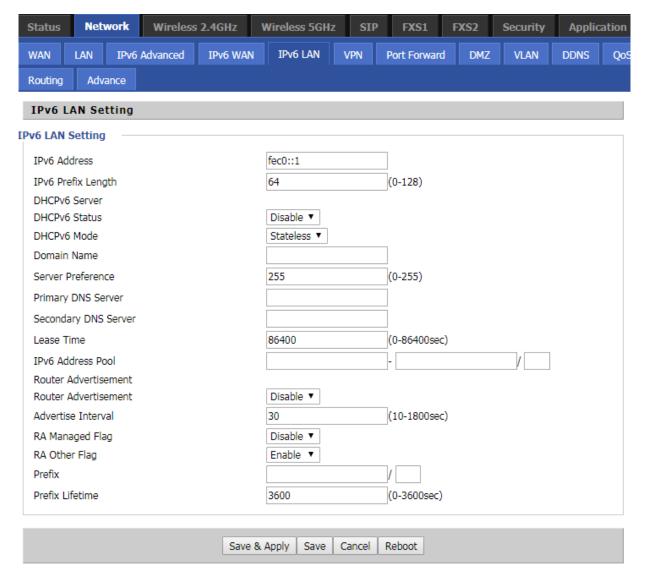
IPv6 DHCP configuration for LAN/WLAN clients

Wired and wireless clients connected to the Routers can obtain their IPv6 addresses based on how the LAN s ide 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:



Chapter 5 Troubleshooting Guide

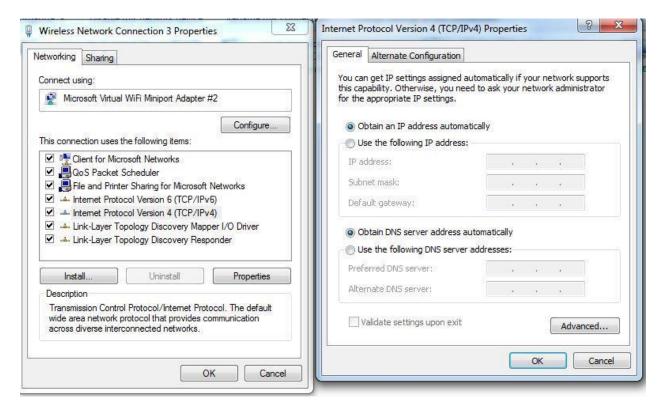
This chapter covers:

- 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.