

The VWRT510 High Speed Router User's Guide



V1.0

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1 Preface

Thank you for choosing VWRT510 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 VWRT510 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.

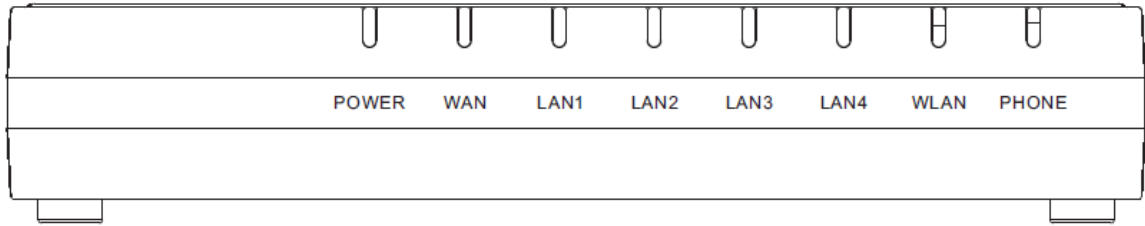
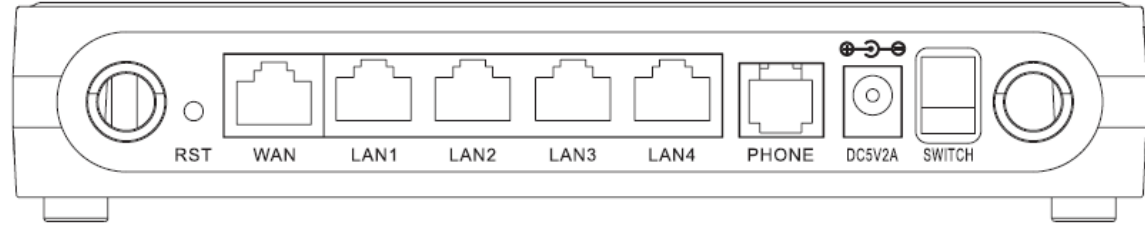
Before you can connect VWRT510 to the Internet and use it, you must have a high-speed broadband connection installed. A high-speed connection includes environments such as DSL, cable modem, and a leased line.

VWRT510 wireless router with VoIP is a stand-alone device, which requires no PC to make Internet calls. This product guarantees clear and reliable voice quality on Internet, which is fully compatible with SIP industry standard and able to interoperate with many other SIP devices and software on the market.

2 LED Indicators and Connectors

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

2.1 LED Indicators

Front Panel	LED	Status	Explanation
	PHONE	Blinking(Green)	Not registered.
		On (Green)	Registered
	WLAN	On (Green)	Wireless access point is ready.
		Blinking(Green)	It will blink while wireless traffic goes through.
	LAN 1/2/3/4	On (Green)	The port is connected with 100Mbps.
		Off	The port is disconnected.
		Blinking(Green)	The data is transmitting.
	WAN	On(Green)	The port is connected with 100Mbps.
		Off	The port is disconnected.
		Blinking(Green)	It will blink while transmitting data.
POWER	On(Red)	The router is powered on and running normally.	
	Off	The router is powered off.	
Rear Panel	Interface	Description	
	ON/OFF	Power Switch.	
	DC 5V/2A	Connector for a power adapter.	
	FXS	Connect to the phone.	
	WAN	Connector for accessing the Internet.	
	LAN (1/2/3/4)	Connectors for local networked devices.	

2.2 Hardware Installation

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

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

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

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

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

Step 5. Push the **ON/OFF** button to power on the router.

Step 6. Check the Power and WAN, LAN LEDs to assure network connections.

3 Voice Prompt

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

Voice Menu Setting Options

Operation code	Contents
1	<p>Step 1.Pick up phone and press “****” to start IVR</p> <p>Step 2.Choose “1”, and VWR510 report the current WAN port connection type</p> <p>Step 3.Prompt "Please enter password", user need to input password with end char # if user want to configuration WAN port connection type.</p> <p>◇ The password in IVR is same as the one of WEB login, user can use phone keypad to enter password directly, and the matching table is in Note</p>
2	<p>Step 1.Pick up phone and press “****” to start IVR</p> <p>Step 2.Choose “2”, and VWR510 report current WAN Port IP Address</p> <p>Step 3.Input the new WAN port IP address and with the end char #,</p> <p>◇ using “*” to replace “.”, user can input 192*168*20*168 to set the new IP address 192.168.20.168</p> <p>◇ press # key to indicate that you have finished</p> <p>Step 4.Report “operation successful” if user operation properly.</p> <p>◇ Note: If you want to quit by the wayside, press “***”.</p>
3	<p>Step 1.Pick up phone and press “****” to start IVR</p> <p>Step 2.Choose “3”, and VWR510 report current WAN port subnet mask</p> <p>Step 3.Input a new WAN port subnet mask and with the end char #</p> <p>◇ using “*” to replace “.”, user can input 255*255*255*0 to set the new WAN port subnet mask 255.255.255.0</p> <p>◇ press # key to indicate that you have finished</p> <p>3) Report “operation successful” if user operation properly.</p> <p>◇ Note: If you want to quit by the wayside, press “***”.</p>
4	<p>Step 1.Pick up phone and press “****” to start IVR</p> <p>Step 2.Choose “4”, and VWR510 report current gateway</p> <p>Step 3.Input the new gateway and with the end char #</p> <p>◇ using “*” to replace “.”, user can input 192*168*20*1 to set the new gateway 192.168.20.1</p> <p>◇ press # (pound) key to indicate that you have finished</p> <p>3) Report “operation successful” if user operation properly.</p> <p>◇ Note: If you want to quit by the wayside, press “***”.</p>
5	<p>Step 1.Pick up phone and press “****” to start IVR</p> <p>Step 2.Choose “5”, and VWR510 report current DNS</p> <p>Step 3.Input the new DNS and with the end char #</p> <p>◇ using “*” to replace “.”, user can input 192*168*20*1 to set the new gateway 192.168.20.1</p> <p>◇ press # (pound) key to indicate that you have finished</p> <p>3) Report “operation successful” if user operation properly.</p> <p>◇ If you want to quit by the wayside, press “***”.</p>

6	<p>Step 1.Pick up phone and press “*****” to start IVR</p> <p>Step 2.Choose “6”, and VWRT510 report “Factory Reset”</p> <p>Step 3.Prompt "Please enter password", the method of inputting password is the same as operation 1. ✧ If you want to quit by the wayside, press “*”.</p> <p>Step 4.Prompt “operation successful” if password is right and then VWRT510 will be factory setting.</p> <p>Step 5.Press “7” reboot to make changes effective.</p>
7	<p>Step 1.Pick up phone and press “*****” to start IVR</p> <p>Step 2.Choose “7”, and VWRT510 report “Reboot”</p> <p>Step 3.Prompt "Please enter password", the method of inputting password is same as operation 1.</p> <p>Step 4.VWRT510 will reboot if password is right and operation is properly.</p>
8	<p>Step 1.Pick up phone and press “*****” to start IVR</p> <p>Step 2.Choose “8”, and VWRT510 report “WAN Port Login”</p> <p>Step 3.Prompt "Please enter password", the method of inputting password is same as operation 1. ✧ If you want to quit by the wayside, press “*”.</p> <p>Step 4.Report “operation successful” if user operation properly.</p> <p>Step 5.Prompt “1enable 2disable”,choose 1 or 2, and with confirm char #</p> <p>Step 6.Report “operation successful” if user operation properly.</p>
9	<p>Step 1.Pick up phone and press “*****” to start IVR</p> <p>Step 2.Choose “9”, and VWRT510 report “ WEB Access Port”</p> <p>Step 3.Prompt “Please enter password”, the method of inputting password is same as operation 1.</p> <p>Step 4.Report “operation successful” if user operation properly.</p> <p>Step 5.Report the current WEB Access Port</p> <p>Step 6.Set the new WEB access port and with end char #</p> <p>Step 7. Report “operation successful” if user operation properly.</p>
0	<p>Step 1.Pick up phone and press “*****” to start IVR</p> <p>Step 2.Choose “0”, and VWRT510 report current Firmware version</p>

Notice:

- ◆ When using Voice Menu, press * (star) to return the main menu.
- ◆ If any changes made in the IP assignment mode, please reboot the VWRT510 to take the setting into effect.
- ◆ When enter IP address or subnet mask, use “*” (Star) to replace “.” (Dot).

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

- ◆ #(pound) key to indicate that you have finish entering the IP address or subnet mask

- ◆ When assigning IP address in Static IP mode, setting IP address, subnet mask and default gateway is a must. If in DHCP mode, please make sure that DHCP SERVER is available in your existing broadband connection to which WAN port of VWRT510 is connected.
- ◆ The default LAN port IP address of VWRT510 is 192.168.11.1 and do not set the WAN port IP address of VWRT510 in the same network segment of LAN port of VWRT510, otherwise it may lead to the VWRT510 fail to work properly.
- ◆ You can enter the password by phone keypad, the matching table between number and letters as follows:
 - To input: D, E, F, d, e, f -- press '3'
 - To input: G, H, I, g, h, i -- press '4'
 - To input: J, K, L, j, k, l -- press '5'
 - To input: M, N, O, m, n, o -- press '6'
 - To input: P, Q, R, S, p, q, r, s -- press '7'
 - To input: T, U, V, t, u, v -- press '8'
 - To input: W, X, Y, Z, w, x, y, z -- press '9'
 - To input all other characters in the administrator password-----press '0',
E.g. password is 'admin-admin', press '236460263'

4 Configuring Basic Settings

4.1 Two-Level Management

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

VWRT510 supports one-level management: user. For user mode operation, please type **user/xxxxx(default password the the last 8 letters of LAN port MAC address)** on Username/Password and click **Login** button for full configuration.

4.2 Accessing Web Page

4.2.1 From LAN port

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



Notice: You may either simply set up your computer to get IP dynamically from the router or set up the IP address of the computer to be the same subnet as **the default IP address of router is 192.168.11.1**. For the detailed information, please refer to the later section - **Trouble shooting of the guide**.

2. Open a web browser on your PC and type **http://192.168.11.1**. The following window will be open to ask for username and password, and you can choose language.

ReadyNet
CONNECTIVITY SIMPLIFIED

VVWRT510

Username

Password Login

© 2013 ReadyNetSolutions

3. To login, type "**user/xxxxxx(your password)**" on Username/Password and click Login for full configuration.



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

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

4.2.2 From WAN port

1. Make sure your PC can connect to the router's WAN port correctly.
2. Getting the IP addresses of WAN port using Voice prompt.
3. Open a web browser on your PC and type <http://the IP address of WAN port: 8080>. The following window will be open to ask for username and password.



The screenshot shows a web browser window displaying the ReadyNet login interface. At the top left is the ReadyNet logo with the tagline 'CONNECTIVITY SIMPLIFIED'. To the right of the logo, the text 'VWR510' is displayed in blue. Below the header is a white login form with two input fields: 'Username' and 'Password'. A 'Login' button is positioned to the right of the Password field. At the bottom of the page, a blue footer contains the text '© 2013 ReadyNetSolutions'.

By default, remote web login is disabled, and user need use the changed password to login, please enable remote web login and change the password if you want to login from WAN port, also please add by 8080, since remote login port is 8080 by default..

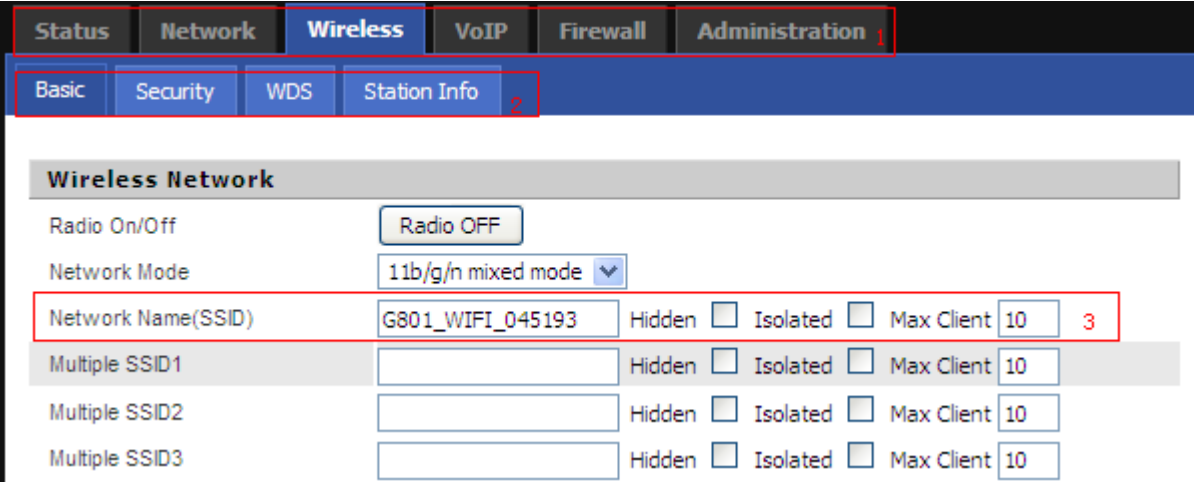
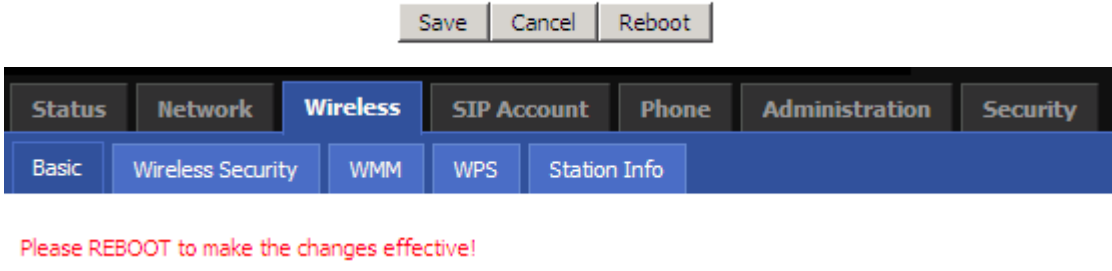
4. Please type “**user/xxxxxx(your password)**” on Username/Password and click Login for full configuration.



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

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

4.3 Webpage

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

4.4 Setting up the Time Zone

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

NTP Settings

NTP Enable: Enable

Current Time: Sat Jan 1 08:13:30 GMT 2000

NTP Settings: (GMT-06:00) Middle America

Primary NTP Server: pool.ntp.org

Secondary NTP Server: cn.pool.ntp.org

NTP synchronization (1 - 1440m): 60

4.5 Setting up the Internet Connection

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

The screenshot shows the Network/WAN configuration page. At the top, there are tabs for Status, Network, Wireless, VoIP, Firewall, and Administration. Under the Network tab, there are sub-tabs for WAN, LAN, DDNS, MAC Clone, VLAN, and Port Management. A red message says "Please REBOOT to make the changes effective!". The "Connection Type" dropdown menu is open, showing options: DHCP (selected), Static, and PPPoE. Below this, the "DNS Settings" section is visible, with "DNS Mode" set to Auto, "Primary DNS Address" as 168.126.63.1, and "Secondary DNS Address" as 164.124.101.2.

4.5.1 Static IP

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

<p>The screenshot shows the Network/WAN configuration page with the "Connection Type" dropdown set to "Static". The "Static" section is expanded, showing fields for "IP Address" (192.168.10.233), "Subnet Mask" (255.255.255.0), and "Default Gateway" (192.168.10.1). The "DNS Settings" section is also visible, with "DNS Mode" set to Manual, "Primary DNS Address" as 168.126.63.1, and "Secondary DNS Address" as 164.124.101.2.</p>	<p>IP Address Type the IP address</p> <p>Subnet Mask Type the subnet mask</p> <p>Gateway IP Address Type the gateway IP address</p> <p>Primary DNS Server Type in the primary IP address for the route</p>
--	---

Secondary DNS Server	Type in secondary IP address for necessity in the future
-----------------------------	--

4.5.2 DHCP

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

The screenshot shows a web-based configuration interface. At the top, there are tabs for 'Status', 'Network', 'Wireless', 'SIP Account', 'Phone', 'Administration', and 'Security'. Under 'Network', there are sub-tabs for 'WAN', 'LAN', 'DDNS', 'Advanced', 'Port Settings', 'Multi WAN', and 'QoS'. A red message says 'Please REBOOT to make the changes effective!'. Below this, the 'INTERNET' section is active. It shows settings for 'Connect Name' (TR069_VOICE_INTERNET_R_VID_2), 'Connect Mode' (IPv4), 'INTERNET' (DHCP), and 'DNS Mode' (Auto). There are empty input fields for 'Primary DNS Address' and 'Secondary DNS Address'. At the bottom, there are 'DHCP' settings: 'DHCP Renew' with a 'Renew' button and 'DHCP Vendor (Option 60)' set to 'READYNET-VWRT510'.

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

DNS Mode

Primary DNS Server

Secondary DNS Server

Type in the primary IP address for the route

Type in secondary IP address for necessity in the future

4.5.3 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.

PPPoE Account	Assign a specific valid user name provided by the ISP
PPPoE Password	Assign a valid password provided by the ISP
Confirm Password	Input the password again
DNS Mode	Set the DNS Mode from Auto and Manual, If user choose manual, you should fill the primary DNS address and Secondary DNS address into Primary DNS Address and Secondary DNS Address.
Primary DNS Server	Type in the primary IP address for the route
Secondary DNS Server	Type in secondary IP address for necessity in the future

4.6 Setting up the Wireless Connection

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

4.6.1 Enable Wireless and Setting SSID

Open **Wireless/Basic** webpage as shown below

Basic Wireless Settings	
Wireless Network	
Radio On/Off	Radio On <input type="button" value="Radio On"/>
Network Mode	11b/g/n mixed mode <input type="button" value="Radio On"/>
SSID	VWRT510131028 Hidden <input type="checkbox"/> Isolated <input type="checkbox"/>
Multiple SSID 1	readynet001 Hidden <input type="checkbox"/> Isolated <input type="checkbox"/>
Multiple SSID 2	Hidden <input type="checkbox"/> Isolated <input type="checkbox"/>
Multiple SSID 3	Hidden <input type="checkbox"/> Isolated <input type="checkbox"/>
broadcast (SSID)	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
AP Isolation	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
MBSSID AP Isolation	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
BSSID	00:01:9F:13:10:28
Frequency (Channel)	AutoSelect <input type="button" value="Radio On"/>

Radio On/Off Click the button to enable or disable wireless.
Press to disable wireless.
Press to enable wireless.

Network Mode Choose one network mode from the drop down list.

Network Name(SSSID) The name of the wireless name, it can be any text numbers or various special characters.

Multiple SSSD1-3 Set more wireless network.

Frequency Choose channel frequency.

4.6.2 Encryption

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

WIFI Security Setting	
Select SSID	
SSID choice	VWRT510131028 <input type="button" value="Radio On"/>
"VWRT510131028"	
Security Mode	WPAPSKWPA2PSK <input type="button" value="Radio On"/>
WPA	
WPA Algorithms	<input type="radio"/> TKIP <input type="radio"/> AES <input checked="" type="radio"/> TKIPAES
Pass Phrase	V5101037
Key Renewal Interval	3600 Second in Month (0 ~ 4194303)
Access Policy	
Policy	Disable <input type="button" value="Radio On"/>
Add a Station MAC:	

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

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

4.7 Register

4.7.1 Get the Accounts

VWRT510 have a FXS port, you can use it to make SIP call, and before registering, you should get the SIP account from you administrator or

provider.

4.7.2 Connections

Connect VWR510 to the Internet properly

4.7.3 Configuration SIP from Webpage

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

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

4.7.4 View the Register Status

To view the status, please open Status webpage and view the value of register status. The value is registered like the following picture which means VWR510 have registered normally and you can make calls.

The screenshot shows the 'SIP Account' configuration page for 'Line 1'. The page has a navigation bar with tabs for Status, Network, Wireless, SIP Account (selected), Phone, Administration, and Security. Below the navigation bar, there are sub-tabs for Line 1, SIP Settings (selected), and VoIP QoS. A red message at the top says 'Please REBOOT to make the changes effective!'. The configuration is divided into several sections: 'Basic' (Line Enable: Enable, Peer To Peer: Disable), 'Proxy and Registration' (Proxy Server: 192.168.11.159, Proxy Port: 5060, Outbound Server: empty, Outbound Port: 5060, Backup Outbound Server: empty, Backup Outbound Port: 5060), 'Subscriber Information' (Display Name: support, Phone Number: 6002, Account: 6002, Password: masked), and 'Audio Configuration' (Codec Setup: Audio Codec Type 1: G.711A, Audio Codec Type 2: G.711U, Audio Codec Type 3: G.729, Audio Codec Type 4: G.723). A vertical sidebar on the right contains links for Basic, Set, you, Phi, Prc, Au, Sel, use, Su, Su, Ca, you, cal, Ad, Th, Ad.

The screenshot shows a router's web interface with a navigation menu at the top containing 'Status', 'Network', 'Wireless', 'SIP Account', 'Phone', 'Administration', and 'Security'. Below the menu, there are sub-tabs for 'Basic' and 'Syslog'. A red message reads 'Please REBOOT to make the changes effective!'. The 'Router Information' section displays the following details:

Device Model:	VWRT510
WAN MAC Address:	00:01:9F:13:10:29
LAN MAC Address:	00:01:9F:13:10:28
Hardware Version:	V1.1
Firmware Version:	V3.0(201307231719)
Serial Number:	RNV5101037

The 'Line Status' section shows 'Line 1 Status' set to 'Disable'.

4.8 Make Call

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

4.8.2 Direct IP calls

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

- 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 "#".

4.8.3 Call Hold

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

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

4.8.4 Blind Transfer

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

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

Step 2. A can hang up.

4.8.5 Attended Transfer

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

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

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

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

4.8.6 Conference

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

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

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


5 Web Configuration

This chapter will guide users to execute configuration through web.

5.1 Login

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

Step 2. Open a web browser on your PC and type in **http://192.168.11.1**. The window will ask for typing username and password.



When login successfully, the webpage shows the basic information about the router, such as the current WAN IP, DNS server IP, WAN port connection mode, WAN link status, wireless SSID, wireless channel and F/W version

Step 3. Please type “**user/xxxxx(your password)**” on Username/Password to login. Now, the Main Screen will appear like below.

The screenshot displays the ReadyNet VWRTS10 web interface. At the top, the logo 'ReadyNet' and 'VWRTS10' are visible, along with the firmware version '3.0' and current time 'Sat Jan 1 20:24:44 GMT 2008'. The navigation menu includes 'Status', 'Network', 'Wireless', 'ISP Account', 'Phone', 'Administration', and 'Security'. The 'Status' page is active, showing a 'Please REBOOT to make the changes effective!' message. The interface is divided into several sections: 'Router Information' (Device Model: VWRTS10, WAN MAC Address: 00:01:09:13:00:00, LAN MAC Address: 00:01:09:13:00:00, Hardware Version: V1.1, Firmware Version: V3.0(20130723172), Serial Number: 8301202037, Loader Version: V2.32, Text: 0, SIM Card Status: No SIM, DNS Information: DNS Status: Disconnected), 'Line Status' (Line 1 Status: Disable), 'Network Status' (Internet Port Status: Connection Type: SP, IP Address: 255.255.255.0, Subnet Mask: 255.255.255.0, Default Gateway: Primary DNS: Secondary DNS: WAN Port Status: Link Down, Voice vlan status: IP Address: Subnet Mask: Default Gateway: Primary DNS: Secondary DNS: VPN Status: VPN Type: Disable, Virtual IP Address: LAN Port Status: IP Address: 192.168.11.1, Subnet Mask: 255.255.255.0, LAN1: Link Down, LAN2: 100Base Full, LAN3: Link Down, LAN4: Link Down), and 'System Status' (System Status: Current Time: Sat Jan 1 20:24:44 GMT 2008, Up/Down Time: 2 hours, 24 mins). A 'Refresh' button is located at the bottom of the System Status section. The footer contains the copyright notice '© 2013 ReadyNetSolutions'.

5.2 Status

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

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

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

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

The picture in the right side is the VWRT510's Status webpage.

The screenshot shows the 'Status' page for a ReadyNet VWR510 device. The page is organized into several sections:

- Router Information:** Displays basic information such as Device Model (VWR510), WAN MAC Address, LAN MAC Address, Hardware Version (V1.1), Firmware Version (V3.0(201307231750)), Serial Number (8301920237), Loader Version (V2.23), Test (0), SIM Card Status (No SIM), DHCP Information, and DHCP Status (Disconnected).
- Line Status:** Shows Line 1 Status as 'Disable'.
- Network Status:** Includes sections for Internet Port Status, Voice VLAN Status, and VPN Status. Internet Port Status shows IP Address, Subnet Mask (255.255.255.0), Default Gateway, Primary CID, Secondary CID, and WAN Port Status (Link Down). Voice VLAN Status and VPN Status also show IP Address, Subnet Mask, Default Gateway, Primary CID, and Secondary CID.
- LAN Port Status:** Shows IP Address (192.168.1.1), Subnet Mask (255.255.255.0), and Link Down status for LAN1, LAN2 (300Mbps Full), LAN3, and LAN4.
- System Status:** Shows Current Time (Sat Jan 1 20:24:44 GMT 2013) and Upped Time (2 hours, 24 mins).

A 'Refresh' button is located at the bottom of the page. The footer indicates '© 2013 ReadyNet Solutions'.

5.3 Network & Security

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

5.3.1 WAN

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

Static IP:

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

INTERNET	IP Address	Type the IP address
INTERNET	Subnet Mask	Type the subnet mask
Connect Name	Gateway IP	Type the gateway IP address
Connect Mode	Address	
INTERNET	Primary DNS	Type in the primary IP address for the route
Static	Server	
IP Address	Secondary DNS	Type in secondary IP address for necessity in the
Subnet Mask	Server	future
Default Gateway		
DNS Mode		
Primary DNS Address		
Secondary DNS Address		

DHCP:

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

	Set the DNS Mode from Auto and Manual,
--	---

INTERNET		
INTERNET		
Connect Name	TR069_VOICE_INTERNET_R_VID_2	
Connect Mode	IPv4	
INTERNET	DHCP	
DNS Mode	Auto	
Primary DNS Address		Primary DNS Server
Secondary DNS Address		
DHCP		
DHCP Renew	Renew	
DHCP Vendor (Option 60)	READYNET-VWRT510	Secondary DNS Server

If user choose manual, you should fill the primary DNS address and Secondary DNS address into Primary DNS Address and Secondary DNS Address.

Type in the primary IP address for the route

Type in secondary IP address for necessity in the future

PPPoE:

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

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

INTERNET		
INTERNET		
Connect Name	TR069_VOICE_INTERNET_R_VID_2	
Connect Mode	IPv4	
INTERNET	PPPoE	
DNS Mode	Auto	
Primary DNS Address		Primary DNS Server
Secondary DNS Address		Secondary DNS Server
PPPoE		
PPPoE Account		PPPoE Account
PPPoE Password		PPPoE Password
Confirm Password		
Operation Mode	Keep Alive	
Keep Alive Redial Period (0-3600s)	5	

Assign a specific valid user name provided by the ISP

Assign a valid password provided by the ISP

If or not enable PPPoE Password.

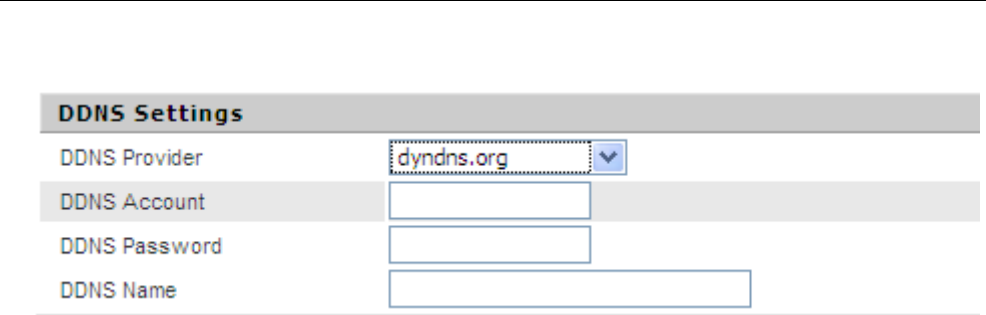
Set the DNS Mode from Auto and Manual,

If user choose manual, you should fill the primary DNS address and Secondary DNS address into Primary DNS Address and Secondary DNS Address.

Type in the primary IP address for the route

Type in secondary IP address for necessity in the future

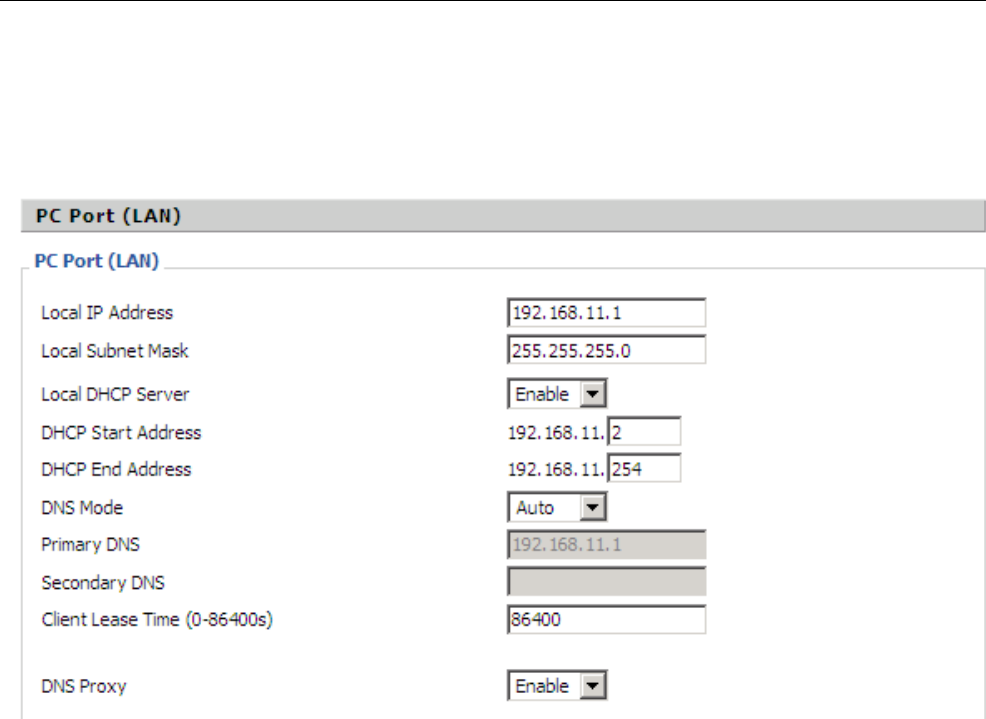
DDNS Setting

 <p>DDNS Settings</p> <p>DDNS Provider: <input type="text" value="dyndns.org"/> <input type="button" value="v"/></p> <p>DDNS Account: <input type="text"/></p> <p>DDNS Password: <input type="text"/></p> <p>DDNS Name: <input type="text"/></p>	<p>DDNS Provider Use the drop down list to select one DDNS Provider domain</p> <p>DDNS Account Fill in the DDNS account.</p> <p>DDNS Password Fill in the DDNS Password.</p> <p>DDNS Name Fill in the DDNS name.</p>
---	--

5.3.2 LAN

LAN Port:

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

 <p>PC Port (LAN)</p> <p>PC Port (LAN)</p> <p>Local IP Address: <input type="text" value="192.168.11.1"/></p> <p>Local Subnet Mask: <input type="text" value="255.255.255.0"/></p> <p>Local DHCP Server: <input type="text" value="Enable"/> <input type="button" value="v"/></p> <p>DHCP Start Address: <input type="text" value="192.168.11.2"/></p> <p>DHCP End Address: <input type="text" value="192.168.11.254"/></p> <p>DNS Mode: <input type="text" value="Auto"/> <input type="button" value="v"/></p> <p>Primary DNS: <input type="text" value="192.168.11.1"/></p> <p>Secondary DNS: <input type="text"/></p> <p>Client Lease Time (0-86400s): <input type="text" value="86400"/></p> <p>DNS Proxy: <input type="text" value="Enable"/> <input type="button" value="v"/></p>	<p>Local IP Address Type in local IP address for connecting to a local private network (Default: 192.168.11.1)</p> <p>Local Subnet Mask Type in an address code that determines the size of the network. (Default: 255.255.255.0/ 24)</p> <p>Local DHCP Server If or not enable DHCP server.</p> <p>DHCP Start/End Address The DHCP start/end address.</p> <p>DNS Mode Set the DNS Mode from Auto and Manual, If user choose manual, you should fill the primary DNS address and Secondary DNS address into Primary DNS Address and Secondary DNS Address.</p> <p>Primary DNS Server Type in the primary IP address for the route</p> <p>Secondary DNS Server Type in the secondary IP address for the route</p>
---	---

DHCP Server:

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

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

Local IP Address	<input type="text" value="192.168.11.1"/>	Local DHCP Server	If or not enable DHCP server.
Local Subnet Mask	<input type="text" value="255.255.255.0"/>	DHCP Starting Address	Enter a value of the IP address pool for the DHCP server to start with when issuing IP addresses. If the LAN Interface IP
Local DHCP Server	<input type="text" value="Enable"/>	DHCP Ending Address	Enter a value of the IP address pool for the DHCP server to end with when issuing IP addresses.
DHCP Start Address	<input type="text" value="192.168.11.2"/>	Primary/Secondary DNS	Input the primary or secondary DNS IP address.
DHCP End Address	<input type="text" value="192.168.11.254"/>	Primary DNS	You must specify a DNS server IP address here because your ISP should provide you with usually more than one DNS Server. If your ISP does not provide it, the router will automatically apply default DNS Server IP address: 202.96.134.33 to this field.
DNS Mode	<input type="text" value="Auto"/>	Secondary DNS	You must specify a DNS server IP address here because your ISP should provide you with usually more than one DNS Server. If your ISP does not provide it, the router will automatically apply default DNS Server IP address: 202.96.128.86 to this field.
Primary DNS	<input type="text" value="192.168.11.1"/>	Client Lease Time	It allows you to set the leased time for the specified PC.
Secondary DNS	<input type="text"/>	DNS Proxy	If or not enable DNS proxy.
Client Lease Time (0-86400s)	<input type="text" value="86400"/>		
DNS Proxy	<input type="text" value="Enable"/>		
Primary DNS	<input type="text" value="192.168.11.1"/>		
Secondary DNS	<input type="text"/>		
Client Lease Time (0-86400s)	<input type="text" value="86400"/>		
DNS Proxy	<input type="text" value="Enable"/>		

5.3.3 DMZ/Port Forward

DMZ

The screenshot shows the 'Security' tab in the router's web interface. Under the 'DMZ' sub-tab, there is a 'DMZ Setting' section. It includes a 'DMZ Enable' dropdown menu set to 'Enable' and a 'DMZ Host IP Address' text input field. Below these fields are 'Save', 'Cancel', and 'Reboot' buttons. A red message at the top says 'Please REBOOT to make the changes effective!'. The footer shows '© 2013 ReadyNetSolutions'.

DMZ Enable

If or not enable DMZ

**DMZ Host IP
Address**

Enter the private IP address of the DMZ host

Picture 1

Port Forward

The screenshot shows the 'Port Forwarding' configuration page. It features a table with columns: No., Comment, IP Address, Port Range, and Protocol. There is one entry with '1' in the 'No.' column, 'ss' in the 'Comment' column, '192.168.11.19' in the 'IP Address' column, '56-78' in the 'Port Range' column, and 'TCP&UDP' in the 'Protocol' column. Below the table are 'Delete Selected', 'Add', and 'Edit' buttons. A section for 'Virtual Servers' is also visible with similar columns and buttons. A red message at the top says 'Please REBOOT to make the changes effective!'. The footer shows '© 2013 ReadyNetSolutions'.

5.3.4 MAC Clone

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

Status Network Wireless SIP Account Phone Administration **Security**

Filtering Setting DMZ MAC Clone Port Forward Content Filtering

Please REBOOT to make the changes effective!

MAC Address Clone

MAC Address Clone

MAC Address Clone

MAC Address

Step 1. Press button to clone the currently PC MAC address to router's Internet port.

Step 2. Press button to save the changes

Step 3. Press button to make changes effective

5.3.5 Multi WAN

Status **Network** Wireless SIP Account Phone Administration Security

WAN LAN VPN DDNS Advanced Port Settings **Multi WAN** QoS

Please REBOOT to make the changes effective!

Index	Name	VLAN ID	802.1p	Operation
1	1_TR069_VOICE_INTERNET_R_VID_2	2	0	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

Status **Network** Wireless SIP Account Phone Administration Security

WAN LAN VPN DDNS Advanced Port Settings **Multi WAN** QoS

Please REBOOT to make the changes effective!

Index	Name	VLAN ID	802.1p	Operation
1	1_TR069_VOICE_INTERNET_R_VID_2	2	0	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

VLAN ID

802.1p

Bridge Mode

Service

Take VLAN tag

5.4 Wireless

5.4.1 Basic

Basic Wireless Settings

Wireless Network

Radio On/Off	<input type="radio"/> Radio On
Network Mode	<input type="radio"/> 11b/g/n mixed mode
SSID	<input type="text" value="Wireless_AP-NRHF"/> <input type="checkbox"/> Hidden <input type="checkbox"/> Isolated
Multiple SSID1	<input type="text"/> <input type="checkbox"/> Hidden <input type="checkbox"/> Isolated
Multiple SSID2	<input type="text"/> <input type="checkbox"/> Hidden <input type="checkbox"/> Isolated
Multiple SSID3	<input type="text"/> <input type="checkbox"/> Hidden <input type="checkbox"/> Isolated
broadcast(SSID)	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
AP Isolation	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
MBSSID AP Isolation	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
BSSID	00:21:F2:04:60:62
Frequency (Channel)	<input type="radio"/> AutoSelect
HT Physical Mode	<input checked="" type="radio"/> Mixed Mode <input type="radio"/> Green Field
Operating Mode	<input type="radio"/> 20 <input checked="" type="radio"/> 20/40
Channel BandWidth	<input type="radio"/> long <input checked="" type="radio"/> Auto
Guard Interval	<input type="radio"/> Auto
MCS	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Reverse Direction Grant(RDG)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
STBC	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Aggregation MSDU(A-MSDU)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Auto Block ACK	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Decline BA Request	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
HT Disallow TKIP	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Other	
HT TxStream	<input type="text" value="2"/>
HT RxStream	<input type="text" value="2"/>

Radio On/Off Select Radio On to enable the wireless, select Radio Off to disable wireless.

Network Mode Choose one network mode from the five types.

SSID The name of the wireless name, it can be any text numbers or various special characters. The default SSID is "VWRT510131028".

Multiple SSID1-3 User can set multiple SSID.

broadcast(SSID) If or not enable SSID broadcast.

5.4.2 Wireless Security

WIFI Security Setting	SSID Choice	Choose one SSID from SSID, Multiple SSID1, Multiple SSID2 and Multiple SSID3.
Select SSID	VVWRT510131028	Select an appropriate encryption mode to improve the security and privacy of your wireless data packets.
SSID choice	WPAPSKWPA2PSK	Each encryption mode will bring out different web page and ask you to offer additional configuration.
"VVWRT510131028"		
Security Mode		

5.4.3 WMM

Status Network **Wireless** SIP Account Phone Administration Security

Basic Wireless Security **WMM** WPS Station Info

Please REBOOT to make the changes effective!

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

WMM Parameters of Station					
	Aifsn	CWMin	CWMax	Txop	ACM
AC_BE	3	15	1023	0	<input type="checkbox"/>
AC_BK	7	15	1023	0	<input type="checkbox"/>
AC_VI	2	7	15	94	<input type="checkbox"/>
AC_VO	2	3	7	47	<input type="checkbox"/>

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5.4.4 WPS

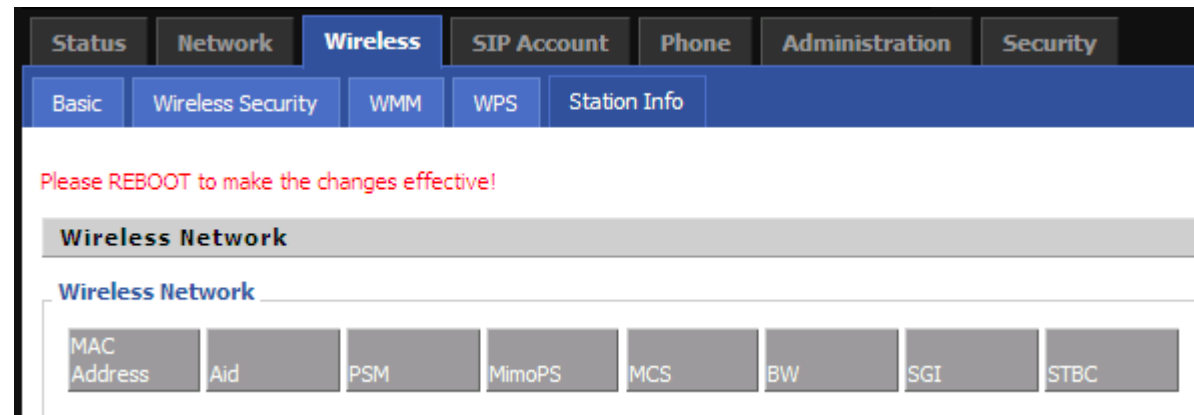
WPS (**Wi-Fi Protected Setup**) provides easy procedure to make network connection between wireless station and wireless access point (vigor router) with the encryption of WPA and WPA2.

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



The screenshot shows the router's web interface with the 'Wireless' tab selected. Under 'Wireless Security', the 'WPS' sub-tab is active. A red message at the top reads 'Please REBOOT to make the changes effective!'. Below this, the 'WPS Setting' section is visible, followed by the 'WPS Config' section. In 'WPS Config', the 'WPS' dropdown menu is set to 'Enable', and an 'Apply' button is present. To the right of the screenshot, the text 'WPS' is followed by 'If or not enable WPS.' and 'Press the button to apply.' with an 'Apply' button icon.

5.4.5 Station list



The screenshot shows the router's web interface with the 'Wireless' tab selected. Under 'Wireless Security', the 'WPS' sub-tab is active. A red message at the top reads 'Please REBOOT to make the changes effective!'. Below this, the 'Wireless Network' section is visible, followed by a table with the following columns: MAC Address, Aid, PSM, MimoPS, MCS, BW, SGI, and STBC.

5.4.6 Advanced

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

5.5 SIP Account

5.5.1 SIP Settings

Status	Network	Wireless	SIP Account	Phone	Administration	Security
Line 1	SIP Settings	VoIP QoS				

Please REBOOT to make the changes effective!

SIP Parameters

SIP T 1:	<input type="text" value="500"/>	MS	Max Forward:	<input type="text" value="70"/>
SIP Reg User Agent Name:	<input type="text"/>		Max Auth:	<input type="text" value="2"/>
Mark All AVT Packets:	<input type="text" value="Enable"/>		RFC 2543 Call Hold:	<input type="text" value="Enable"/>
SRTP:	<input type="text" value="Disable"/>		SRTP Prefer Encryption :	<input type="text" value="AES_CM"/>
Service Type:	<input type="text" value="Common"/>			

NAT Traversal

NAT Traversal:	<input type="text" value="Disable"/>	STUN Server Address:	<input type="text"/>
NAT Refresh Interval (sec):	<input type="text" value="60"/>	STUN Server Port:	<input type="text" value="3478"/>

5.5.2 Line 1

The screenshot displays the 'SIP Account' configuration page for 'Line 1'. The page is divided into several sections: Basic, Audio Configuration, Supplementary Service Subscription, and Advanced. A red warning message at the top states 'Please REBOOT to make the changes effective!'. The 'Basic' section includes fields for Line Enable (Disable), Peer To Peer (Disable), Proxy Server (192.168.20.1), Proxy Port (5060), Outbound Server, Outbound Port (5060), Backup Outbound Server, and Backup Outbound Port (5060). The 'Subscriber Information' section includes fields for Display Name (Support), Phone Number (0002), Account (0002), and Password (*****). The 'Audio Configuration' section includes fields for Codec Setup (Audio Codec Type 1-4: G.711A), Audio Codec Type 5 (G.711A), Audio Codec Type 6 (G.711A), G.723 Coding Speed (5.3k bps), Packet Cycle (ms) (10ms), Silence Supp (Disable), Echo Cancell (Disable), T.38 Enable (Disable), T.38 Redundancy (Disable), and T.38 CHG Detect Enable (Disable). The 'Supplementary Service Subscription' section includes fields for Call Waiting (Disable), Not Line, Mail Enable (Disable), Voice Mailbox Number, and DND (Disable). The 'Advanced' section includes fields for Advanced Setup (Domain Name Type: Disable, Signal Port: 5060, RFC2833 Priviled (+99): 10), Carry Port Information (Disable), SIP Type (Broad), Register Refresh Interval (s) (3600), RTP Port (0, (w) Auto select), Cancel Message Enable (Disable), Session Refresh Time (sec) (0), Refresh (SAC), Prack Enable (Disable), SIP OPTIONS Enable (Disable), Primary SIP Detect Interval (0), Max Detect Fail Count (3), Keep alive Interval (30-60 s) (15), Anonymous Call (Disable), Anonymour Call (Disable), Use OS Proxy In Dialog (Disable), Proxy DNS Type (A Type), Reg Subscribe Enable (Disable), IPN (Disable), Call Prefix (), User Type (IP), Hold Method (Rd/VTTE), Request-URI User Check (Disable), Only Recv Request From Server (Disable), and Server Address. At the bottom, there are 'Save', 'Cancel', and 'Reboot' buttons, and a copyright notice for © 2013 ReadyNet Solutions.

5.5.3 VOIP QoS

Status	Network	Wireless	SIP Account	Phone	Administration	Security
Line 1	SIP Settings	VoIP QoS				

Please REBOOT to make the changes effective!

QoS Settings

Layer 3 QoS

SIP QoS(0-63)	<input type="text" value="0"/>
RTP QoS(0-63)	<input type="text" value="0"/>
Data QoS(0-63)	<input type="text" value="0"/>

5.6 Phone

5.6.1 Preferences

Volume Settings

Handset Input Gain:	5	Handset Volume:	5
Speakersphone Input Gain:	5	Speaker Volume:	5
Ring Volume:	5	Speakersphone Mic Boost:	Disable

Regional

Time Type: USA

Dial Tone: _____

Busy Tone: _____

Off-hook Warning Tone: _____

Ring Back Tone: _____

Call Waiting Tone: _____

Min Jitter Delay (ms): 0 Max Jitter Delay (ms): 60

Ring Time (sec): 60

Regenering Waveform: Sinusoid Regional Ring Voltage: 70

Regenering Frequency: 25

Flash Time Max: 0.9 Flash Time Min: 0.1

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:	*90	DIR 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:	R0		

Feature Code

Chfd All On Code:	_____	Chfd All Off Code:	_____
Chfd Busy On Code:	_____	Chfd Busy Off Code:	_____
Chfd No Ans On Code:	_____	Chfd No Ans Off Code:	_____
DND On Code:	_____	DND Off Code:	_____

Miscellaneous

Auto Answer:	Disable	Auto Answer by Call Fwd:	Disable
Codec Loop Current:	26	Impedance Matching:	US, PEK, Korea, T
CID Service:	Enable	CID Service:	Disable
Dial Time Out (DT):	5	Call Immediately Key:	*
Auto Mute on Hold:	Enable	Preferred Audio Device:	Disable
ICMP Ping:	Disable	Escaped char enable:	Disable

Save Cancel Reboot

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5.6.2 Dial Plan

Status Network Wireless SIP Account **Phone** Administration Security

Preferences **Dial Plan** Call Log

Please REBOOT to make the changes effective!

Dial Plan

General

Dial Plan:

#	Line	Digit Map	Action	Move Up	Move Down	
1	Line1	8,xxx	Dial Out	▲	▼	<input type="checkbox"/>

Line:

Digit Map:

Action:

5.6.3 Call Log

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

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

5.7 Security

5.7.1 Filtering Setting

Basic Settings

Basic Settings

MAC/IP/Port Filtering

Default Policy

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

IP/Port Filter Settings

Mac address

Dest IP Address

Source IP Address

Protocol

Dest. Port Range -

Src Port Range -

Action

Comment

(The maximum rule count is 32.)

Current MAC/IP/Port filtering rules in system

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

5.7.2 DMZ

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

Please REBOOT to make the changes effective!

Demilitarized Zone (DMZ)

DMZ Setting

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

5.7.3 MAC Clone

MAC Address Clone

MAC Address Clone

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

5.7.4 Port Forward

Status Network Wireless SIP Account Phone Administration **Security**

Filtering Setting DMZ MAC Clone **Port Forward** Content Filtering

Please REBOOT to make the changes effective!

Port Forwarding

No.	Comment	IP Address	Port Range	Protocol
1 <input type="checkbox"/>	ss	192.168.11.19	56-78	TCP&UDP

Delete Selected Add Edit

Virtual Servers

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

Delete Selected Add Edit

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5.7.5 Content Filtering

Webs URL Filter Settings

Current Webs URL Filters:

No.	URL

Add a URL Filter:

URL:

Webs Host Filter Settings

Current Website Host Filters:

No.	Host(Keyword)

Add a Host (keyword) Filter:

Keyword:

5.8 Administration

5.8.1 Management

	User Type	Select the user type
	New User Name	User can change new user name
	New Password	Input the new password
	Confirm Password	Confirm the password

Administrator Settings	
Password Reset	
User Type	Normal User
New User Name	user
New Password	
Confirm Password	
NTP Settings	
NTP Enable	Enable
Current Time	Sat Jan 1 11:29:37 GMT 2000 <input type="button" value="Sync with host"/>
NTP Settings	(GMT+08:00) China Coast, Hong Kong
Primary NTP Server	pool.ntp.org
Secondary NTP Server	cn.pool.ntp.org
NTP synchronization (1 - 1440m)	60

NTP Enable	If or not enable NTP
Current Time	Display the current time.
NTP Settings	Select the time zone.
Primary NTP Server	The primary NTP server
Secondary NTP Server	The secondary NTP server
NTP synchronization	Set the NTP synchronization.

5.9 System Log

By default, local system log is enabled, user can check the system log in **Status-->Basic** page.

Status Network Wireless SIP Account Phone Administration Security

Basic Syslog

Please REBOOT to make the changes effective!

Refresh Clear Save

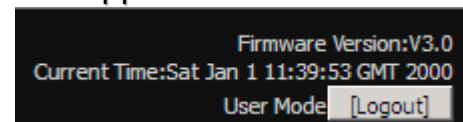
```
<Sat Jan 1 08:00:24 2000> looptask[1703]: start
<Sat Jan 1 08:00:26 2000> ipphone[1721]: ***system booting***
<Sat Jan 1 08:00:26 2000> ipphone[1718]: MiscellaneousTask: start work param_cc
<Sat Jan 1 08:00:26 2000> ipphone[1721]: SW:142(120106174008)
<Sat Jan 1 08:00:28 2000> ipphone[1857]: UISignalControl[30][9000][30][9000][9
<Sat Jan 1 08:00:33 2000> ipphone[1710]: TZ change to GMT-8
<Sat Jan 1 08:01:25 2000> goahead: User:admin Login. IP:192.168.11.117
<Sat Jan 1 08:01:33 2000> goahead: config file update from web
<Sat Jan 1 08:01:37 2000> admin: [phone_reboot.sh]system reboot by goahead
<Sat Jan 1 00:00:21 2000> udhcpc[842]: udhcpc (v1.12.1) started
<Sat Jan 1 00:00:22 2000> udhcpd[1028]: udhcpd (v1.12.1) started
<Sat Jan 1 08:00:27 2000> goahead: webs v1.2 start...
<Sat Jan 1 08:00:27 2000> goahead: webs: rootWeb=/etc_ro/web
<Sat Jan 1 08:00:27 2000> goahead: webs: Listening for HTTP requests at address
<Sat Jan 1 08:00:28 2000> provision[1637]: start
<Sat Jan 1 08:00:32 2000> looptask[1718]: start
<Sat Jan 1 08:00:33 2000> ipphone[1728]: ***system booting***
<Sat Jan 1 08:00:33 2000> ipphone[1725]: MiscellaneousTask: start work param_cc
<Sat Jan 1 08:00:33 2000> ipphone[1728]: SW:142(120106174008)
<Sat Jan 1 08:00:35 2000> ipphone[1805]: UISignalControl[30][9000][30][9000][9
<Sat Jan 1 08:00:40 2000> ipphone[1714]: TZ change to GMT-8
<Sat Jan 1 00:00:14 2000> udhcpc[837]: udhcpc (v1.12.1) started
<Sat Jan 1 00:00:15 2000> udhcpd[1023]: udhcpd (v1.12.1) started
<Sat Jan 1 08:00:20 2000> goahead: webs v1.2 start...
<Sat Jan 1 08:00:20 2000> goahead: webs: rootWeb=/etc_ro/web
<Sat Jan 1 08:00:20 2000> goahead: webs: Listening for HTTP requests at address
<Sat Jan 1 08:00:21 2000> provision[1630]: start
<Sat Jan 1 08:00:26 2000> looptask[1716]: start
```

Help

Syslog:
Displays the system log.

5.10 Logout

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



5.11 Reboot

Press the **Reboot** button to reboot VWR510.

6 Troubleshooting of the guide

6.1 Setting your PC gets IP automatically

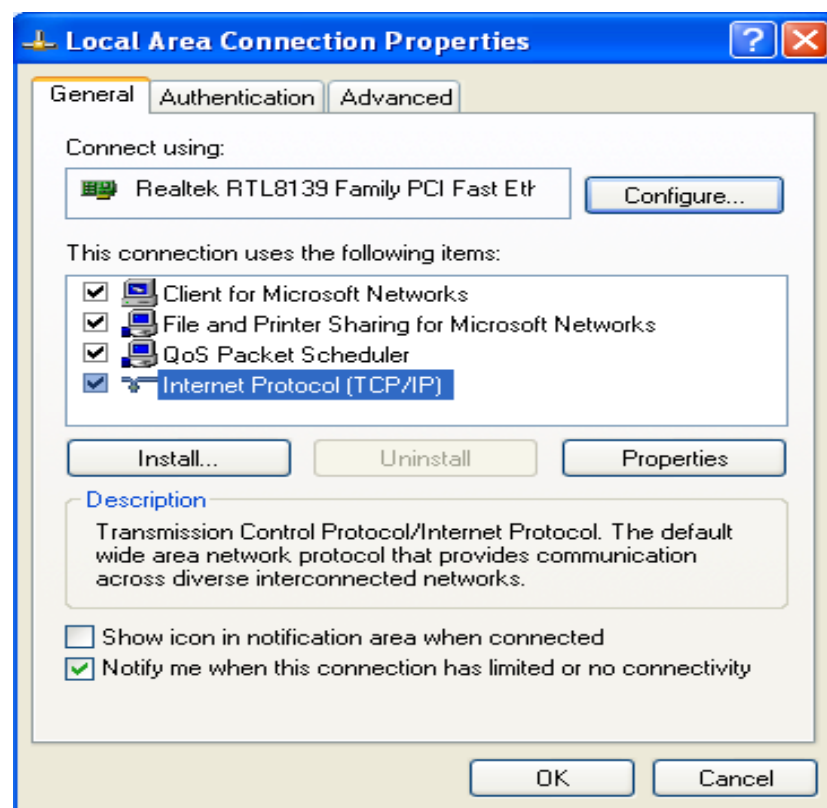
Following are the process of setting your PC gets IP automatically

Step 1. Click the “begin”

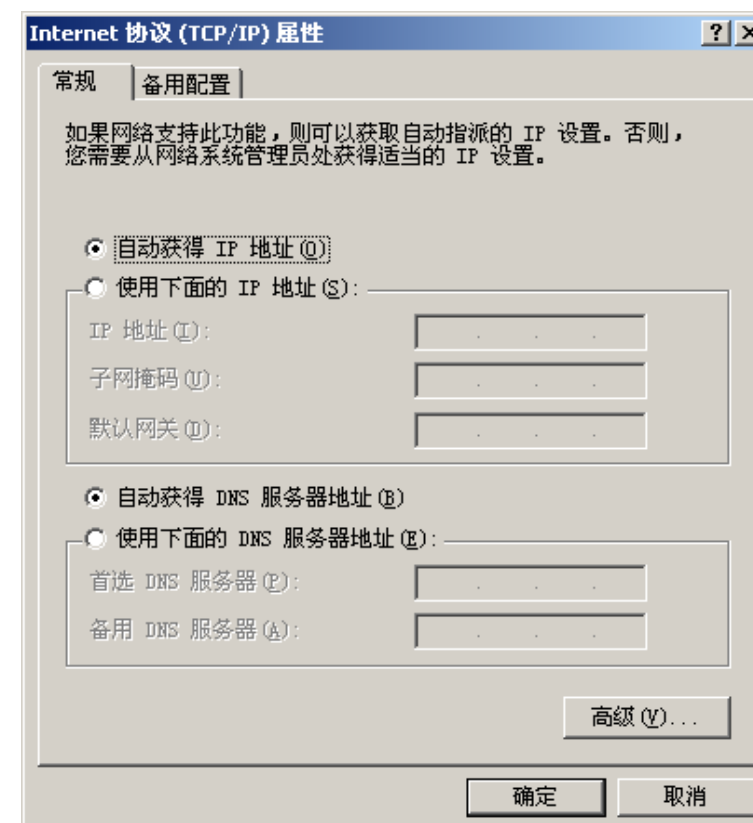
Step 2. Select “control panel”, then double click “network connections” in the “control panel”

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

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



Picture 1



Picture 2

6.2 Can not connect to the configuration Website

Solution:

Check if the Ethernet cable is properly connected, then

Check if the URL is right wrote, the format of URL is: ***http:// the IP address***, if you login from the WAN port, user must enable the remote login and change the password firstly, and add 8080 after the IP address since 8080 is the default remote login web port, URL is http://IP address:8080.

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

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

6.3 Forget the Password

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

Solution:

To factory default: press reset button 10s.

7 Statement

FCC Radiation Exposure Statement

Readynet Solutions Ltd. declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

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

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

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

FCC Radiation Exposure Statement

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

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

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

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

