



CNP-WF514

Wireless Broadband Router

User Manual

Table of Contents

INTRODUCTION	4
SAFETY PRECAUTIONS	4
PACKAGE CONTENTS	5
HARDWARE OVERVIEW	6
GETTING STARTED.....	7
CONNECTING TO DEVICE	7
WINDOWS XP SETUP	7
WINDOWS VISTA SETUP	8
WINDOWS 2000 SETUP	8
WINDOWS 98/ME SETUP	8
DEVICE CONFIGURATION	10
INTERNET CONNECTION WIZARD	11
STATUS.....	17
WAN SETUP	19
<i>Dynamic IP Setting.....</i>	<i>19</i>
<i>PPPoE Setting.....</i>	<i>20</i>
<i>Static IP Setting.....</i>	<i>21</i>
<i>PPTP Setting.....</i>	<i>21</i>
<i>L2TP Setting.....</i>	<i>22</i>
LAN SETUP	23
WIRELESS	25
<i>Basic Setting.....</i>	<i>25</i>
<i>Security Setting.....</i>	<i>26</i>
<i>Filter List Setting.....</i>	<i>28</i>
<i>WDS Setting.....</i>	<i>29</i>
<i>WDS Setting.....</i>	<i>29</i>
<i>Association Table.....</i>	<i>30</i>
ROUTING	30
NAT	31
<i>DMZ Host Setup.....</i>	<i>31</i>
<i>FTP Private Port.....</i>	<i>31</i>
<i>Virtual Server Setup.....</i>	<i>31</i>
<i>Port Triggering</i>	<i>32</i>
FIREWALL	33

<i>MAC Filtering Configuration</i>	33
<i>Connection Filtering Configuration</i>	34
<i>URL Filtering Configuration</i>	35
<i>Ping Filtering Configuration</i>	35
SPI FIREWALL	35
DDNS	36
MISC	37
<i>Login ID & Password Setup</i>	37
<i>Remote Management</i>	37
<i>UPnP Setup</i>	38
<i>System Time Setup</i>	38
<i>WAN Link Status & Setup</i>	38
<i>Restore Default/Restart System</i>	39
<i>Firmware Upgrade</i>	39
TROUBLESHOOTING	40
APPENDIX	41
TECHNICAL SPECIFICATIONS	41

Thank you for purchasing **CANYON CNP-WF514**. We sincerely wish you to enjoy the wireless broadband router. It provides user an easy and stable high speed internet connection. It is also equipped with built-in NAT technology that acts as a firewall to protect the network from outside intrusions. Ultimately, the device is implemented with an IEEE 802.11b/g access point which is capable of wireless LAN network. To fully utilize the functions and features of **CANYON CNP-WF514**, please read through the user manual before you get started.






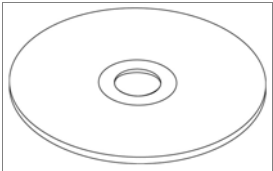
Introduction

Safety Precautions

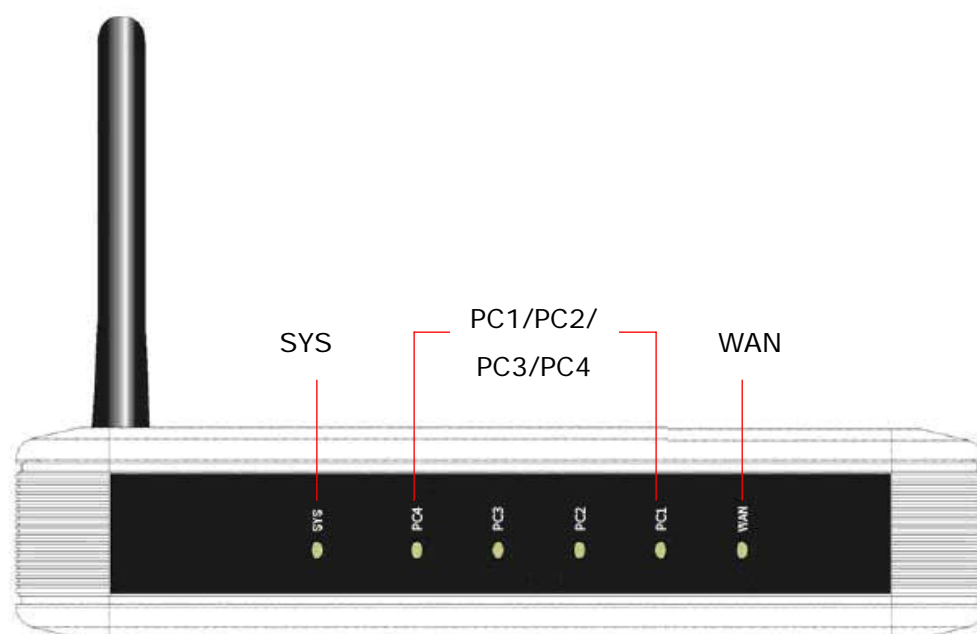
Please observe all safety precautions before using the device. Please follow all procedures outlined in this manual to properly operate the device.

- Do NOT attempt to disassemble or alter any part of the device that is not described in this guide.
- Do NOT place the device in contact with water or any other liquids. The device is NOT designed to be liquid proof of any sort.
- In the event of liquid entry into device interior, immediately disconnect the device from the computer. Continuing use of the device may result in fire or electrical shock. Please consult your product distributor or the closest support center.
- To avoid risk of electrical shock, do not connect or disconnect the device with wet hands.
- Do NOT place the device near a heat source or directly expose it to flame.
- Never place the device in vicinity of equipments generating strong electromagnetic fields. Exposure to strong magnetic fields may cause malfunctions or data corruption and loss.
- All images in the user manual are for user reference only. Actual products might differ slightly than images shown here.

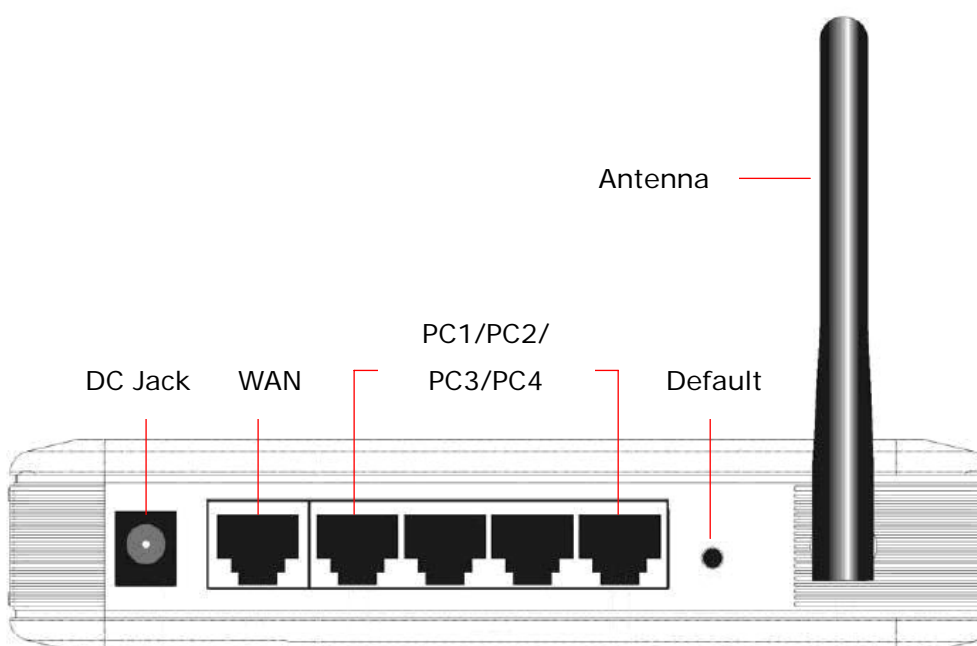
Package Contents

Product Image	Item Name
	CNP-WF514 Main Unit
	Standing Base
	Power Adapter
	Warranty Card
	Quick Guide
	Documentation CD

Hardware Overview



SYS	Power status indicator
WAN	WAN interface status indicator
PC1/PC2/PC3/PC4	LAN interface status indicator



DC Jack	Connects to power adapter
WAN	Connects to cable/DSL modem or other Ethernet devices
PC1/PC2/PC3/PC4	Connects to LAN port on PC or other Ethernet devices
Default	Reset device to factory default settings
Antenna	Transmits signals

Getting Started

Connecting to Device

Please follow the steps below to connect the modem and PC(s) with **CANYON CNP-WF514**:

1. Begin by searching for an appropriate location to setup device. Please keep in mind to keep the device in the center of working area as the signal strength and data transfer rate falls off with distance.
2. It is also recommended to place device at a higher position to ensure minimum obstacle interference.
3. Make sure that all network devices are powered off, including the device itself, PCs, switches, cable or DSL modem, and other peripherals.
4. Connect the modem to WAN port of the device by one CAT 5 Ethernet cable.
5. Connect PC(s) with the LAN ports (PC1/PC2/PC3/PC4) of the device by CAT 5 Ethernet cables. One PC connects to only one port using one cable.
6. Power on the cable or DSL modem.
7. Plug in the power of the device. The Power status indicator at the front panel of device will light up as soon as the power adapter is connected properly.
8. Power on PC(s).

Windows XP Setup

1. Click on Start → Settings → Control Panel.
2. Click on Network and Internet Connections icon.
3. Click on Network Connections
4. Right click on Local Area Connection icon and click on Properties.
5. Select TCP/IP option and click on Properties. The Properties dialog box will be displayed.
6. Check "Obtain an IP address automatically" and "Obtain DNS server address automatically" options.
7. Click Ok to confirm modifications.

Windows Vista Setup

1. Click on Start → Settings → Network Connections.
2. Right click on Local Area Connection icon and click on Properties.
3. Click on Continue in User Account Control dialog box.
4. Select TCP/IPv4 option and click on Properties. The Properties dialog box will be displayed.
5. Check "Obtain an IP address automatically" and "Obtain DNS server address automatically" options.
6. Click Ok to confirm modifications.

Windows 2000 Setup

1. Click on Start → Settings → Control Panel.
2. Double click on Network and Dial-up Connections icon. The Network dialog box will be displayed.
3. Right click on Local Area Connection icon and click on Properties.
4. Select TCP/IP option and click on Properties. The Properties dialog box will be displayed.
5. Check "Obtain an IP address automatically" and "Obtain DNS server address automatically" options.
6. Click Ok to confirm modifications.

Windows 98/ME Setup

1. Click on Start → Settings → Control Panel.
2. Double click on Network icon. The Network dialog box will be displayed.
3. Please make sure that appropriate network card is installed before proceeding. Click on the Configuration label.
4. Select TCP/IP option and click on Properties. The Properties dialog box will be displayed.

NOTE:

Select the TCP/IP item with an arrow "→" pointing to the network card if more than one TCP/IP options is present.

5. Make sure that the option "Obtain IP address automatically" is checked.
6. Make sure that the "WINS Resolution" option is checked under WINS Configuration dialog box.
7. From Gateway dialog box, remove all entries from the Installed gateways

by selecting them and clicking on Remove.

8. From DNS Configuration dialog box, remove all entries from DNS server search order box and Domain suffix search order box by selecting them and clicking on Remove. Click on Disable DNS.
9. Click Ok to confirm modifications.

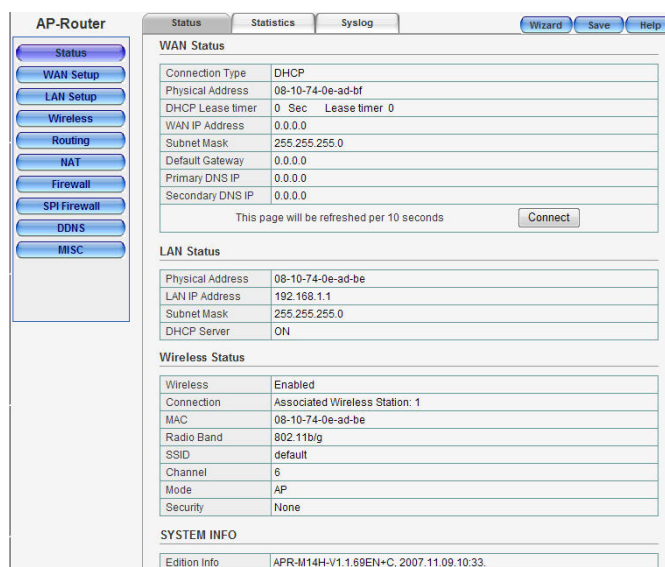
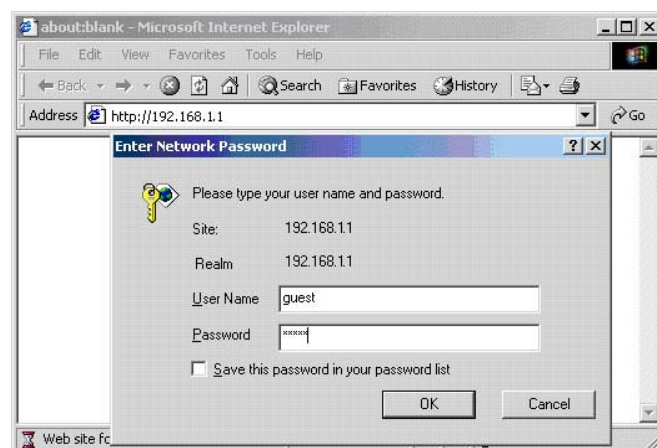
NOTE:

To access the device via a wireless connection, PC must be equipped with 802.11b or 802.11g wireless adapter/PCI card. The configuration should be set as below:

- Operation Mode: Infrastructure
- SSID: Default
- Authentication: Disabled
- Encryption: Off

Device Configuration

Before setting up the device, please make sure that the host PC(s) is set on the IP sub-network accessible by **CANYON CNP-WF514** device. The default network address of the device is set as 192.168.1.1. Please configure IP address of host PC at 192.168.1.XXX where XXX is a number between 002 and 254. The subnet mask should be 255.255.255.0. Please follow below steps to enter web browser management mode.



1. Open a browser (**Internet Explorer browser only**) and type in "192.168.1.1" at the address bar and press Enter.
2. Type "guest" at the user name text box and "guest" again at the password text box.
3. The home page of web browser management mode will be displayed.
4. Click on 8 different functions on the main router menu on the left. The corresponding information will be displayed at right.
5. Click on Help at any time to bring up help menu.

NOTE:

The factory settings of user name and the password are by default "guest". It is recommended that user change that information to better maintain network security.

Internet Connection Wizard

1. Start Internet Configuration Wizard

The screenshot shows a dialog box titled "Internet Configuration Wizard". Inside, the text reads "Start Internet Configuration Wizard" followed by "Internet Configuration Wizard will help you to setup internet connection easily." Below this, there are two radio buttons: "pop up" (which is selected) and "don't pop up". To the right of these buttons is a "Save" button. At the bottom of the dialog box, there are two buttons: "Start" and "Exit".

- Internet Configuration Wizard will pop up upon successful login.

NOTE:

In order to enter **Wizard** mode, temporarily disable popup window blocking option if necessary or click on **Wizard** to start.

- Select **pop up** to enable automatic Internet Configuration Wizard prompt window. Click on **Save** to save this setting.
- Click on **Start** to continue or Click on **Exit** to exit.

2. Select Connection Type

The screenshot shows a dialog box titled "Internet Configuration Wizard". Inside, there are two columns. The left column is titled "Connection Type" and contains a list of radio buttons: "DHCP" (selected), "PPPoE", "Static IP", "PPTP DHCP", "PPTP Static IP", "L2TP DHCP", and "L2TP Static IP". The right column is titled "Select Connection Type" and contains the text: "Select one of the connection types, and click the 'Next' button. If you don't know about the connection type, please tell your network administrator or ISP". At the bottom of the dialog box, there are three buttons: "Prev", "Next", and "Exit".

- Select 1 of 7 connection types instructed by ISP or network administrator.
- Click on **Next** to continue or **Prev** to go back to previous page.
- Click on **Exit** to exit.

2.1 DHCP Connection

Internet Configuration Wizard		
Set Physical address		
If your ISP check the Physical address, Physical address should be set.		
MAC	<input type="text" value="08-10-74-24-af-9d"/>	<input type="button" value="Clone MAC"/>
Default MAC	<input type="text" value="08-10-74-24-af-9d"/>	<input type="button" value="Default MAC"/>
<input type="button" value="Prev"/> <input type="button" value="Next"/>		<input type="button" value="Exit"/>

- Click on **Clone MAC** or type in MAC address if required by ISP.
- Click on **Default MAC** to restore to default MAC address.
- Click on **Next** to continue or **Prev** to go back to previous page.
- Click on **Exit** to exit.

2.2 PPPoE Connection

Internet Configuration Wizard	
PPPoE Account & Password PPPoE Account <input type="text" value="12345@example.eg"/> PPPoE Password <input type="password" value="••••••••"/>	Set PPPoE Account & Password Set PPPoE account & password which are supplied from your ISP
<input type="button" value="Prev"/> <input type="button" value="Next"/>	<input type="button" value="Exit"/>

- Type in **PPPoE Account** and **PPPoE Password** provided from ISP.
- Click on **Next** to continue or **Prev** to go back to previous page.
- Click on **Exit** to exit.

2.3 Static IP Connection

Internet Configuration Wizard	
<p>Static IP</p> <p>IP Address <input type="text" value="118.166.69.170"/></p> <p>Subnet Mask <input type="text" value="255.255.255.255"/></p> <p>Gateway <input type="text" value="118.166.69.170"/></p> <p>Primary DNS <input type="text" value="0.0.0.0"/></p> <p>Secondary DNS <input type="text" value="0.0.0.0"/></p>	<p>Set Static IP</p> <p>Fill the blank input box with the values which are supplied from your ISP</p>
<p> <input type="button" value="Prev"/> <input type="button" value="Next"/> <input type="button" value="Exit"/> </p>	

- Type in **IP Address**, **Subnet Mask**, **Gateway**, **Primary DNS**, and **Secondary DNS** provided from ISP.
- Click on **Next** to continue or **Prev** to go back to previous page.
- Click on **Exit** to exit.

2.4 PPTP DHCP Connection

Internet Configuration Wizard	
<p>PPTP</p> <p>PPTP User Name <input type="text" value="12345@example.eg"/></p> <p>PPTP Password <input type="password" value="••••••••"/></p> <p>Server IP Address <input type="text" value="0.0.0.0"/></p> <p>Primary DNS <input type="text" value="0.0.0.0"/></p> <p>Secondary DNS <input type="text" value="0.0.0.0"/></p>	<p>Set PPTP</p> <p>Set PPTP user name,password,server IP address & others values which are supplied from your ISP</p>
<p> <input type="button" value="Prev"/> <input type="button" value="Next"/> <input type="button" value="Exit"/> </p>	

- Type in **PPTP User Name**, **PPTP Password**, **Server IP Address**, **Primary DNS**, and **Secondary DNS** provided from ISP.
- Click on **Next** to continue or **Prev** to go back to previous page.
- Click on **Exit** to exit.

2.5 PPTP Static IP Connection

Internet Configuration Wizard	
PPTP	Set PPTP
PPTP User Name	12345@example.eg
PPTP Password	••••••••
Server IP Address	0.0.0.0
IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Gateway	0.0.0.0
Primary DNS	0.0.0.0
Secondary DNS	0.0.0.0
Set PPTP user name,password,server IP address & others values which are supplied from your ISP	
<div> <div>Prev</div> <div>Next</div> <div>Exit</div> </div>	

- Type in **PPTP User Name**, **PPTP Password**, **Server IP Address**, **Subnet Mask**, **Gateway**, **Primary DNS**, and **Secondary DNS** provided from ISP.
- Click on **Next** to continue or **Prev** to go back to previous page.
- Click on **Exit** to exit.

2.6 L2TP DHCP Connection

Internet Configuration Wizard	
L2TP	Set L2TP
L2TP User Name	12345@example.eg
L2TP Password	••••••••
Server IP Address	0.0.0.0
Primary DNS	0.0.0.0
Secondary DNS	0.0.0.0
Set L2TP user name,password,server IP address & others values which are supplied from your ISP	
<div> <div>Prev</div> <div>Next</div> <div>Exit</div> </div>	

- Type in **L2TP User Name**, **L2TP Password**, **Server IP Address**, **Primary DNS**, and **Secondary DNS** provided from ISP.
- Click on **Next** to continue or **Prev** to go back to previous page.
- Click on **Exit** to exit.

2.7 L2TP Static IP Connection

Internet Configuration Wizard	
L2TP	Set L2TP
L2TP User Name	12345@example.eg
L2TP Password	••••••••
Server IP Address	0.0.0.0
IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Gateway	0.0.0.0
Primary DNS	0.0.0.0
Secondary DNS	0.0.0.0
Set L2TP user name,password,server IP address & others values which are supplied from your ISP	
<div> <div>Prev</div> <div>Next</div> <div>Exit</div> </div>	

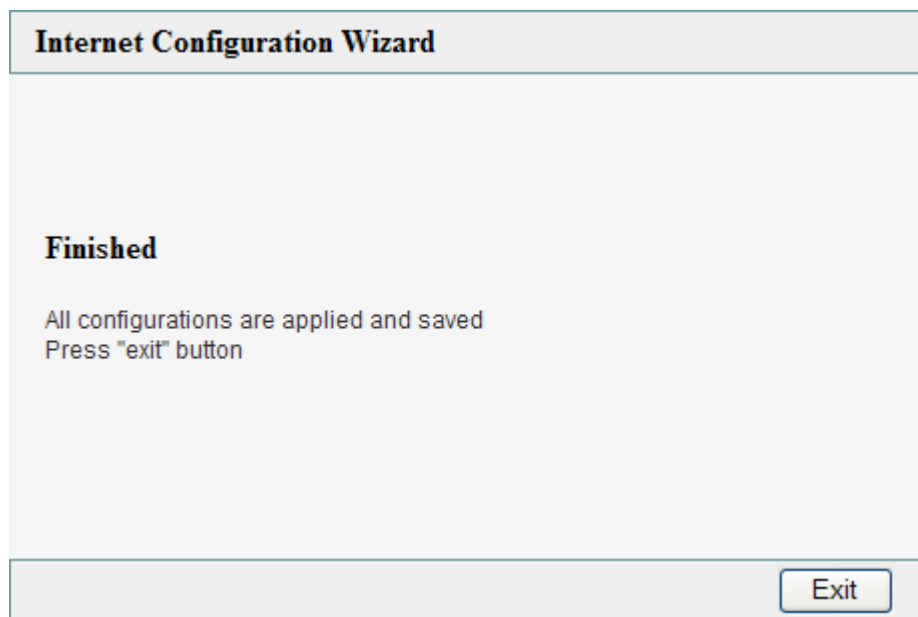
- Type in **L2TP User Name**, **L2TP Password**, **Server IP Address**, **Subnet Mask**, **Gateway**, **Primary DNS**, and **Secondary DNS** provided from ISP.
- Click on **Next** to continue or **Prev** to go back to previous page.
- Click on **Exit** to exit.

3. Wireless AP Configuration

Wireless AP Configuration Wizard	
Wireless AP Configuration	
Radio Band	802.11b/g ▾
Radio Mode	AP ▾
SSID	default
Channel	Channel 6 ▾
<div> <div>Prev</div> <div>Next</div> <div>Exit</div> </div>	

- Select a **Radio Band** type from the drop down box. (802.11b/g is recommended)
- Select **Radio Mode** from the drop down box. (AP+WDS is recommended)
- Type in **SSID** as desired. (SSID must be identical in all devices connecting to device)
- Select a broadcasting channel from drop down box. (Device is set on channel 6 by default)
- Click on **Next** to continue or **Prev** to go back to previous page.
- Click on **Exit** to exit.

4. Installation Completed



The screenshot shows a window titled "Internet Configuration Wizard". Inside the window, the word "Finished" is displayed in a large, bold font. Below it, a message states: "All configurations are applied and saved" followed by "Press 'exit' button" in a smaller font. At the bottom right of the window, there is a button labeled "Exit".

- Click on **Exit** to finish Internet Configuration Wizard.

Status

StatusStatisticsWizardSaveHelp

WAN Status

Connection Type	DHCP
Physical Address	08-10-17-22-1a-0c
DHCP Lease timer	0 Sec Lease timer 0
WAN IP Address	0.0.0.0
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
Primary DNS IP	0.0.0.0
Secondary DNS IP	0.0.0.0
This page will be refreshed per 5 seconds	
Connect	

LAN Status

Physical Address	08-10-17-22-1a-0b
LAN IP Address	192.168.1.1
Subnet Mask	255.255.255.0
DHCP Server	ON

Wireless Status

Wireless	Enabled
Connection	Disconnected
MAC	08-10-17-22-1a-0b
Radio Band	802.11b/g
SSID	default
Channel	6
Mode	AP
Security	None

SYSTEM INFO

Edition Info	APR-M14H-V1.1.02EN-OEM, 2006.04.11.15:50.
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1. This section displays various router information divided into 3 tabs.
2. The 1st tab displays parameters of **WAN/LAN/Wireless** connection, and **System Info**.
 - **WAN Status**: WAN interface parameters of the device.

NOTE:

Click on **Connect** to refresh IP address with **DHCP** connection type and to initiate a dial up connection with **PPPoE** connection type.

 - **LAN Status**: LAN interface parameters of the device.
 - **Wireless Status**: WLAN interface parameters of the device.
 - **System Info**: Displays device firmware version.

System Run Time

System Run Time	0 days 2 hours 8 minutes 33 seconds						
Type	Current NAT	Transmit Accumulation Statistic				Rate (KB/s)	
		Received Packets	Received Bytes (K)	Sent Packets	Sent Bytes (K)	Upload	Download
TCP	0	0	0	0	0	0	0
UDP	0	0	0	0	0	0	0
ICMP	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0
<input type="button" value="Refresh"/>							

3. The 2nd tab displays statistics of packets from WAN port. Click on **Refresh** to update data monitor table to receive most recent data.
- **System Run Time:** Displays system run time from last system restart.
 - **Statistics:** Monitors current sent/received packets through both wireless and wired connection.

Syslog

20070101(12:00:00):[SYSTEM]:load default parmarm!
20070101(12:00:00):[SYSTEM]:Router started.
20070101(12:00:03):[SYSTEM]:WAN port link down.
20070101(12:02:09):[WIRELESS]:Wireless client 00-1B-77-06-8C-CD is associated with the AP.
20070101(12:02:12):[SYSTEM]:WAN port link down.
20070101(12:07:52):[WIRELESS]:Wireless client 00-16-6F-1A-39-BE is associated with the AP.
20070101(12:07:52):[SYSTEM]:WAN port link down.

4. The 3rd tab displays system logs including system events, network abnormalities.

WAN Setup

WAN Setup

<input checked="" type="radio"/> Dynamic IP User (Cable Modem)
<input type="radio"/> PPPoE User (ADSL)
<input type="radio"/> Static IP User
<input type="radio"/> PPTP
<input type="radio"/> L2TP

DHCP Client Setup

MAC	<input type="text" value="08-10-74-24-af-9d"/>	<input type="button" value="Clone MAC"/>
Default MAC	<input type="text" value="08-10-74-24-af-9d"/>	<input type="button" value="Default MAC"/>
MTU	<input type="text" value="1514"/>	
Primary DNS	<input type="text" value="168.95.1.1"/>	
Secondary DNS	<input type="text"/>	
<input type="button" value="Apply"/>		

1. This section assists user to setup network connection types and their subsidiary functions. The default setting is Dynamic IP connection type.
2. Click on **Save** to save modified settings.

Dynamic IP Setting

DHCP Client Setup

MAC	<input type="text" value="08-10-73-06-0d-1c"/>	<input type="button" value="Clone MAC"/>
Default MAC	<input type="text" value="08-10-73-06-0d-1c"/>	<input type="button" value="Default MAC"/>
MTU	<input type="text" value="1514"/>	
Primary DNS	<input type="text"/>	
Secondary DNS	<input type="text"/>	
<input type="button" value="Apply"/>		

1. Click on **Dynamic IP User (Cable Modem)** option.
2. Click on **Clone MAC** to replace current device MAC address with host PC MAC address. Click on **Default MAC** to restore to default.
3. Enter **MTU** (Maximum Transmission Unit) value if required. The default value is set at 1496.

NOTE:

It is recommended to set MTU value between 1200 and 1500 range.

4. Enter **Primary DNS** and **Secondary DNS** IP address if required by ISP provider.
5. Click on **Apply** to confirm modifications.
6. Click on **Save** to save modified settings.

PPPoE Setting

PPPoE Setup	
PPPoE Account	<input type="text" value="account"/>
PPPoE Password	<input type="password" value="*****"/>
MAC	<input type="text" value="08-10-73-06-0d-1c"/> <input type="button" value="Clone MAC"/>
Default MAC	<input type="text" value="08-10-73-06-0d-1c"/> <input type="button" value="Default MAC"/>
MTU	<input type="text" value="1492"/>
Primary DNS	<input type="text"/>
Secondary DNS	<input type="text"/>
<input checked="" type="radio"/> Connect to Internet automatically (Default) <input type="radio"/> Auto disconnect when idle, time out After <input type="text" value=""/> (1-30)minutes, if no found the access request then auto-break off! <input type="radio"/> Connect to Internet manually	
<input type="button" value="Apply"/>	

1. Click on **PPPoE User (ADSL)** option.
2. Type in **PPPoE Account** and **PPPoE Password** provided from ISP.
3. Click on **MAC Clone** to replace current device MAC address with host PC MAC address. Click on **Default MAC** to restore to default.
4. Enter **MTU** (Maximum Transmission Unit) value if required. The default value is set at 1496.

NOTE:

It is recommended to set MTU value between 1200 and 1500 range.

5. Enter **Primary DNS** and **Secondary DNS** IP address if required by ISP provider.
6. Select a connection mode if necessary. The default setting is "**Connect to Internet automatically**".
7. Click on **Apply** to confirm modifications.
8. Click on **Save** to save modified settings.

Static IP Setting

Static IP Setup

WAN IP Address	<input type="text" value="192.168.2.12"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Default Gateway	<input type="text" value="192.168.2.1"/>
Primary DNS	<input type="text" value="168.95.1.1"/>
Secondary DNS	<input type="text"/>
MAC	<input type="text" value="08-10-74-24-af-9d"/> <input type="button" value="Clone MAC"/>
Default MAC	<input type="text" value="08-10-74-24-af-9d"/> <input type="button" value="Default MAC"/>
MTU	<input type="text" value="1514"/>
<input type="button" value="Apply"/>	

1. Type in **WAN IP Address**, **Subnet Mask**, **Default Gateway**, **Primary DNS** and **Secondary DNS** address provided by ISP.
2. Click on **MAC Clone** to replace current device MAC address with host PC MAC address. Click on **Default MAC** to restore to default.
3. Enter **MTU** (Maximum Transmission Unit) value if required. The default value is set at 1496.

NOTE:

It is recommended to set MTU value between 1200 and 1500 range.

4. Click on **Apply** to confirm modifications.
5. Click on **Save** to save modified settings.

PPTP Setting

PPTP

User Name	<input type="text" value="John"/>
Password	<input type="password" value="....."/>
Server IP Address	<input type="text" value="202.139.2.69"/>

Chose one WAN connection type DHCP or Static IP

<input checked="" type="radio"/> DHCP	
<input type="radio"/> Static IP	
Primary DNS	<input type="text" value="61.139.2.69"/>
Secondary DNS	<input type="text"/>
MTU	<input type="text" value="1440"/>
<input type="button" value="Apply"/>	

1. Type in **User Name** and **Password** provided by ISP.
2. Type in PPTP **Server IP Address**.
3. Select connection type. Please follow instructions from ISP. Enter Static **WAN IP Address/Subnet Mask/Gateway** if necessary.
4. Enter **Primary DNS** and **Secondary DNS** IP address if required by ISP provider.
5. Enter **MTU** (Maximum Transmission Unit) value if required. The default value is set at 1496.

NOTE:

It is recommended to set MTU value between 1200 and 1500 range.

6. Click on **Apply** to confirm modifications.
7. Click on **Save** to save modified settings.

L2TP Setting

Dial-up users typically use the PPP (Point-to-Point Protocol) for an Internet connection. PPP is a layer 2 protocol that frames data so it can be sent across a dial-up connection. The protocol allows users to run TCP/IP software such as Web browsers as if they were directly connected to the Internet. In fact, user TCP/IP packets are put into PPP frames for transport across the dial-up link to an ISP. The ISP then extracts the TCP/IP packets and forwards them on the Internet. L2TP enhances PPP by granting a means for a remote user to extend a PPP link across the Internet all the way to a corporate site. In essence, a tunnel is established across the Internet from the ISP to a corporate site and frames are transmitted through the tunnel. Once the tunnel is set up, the ISP is essentially out of the picture and the user communicates to the corporate network over what appears to be a direct dial-up connection.

L2TP	
User Name	<input type="text" value="john"/>
Password	<input type="password" value="....."/>
Server IP Address	<input type="text" value="202.139.15..19"/>
Chose one WAN connection type DHCP or Static IP	
<input checked="" type="radio"/> DHCP <input type="radio"/> Static IP	
Primary DNS	<input type="text" value="61.139.2.69"/>
Secondary DNS	<input type="text"/>
MTU	<input type="text" value="1440"/>
<input type="button" value="Apply"/>	

1. Type in **User Name** and **Password** provided by ISP.
2. Type in PPTP **Server IP Address**.
3. Select connection type. Please follow instructions from ISP. Enter Static **WAN IP Address/Subnet Mask/Gateway** if necessary.
4. Enter **Primary DNS** and **Secondary DNS** IP address if required by ISP provider.
5. Enter **MTU** (Maximum Transmission Unit) value if required. The default value is set at 1496.

NOTE:

It is recommended to set MTU value between 1200 and 1500 range.

6. Click on **Apply** to confirm modifications.
7. Click on **Save** to save modified settings.

LAN Setup

System IP Setup	
System IP Address	<input type="text" value="192.168.1.1"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
<input checked="" type="checkbox"/> DHCP Server on	
DHCP IP Pool	192.168.1. <input type="text" value="2"/> - 192.168.1. <input type="text" value="102"/>
<input type="button" value="Apply"/>	

1. This section assists user to designate a specific IP address to the device and other IP addresses to PC(s) or network machines connected to the device. The section is divided into 2 tabs.

- The 1st tab configures PC(s) connected to device and other settings. Type in **System IP Address** of device LAN port IP address. This is the default gateway IP address of LAN client(s)/host PC(s).
- Type in **Subnet Mask** of the device LAN segment.
- Enable/disable **DHCP Server** function by clicking on the option. Enabling DHCP Server function allows the device to assign host PC(s) IP address. DHCP IP address range can be allocated by entering range of IP addresses under **DHCP IP Pool** option.
- Click on **Apply** to confirm modification.

NOTE:

User must manually assign IP address of host PC(s) if **DHCP Server on** option is disabled.

DHCP IP Address Reserving

<input type="checkbox"/> Auto Setup											
Physical Address	<input type="text"/>										
IP Address	192.168.1. <input type="text" value="23"/>										
<input type="button" value="Add"/>											
<table border="1"> <thead> <tr> <th>ID</th> <th>IP Address</th> <th>Physical Address</th> <th>Delete</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>192.168.1.23</td> <td>00-c0-26-a8-4a-9b</td> <td><input type="button" value="Delete"/></td> </tr> </tbody> </table>				ID	IP Address	Physical Address	Delete	1	192.168.1.23	00-c0-26-a8-4a-9b	<input type="button" value="Delete"/>
ID	IP Address	Physical Address	Delete								
1	192.168.1.23	00-c0-26-a8-4a-9b	<input type="button" value="Delete"/>								

- Reserve a specific **DHCP IP Address** to a PC or network device by typing the client's MAC address and desired IP segment. Click **Add** to confirm.
- A Designated IP Table below displays all DHCP IP address reserved. Select an IP address and click on **Delete** to remove it from table.
- Click on **Save** to save modified settings.

DHCP Client Info

ID	IP Address	MAC Address	Status
1	192.168.1.23	00-c0-26-a8-4a-9b	Static

- The 2nd tab displays all PC(s) connected to the device.

Wireless

Basic Setting

Basic Setting	
<input type="checkbox"/> Disabled Wireless	<input type="button" value="Apply"/>
Radio Band	802.11b/g
Radio Mode	AP
Booster Mode	<input type="checkbox"/> Enabled this mode can enhance the throughput of data transmission.
After configing basic parameters , Please config Authentication and Encryption mode, to setup Valid and Safe wireless connection.	
SSID	default
Broadcast SSID	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Channel	Channel 6
<input type="button" value="Apply"/>	

1. This section assists user to create a network environment that connects wireless PC(s) to a wired LAN. It also allows wireless stations to access network resources and share the broadband Internet connection. The section is divided into 6 tabs.
2. The 1st tab defines basic settings for wireless networking. Check on **Disabled Wireless** and click on **Apply** to disable wireless function. Uncheck to restore.
3. Select **Radio Band** and **Radio Mode** from the drop down menu boxes.
4. Check on **Booster Mode** to increase throughput of data transmission. Uncheck to disable.
5. Type in desired **SSID** (network name shared among all points in a wireless network). **SSID** is case sensitive and must not exceed 32 characters.

NOTE:

It is recommended to change default **SSID** (default) to a unique name for better security.

6. Select a channel (14 channels) for wireless communication. Channels 1, 6, and 11 are non-overlapping channels while all others are overlapping channels.
7. Click on **Apply** to confirm modification.
8. Click on **Save** to save modified settings.

Security Setting

Security Configuration	
Authentication Type	None ▼
<input type="button" value="Apply"/>	

The 2nd tab defines all common security settings for wireless networking. Select one of the **Authentication Type** from the drop down menu box.

- **None:**
 - Any data will be transmitted without encryption and any PC(s) is able to connect to device without authentication. This is the default setting.
 - Click on **Apply** to confirm modification.

Security Configuration	
Authentication Type	WEP ▼
Accessorial Authentication & Encryption	Open System ▼
WEP	
KEY Length	<input checked="" type="radio"/> 64 bits <input type="radio"/> 128 bits
WEP Mode	<input checked="" type="radio"/> HEX <input type="radio"/> ASCII
Key 1	<input checked="" type="radio"/> <input type="text" value="A123456789"/>
Key 2	<input type="radio"/> <input type="text"/>
Key 3	<input type="radio"/> <input type="text"/>
Key 4	<input type="radio"/> <input type="text"/>
<input type="button" value="Apply"/>	

Key format is 10 Hex-Number, every Hex-Number can be 0-9 and A-F

- **WEP:**
 - WEP (Wired Equivalent Privacy) utilizes a combination of 64-bit or 128-bit keys to provide access control and encryption security.
 - Select **Authentication & Encryption** type (**Open System**, **Shared Key**, and **Auto Select**) from the drop down menu box.
 - Select **KEY Length** (64 bits/128 bits) and **WEP Mode** (HEX/ASCII) as desired. Settings on PC(s) must match that of the device.
 - Select 1 of 4 keys to type in a string of characters defined in the description box. The key criteria is listed as below:

Key Length	HEX Format	ASCII Format
64 bit	10 hexadecimal digits	5 ASCII characters
128 bit	26 hexadecimal digits	13 ASCII characters

- Click on **Apply** to confirm modification.

Security Configuration

Authentication Type	WPA Personal ▼
Accessorial Authentication & Encryption	TKIP ▼

Pre-Shared Key

Key Format	Please input 8-63 characters
KEY	*****
Rekey Time (sec)	86400
<input type="button" value="Apply"/>	

- **WPA Personal:**

1. WPA (Wi-Fi Protected Access) is an advanced security standard that utilizes pre-shared key to authenticate wireless stations and encrypt data during communications.
2. Select **Authentication & Encryption** type (**TKIP** and **AES**) from the drop down menu box.
3. Type in Pass Phrase with size ranging from 8 to 63 characters under **KEY** option.
4. Specify time WPA key must be renewed. The default value is 86400.
5. Click on **Apply** to confirm modification.

NOTE:

TKIP (Temporal Key Integrity Protocol) utilizes a stronger encryption algorithm and includes Message Integrity Code while **AES** (Advanced Encryption System) utilizes a symmetric 128 bit block data encryption, the strongest encryption currently available.

Security Configuration

Authentication Type	WPA2 Personal ▼
Accessorial Authentication & Encryption	AES ▼

Pre-Shared Key

Key Format	Please input 8-63 characters
KEY	*****
Rekey Time (sec)	86400
<input type="button" value="Apply"/>	

- **WPA2 Personal**

1. WPA2 is a more advanced version of WPA which only authenticates access and encrypts data transmission with **AES** type.

2. Type in Pass Phrase with size ranging from 8 to 63 characters under **KEY** option.
3. Specify time WPA key must be renewed. The default value is 86400.
4. Click on **Apply** to confirm modification.

Security Configuration

Authentication Type	WPA&WPA2 Personal ▼
---------------------	---------------------

Pre-Shared Key

WPA	<input checked="" type="radio"/> TKIP <input type="radio"/> AES
WPA2	<input checked="" type="radio"/> AES
KEY Mode	Please input 8-63 characters
WPA Pass Phrase	*****
WPA2 Pass Phrase	*****
Rekey Time (sec)	86400
<input type="button" value="Apply"/>	

- **WPA&WPA2 Personal:**

Auto-select WPA or WPA2 detects PC wireless authentication information and adjusts its setting accordingly. The operations are identical to that of WPA and WPA2. Please refer to previous sections for detailed information.

Filter List Setting

Wireless Access Control Configuration

<input checked="" type="checkbox"/> Enable Wireless Access Control	<input type="button" value="Apply"/>		
<input type="radio"/> Defined items in MAC list are PERMITTED to connect AP, others are DENIED	<input type="button" value="Apply"/>		
<input checked="" type="radio"/> Defined items in MAC list are DENIED to connect AP, others are PERMITTED			
MAC	<input type="text"/>	<input type="button" value="Add"/>	
Descript	<input type="text"/>		
ID	MAC	Descript	Delete
1	CC-00-AA-BB-FF-12	pc1	<input type="button" value="Delete"/>

1. The 3rd tab specifies wireless access control based on MAC address of PC(s).
2. Check on **Enable Wireless Access Control** and click on **Apply** to implement access control.
3. Check on appropriate radio button option and click on **Apply** to implement security control type.

4. Type in **MAC** address of PC(s) and optional comments if necessary under **Descript** box. Click on **Add** to edit modified rule.
5. An Access Control Table below displays all PC(s) under access control on the network. Select a rule and click on **Delete** to remove it from table.
6. Click on **Save** to save modified settings.

WDS Setting

Wireless Bridge Configuration

Wireless Bridge MAC	<input type="text"/>	<input type="button" value="Add"/>
Descript	<input type="text"/>	

Current Wireless Bridge Information

No	MAC	Descript	Delete
1	00-33-CF-25-A1-00	wds	<input type="button" value="Delete"/>

1. The 4th tab creates wireless bridge between 2 or more router device.
2. Type in **MAC** address of other router device(s) and optional comments if necessary under **Descript** box. Click on **Add** to edit modified rule.
3. A Wireless Bridge Information Table below displays all router devices bridged on the network. Select a router device and click on **Delete** to remove it from table.
4. Click on **Save** to save modified settings.

WDS Setting

Advanced Setting

Beacon Interval	<input type="text" value="100"/> (20-1000 ms)
RTS Threshold	<input type="text" value="2347"/> (256-2432)
DTIM Interval	<input type="text" value="1"/> (1-255)
Transmit Rate	<input type="button" value="Auto"/>
Preamble Type	<input checked="" type="radio"/> Long <input type="radio"/> Short <input type="radio"/> Auto
802.11g protection	<input checked="" type="radio"/> CTS <input type="radio"/> RTS/CTS <input type="radio"/> Disabled
<input type="button" value="Apply"/>	

1. The 5th tab adjusts advanced wireless function.
2. Type in the **Beacon Interval** between each beacon broadcast. A beacon is a packet broadcasted by the device to assist in network synchronization. The default value is 100.
3. Type in **RTS Threshold** value as desired between 256 and 2432. The default value of 2347 should only be modified when encountering inconsistent data flow.

4. Type in **DTIM Interval** frequency between each DTIM (Delivery Traffic Indication Message) broadcast. Lower value result in more efficient networking while preventing PC(s) from entering power saving mode. Higher value interferes with wireless transmission yet allowing PC(s) to enter sleep mode thus saving power consumption.
5. Select maximum **Transmit Rate** (Transmission rate of data packets)of the device. The default value is **Auto**.
6. Select **Preamble Type** (Length of CRC block in the frames during wireless communication). **Short** Preamble is appropriate for heavy traffic wireless network while **Long** Preamble provides better communication reliability.
7. Select **802.11g Protection** type between **CTS**, **RTS/CTS**, or disabled.
8. Click on **Apply** to confirm modification.
9. Click on **Save** to save modified settings.

Association Table

Association Table							
No	MAC Address	Status	Band	Rate	Signal Quality	RSSI	Power Save
<input type="button" value="Refresh"/>							

1. The 6th tab displays all PC(s) connected to device via wireless network.
2. Click on **Refresh** to update table.

Routing

Routing Table Management					
Type	Target	Mask	Gateway		
NET <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
<input type="button" value="Add"/>					
ID	Type	Target	Mask	Gateway	Delete
0	NET	10.0.0.0	255.255.255.0	192.168.1.8	<input type="button" value="Delete"/>

1. This section assists user to create static route(s) between network and device.
2. Select Route **Type** and type in **Target** IP address, Subnet **Mask**, and **Gateway** IP. Click on **Add** to add routing information.
3. A Routing Table below displays all static routing paths. Select a routing path and click on **Delete** to remove it from table.
4. Click on **Save** to save modified settings.

NAT

Network Address Translation (NAT) technology allows multiple users at local network to gain access to Internet through a single public IP address while user PC(s) are still under firewall protection.

DMZ Host Setup

DMZ Host Setup

<input checked="" type="checkbox"/> DMZ	192.168.1. <input type="text" value="11"/>	<input type="button" value="Apply"/>
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1. DMZ function enables PC to be exposed to the Internet for use of special purpose services.
2. Check **DMZ** option and enter desired PC IP address to be exposed.
3. Click on **Apply** to confirm modification.
4. Click on **Save** to save modified settings.

FTP Private Port

FTP Private Port

<input checked="" type="checkbox"/> Port Number	<input type="text" value="1025"/>	<input type="button" value="Apply"/>
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1. FTP function enables File Transfer Protocol which does not use the standard port 21.
2. Check **Port Number** and enter the port number.
3. Click on **Apply** to confirm modification.
4. Click on **Save** to save modified settings.

Virtual Server Setup

Virtual Server Setup

Rule Name	<input type="text" value="FTP"/>
Internal Server IP Address	192.168.1. <input type="text" value="6"/>
Protocol	<input type="text" value="TCP"/>
External Port	<input type="text" value="21"/>
Internal Port	<input type="text" value="21"/>
<input type="button" value="Add"/>	

ID	Rule Name	Internal IP	Protocol	External Port	Internal Port	Delete
1	FTP	192.168.1.6	TCP	21	21	<input type="button" value="Delete"/>

1. Virtual server allows PC(s) located outside of network to be able to access services on PC(s) connected to the device.
2. Type in the description of the rule desired under **Rule Name**.
3. Type in internal **IP address** of the client PC(s) desired for public port number packet access.
4. Select the **Protocol** type including TCP, UDP, FTP, HTTP, HTTPS, POP3, SMTP, DNS, TELNET, IPSEC, and PPTP.
5. Enter **External Port** number that the public port number will be changed to when the packet enters the network.
6. Enter **Internal Port** number from the Internet that will be redirected to the private IP address in the network.
7. Click on **Add** to add modified rule.
8. A Virtual Server Table below displays all valid virtual servers available on the network. Select a rule and click on **Delete** to remove it from table.
9. Click on **Save** to save modified settings.

Port Triggering

Port Triggering

Predefined Trigger Rules	Select one of the predefined rules ▼
Rule Name	<input type="text"/>
Trigger Protocol	TCP ▼
Trigger Port	<input type="text"/> - <input type="text"/>
Forward Protocol	TCP ▼
Forward Port	<input type="text"/>
<input type="button" value="Add"/>	

ID	Rule Name	Trigger Condition	Forward Condition	Delete
1	GuruGuru	tcp:31200	tcp:9292	<input type="button" value="Delete"/>

1. Port Triggering function commands router to remember outgoing data for specific port numbers, recalls the matching requested data, and pulls the data back to the proper PC(s) by its IP address and port mapping rules.
2. Select one of the predefined rules or type in the description of the service desired under **Rule Name**.
3. Select outbound port protocol type between **TCP** and **UDP** under **Trigger Protocol**.
4. Type in all of the outbound range of port numbers. Port numbers are separated by comma. Use a dash in between port numbers to define a range of port numbers.

5. Select inbound port protocol type between **TCP** and **UDP** under **Forward Protocol**.
6. Type in all of the inbound range of port numbers. Port numbers are separated by comma.
7. Click on **Add** to add modified rule.
8. A Trigger Port Table below displays all valid trigger rules available on the network. Select a rule and click on **Delete** to remove it from table.
9. Click on **Save** to save modified settings.

Firewall

The device provides extensive firewall protections by restricting connection parameters to limit the risk of attacks and creates packet filtering rules by restricting service ports, IP address or MAC address.

MAC Filtering Configuration

MAC Filtering Configuration

Status	The current status is enabled		Stop
<input checked="" type="checkbox"/> If checked, the undefined item in MAC Address list is allowed to access Internet;Unchecked means reverse			Apply
MAC Address	<input type="text"/>	Permit ▾	Add

ID	MAC Address	Rule	Delete
1	08-10-17-47-0B-FA	Permit	Delete

1. MAC Filtering function blocks certain PC(s) from Internet access based on MAC addresses.
2. Click on **Start/Stop** to turn on/off the MAC filtering configuration.
3. Check the option to allow all other PC(s) whose MAC address(es) are not on the list to be permitted of Internet access.
4. Type in **MAC address** (in format of XX-XX-XX-XX-XX-XX) of desired PC and select **Permit/Deny** to manage its Internet accessibility. Click **Add** to add modified rule.
5. A MAC Filtering Table below displays all valid MAC filtering rules available on the network. Select a rule and click on **Delete** to remove it from table.
6. Click on **Save** to save modified settings.

Connection Filtering Configuration

Connection Filtering Configuration							
Status	The current status is enabled						<input type="button" value="Stop"/>
<input checked="" type="checkbox"/> If checked, the undefined item in IP Address list is allowed to access Internet;Unchecked means reverse						<input type="button" value="Apply"/>	
Rule Name	<input type="text" value="test"/>						
Source IP Address	192. 68.1. <input type="text" value="11"/> - 192.168.1. <input type="text" value="12"/>						
Protocol	<input type="text" value="TCP"/> ▼						
Destination Port	<input type="text" value="80"/> - <input type="text" value="80"/>						
status	<input type="text" value="Permit"/> ▼						
Days To Block	<input type="checkbox"/> Everyday <input checked="" type="checkbox"/> Sun <input checked="" type="checkbox"/> Mon <input type="checkbox"/> Tue <input checked="" type="checkbox"/> Wed <input type="checkbox"/> Thu <input type="checkbox"/> Fri <input type="checkbox"/> Sat						
Times To Block	<input type="checkbox"/> All Day <input type="text" value="00:00"/> ▼ - <input type="text" value="00:00"/> ▼						
<input type="button" value="Add"/>							
Rule Name	Source IP	Protocol	Dest Port	Days	Times	Rule	Delete
test	192.168.1.2-192.168.1.7	ALL	None	Everyday	All Day	Permit	<input type="button" value="Delete"/>

1. Connection Filtering function blocks certain PC(s) from Internet access based on time.
2. Click on **Start/Stop** to turn on/off the MAC filtering configuration.
3. Check the option to allow all other PC(s) whose IP address(es) are not on the list to be permitted of Internet access.
4. Type in the description of the rule desired under **Rule Name**.
5. Type in source IP address desired to apply this access control rule.
6. Select protocol type including **TCP**, **UDP**, **FTP**, **HTTP**, and **ALL**.
7. Type in a range of port numbers to block corresponding PC(s) from accessing Internet.
8. Select days and/or time to apply this access control rule. Click **Add** to add modified rule.
9. An Access Control Table below displays all valid access control rules available on the network. Select a rule and click on **Delete** to remove it from table.
10. Click on **Save** to save modified settings.

URL Filtering Configuration

URL Filtering Configuration

Note: You can use wildcards(* and ?); "*" is the multi-letters; "?" is a letter; For example: *.sex*. * express that all URL with "sex" will be blocked!

Input Filtering Keyword	<input type="text" value="*.example.com"/>	<input type="button" value="Add"/>
-------------------------	--	------------------------------------

ID	Filtering Keyword	Delete
1	*.example.com	<input type="button" value="Delete"/>

1. URL Filtering function blocks certain website accesses by specifying keywords.
2. Type in keywords to block PC(s) from accessing Internet websites. Wildcards such as "*" (a string of characters) or "?" (a single character) are available. Click **Add** to add modified rule.
3. A Keyword filtering Table below displays all valid keyword rules available on the network. Select a rule and click on **Delete** to remove it from table.
4. Click on **Save** to save modified settings.

Ping Filtering Configuration

Ping Filtering Configuration

<input type="checkbox"/> Discard ping request from WAN interface	<input type="button" value="Apply"/>
<input type="checkbox"/> Discard ping request from LAN interface	<input type="button" value="Apply"/>

1. Ping Filtering function rejects ping requests from other devices.
2. Check on one or both options to **Discard ping request from WAN/LAN interface**.
3. Click on **Apply** to confirm modification.
4. Click on **Save** to save modified settings.

SPI Firewall

SPI (Stateful Packet Inspection) **Firewall** enhances data security in a network environment more efficiently and effectively by examining additional characteristics of data packets and applying logical analysis.

SPI Firewall Wizard Save Help

Configuration SPI Firewall

<input checked="" type="checkbox"/> Set SPI Firewall State	Apply
<input checked="" type="checkbox"/> Limit the max session of the host <input type="text" value="1000"/>	Apply
The strategy of checking the invasion	
<input checked="" type="checkbox"/> Limit the max unfinish session of the host <input type="text" value="1000"/>	
<input checked="" type="checkbox"/> The host created NAT sessions exceeding <input type="text" value="200"/> in <input type="text" value="1"/> seconds	
<input type="checkbox"/> The host send bytes exceeding <input type="text" value="0"/> (KBytes) in <input type="text" value="0"/> seconds	Apply
After invaded	
<input checked="" type="checkbox"/> Lock of the host <input type="text" value="10"/> (s)	
<input checked="" type="checkbox"/> Record to system log.	Apply
Locked host list	
Host IP	Lock Time(S)
Reason	Unlock

1. Check on **Set SPI Firewall State** and click **Apply** to activate SPI Firewall function.
2. Check on **Limit the max session of the host** and specify its maximum session value to limit network sessions. Click on **Apply** to confirm modifications.
3. Check on **Limit the max unfinish session of the host** and specify its maximum unfinished session value to limit unfinished network sessions. Click on **Apply** to confirm modifications.
4. Check on **The host created NAT sessions exceeding ____ in ____ seconds** and specify session value and time period to limit NAT sessions in designated time period.
5. Check on **The host send bytes exceeding ____ (Kbytes) in ____ seconds** and specify total data amount and time period to limit NAT sessions in designated amount of data transmission. Click on **Apply** to confirm modifications.
6. Check on **Lock of the host** and specify number of seconds to prohibit visits from illegal hosts for a user specified time duration.
7. Check on **Record to system log** and click on **Apply** to record events on system log.
8. Click on **Apply** to confirm modification.
9. Click on **Save** to save modified settings.

DDNS

Dynamic Domain Name System (DDNS) maps the static domain name to a dynamic IP address. Account, password, static domain name must be obtained from DDNS service provider.

DDNS Setup	
* Sign up www.dyndns.org first.(Free)	
DynDNS Operation	<input checked="" type="radio"/> Start <input type="radio"/> Stop
User ID	<input type="text"/>
Password	<input type="text"/>
Host Name	<input type="text"/>
Information	close!
<input type="button" value="Apply"/>	<input type="button" value="Refresh"/>

1. Click on **Start/Stop** to turn on/off **DynDNS Operation**.

NOTE:

User must sign up on www.dyndns.org to obtain DynDNS service before starting.

2. Type in account name, password, and domain obtained from DDNS provider.
3. Click **Apply** to confirm modification and **Refresh** to display most recent update.
4. Click on **Save** to save modified settings.

MISC

Login ID & Password Setup

Login ID & Password Setup	
Login name is "guest"	
New Password	<input type="password"/>
Confirm New Password	<input type="password"/>
<input type="button" value="Apply"/>	

1. The default Login ID is "guest" and the default password is also "guest".
2. To change password, type in new password and type in the same new password again to confirm.
3. Click **Apply** to confirm modifications.
4. Click on **Save** to save modified settings.

NOTE:

To reset device to factory default setting, press **RESET** button on the device front panel. The Login ID and password will be reset to "guest".

Remote Management

Remote Mgmt	
<input checked="" type="checkbox"/> Management Port	<input type="text" value="8080"/> <input type="button" value="Apply"/>

1. The Remote Management function allows user to manage the device through Internet from a remote location.
2. Check **Management Port** option and type in the corresponding port number.
3. Click **Apply** to confirm modifications.
4. Click on **Save** to save modified settings.

NOTE:

To access web based management page, simply type in http://<WAN IP Address>:8080 (for example: http://192.168.1.8:8080).

UPnP Setup

UPnP Setup

<input checked="" type="checkbox"/> Enable UPnP Server	<input type="button" value="Apply"/>
--	--------------------------------------

1. The UPnP function exposes the device on the Intranet (internal) network. PC(s) connected to the device does not require further configuration to access the network.
2. Check **Enable UPnP Server** option.
3. Click **Apply** to confirm modifications.
4. Click on **Save** to save modified settings.

System Time Setup

System Time Setup

System Time	Feb 27 2004 7:17:54	
GMT	(GMT+08:00) Beijing, Hongkong, KualaLumpur, Singapore ▼	<input type="button" value="Apply"/>

1. The System Time Setup function configures device time.
2. Select one of the time zones from the drop down menu.
3. Click **Apply** to confirm modifications.
4. Click on **Save** to save modified settings.

WAN Link Status & Setup

WAN Link Status & Setup

WAN Link Status	100Mbps-Full	WAN Link Setup	Auto ▼	<input type="button" value="Apply"/>
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1. The WAN Setup function configures device connection bandwidth.
2. Select one of the connection bandwidth from the drop down menu.
3. Click **Apply** to confirm modifications.
4. Click on **Save** to save modified settings.

Restore Default/Restart System

Restore Default / Restart System

<input type="button" value="Restore Default"/>	<input type="button" value="Restart System"/>
--	---

1. Click on **Restore Default** to restore all device settings to factory setting.
2. Click on **Restart System** to reboot the device.

Firmware Upgrade

Firmware Upgrade

New Firmware File:	<input type="text"/>	<input type="button" value="Browse..."/>	<input type="button" value="Apply"/>
--------------------	----------------------	--	--------------------------------------

1. Click on **Browse** to locate firmware file on host PC.
2. Click **Apply** to confirm modifications.

NOTE:

Press briefly on **Default** button to reset the device. Press and hold the button for at least 5 seconds to restore device to factory default settings.

Troubleshooting

Please refer to the following procedures if **CNP-WF514** does not function as it should be. Be advised that the following instructions are only intended for simply troubleshooting purpose. Please contact your local authorized shops for further troubleshooting and technical support.

- **Do not remember password.**

1. Press and hold the reset button on the front panel of device for more than 5 seconds.
2. Unplug power adapter and wait for 5 seconds before plugging it in again.

- **Device malfunctioning with cable/DSL modem connection.**

1. Please check signal stability from cable/DSL modem. There should be a signal indicator on the modem displaying its connection status. Contact ISP if the signal is bad.
2. Please check status indicators on the front panel of device. When working properly, the SYS indicator should be solid and the WAN indicator should be blinking. The LAN indicator(s) should also be blinking with corresponding PC(s) connect to the device.
3. Please verify that the network cables are working properly.
4. Enable DHCP server function. Please refer to LAN setup section
5. Reset the device as described at above section if all else failed.

- **Setup PC(s) to obtain IP address manually.**

The below instructions only refer to Windows XP version OS only. Please refer to OS manufacturer for other OS

1. Click on Start → Settings → Control Panel.
2. Click on Network and Internet Connections and then Network Connections.
3. Right click on Local Area Connection icon and select Properties.
4. Highlight Internet Protocol (TCP/IP) item and click on Properties.
5. Type in the following information on the corresponding properties:
 - IP address: 192.168.1.XXX where XXX is a number between 2 and 253.
 - Subnet mask: 255.255.255.0
 - Default gateway: 192.168.1.1
 - Preferred DNS server: 192.168.1.1
 - Alternate DNS server: leave this property blank.
6. Click on OK to confirm modifications.

Appendix

Technical Specifications

Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.11g, IEEE802.11b
Channels	13 Channels
Management Interface	Web Based
Network Ports	WAN: 1 X 10/100 RJ-45 Port LAN: 4 X 10/100 RJ-45 Ports (with switching function)
Cabling Type	Cat 5 Ethernet Network Cable
RF Power Output	15 ± 2dBm
Wireless Security	WPA/WPA2, WEP 64/128bit, Wireless MAC Filtering
LED Indicators	SYS, WLAN, LAN Link/Activity, WAN
Temperature	Operating: 0° to 40° C Storage: -20° to 70° C
Humidity	Operating: 10% to 85 % non-condensing Storage: 5% to 90 % non-condensing
Dimensions	135mm(L) X 95.4mm(W) X 28mm(H)
Weight	210g
Power	DC 9V, 700mA