

Server Router

11n Wireless Server Router 3R161N



User Manual Ver.1.0

Index

COPYRIGHT STATMENT	8
WARRANTY	8
FCC CAUTION	8
NCC DGT CAUTION	9
SAFTY SITTING POSTURE	9
CE STATEMENT OF CONFORMITY	10
CHAPTER 1 INTRODUCTION	10
1.1 OVERVIEW	10
1.2 THE LED LABEL	12
1.3 THE BACK OF THE SERVER ROUTER	13
1.4 HARDWARE SPECIFICATIONS	15
1.5 HOW TO OBTAIN IP ADDRESS AUTOMATICALLY UNDER WINDOWS XP	15
CHAPTER 2 HARDWARE SETUP	20
2.1 FIGURES FOR CONNECTING HARDWARES TO SERVER ROUTER	20
2.1.1 Hardwares Connection for Router Mode	20
2.1.2 Hardwares Connection for AP Mode	21
2.1.3 Hardwares Connection for Wi-Fi AP Mode	21
CHAPTER 3 ONE BUTTON SETUP CONFIGURATION	22
3.1 ONE BUTTON SETUP CONFIGURATION FOR ROUTER MODE	22
3.2 ONE BUTTON SETUP CONFIGURATION FOR AP MODE	25
3.3 ONE BUTTON SETUP CONFIGURATION FOR WiFi AP MODE	27
CHAPTER 4 QUICK SETUP FOR THE SERVER ROUTER	30
4.1 ROUTER MODE CONFIGURATION	32
4.1.1 Switch To Router Mode	32
4.2 QUICK SETUP FOR ROUTER MODE	32
4.2.1 Time Zone Setup	32
4.2.2 LAN Interface Setup	33
4.2.3 WAN Setup	33
4.2.3.1 WAN Interface– Ethernet Port	34
4.2.3.2 WAN Interface– Wireless	34
4.2.3.3 WAN Access Type – Static IP	35
4.2.3.4 WAN Access Type – Dynamic IP	36
4.2.3.5 WAN Access Type – PPPoE	37

4.2.3.6	WAN Access Type – PPTP.....	39
4.2.4	Wireless Setup	39
4.2.5	Wireless Security Setup	40
4.2.6	Quick Setup Complete	42
4.2.7	Folder Management.....	42
4.2.8	Partition / Format SysDisk.....	43
4.2.9	User Account Management.....	43
4.2.10	FTP Server.....	44
4.2.11	Printer Server.....	44
4.2.12	Webcam Server	45
4.2.13	Samba Server.....	45
4.3	AP MODE CONFIGURATIONS.....	46
4.3.1	Switch To AP Mode.....	46
4.4	QUICK SETUP FOR AP MODE	46
4.4.1	Time Zone Setup	47
4.4.2	Wireless Setup	47
4.4.3	Wireless Security Setup	48
4.4.4	Quick Setup Complete	49
4.4.5	Folder management	53
4.4.6	Partition / Format SysDisk.....	53
4.4.7	User Account Management.....	53
4.4.8	FTP Server.....	54
4.4.9	Printer Server.....	54
4.4.10	Web Camera.....	55
4.4.11	Samba Server.....	55
4.5	WiFi AP MODE CONFIGURATION	57
4.5.1	Switch To WiFi AP Mode	57
4.6	QUICK SETUP FOR WiFi AP MODE	58
4.6.1	Time Zone Setup	58
4.6.2	Wireless Site Survey And Security Setup.....	58
4.6.3	Wireless Security Setup	59
4.6.4	Quick Setup Complete	62
4.6.5	Folder Managemet.....	65
4.6.6	Partition / Format SysDisk.....	65
4.6.7	User Account Management.....	66
4.6.8	FTP Server.....	66
4.6.9	Printer Server.....	66
4.6.10	Web Camera.....	67

4.6.11 Samba Server.....	67
CHAPTER 5 ADVANCED CONFIGURATION FOR ROUTER MODE	68
5.1 IP CONFIG	68
5.1.1 WAN Interface Setup	68
5.1.1.1 WAN Interface – Ethernet Port.....	68
5.1.1.2 WAN Interface – Wireless	69
5.1.1.3 Static IP.....	70
5.1.1.4 Dynamic IP	72
5.1.1.5 PPPoE	74
5.1.1.6 PPTP.....	76
5.1.2 LAN Interface Setup.....	79
5.1.3 Dynamic DNS Setting	80
5.2 WIRELESS SETUP	81
5.2.1 Wireless Basic Settings	82
5.2.2 Wireless Advanced Settings	87
5.2.3 Wireless Security Setup	89
5.2.4 Wireless Access Control	93
5.2.5 WDS Settings	95
5.2.6 WPS	102
5.3 NAT	108
5.3.1 Visual Server.....	108
5.3.2 Visual DMZ	110
5.4 FIREWALL	111
5.4.1 Port Filtering.....	111
5.4.2 IP Filtering.....	114
5.4.3 MAC Filtering.....	114
5.4.4 URL Filtering	115
5.5 SERVER.....	116
5.5.1 Samba Server.....	116
5.5.1.1 How to enter the sharing floder	117
5.5.2 FTP Server.....	119
5.5.3 Webcam Server	120
5.5.3.1 Webcam Server Basic Setting.....	120
5.5.3.2 Webcam Server Advanced Setting	121
5.5.3.3 Application for Web Camera.....	122
5.5.4 Printer Server.....	128
5.5.4.1 Printer Setting on PC	129
5.6 SYSTEM MANAGEMENT	137

5.6.1	Change Password	139
5.6.2	Firmware Upgrade.....	139
5.6.3	Profiles Save	140
5.6.4	Time Zone Setting	145
5.6.5	UPnP Setting	146
5.5.6	Language Setting	147
5.5.7	User Account Management.....	148
5.5.8	Folder Management.....	149
5.6	LOG & STATUS	151
5.6.1	Network Config	151
5.6.2	Event Log	152
5.7	LOGOUT	153
CHAPTER 6 ADVANCED CONFIGURATION FOR AP MODE.....		154
6.1	IP CONFIG	154
6.1.1	LAN Setup	154
6.1.2	LAN Interface Setup.....	154
6.2	WIRELESS SETUP	156
6.2.1	Wireless Basic Settings	156
6.2.2	Wireless Advanced Settings	161
6.2.3	Wireless Security Setup	164
6.2.4	Wireless Access Control	167
6.2.5	WDS Settings	169
6.2.6	WPS	175
6.3	SERVER.....	181
6.3.1	Samba Server.....	181
6.3.1.1	How to Enter The Sharing Folder	182
6.3.2	FTP Server.....	184
6.3.3	Webcam Server	185
6.3.3.1	Webcam Server Basic Setting	185
6.3.3.2	Webcam Server Advanced Setting	186
6.3.3.3	Application for Webcam	187
6.3.4	Printer Server.....	193
6.3.4.1	Printer Setting for PC.....	193
6.4	SYSTEM MANAGEMENT	200
6.4.1	Change Password.....	201
6.4.2	Firmware Upgrade.....	202
6.4.3	Profiles Save	203
6.4.4	Time Zone Setting	208

6.4.5	UPnP Setting	209
6.4.6	Language Setting	210
6.4.7	User Account Management.....	211
6.4.8	Folder Management.....	212
6.5	LOG & STATUS	213
6.5.1	Network Config	214
6.5.2	Event Log	214
6.5	LOGOUT	216
CHAPTER 7	ADVANCED CONFIGURATION FOR WIFI AP MODE.....	217
7.1	IP CONFIG	217
7.1.1	IP Config - LAN.....	217
7.1.2	LAN Interface Setup	217
7.2	WIRELESS SETUP	219
7.2.1	Wireless Basic Setting.....	219
7.2.2	Wireless Advanced Settings	222
7.2.3	Wireless Site Survey	224
7.2.4	Wireless Security Setup	225
7.2.5	Access Control.....	229
7.2.6	WPS	231
7.3	SERVER.....	239
7.3.1	Samba Server.....	239
7.3.1.1	How to Enter Sharing Folder	240
7.3.2	FTP Server.....	241
7.3.3	Webcam Server	242
7.3.3.1	Webcam Basic Setting	242
7.3.3.2	Webcam Advanced Setting.....	243
7.3.3.3	Application for Webcam	245
7.3.4	Printer Server.....	250
7.3.4.1	Printer Setting for PC.....	251
7.4	SYSTEM MANAGEMENT	258
7.4.1	Change Password.....	259
7.4.2	Firmware Upgrade.....	260
7.4.3	Profiles Save	261
7.4.4	Time Zone Setting	266
7.4.5	UPnP Setting	267
7.4.6	Language Setting	268
7.4.7	User Account Management.....	269
7.4.8	Folder Management.....	270

7.5	LOG & STATUS	272
7.5.1	Network Config	272
7.5.2	Event Log	273
7.6	LOGOUT	274
CHAPTER 8	DDNS ACCOUNT SETUP.....	276
CHAPTER 9	Q & A.....	281
9.1	INSTALLATION.....	281
9.2	LED LIGHTS.....	283
9.3	IP ADDRESS	284
9.4	OPERATING SYSTEM SETTINGS.....	284
9.5	SERVER ROUTER SETUP.....	286
9.6	WIRELESS NETWORK	287
9.7	SUPPORTS	290
9.8	OTHERS	290
CHAPTER 10	APPENDIX.....	291
10.1	OPERATING SYSTEM	291
10.2	BROWSERS	291
10.3	UTILITY	291

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Warranty

One-Year Warranty is provided for consumer products. This warranty is subject to the conditions and limitations set forth herein. ("We") warrants and tests the Product to be free from defects in material and workmanship and to conform to published specifications. During the warranty period, should the Product fail under normal use in the recommended environment due to improper workmanship or materials, we will repair the Product or replace it with a comparable one. This warranty is for a specific period of time from the date of purchase. Proof of date of purchase is required. We will inspect the Product and make the decision regarding repair or replacement. We reserve the right to provide a functionally equivalent refurbished replacement Product.

This warranty does not apply to Product failure due to :

1. accident, abuse, and mishandling
2. any software against product manual
3. improper installation
4. any unfitted replacement
5. over allowable environment
6. alteration
7. improper usage
8. wires or parts oxidized
9. for testing usage

FCC Caution

This device 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.

Note: This product will contain two RJ-45 LAN cables with clamp-on type ferrite cores to prevent EMI.

NCC DGT Caution

Article 12

Without permission granted by the DGT, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to an approved low power radio-frequency devices.

Article 14

The low power radio-frequency devices shall not influence aircraft security and interfere legal communications; If found, the user shall cease operating immediately until no interference is achieved.

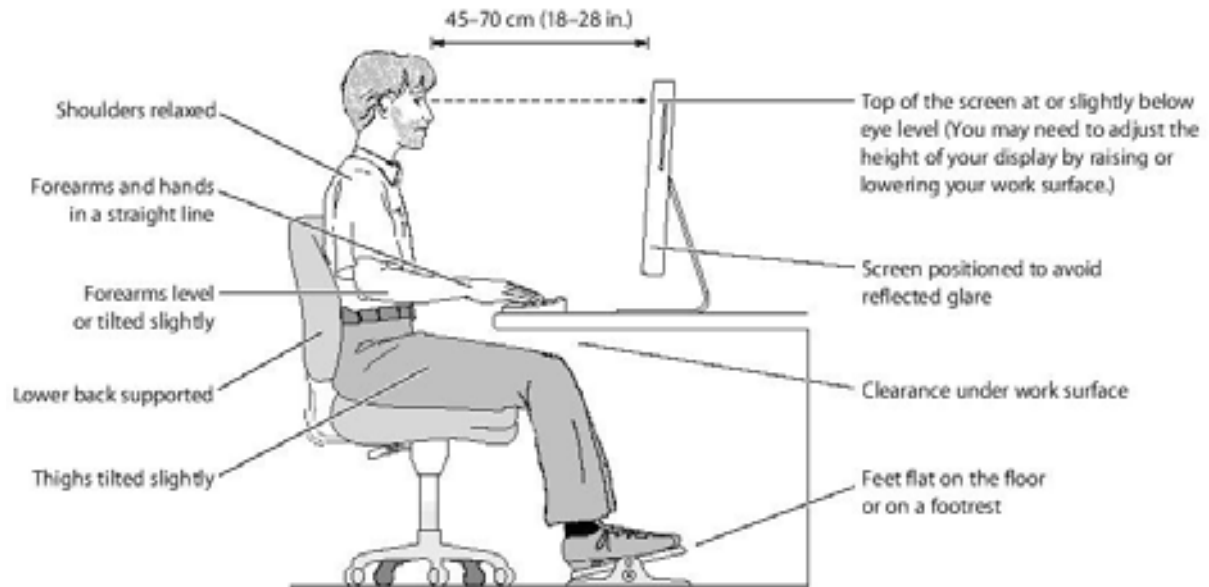
The said legal communications means radio communications is operated in compliance with the Telecommunications Act.

The low power radio-frequency devices must be susceptible with the interference from legal communications or ISM radio wave radiated devices.

Safety sitting posture

You should choose an adjustable chair, comfortable is the key. You should follow the manufacturer's instructions for adjusting the backrest to fit your body properly. Following is the explanation of the picture.

- λ Shoulders relaxed, and forearms and hands in a straight line.
- λ Lower back support and thighs tilted slightly.
- λ Top of the screen at or slightly below eye level.
- λ Screen positioned to avoid reflected glare.
- λ Clearance under work surface.
- λ Feel flat on the floor.
- λ The distance between you and the monitor should be 45~70 cm (18~28 inch).



CE Statement of Conformity

Our product has been tested in typical configuration by Ecam Sertech Corp and was found to comply with the essential requirement of "Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility" (89/336/EEC; 92/31/EEC; 93/68/EEC)

Chapter 1 Introduction

1.1 Overview

The main feature of Server Router is to combine Router、AP、WiFi AP three functions in one unit. Users can switch between 3 operation modes by using a switch for different purpose. While several computers are sharing Internet connection, they can use firewall and WEP/WPA/WPS security system to protect network. Server Router is designed for both home and enterprise use, provided with high security, reliability, and easy to operate solutions for network.

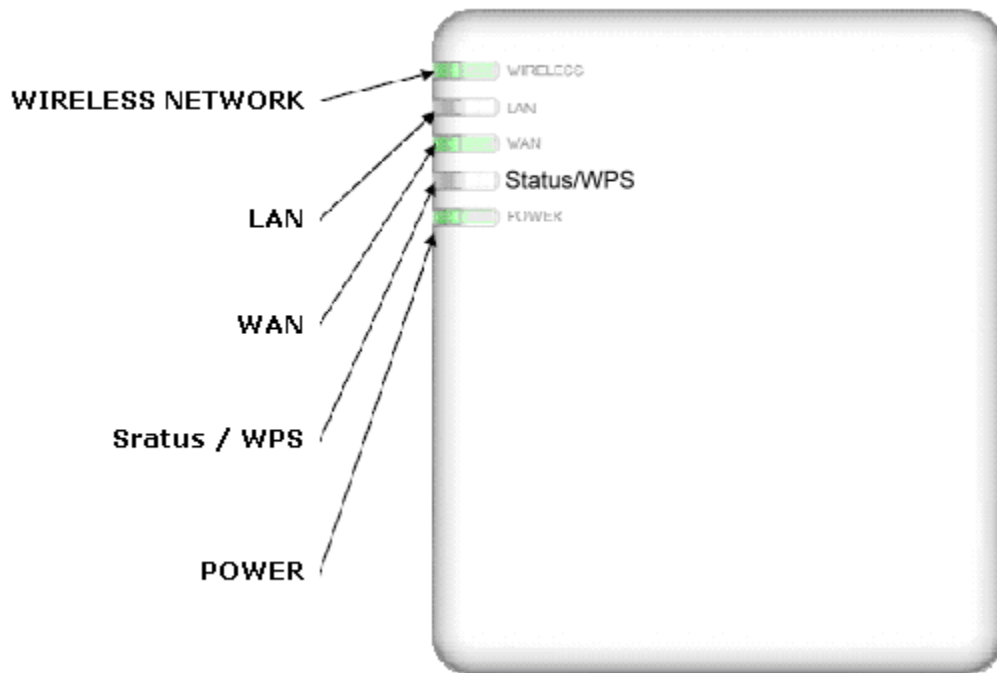
1.1.1 Features

- **Cautious management** : Server Router has cautious settings for Wireless security and firewall. Secure the customer data safety on network also provides a tight management system.

- **Easy to operate** : Server Router has a friendly user interface; it can lead users to finish settings easily and quickly step by step. Users without knowledge of complex network theory can still use higher management functions like Multiple APs.
 - **Multi-language PC Utility setting interface** : Installed on computer. Users can easily connect to the network by following the instruction of setup wizard step by step. Multi-language interface supports :
Arabic 、 English 、 French 、 German 、 Italian 、 Japanese 、 Korean 、 Portuguese 、 Russian 、 Spanish 、 Simplified Chinese 、 Traditional Chinese.
 - **USB Device Supports** : Server Router can share files to other users in local area network through Samba service. With a webcam it can become a real-time surveillance tool. Server Router can also become a FTP server by connecting with USB drives.
 - **One Touch for wireless encryption connection** : Server Router has a WPS button; the encryption for wireless network is just need "One Touch".
 - **Multiple wireless network modes** : Server Router provides 3 wireless modes: Router / AP / WiFi AP. It is not just a Server Router; it can also be a bridge or a wireless network card. To base on different conditions, users can switch between 3 operating modes. Multiple mode choices make operation more flexible.
-

1.2 The LED label

The Front of the Server Router:

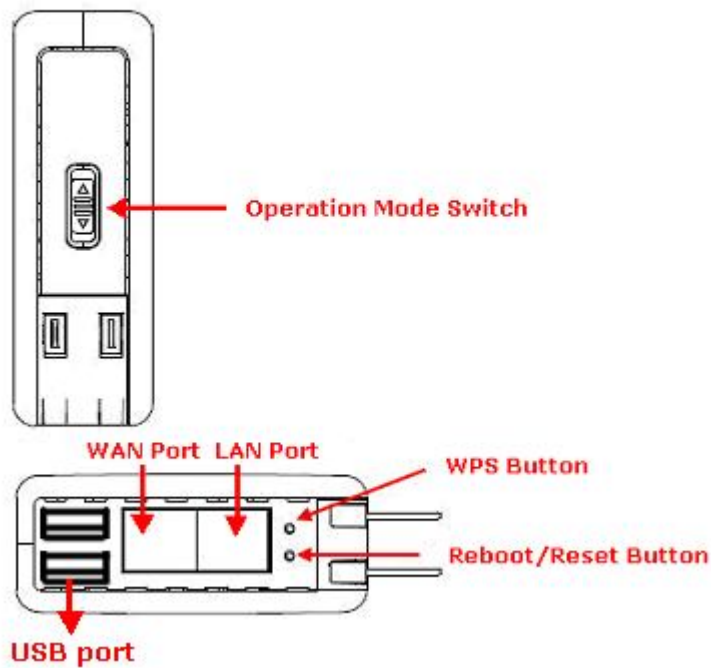


You can use the status lights on the front of the wireless router to verify various conditions:

LED	Function	Color	Status	Description
WLAN x 1	WLAN port activity	Green	On	WLAN active
			Blinking 30ms	WLAN data transmit/receive
LAN x 1	LAN port activity	Green	On	Connected at 100Mbps
			Blinking 30ms	100Mbps TX/RX Activity
		Green	On	Connected at 10Mbps
			Blinking 120ms	10Mbps TX/RX Activity
WAN x 1	WAN port activity	Green	On	Connected at 100Mbps
			Blinking 30ms	100Mbps TX/RX Activity
		Green	On	Connected at 10Mbps
			Blinking 120ms	10Mbps TX/RX Activity
Status & WPS x 1	System status & WPS start	Green & Orange	Blinking 120ms	Green : Reset / Firmware updates in progress Orange : WPS function start
Power x 1	Power indication	Green	On	Power is being applied to this product

1.3 The Back of the Server Router

The back of the Server Router has the following port connections:



(1.) Operation Mode Switch

Users can switch between Router, AP, and WiFi AP mode.

(2.) LAN port

LAN port is for connecting your PC, printer server, or switch, etc.

(3.) WAN port

WAN port is for connecting to an xDSL or CABLE modem.

(4.) Reset button

This button is for resetting Server Router back to factory default settings. When a user hold the reset button over 5 seconds, everything is back to factory default settings; if user just hold for 1 seconds, this machine will only reboot, not reset to factory default settings.

(5.) USB port

Users can connect with USB thumb drive or webcam.

1.4 Hardware Specifications

The following table provides technical specifications for the Server Router:

Item	Specification
Communication Interfaces	
WAN Port	1 x 10/100 Mbps RJ45, with auto MDI/MDIX
LAN Port	1 x 10/100 Mbps RJ45, with auto MDI/MDIX
Wireless	IEEE 802.11n (Chipset onboard)
Others	
Operation Requirement	Operating Temp. 0° to 40°C (32° to 10°F) Storage Temp. -20° to 70°C (-4° to 158°F) Operating Humidity 10% to 85% Non-Condensing Storage Humidity 5% to 90% Non-Condensing
Session	5000
Antenna	Internal X1
Peak Gain of the Antenna	<u>2dBi @ 2.45GHz</u>
Transmitted Power	21.8+-0.5dBm
Receive Sensitivity	Nominal Temp Range: 11Mbps: 10-5 BER @ -83 dBm, TYP.
Dimensions	150mm(L) x 150mm(W) x 33mm(H)
Button	Reboot button / Reset button – hold for 1second to reboot, hold for 5 seconds is to reset. WPS button – When push the WPS button, the system is entering the WPS connection mode.
Power supply	Adapt AC 100 V ~ 240 V in / DC5V 1.5A output
Device Weight	TBD

Note: This product will contain two RJ-45 LAN cables with clamp-on type ferrite cores to prevent EMI.

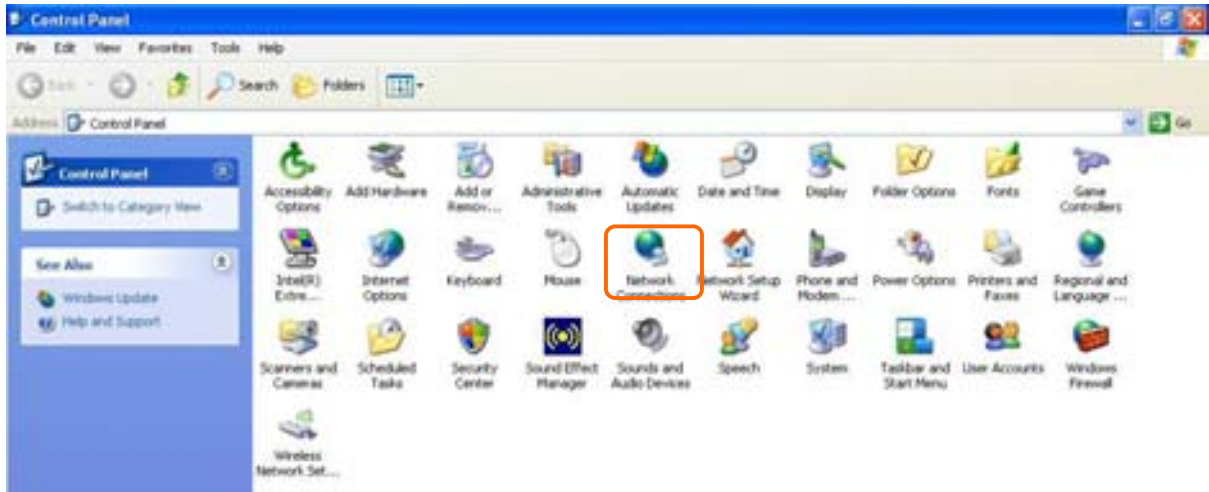
1.5 How to obtain IP address automatically under Windows XP

Please follow the instructions to operate:

(1.) From the **Start** menu, select **Settings**, and then **Control Panel**.



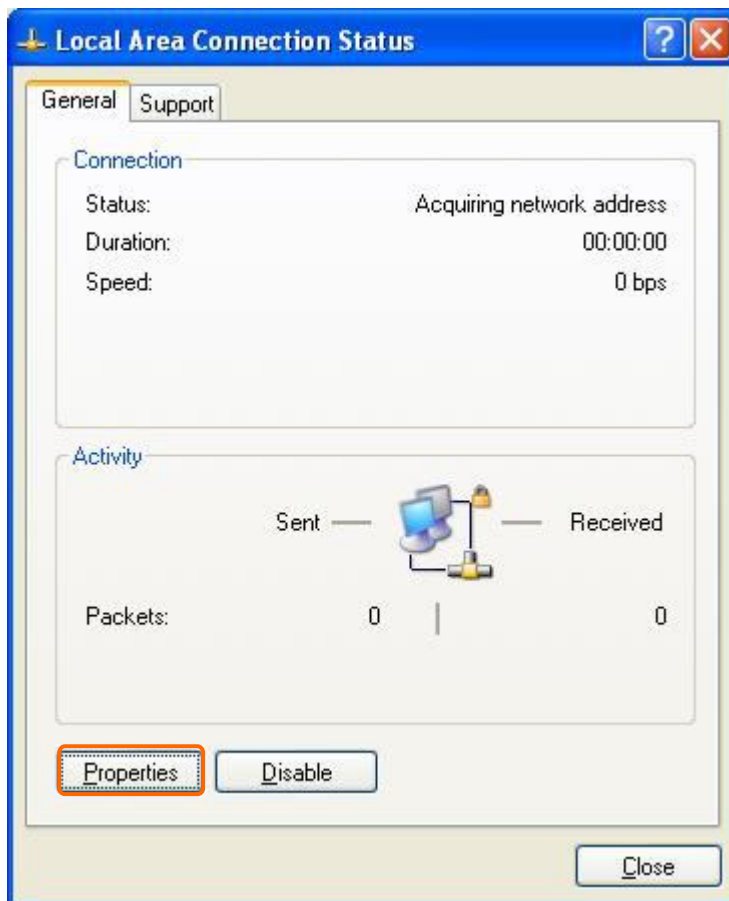
(2.) Double-click **Network Connections**.



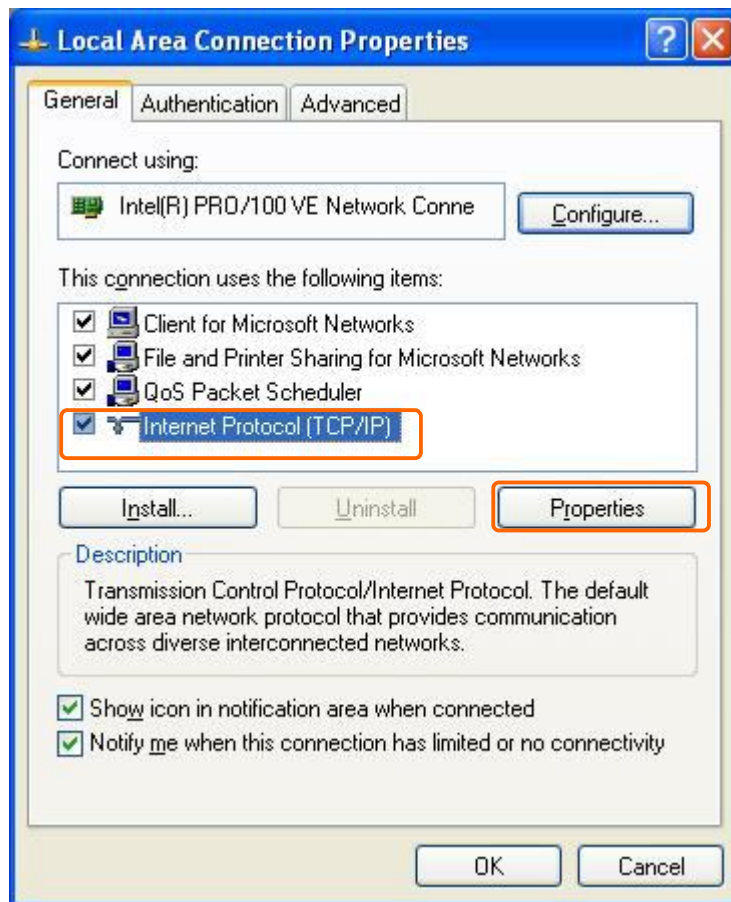
(3.) Double-click **Local Area Connection**.



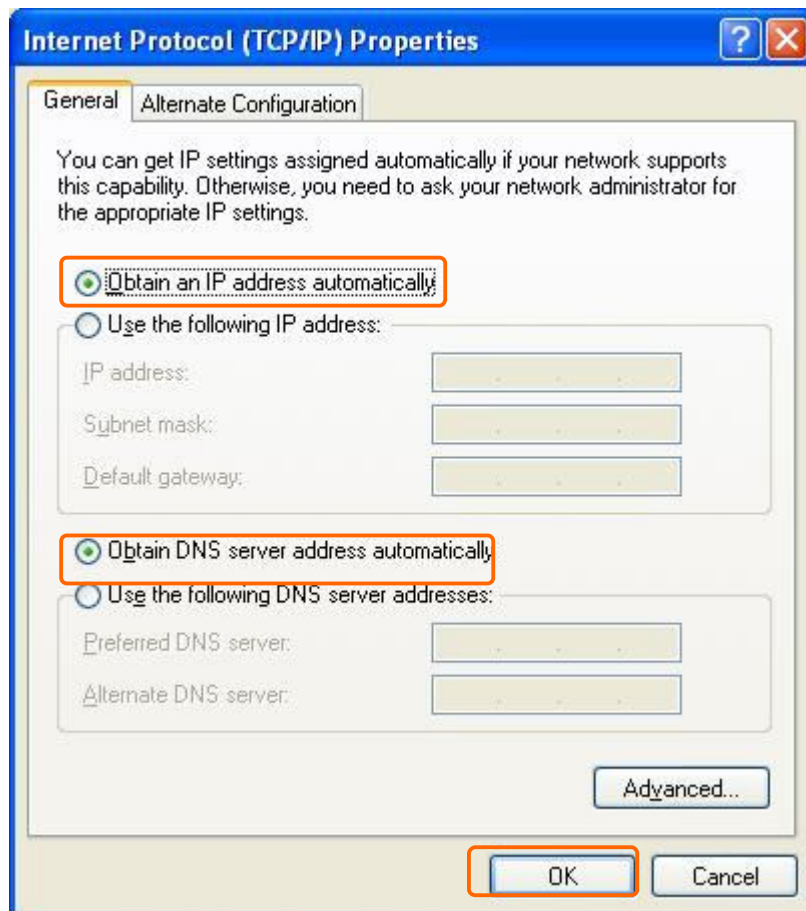
(4.) Please click **Properties**



- (5.) From the **General** tab, click **Internet Protocol (TCP/IP)**, make sure it is checked, and then click **Properties**.



- (6.) Please select **Obtain an IP address automatically** and **Obtain a DNS server address automatically** and then click **OK**.



Caution : You must make sure that the IP address your computer obtained is from the Server Router's DHCP server.

Chapter 2 Hardware Setup

2.1 Figures for Connecting Hardwares to Server Router

The Server Router is an easy to carry and wireless device for business men. It can be used in conference room, hotel, even at hotspots. Server Router is small and light, with various functions; use switch to change mode between router, AP, and Wi-Fi AP mode. Server Router also supports USB devices like webcam, USB thumb drive, printer, and adapter.

Note : Please turn off the power and wait 5 seconds to switch and turn back on.

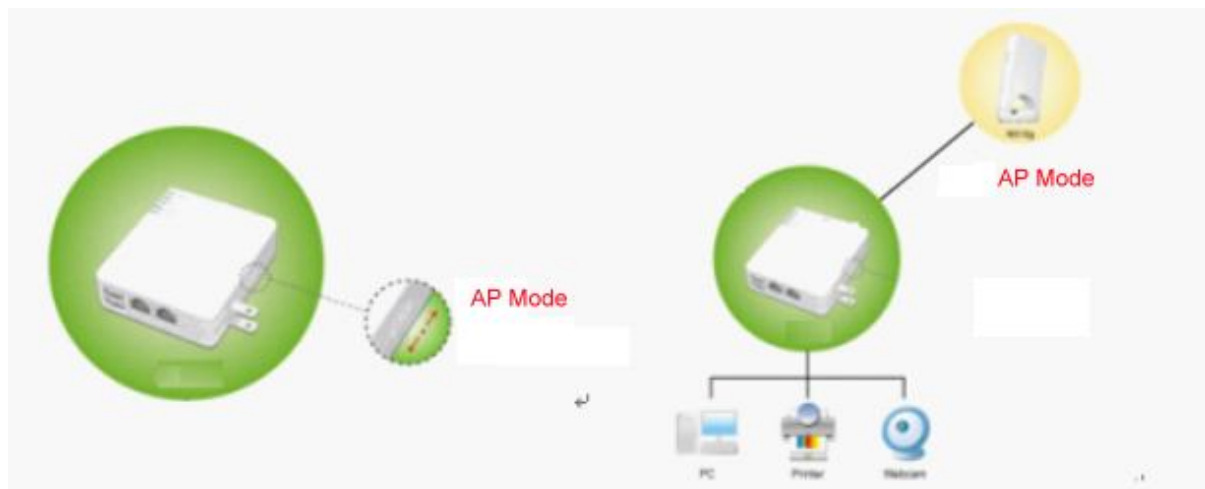
2.1.1 Hardwares Connection for Router Mode

In router mode, administrator can manage the settings for WAN, LAN, Wireless network, NTP, password, USB drives, user accounts, firewall, QoS, FTP server, webcam, printer server, and SAMBA, etc.



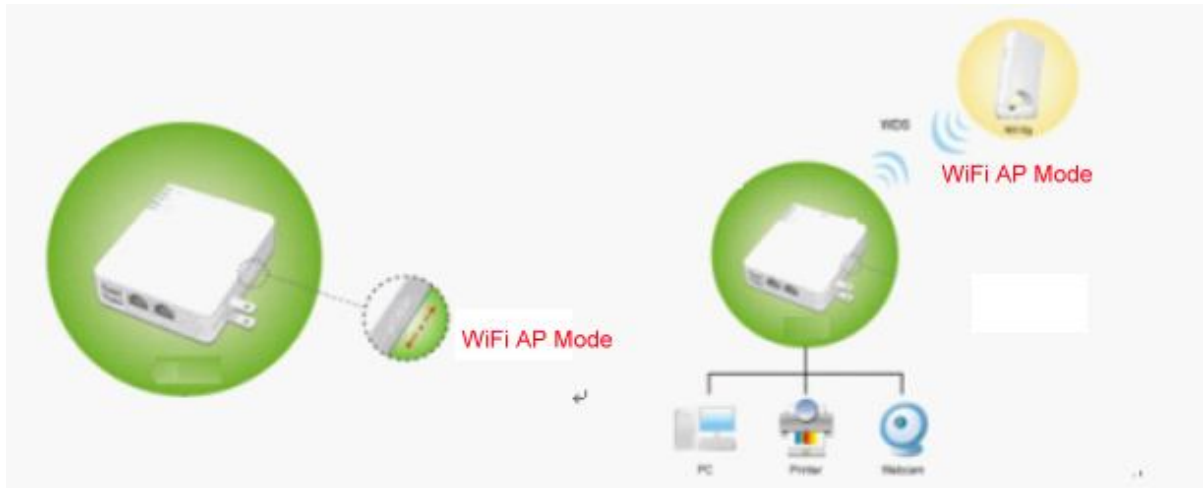
2.1.2 Hardwares Connection for AP Mode

In AP mode, Server Router becomes a bridge to support 1 local area network. Users can use wired way to connect to Server Router. administrator can manage the settings for LAN, Wireless network, NTP, password, USB drives, user accounts, FTP server, webcam, printer server, and SAMBA, etc.



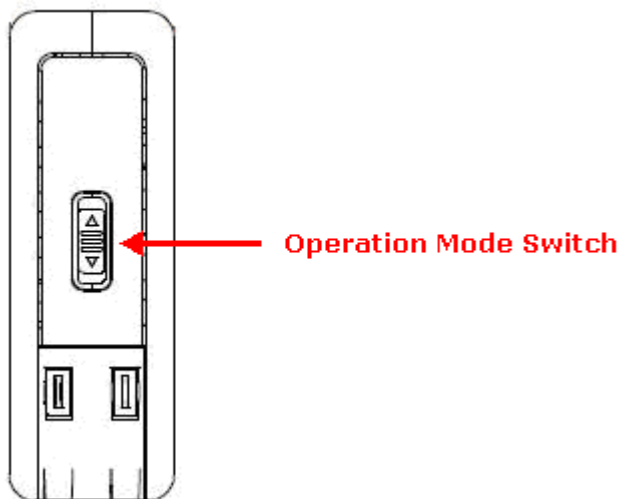
2.1.3 Hardwares Connection for Wi-Fi AP Mode

In Wi-Fi AP mode, Server Router becomes a bridge to support 1 local area network. Users can use wireless way to connect to Server Router. administrator can manage the settings for LAN, Wireless network, NTP, password, USB drives, user accounts, FTP server, webcam, printer server, and SAMBA, etc.

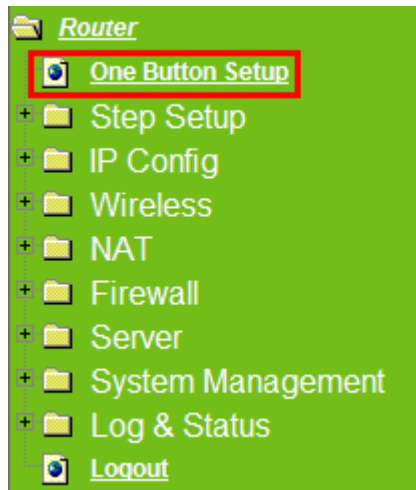


Chapter 3 One Button Setup Configuration

Server Router provide **One Button Setup** function, users can finish settings in a single page. After users switch modes and reboot the machine, they will enter this page to finish configurations.



3.1 One Button Setup configuration for Router Mode



Please select **One Button Setup** in Router Mode.

Router One Button Setup

This page is used to configure all of the server router function for first time.

Time Zone Select

Time Zone Select : (GMT+08:00) Taipei

Change Password

New Password:

Device Name

Device Name: Server_Router_0421ff

WAN Interface Setup

WAN Interface : Ethernet Port

Wireless Setup

SSID: Server_Router_0421ff

Encryption: None

Partition / Format SysDisk

Disk format selected: Yes No

Type selected: FAT16/32 NTFS EXFAT

User Account Management

User Name	Password	Access Right	
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Webcam Server	<input type="checkbox"/> FTP Server
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Webcam Server	<input type="checkbox"/> FTP Server
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Webcam Server	<input type="checkbox"/> FTP Server

Finished >>

1. Time Zone Select

Please select the time zone which you are at.

2. Change Password

Please enter the new password.

3. Device Name

Please enter the device name you want to assign to Server Router.

4. WAN Interface Setup

Please choose the interface type.

5. WAN Type Setup

Please choose the access type.

6. Wireless Setup

You can assign the SSID and Encryption type.

7. Partition / Format SysDisk

Users can format or partition their USB drives.

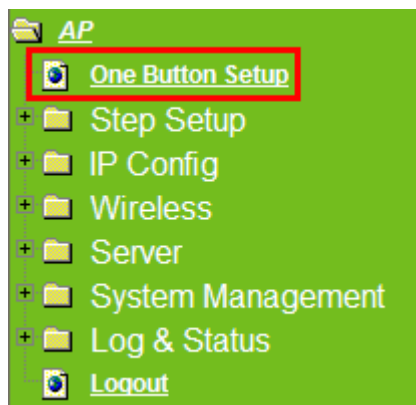
8. User Account Management

Users can create user accounts and their privilege.

9. Finished

Please click **finished** button to complete the setting.

3.2 One Button Setup configuration for AP Mode



Please select **One Button Setup** in AP Mode.

AP One Button Setup

This page is used to configure all of the server router function for first time.

Time Zone Select
 Time Zone Select: (GMT+08:00) Taipei

Change Password
 New Password:

Device Name
 Device Name: Server_Router_0421H

Wireless Setup
 SSID: Server_Router_0421H
 Encryption: None

Partition / Format SysDisk
 Disk format selected: Yes No
 Type selected: FAT16/32 NTFS EXT3

User Account Management

User Name	Password	Access Right	
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Webcam Server	<input type="checkbox"/> FTP Server
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Webcam Server	<input type="checkbox"/> FTP Server
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Webcam Server	<input type="checkbox"/> FTP Server

1. Time Zone Select

Please select the time zone which you are at.

2. Change Password

Please enter the new password.

3. Device Name

Please enter the device name you want to assign to Server Router.

4. Wireless Setup

You can assign the SSID and Encryption type.

5. Partition / Format SysDisk

Users can format or partition their USB drives.

6. User Account Management

Users can create user accounts and their privilege.

7. Finished

Please click **finished** button to complete the setting.

3.3 One Button Setup configuration for WiFi AP Mode



Please select **One Button Setup** in WiFi AP Mode.

WiFi AP One Button Setup

This page is used to configure all of the server router function for first time.

Time Zone Select

Time Zone Select : (GMT+08:00) Taipei

Change Password

New Password:

Device Name

Device Name: Server_Router_0d21#

Wireless Site Survey Setting

SSID	BSSID	Channel	Type	Encrypt	Signal	Select
0ad_foxm_LAN	00:0d:10:21:33:05	1 (B+G)	AP	w	61	<input checked="" type="radio"/>
Net_Fi06g_5	00:14:8f:0169:26	6 (B+G)	AP	w	60	<input type="radio"/>

Encryption: None

Extended Wireless Setup

Extended SSID: Server_Router_0d21#

Encryption: None

Partition / Format SysDisk

Disk format selected: Yes No

Type selected: FAT16/32 NTFS EXFAT

User Account Management

User Name	Password	Access Right	
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Webcam Server	<input type="checkbox"/> FTP Server
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Webcam Server	<input type="checkbox"/> FTP Server
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Webcam Server	<input type="checkbox"/> FTP Server

1. Time Zone Select

Please select the time zone which you are at.

2. Change Password

Please enter the new password.

3. Device Name

Please enter the device name you want to assign to Server Router.

4. Wireless Site Survey Setting

Please select wireless network you want to connect and the encryption type.

5. Extended Wireless Setup

You can assign the SSID and Encryption type.

6. Partition / Format SysDisk

Users can format or partition their USB drives.

7. User Account Management

Users can create user accounts and their privilege.

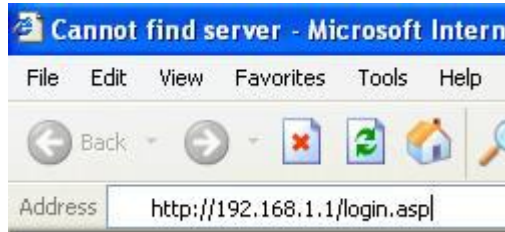
8. Finished

Please click **finished** button to complete the setting.

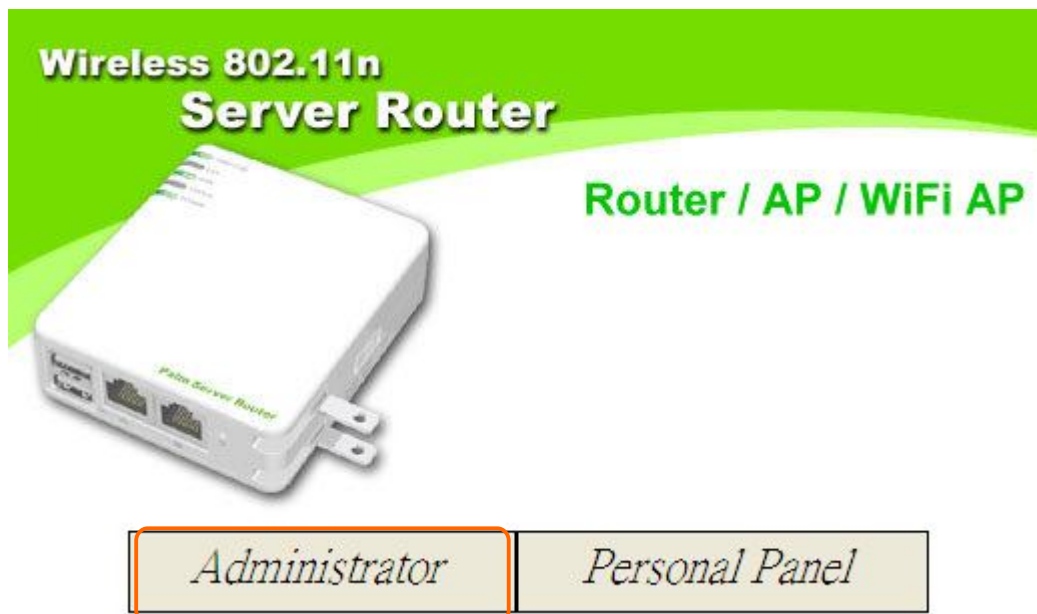
Chapter 4 Quick Setup for the Server Router

There are two ways to enter Server Router administration page:

1) Please open IE browser and then enter <http://192.168.1.1>.



Homepage



Please click on "**Administrator**".

The login page will show up.



Enter username and password, both default are **admin**, then click **login** to enter product main page.

2) The default UPnP of Server Router is ON. When users connect Server Router to their PC, and icon will show up in the right-down corner.



Click the **Internet Gateway Device** to open the login page.



4.1 Router Mode Configuration

Caution : Quick Setup is not completed unless users finish all settings and click **Finished** button.

Server Router combines Router and AP to one, supports wire or wireless connecting type with ISP. It also has NAT and DHCP functions to let multiple computers using network at the same time. Wireless WAN supports Site Survey. BR360 has WPS function for easy and secure establishment of wireless network.

4.1.1 Switch To Router Mode

Server Router has an operation switch. It can let users switch between router, AP, and WiFi AP mode. Users must unplug the Server Router from the power outlet and make sure that the power is off. Switch to Router mode, and plug it back in power outlet.

Caution: Switch mode under power supply will make Server Router crash, and cause internal damage and information lose.

4.2 Quick Setup for Router Mode

Click on Step Setup in the left screen of the main menu. Then you'll see the **Basic** and **Application** selecting screen appears and do the setting for each items.



4.2.1 Time Zone Setup

You can select **Enable NTP client update** to maintain the system time.



4.2.2 LAN Interface Setup

It can let multiple local network computers connect to the Internet at the same time. The default IP address is 192.168.1.1. Please click **Next** after finished entering.



4.2.3 WAN Setup

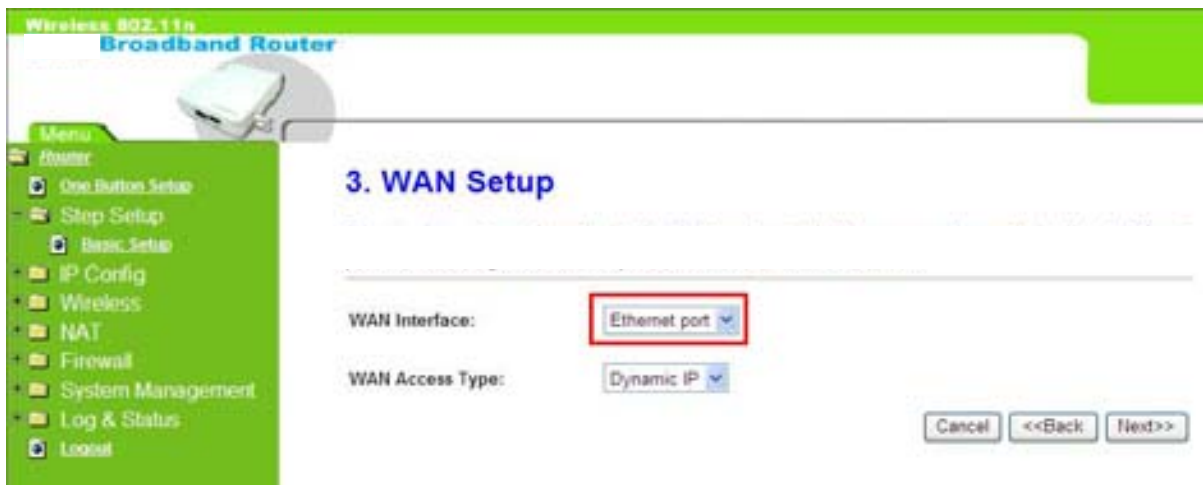
Server Router supports two interfaces and four access types, users can select the options in this page.



Please click **Next** after finished selecting.

4.2.3.1 WAN Interface– Ethernet Port

If Server Router is connecting to the Internet through Ethernet cable, please select **Ethernet port**.



4.2.3.2 WAN Interface– Wireless

If Server Router is connecting to the Internet through wireless, please select **Wireless**.



3. WAN Setup

WAN interface:

SSID	BSSID	Channel	Type	Encrypt	Signal	Select
Xmi1_Router_LAN	00:04:f0:21:33:05	1 (B-G)	AP	no	61	<input type="radio"/>
Navi_R626g_5	00:14:55:d0:b9:26	6 (B-G)	AP	no	60	<input type="radio"/>

Encryption:

WAN Access Type:

The Wireless network which searched by Server Router will display on this page. Users can select the desired wireless network and Encryption type to connect.

4.2.3.3 WAN Access Type – Static IP

If your ISP provides static IP, and you do not need to enter username and password, please select **Static IP**. Enter the information which ISP provides then click **Next**.

3. WAN Setup

WAN Interface:	<input type="text" value="Ethernet port"/>
WAN Access Type:	<input type="text" value="Static IP"/>
IP Address:	<input type="text" value="172.1.1.1"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>
Default Gateway:	<input type="text" value="172.1.1.254"/>
DNS:	<input type="text"/>

Please enter the information which ISP provides.

Users need to enter DNS information, or they can't look up Domain name.

4.2.3.4 WAN Access Type – Dynamic IP

Please select **Dynamic IP** to obtain IP address automatically from your ISP.

3. WAN Setup

WAN Interface:

WAN Access Type:

Please click **Next** to enter the next page.

4.2.3.5 WAN Access Type – PPPoE

If your Internet service type is PPPoE, please select **PPPoE**. You must input username and password which ISP provides.

3. WAN Setup

WAN Interface:

WAN Access Type:

User Name:

Password:

Please input the username and password which ISP provides.

Please click **Next** to enter the next page.

4.2.3.6 WAN Access Type – PPTP

If your Internet service type is PPTP, please select **PPTP**. You need to enter username, password, IP address, Subnet Mask, and Server IP address.

3. WAN Setup

WAN Interface:	<input type="text" value="Ethernet port"/>
WAN Access Type:	<input type="text" value="PPTP"/>
IP Address:	<input type="text" value="172.1.1.2"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>
Server IP Address:	<input type="text" value="172.1.1.1"/>
User Name:	<input type="text"/>
Password:	<input type="text"/>

All input fields are required.

Please click **Next** to enter the next page.

4.2.4 Wireless Setup

The first step to setup wireless interface is to assign SSID, the default name is **Server_Router**. Please follow the instructions to setup.



5. Wireless Setup

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

SSID:

Channel Number:

Encryption:

4.2.5 Wireless Security Setup

The Encryption is a free choice option, it has two main types: **WEP** and **WPA**. If you want to protect your transmitting data, you can select it base on the needs. Please follow the instructions to complete wireless security setup.

a. Wireless Security Setup — WEP

5. Wireless Setup

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

SSID:

Channel Number:

Encryption:

Key Length:

Key Format:

Key Setting:

Low level (64-bit) and High level (128-bit) 10 characters or 26 characters.

The options in **Key Length** column: 26 Hex characters (0~9, a~f, and A~F). It is decided by the choice of **WEP-64bits** or **WEP-128bits**. E.g.: WEP-64bits key= 10 Hex characters (0~9, a~f, and A~F); WEP-128bits key= 26 Hex characters (0~9, a~f, and A~F); the Key Setting is the password needs to be input after the selections.

a. Encryption – WEP

(1.) Key Length: Activate WEP encryption to protect your information from stealing by others. The Server Router supports 64bits and 128bits.

(2.) Key Format: For 64bits WEP key format, it can include 5 ASCII characters or 10 Hex characters. For 128bits WEP key format, it can include 13 ASCII characters or 26 Hex characters.

**Note: 128 bits – WEP encryption is very safe, but there are other encryptions safer. Please to understand that all wireless devices must have the same WEP key length and format.*

b. Wireless Security Setup – WPA (WPA、WPA2 & WPA2 Mixed)

WPA (Wi-Fi Protected Access) is a system to protect wireless network security. To prevent hackers, WPA uses TKIP or AES to change key frequently.

Passphrase:

The Pre-Shared Key format is ASCII Code, and the length is 8-63 bytes(at least 8 bytes)。

Hex:

Users can input 64 Hex bytes(0~9, a~f, or A~F)。

5. Wireless Setup

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

SSID:	<input type="text" value="Server_Router"/>
Channel Number:	<input type="text" value="11"/>
Encryption:	<input type="text" value="WPA(TKIP)"/> → PlESE select one.
Pre-Shared Key Format:	<input type="text" value="Passphrase"/> Passphrase: the length of the Key is 8-63 bytes.
Pre-Shared Key:	<input type="text"/> Hex: the length of the Key is 64 bytes.
<input type="button" value="Cancel"/> <input type="button" value=" <<Back"/> <input type="button" value=" Finished >>"/>	

Please click "**Finished**" to finish the setup.

4.2.6 Quick Setup Complete

When you see this screen, it means the quick setup is completed.



Change setting successfully!

System is configuring, after 24 seconds system will return to the previous page.

The system will reboot automatically after users complete the quick setup, then back to setup main page.

Application Setup Selection

- Click "Application" button to begin setup including Folder Management Setup, User Account Management Setup, FTP Server Setup, Printer Server Setup, Web Camera Setup and Samba Server Setup.

4.2.7 Folder Management

Easy to check all the USB storage devices connected to your Server Router, view

the entire data folder inside each storage devices, and you can do the disk formatting via click on the button in this page.

Folder Management

You can specify which USB storage to be System Disk.

USB Device Name

SysDisk	Disk	TYPE	Capacity	Free Space	Function
<input checked="" type="radio"/>	USB A	Unknown	63MB	39MB	<input type="button" value="Unplug"/>

Partition / Format SysDisk

All existing data and partitions on the HDD will be DESTROYED ! Make sure you really need to do this !

Disk format selected: Yes No
TYPE: FAT16/32 NTFS EXT3

Please click on "**Next**" to continue.

4.2.8 Partition / Format SysDisk

Select the USB Disk and click on "**OK**" button for refresh all disks before you do disk partition, and the "**Unplug**" button will appear. To partition/format the disk, please select the disk and click on "**Format**" button. Moreover, if you want to view the data inside the disk, please go to "4.2.11 FTP Sever Setup" to enable FTP server and then click on "**Disk Explorer**" to view all disks folder inside the device.

4.2.9 User Account Management

Personal users can use each individual application such as My Status, My Webcam and My Document. This section is to set the user's right. Also, all the users right will be showed in User Account List and can do the edit or delete by clicking the meaning text.

User Account Management

You can add user account in this page.

User Name	Password	Access Right	
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Webcam Server	<input type="checkbox"/> FTP Server
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Webcam Server	<input type="checkbox"/> FTP Server
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Webcam Server	<input type="checkbox"/> FTP Server

Please click on "**Next**" to continue.

4.2.10 FTP Server

Server Router can be the FTP Server provides users to transmit files, also for the guest can download the files from assign website. Moreover, by connecting USB HDD, USB Flash to the router, user can easily set up a FTP Server to share or download files for local or remote users.

FTP Server

You can enabled or disabled FTP server function in this page.

Enable FTP Server: Enabled Disabled

Enable Anonymous to Login: Enabled Disabled

Enable FTP Access from WAN: Enabled Disabled

Please click on "**Next**" to continue.

4.2.11 Printer Server

Server Router supports printers. Printer Server will be shown as Enable, therefore users can use Printer features from LAN. This function is disabled if there is no printer connecting to Server Router.

Print Server

You can enable or disable print server function in this page.

Enable Printer Server:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Enable Access from WAN:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Printer Model:	hp deskjet 1180c
Printer Name:	<input type="text"/>

Please click on "**Next**" to continue.

4.2.12 Webcam Server

If you plan to use the Server Router as a Web Camera site, connect a supported USB Web Camera to the USB port of the Server Router. To enable the webcam server and access from WAN as demand, and the Image format is set to 320X240.

WebCam Server

You can enable or disable WebCAM server function in this page.

Enable Webcam:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Access from WAN:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Image format:	320x240

Please click on "**Next**" to continue.

4.2.13 Samba Server

Support NetBIOS protocol, the consumer sharing file and printer which provides as the My Network Places.

Samba Server

You can enable or disable Samba server function in this page.

Enable Samba Server: Enabled Disabled

Workgroup Name:

Please click on "**Finished**" to complete settings.

4.3 AP Mode Configurations

Connect to AP or wired Internet, and then provides wired and wireless internet bridge service for bottom level users. The AP mode doesn't support NAT. The Server Router is simply using Ethernet port to connect to the upper level device and receive the IP address from it. The Server Router will use the default IP address or is defined by users if the upper level device does not give one.

4.3.1 Switch To AP Mode

Server Router has an operation switch. It can let users switch between router, AP, and WiFi AP mode. Users must unplug the Server Router from the power outlet and make sure that the power is off. Switch to AP mode, and plug it back in power outlet.

Caution: Switch mode under power supply will make Server Router crash, and cause internal damage and information loss.

4.4 Quick Setup for AP Mode

Please Click **Next** to enter the next page.

AP Basic Setup

The setup wizard will guide you to configure access point for first time. Please follow the setup wizard step by step.

Welcome to Setup Wizard.

The Wizard will guide you the through following steps. Begin by clicking on Next.

1. Time Zone and Device Name Setup
2. Wireless Setup

[Next>>](#)

4.4.1 Time Zone Setup

You can select **Enable NTP client update** to maintain the system time.

1. Time Zone and Device Setup

You can maintain the system time by synchronizing with a public time server over the Internet.

Enable NTP client update

Time Zone Select: (GMT-08:00) Pacific Time

NTP server: 192.5.41.41 - North America

Device Name:

[Cancel](#) [<<Back](#) [Next>>](#)

4.4.2 Wireless Setup

The first step to setup wireless interface is to assign SSID, the default name is **Server_Router**. Please follow the instructions to setup.

2. Wireless Setup

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

SSID:

Channel Number: 11

Encryption: None

[Cancel](#) [<<Back](#) [Finished>>](#)

4.4.3 Wireless Security Setup

The Encryption is a free choice option, it has two main types: **WEP** and **WPA**. If you want to protect your transmitting data, you can select it base on the needs. Please follow the instructions to complete wireless security setup.

a. Wireless Security Setup — WEP

2. Wireless Setup

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

SSID:	<input type="text" value="Server_Router"/>
Channel Number:	<input type="text" value="11"/>
Encryption:	<input type="text" value="WEP"/>
Key Length:	<input type="text" value="64-bit"/>
Key Format:	<input type="text" value="Hex (10 characters)"/>
Key Setting:	<input type="text" value="*****"/>

**Low level (64-bit) and High level (128-bit)
10 characters or 26 characters.**

The options in **Key Length** column: 26 Hex characters (0~9, a~f, and A~F). It is decided by the choice of **WEP-64bits** or **WEP-128bits**. E.g.: WEP-64bits key= 10 Hex characters (0~9, a~f, and A~F); WEP-128bits key= 26 Hex characters (0~9, a~f, and A~F); the Key Setting is the password needs to be input after the selections.

a. Encryption – WEP

(1.) Key Length: Activate WEP encryption to protect your information from stealing by others. The Server Router supports 64bits and 128bits.

(2.) Key Format: For 64bits WEP key format, it can include 5 ASCII characters or 10 Hex characters. For 128bits WEP key format, it can include 13 ASCII characters or 26 Hex characters.

***Note:** 128 bits – WEP encryption is very safe, but there are other encryptions safer. Please to understand that all wireless devices must have the same WEP key

length and format.

b. Wireless Security Setup — WPA (WPA · WPA2 & WPA2 Mixed)

WPA (Wi-Fi Protected Access) is a system to protect wireless network security. To prevent hackers, WPA uses TKIP or AES to change key frequently.

Passphrase:

The Pre-Shared Key format is ASCII Code, and the length is 8-63 bytes(at least 8 bytes) ◦

Hex:

Users can input 64 Hex bytes(0~9, a~f, or A~F) ◦

2. Wireless Setup

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

SSID:	<input type="text" value="Server_Router"/>
Channel Number:	<input type="text" value="11"/>
Encryption:	<input type="text" value="WPA(TKIP)"/>
Pre-Shared Key Format:	<input type="text" value="Passphrase"/>
Pre-Shared Key:	<input type="text"/>

**Passphrase: the length of the Key is 8-63 bytes.
Hex: the length of the Key is 64 bytes.**

Please click **Finished** to finish the setup.

4.4.4 Quick Setup Complete

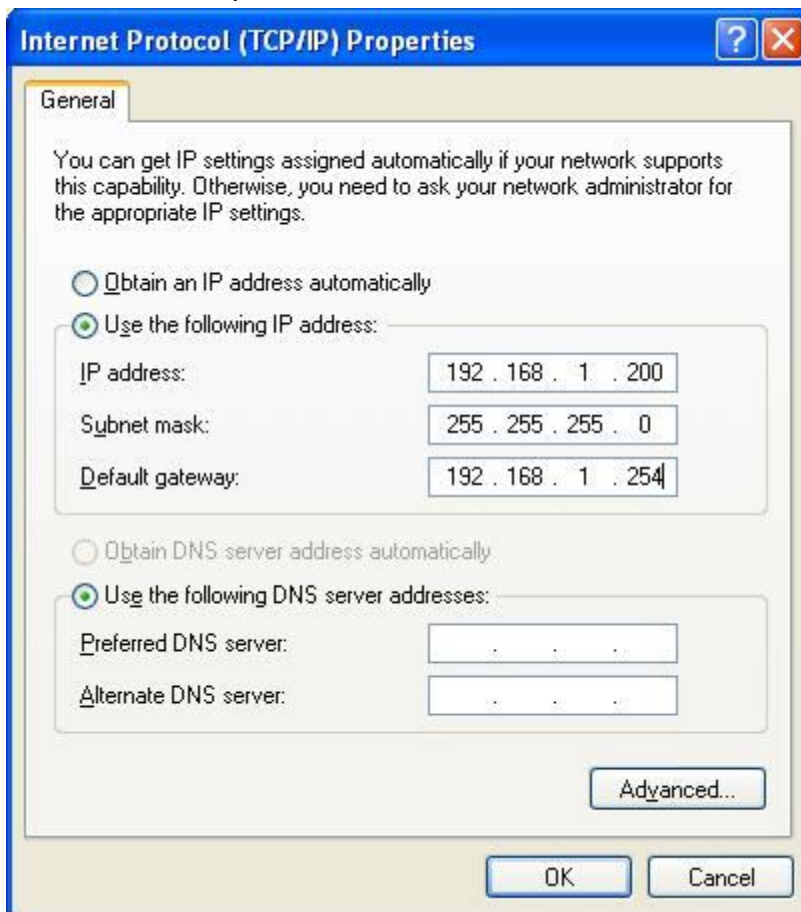
When you see this screen, it means the quick setup is completed.



Change setting successfully!

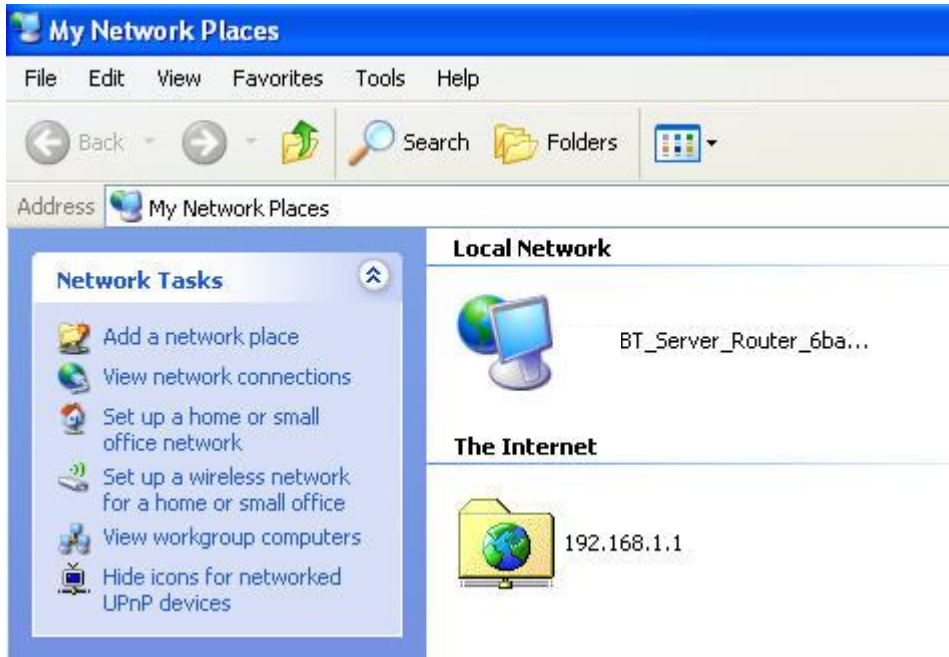
System is configuring, after 27 seconds system will return to the previous page.

The DHCP is disabled in AP mode. Please setup the static IP address in LAN section after the countdown is finished. The IP address must in the same class with the default Gateway.

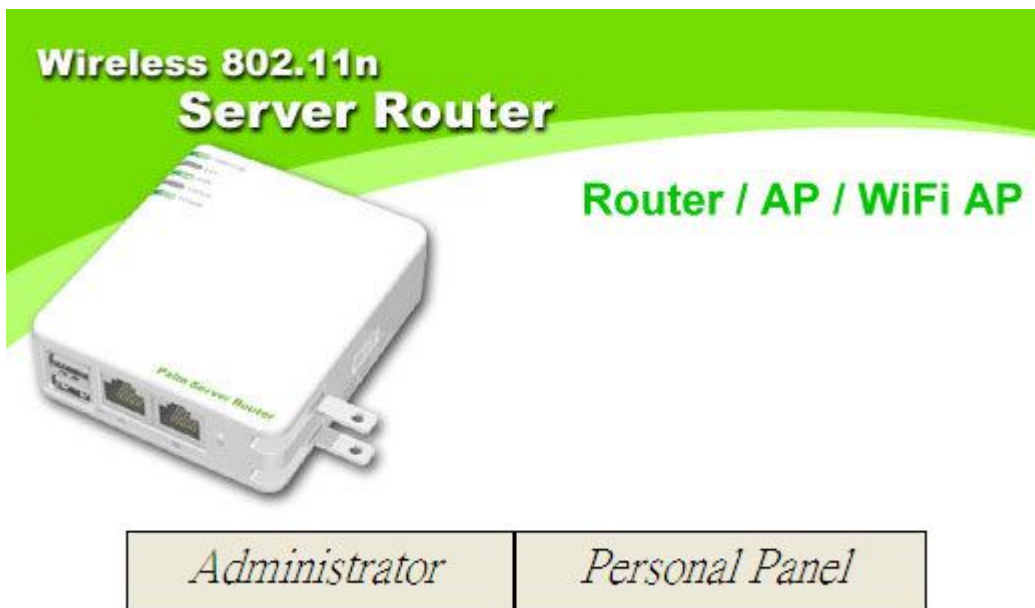


1) Please open IE browser and then enter <http://192.168.1.254>. (It is the default LAN IP address in AP mode.)

User can go to **My Network place** and click device icon to enter main page.



Please Select **Administrator** Mode.



Enter username and password, both default are **admin**, then click **login** to enter product main page.



2) The default UPnP of Server Router is ON. When users connect Server Router to their PC, and icon will show up in the right-down corner.



Click the **Internet Gateway Device** to open the login page.



Enter username and password, both default are **admin**, then click **login** to enter product main page.

Application Setup Selection

- Click "Application" button to begin setup including Folder Management Setup, User Account Management Setup, FTP Server Setup, Printer Server Setup, Web Camera Setup and Samba Server Setup.

4.4.5 Folder management

Easy to check all the USB storage devices connected to your Server Router, view the entire data folder inside each storage devices, and you can do the disk formatting via click on the button in this page.

Folder Management

You can specify which USB storage to be System Disk.

USB Device Name

SysDisk	Disk	TYPE	Capacity	Free Space	Function
<input checked="" type="radio"/>	USB A	Unknown	63MB	39MB	<input type="button" value="Unplug"/>

Partition / Format SysDisk

All existing data and partitions on the HDD will be DESTROYED ! Make sure you really need to do this !

Disk format selected: Yes No
TYPE: FAT16/32 NTFS EXT3

Please click on "**Next**" to continue.

4.4.6 Partition / Format SysDisk

Select the USB Disk and click on "**OK**" button for refresh all disks before you do disk partition, and the "**Unplug**" button will appear. To partition/format the disk, please select the disk and click on "**Format**" button. Moreover, if you want to view the data inside the disk, please go to "4.2.11 FTP Sever Setup" to enable FTP server and then click on "**Disk Explorer**" to view all disks folder inside the device.

4.4.7 User Account Management

Personal users can use each individual application such as My Status, My Webcam and My Document. This section is to set the user's right. Also, all the users right will

be showed in User Account List and can do the edit or delete by clicking the meaning text.

User Account Management

You can add user account in this page.

User Name	Password	Access Right	
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Webcam Server	<input type="checkbox"/> FTP Server
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Webcam Server	<input type="checkbox"/> FTP Server
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Webcam Server	<input type="checkbox"/> FTP Server

Please click on "**Next**" to continue.

4.4.8 FTP Server

Server Router can be the FTP Server provides users to transmit files, also for the guest can download the files from assign website. Moreover, by connecting USB HDD, USB Flash to the router, user can easily set up a FTP Server to share or download files for local or remote users.

FTP Server

You can enabled or disabled FTP server function in this page.

Enable FTP Server: Enabled Disabled
Enable Anonymous to Login: Enabled Disabled

Please click on "**Next**" to continue.

4.4.9 Printer Server

Server Router supports printers. Printer Server will be shown as Enable, therefore users can use Printer features from LAN. This function is disabled if there is no printer connecting to Server Router.

Print Server

You can enabled or disabled print server function in this page.

Enable Printer Server: Enabled Disabled
Printer Model: hp deskjet 1180c
Printer Name:

Please click on "**Next**" to continue.

4.4.10 Web Camera

If you plan to use the Server Router as a Web Camera site, connect a supported USB Web Camera to the USB port of the Server Router. To enable the webcam server and access from WAN as demand, and the Image format is set to 320X240.

WebCam Server

You can enabled or disabled WebCAM server function in this page.

Enable Webcam: Enabled Disabled
Image format: 320x240

Please click on "**Next**" to continue.

4.4.11 Samba Server

Support NetBIOS protocol, the consumer sharing file and printer which provides as the My Network Places.

Samba Server

You can enabled or disabled samba server function in this page.

Enable Samba Server: Enabled Disabled
Workgroup Name:

Please click on "**Finished**" to complete settings.

4.5 WiFi AP Mode Configuration

Connect to AP or wired Internet by using wireless function, and then provides wired and wireless internet bridge service for bottom level users. The AP mode doesn't support NAT. The Server Router is simply using Ethernet port to connect to the upper level device and receive the IP address from it. The Server Router will use the default IP address or is defined by users if the upper level device does not give one.

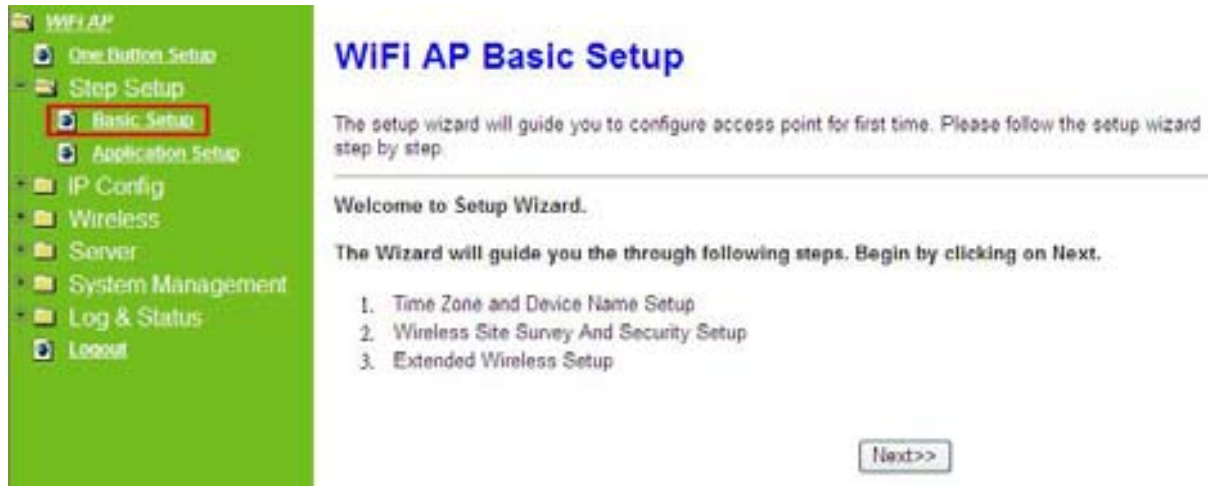
4.5.1 Switch To WiFi AP Mode

Server Router has an operation switch. It can let users switch between router, AP, and WiFi AP mode. Users must unplug the Server Router from the power outlet and make sure that the power is off. Switch to WiFi AP mode, and plug it back in power outlet.

Caution: Switch mode under power supply will make Server Router crush, and cause internal damage and information lose.

4.6 Quick Setup for WiFi AP Mode

Please Click **Next** to enter the next page.



WIFI AP Basic Setup

The setup wizard will guide you to configure access point for first time. Please follow the setup wizard step by step.

Welcome to Setup Wizard.

The Wizard will guide you the through following steps. Begin by clicking on Next.

1. Time Zone and Device Name Setup
2. Wireless Site Survey And Security Setup
3. Extended Wireless Setup

[Next>>](#)

4.6.1 Time Zone Setup

You can select **Enable NTP client update** to maintain the system time.



1. Time Zone and Device Setup

You can maintain the system time by synchronizing with a public time server over the Internet.

Enable NTP client update

Time Zone Select :

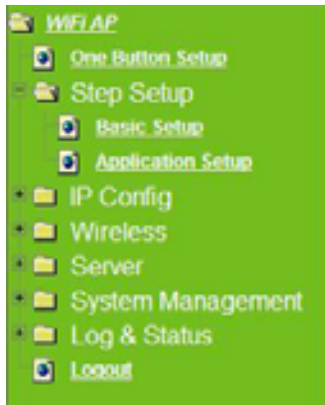
NTP server :

Device Name:

[Cancel](#) [<<Back](#) [Next>>](#)

4.6.2 Wireless Site Survey And Security Setup

This function provides users to search the existing wireless network, AP, or Wireless AP from ISP. You can select the service manually. After selecting the designed AP, the device name will appear on **Wireless Basic Setup** page. Please follow the instructions.



2. Wireless Site Survey And Security Setup

This page provides tool to scan the wireless network. If any Access Point or BSS is found, you could choose to connect it manually when WiFi AP mode is enabled.

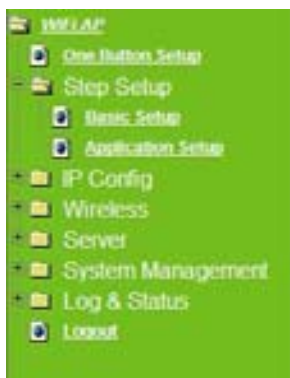
SSID	BSSID	Channel	Type	Encrypt	Signal	Select
Xin1_Router_LAN	00:04:f0:21:33:05	1 (B+G)	AP	no	61	<input type="radio"/>

Encryption:

You can select the desired AP to connect and data encryption type. Click the **Refresh** button will refresh the list.

4.6.3 Wireless Security Setup

The Encryption is a free choice option, it has two main types: **WEP** and **WPA**. If you want to protect your transmitting data, you can select it base on the needs. Please follow the instructions to complete wireless security setup.



3. Extended Wireless Setup

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

ESSID:

Encryption:

a. Wireless Security Setup — WEP

3. Extended Wireless Setup

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

ESSID:	<input type="text" value="Server_Router"/>
Encryption:	<input type="button" value="WEP"/>
Key Length:	<input type="button" value="64-bit"/> → Low level (64-bit) and High level (128-bit)
Key Format:	<input type="button" value="Hex (10 characters)"/>
Key Setting:	<input type="text" value="*****"/> ↓ 10 characters or 26 characters.
<input type="button" value="Cancel"/> <input type="button" value=" <<Back"/> <input type="button" value="Finish >>"/>	

The options in **Key Length** column: 26 Hex characters (0~9, a~f, and A~F). It is decided by the choice of **WEP-64bits** or **WEP-128bits**. E.g.: WEP-64bits key= 10 Hex characters (0~9, a~f, and A~F); WEP-128bits key= 26 Hex characters (0~9, a~f, and A~F); the Key Setting is the password needs to be input after the selections.

a. Encryption – WEP

(1.) Key Length: Activate WEP encryption to protect your information from stealing by others. The Server Router supports 64bits and 128bits.

(2.) Key Format: For 64bits WEP key format, it can include 5 ASCII characters or 10 Hex characters. For 128bits WEP key format, it can include 13 ASCII characters or 26 Hex characters.

**Note: 128 bits – WEP encryption is very safe, but there are other encryptions safer. Please to understand that all wireless devices must have the same WEP key length and format.*

b. Wireless Security Setup – WPA (WPA、WPA2 & WPA2 Mixed)

WPA (Wi-Fi Protected Access) is a system to protect wireless network security. To prevent hackers, WPA uses TKIP or AES to change key frequently.

Passphrase:

The Pre-Shared Key format is ASCII Code, and the length is 8-63 bytes(at least 8 bytes)。

Hex:

Users can input 64 Hex bytes(0~9, a~f, or A~F)。

3. Extended Wireless Setup

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

ESSID:

Encryption: **→ Please select one.**

Pre-Shared Key Format:

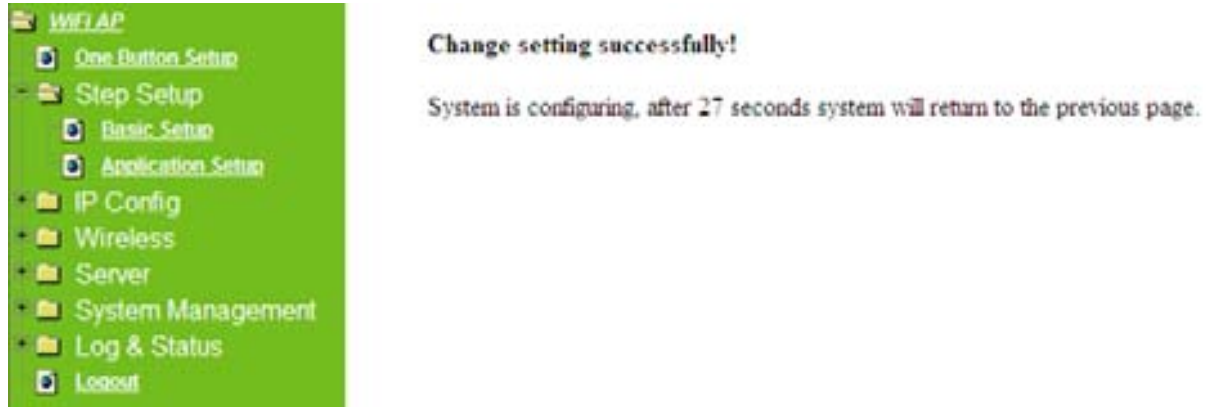
Pre-Shared Key:

Passphrase: the length of the Key is 8-63 bytes.
Hex: the length of the Key is 64 bytes.

Please click "**Finished**" to finish the setup.

4.6.4 Quick Setup Complete

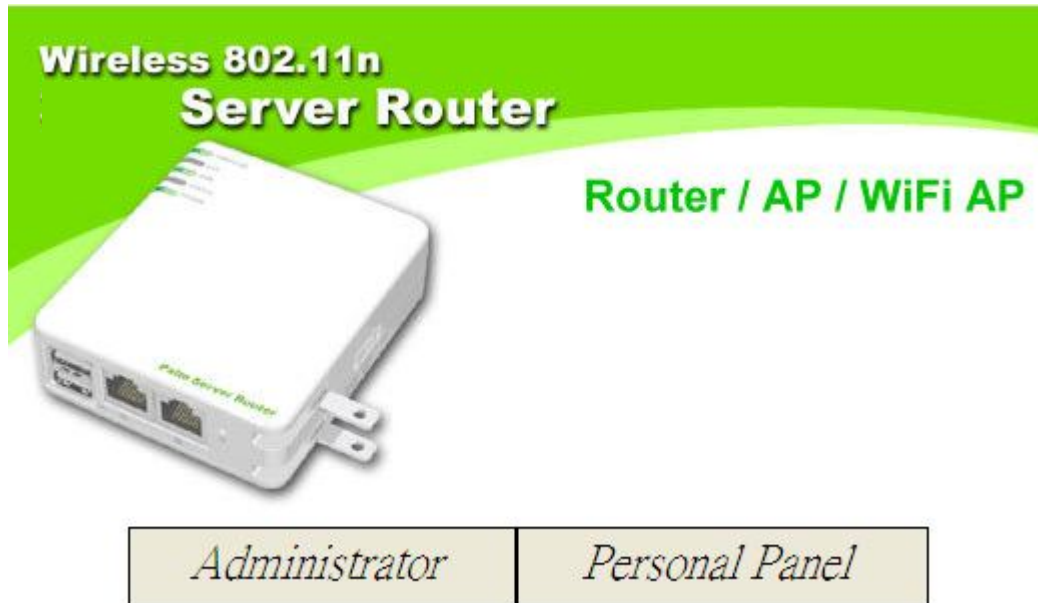
When you see this screen, it means the quick setup is almost completed.



User can go to **My Network place** and click device icon to enter main page.



Please select "Administrator" to enter.



The login page will show up, please enter the username and password. The default values for both are **admin**. Click **Login** to enter the main page.



2) The default UPnP of Server Router is ON. When users connect Server Router to their PC, and icon will show up in the right-down corner.





Click the **Internet Gateway Device** to open the login page.



Enter username and password, both default are **admin**, then click **login** to enter product main page.

Application Setup Selection

- Click "**Application**" button to begin setup including Folder Management Setup, User Account Management Setup, FTP Server Setup, Printer Server Setup, Web Camera Setup and Samba Server Setup.



4.6.5 Folder Management

Easy to check all the USB storage devices connected to your Server Router, view the entire data folder inside each storage devices, and you can do the disk formatting via click on the button in this page.

Folder Management

You can specify which USB storage to be System Disk.

USB Device Name

SysDisk	Disk	TYPE	Capacity	Free Space	Function
<input checked="" type="radio"/>	USB A	Unknown	63MB	39MB	<input type="button" value="Unplug"/>

Partition / Format SysDisk

All existing data and partitions on the HDD will be DESTROYED ! Make sure you really need to do this !

Disk format selected: Yes No
 TYPE: FAT16/32 NTFS EXT3

4.6.6 Partition / Format SysDisk

Select the USB Disk and click on "OK" button for refresh all disks before you do disk partition, and the "Unplug" button will appear. To partition/format the disk, please select the disk and click on "Format" button. Moreover, if you want to view the

data inside the disk, please go to "4.2.11 FTP Sever Setup" to enable FTP server and then click on "**Disk Explorer**" to view all disks folder inside the device.

4.6.7 User Account Management

Personal users can use each individual application such as My Status, My Webcam and My Document. This section is to set the user's right. Also, all the users right will be showed in User Account List and can do the edit or delete by clicking the meaning text.

User Account Management

You can add user account in this page.

User Name	Password	Access Right	
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Webcam Server	<input type="checkbox"/> FTP Server
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Webcam Server	<input type="checkbox"/> FTP Server
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Webcam Server	<input type="checkbox"/> FTP Server

4.6.8 FTP Server

Server Router can be the FTP Server provides users to transmit files, also for the guest can download the files from assign website. Moreover, by connecting USB HDD, USB Flash to the router, user can easily set up a FTP Server to share or download files for local or remote users.

FTP Server

You can enabled or disabled FTP server function in this page.

Enable FTP Server: Enabled Disabled
Enable Anonymous to Login: Enabled Disabled

4.6.9 Printer Server

Server Router supports printers. Printer Server will be shown as Enable, therefore users can use Printer features from LAN. This function is disabled if there is no printer connecting to Server Router.

Print Server

You can enabled or disabled print server function in this page.

Enable Printer Server:

Enabled Disabled

Printer Model:

hp deskjet 1180c

Printer Name:

Cancel <<Back Next>>

4.6.10 Web Camera

If you plan to use the Server Router as a Web Camera site, connect a supported USB Web Camera to the USB port of the Server Router. To enable the webcam server and access from WAN as demand, and the Image format is set to 320X240.

WebCam Server

You can enabled or disabled WebCAM server function in this page.

Enable Webcam:

Enabled Disabled

Image format:

320x240

Cancel <<Back Next>>

4.6.11 Samba Server

Support NetBIOS protocol, the consumer sharing file and printer which provides as the My Network Places.

Samba Server

You can enabled or disabled samba server function in this page.

Enable Samba Server:

Enabled Disabled

Workgroup Name:

Cancel <<Back Finished>>

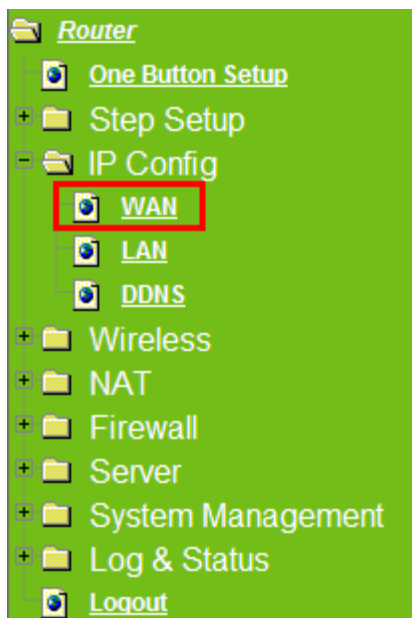
Chapter 5 Advanced Configuration for Router

Mode

5.1 IP Config

This section can let users add route rules of Server Router; it includes configuration of WAN, LAN, and DDNS.

5.1.1 WAN Interface Setup



Please select WAN Interface to configure, it includes 2 interface selections (Ethernet and Wireless) and 4 access types (Static IP, Dynamic IP, PPPoE, and PPTP); please follow the instructions to configure.

5.1.1.1 WAN Interface – Ethernet Port

If your Server Router is connecting to the Internet through the Ethernet cable, please select **Ethernet port** interface.

WAN Setup

WAN Interface:

WAN Access Type:

Host Name:

MTU Size: (1400-1492 bytes)

Attain DNS Automatically

Set DNS Manually

DNS 1:

DNS 2:

DNS 3:

Clone MAC Address:

Enable IGMP Proxy

Enable Ping Access on WAN

Enable Web Server Access on WAN

5.1.1.2 WAN Interface – Wireless

If your Server Router is connecting to the Internet through wireless, please select **Wireless** interface.

WAN Setup

WAN Interface:

SSID	BSSID	Channel	Type	Encrypt	Signal	Select
Xin1_Router_LAN	00:0d:f0:21:33:05	1 (B+G)	AP	no	61	<input type="radio"/>
Navi_R626g_5	00:14:85:d0:b9:26	6 (B+G)	AP	no	60	<input type="radio"/>

Encryption:

WAN Access Type:

Host Name:

MTU Size: (1400-1492 bytes)

Attain DNS Automatically

Set DNS Manually

DNS 1:

DNS 2:

DNS 3:

Clone MAC Address:

Enable IGMP Proxy

Enable Ping Access on WAN

Enable Web Server Access on WAN

The Wireless network which searched by Server Router will display on this page. Users can select the desired wireless network and Encryption type to connect.

5.1.1.3 Static IP

If your WAN access type is Static IP, please complete the settings as following instructions.

WAN Setup

WAN Interface:

WAN Access Type:

IP Address:

Subnet Mask:

Default Gateway:

MTU Size: (1400-1500 bytes)

Attain DNS Automatically

Set DNS Manually

DNS 1:

DNS 2:

DNS 3:

Clone MAC Address:

Enable IGMP Proxy

Enable Ping Access on WAN

Enable Web Server Access on WAN

1. IP Address

Please enter your IP address. If you don't know the address, please contact your ISP.

2. **Subnet Mask**

Please enter the Subnet Mask address; it should be 255.255.255.0 for the most time.

3. **Default Gateway**

Please enter the Default Gateway address. If you don't know the address, please contact your ISP.

4. **MTU Size**

The term **Maximum transmission unit** refers to the size (in bytes) of the largest PDU that a given layer of a communications protocol can pass onwards. Users can improve network efficiency by adjusting the value of MTU. Most of OS will give users a default value which is fit for most of users. Users can modify this value also. Please enter value, max number is 1500 bytes.

5. **DNS**

If ISP provides DNS information, please select **Attain DNS automatically**. Or you should select **Set DNS Manually**, and then input the DNS address.

6. **Clone MAC Address**

If your ISP asks you to enter a specific MAC Address, please input the correct info at the column.

7. **Enable IGMP Proxy**

The **Internet Group Management Protocol (IGMP)** is a communication protocol used to manage the membership of Internet Protocol multicast groups. IGMP is used by IP hosts and adjacent multicast routers to establish multicast group memberships. You can choose to enable **IGMP Proxy** to provide service.

8. **Enable Ping Access on WAN**

When users enable **Enable Ping Access on WAN**, it will make WAN IP address response to any ping request from Internet users. It is a common way for hacker to ping public WAN IP address, to see is there any WAN IP address available.

9. **Enable Web Server Access on WAN**

This option is to enable Web Server Access function on WAN.

10. **Apply Changes & Reset**

Click on **Apply Changes** to save the setting data. Or you may click on **Reset** to clear all the input data.

5.1.1.4 Dynamic IP

If your WAN access type is Dynamic IP, please complete the settings as following

instructions.

WAN Setup

WAN Interface:

WAN Access Type:

Host Name:

MTU Size: (1400-1492 bytes)

Attain DNS Automatically

Set DNS Manually

DNS 1:

DNS 2:

DNS 3:

Clone MAC Address:

- Enable IGMP Proxy**
- Enable Ping Access on WAN
- Enable Web Server Access on WAN

1. Host Name

Host name is optional for users. If your ISP requests users to input a specific host name, please input it in this section.

2. MTU Size

The term **Maximum transmission unit** refers to the size (in bytes) of the largest PDU that a given layer of a communications protocol can pass onwards. Users can improve network efficiency by adjusting the value of MTU. Most of OS will give users a default value which is fit for most of users. Users can modify

this value also. Please enter value, max number is 1492 bytes.

3. DNS

If ISP provides DNS information, please select **Attain DNS automatically**. Or you should select **Set DNS Manually**, and then input the DNS address.

4. Clone MAC Address

If your ISP asks you to enter a specific MAC Address, please input the correct info at the column.

5. Enable IGMP Proxy

The **Internet Group Management Protocol (IGMP)** is a communications protocol used to manage the membership of Internet Protocol multicast groups. IGMP is used by IP hosts and adjacent multicast routers to establish multicast group memberships. You can choose to enable **IGMP Proxy** to provide service.

6. Enable Ping Access on WAN

When users enable **Enable Ping Access on WAN**, it will make WAN IP address response to any ping request from Internet users. It is a common way for hacker to ping public WAN IP address, to see is there any WAN IP address available.

7. Enable Web Server Access on WAN

This option is to enable Web Server Access function on WAN.

8. Apply Changes & Reset

Click on **Apply Changes** to save the setting data. Or you may click on **Reset** to clear all the input data.

5.1.1.5 PPPoE

If your WAN access type is PPPoE, please complete the settings as following instructions.

WAN Setup

WAN Interface:

WAN Access Type:

User Name:

Password:

Service Name:

Connection Type:

Idle Time: (1-1000 minutes)

MTU Size: (1360-1492 bytes)

Attain DNS Automatically

Set DNS Manually

DNS 1:

DNS 2:

DNS 3:

Clone MAC Address:

Enable IGMP Proxy

Enable Ping Access on WAN

Enable Web Server Access on WAN

1. User Name

Please enter the username provided by your ISP. If you don't have it, please contact your ISP.

2. Password

Please enter the password provided by your ISP. If you don't have it, please

contact your ISP.

3. **Service Name**

Please enter the service name provided by your ISP. If you don't have it, please contact your ISP.

4. **Connection Type**

It has three types: **Continuous**, **Connect on Demand**, and **Manual**.

5. **Idle Time**

Users can input the max unused time here.

6. **MTU Size**

The term **Maximum transmission unit** refers to the size (in bytes) of the largest PDU that a given layer of a communications protocol can pass onwards. Users can improve network efficiency by adjusting the value of MTU. Most of OS will give users a default value which is fit for most of users. Users can modify this value also. Please enter value, max number is 1492 bytes.

7. **DNS**

If ISP provides DNS information, please select **Attain DNS automatically**. Or you should select **Set DNS Manually**, and then input the DNS address.

8. **Clone MAC Address**

If your ISP asks you to enter a specific MAC Address, please input the correct info at the column.

9. **Enable IGMP Proxy**

The **Internet Group Management Protocol (IGMP)** is a communications protocol used to manage the membership of Internet Protocol multicast groups. IGMP is used by IP hosts and adjacent multicast routers to establish multicast group memberships. You can choose to enable **IGMP Proxy** to provide service.

10. **Enable Ping Access on WAN**

When users enable **Enable Ping Access on WAN**, it will make WAN IP address response to any ping request from Internet users. It is a common way for hacker to ping public WAN IP address, to see is there any WAN IP address available.

11. **Enable Web Server Access on WAN**

This option is to enable Web Server Access function on WAN.

12. **Apply Changes & Reset**

Click on **Apply Changes** to save the setting data. Or you may click on **Reset** to clear all the input data.

5.1.1.6 PPTP

If your WAN access type is PPTP, please complete the settings as following instructions.

WAN Setup

WAN Interface:

WAN Access Type:

IP Address:

Subnet Mask:

Server IP Address:

User Name:

Password:

MTU Size: (1400-1460 bytes)

Request MPPE Encryption

Attain DNS Automatically

Set DNS Manually

DNS 1:

DNS 2:

DNS 3:

Clone MAC Address:

Enable IGMP Proxy

Enable Ping Access on WAN

Enable Web Server Access on WAN

1. **IP Address**

Please enter your IP address. If you don't know the address, please contact your ISP.

2. **Subnet Mask**

Please enter the Subnet Mask address; it should be 255.255.255.0 for the most time.

3. **Server IP Address**

Please enter the server IP address. If you don't know the address, please contact your ISP.

4. **User Name**

Please enter the username provided by your ISP. If you don't have it, please contact your ISP.

5. **Password**

Please enter the password provided by your ISP. If you don't have it, please contact your ISP.

6. **MTU Size**

The term **Maximum transmission unit** refers to the size (in bytes) of the largest PDU that a given layer of a communications protocol can pass onwards. Users can improve network efficiency by adjusting the value of MTU. Most of OS will give users a default value which is fit for most of users. Users can modify this value also. Please enter value, max number is 1492 bytes.

7. **Request MPPE Encryption**

MPPE uses the RSA RC4 algorithm to provide data confidentiality. The length of the session key to be used for initializing encryption tables can be negotiated. MPPE currently supports 40-bit, 56-bit, and 128-bit session keys. It can be changed frequently to protect network security. This function is optional.

8. **DNS**

If ISP provides DNS information, please select **Attain DNS automatically**. Or you should select **Set DNS Manually**, and then input the DNS address.

9. **Clone MAC Address**

If your ISP asks you to enter a specific MAC Address, please input the correct info at the column.

10. **Enable IGMP Proxy**

The **Internet Group Management Protocol (IGMP)** is a communications protocol used to manage the membership of Internet Protocol multicast groups. IGMP is used by IP hosts and adjacent multicast routers to establish multicast group memberships. You can choose to enable **IGMP Proxy** to

provide service.

11. Enable Ping Access on WAN

When users enable **Enable Ping Access on WAN**, it will make WAN IP address response to any ping request from Internet users. It is a common way for hacker to ping public WAN IP address, to see is there any WAN IP address available.

12. Enable Web Server Access on WAN

This option is to enable Web Server Access function on WAN.

13. Apply Changes & Reset

Click on **Apply Changes** to save the setting data. Or you may click on **Reset** to clear all the input data.

5.1.2 LAN Interface Setup

This page is used to configure for local area network which connects to the LAN port of your Access Point. Here users may change the setting for IP address, Subnet Mask, DHCP, etc.

LAN Interface Setup

This page is used to configure the parameters for local area network which connects to the LAN port of your Access Point. Here you may change the setting for IP address, subnet mask, DHCP, etc..

Device Name:	<input type="text" value="Server_Router_"/>
IP Address:	<input type="text" value="192.168.1.1"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>
Default Gateway:	<input type="text" value="0.0.0.0"/>
DHCP:	<input type="text" value="Server"/> <input type="button" value="v"/>
DHCP Client Range:	<input type="text" value="192.168.1.100"/> - <input type="text" value="192.168.1.200"/> <input type="button" value="Show Client"/>
802.1d Spanning Tree:	<input type="text" value="Disabled"/> <input type="button" value="v"/>
Clone MAC Address:	<input type="text" value="000000000000"/>

1. IP Address

The default IP address is **192.168.1.1** (recommend).

2. Subnet Mask

Please enter the Subnet Mask address; it should be **255.255.255.0** for the most time.

3. Default Gateway

Please enter the Default Gateway address. If you don't know the address, please contact your ISP.

4. DHCP

Users can choose to enable DHCP service or not. The DHCP server will give an unused IP address to a computer which is requesting for one. That computer must be a DHCP client, and then it can obtain an IP address automatically.

5. DHCP Client Range

The default value is 192.168.1.100 - 192.168.1.200. The DHCP server will assign an IP to a computer from this range. The **Show Client** will display every assigned IP address, MAC address, and expired time.

6. 802.1d Spanning Tree

IEEE 802.1d **Spanning Tree Protocol (STP)** is a link layer network protocol that ensures a loop-free topology for any bridged LAN, This function is optional.

7. Clone MAC Address

If your ISP asks you to enter a specific MAC Address, please input the correct info at the column.

8. Apply Changes & Reset

Click on **Apply Changes** to save the setting data. Or you may click on **Reset** to clear all the input data.

5.1.3 Dynamic DNS Setting

Dynamic DNS provides users with DNS service that automates the discovery and registration of client's public IP addresses. The DDNS Providers in Server Router are DynDNS (<http://www.dyndns.com>), TZO (<http://www.dyndns.org>), ChangeIP, Eurodns, OVH, NO-IP, ODS, Regfish.

Dynamic DNS Setting

Dynamic DNS is a service, that provides you with a valid, unchanging, internet domain name (an URL) to go with that (possibly everchanging) IP-address.

Enable DDNS  **Please choose to enable it or not.**

Service Provider :  DynDNS 

Domain Name :

User Name/Email:

Password/Key:

 **Please select Service Provider for DDNS**

Note:

For TZO, you can have a 30 days free trial [here](#) or manage your TZO account in [control panel](#)

For DynDNS, you can create your DynDNS account [here](#)

Please enter **Domain Name**, **User Name/Email**, and **Password/Key**.

After entering, click on **Apply Changes** to save the setting data. Or you may click on **Reset** to clear all the input data.

5.2 Wireless Setup

The category includes **Basic Settings**, **Advanced Settings**, **Security**, **Access Control**, **WDS settings**, and **WPS**. Please read below for the setting instruction.



5.2.1 Wireless Basic Settings

The basic settings related to the wireless are specified as following.

Wireless Basic Settings

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

Disable Wireless LAN Interface

Band:

Mode:

Network Type:

SSID:

Channel Width:

Control Sideband:

Channel Number:

Broadcast SSID:

WMM:

Data Rate:

Associated Clients:

Enable Mac Clone (Single Ethernet Client)

Enable Universal Repeater Mode (Acting as AP and client simultaneously)

SSID of Extended Interface:

1. **Disable Wireless LAN Interface**

Turn off the wireless function.

2. **Band**

Please select the frequency. It has 6 options:

2.4 GHz (B/G/N/B+G/G+N/B+G+N).

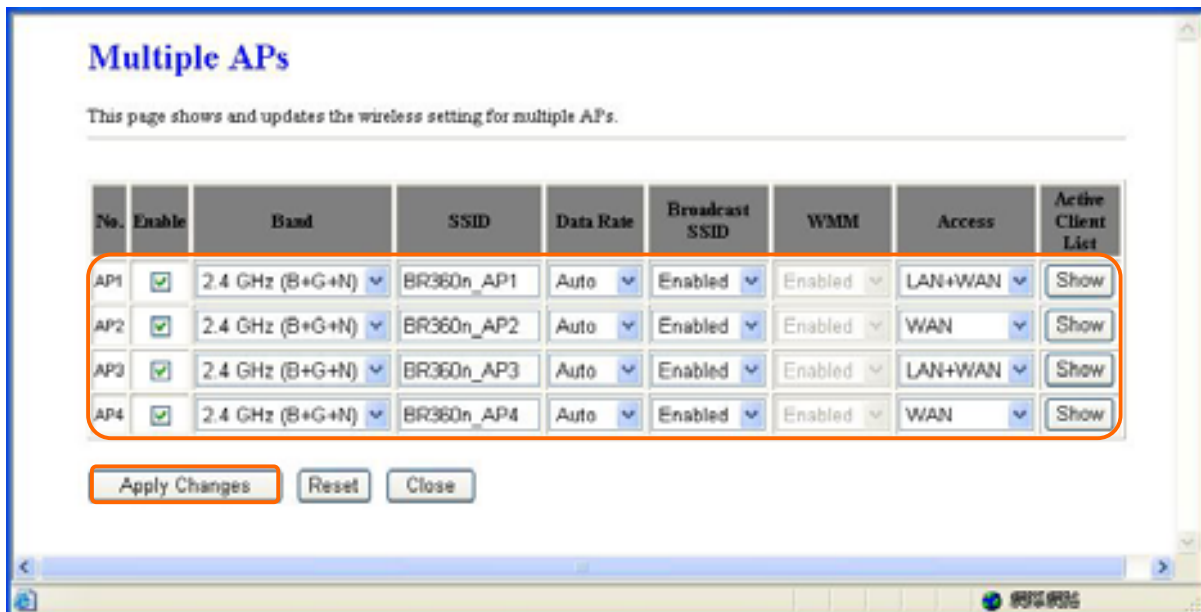
3. **Mode**

Please select the mode. It has 3 modes to select:

(AP, WDS, AP+WDS).

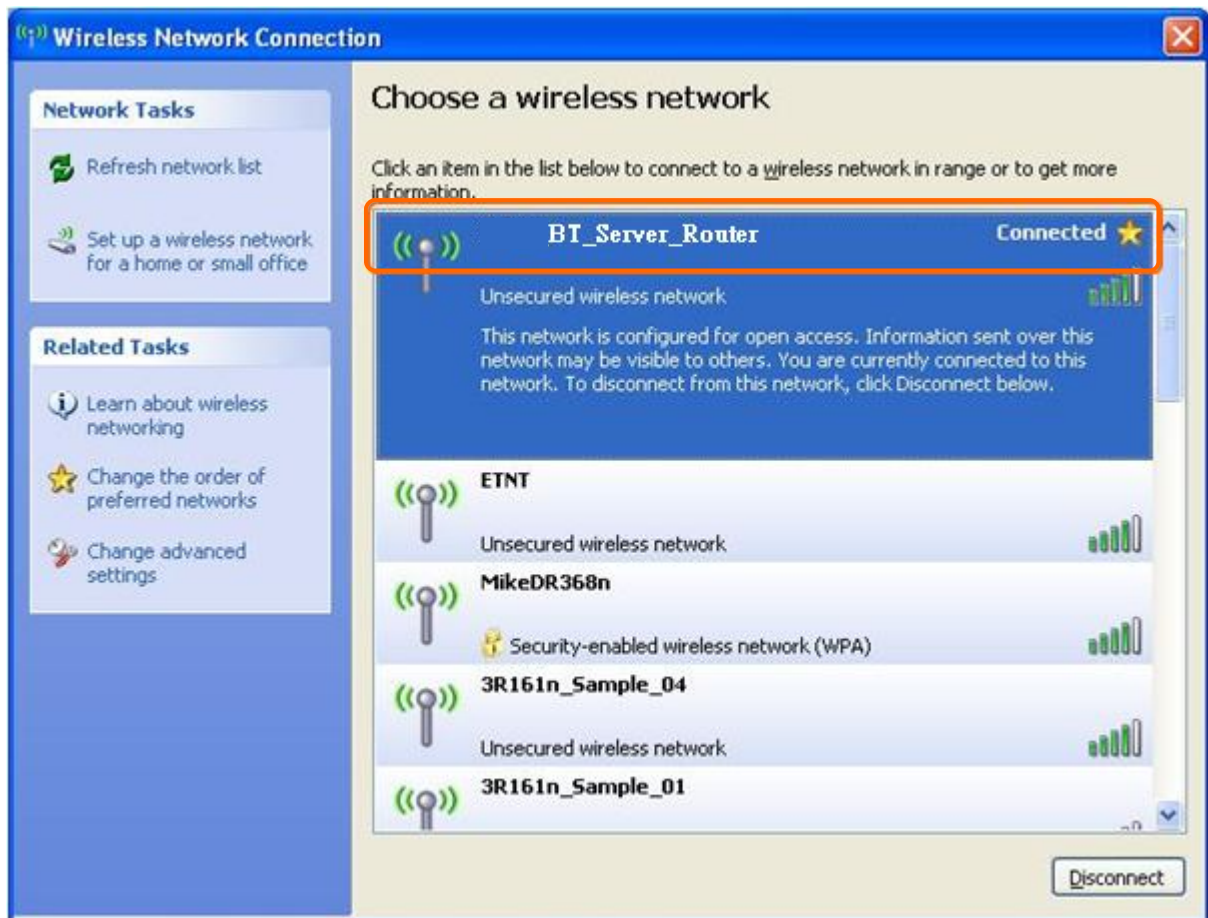
Multiple APs can provide users another 4 different SSID for connection.

Users can add or limit the properties for each connection.



- (1.) Enable: please choose to enable it or not.
- (2.) Band: please select the frequency.
- (3.) SSID: please enter the SSID.
- (4.) Data Rate: please select the data transmission rate.
- (5.) Access: enable this function can let clients use 2 access types: a. LAN+WAN: the client can access to the Internet and connect to Server Router's GUI to setup. b. WAN: the client can only access to the Internet.
- (6.) Active Client List: display the properties of the client which is connecting successfully.
- (7.) Apply Changes: Click on **Apply Changes** to save the setting data. Or you may click on **Reset** to clear all the input data.

Take the client side of wireless network card as an example:
 The Client can search for Server Router_AP1 (LAN+WAN) and connect to it.
 If the client connects to it successfully, it will display message to notify users.



4. Network Type

Please select the network type, it has 2 options: **Infrastructure** or **Ad hoc**. If the wireless mode is set to AP mode, this section is disabled.

5. SSID

Service Set identifier, the default SSID is **_Server_Router**, users can define to any.

6. Channel Width

Please select the channel width, it has 2 options: 20MHZ, and 40MHZ.

7. Control Sideband

Enable this function will control your router use lower or upper channel.

8. Channel Number

Please select the channel; it has Auto, 1, 2~11 options.

9. Broadcast SSID

User may choose to enable **Broadcast SSID** or not.

10. Data Rate

Please select the data transmission rate.

11. Associated Clients

Check the AP connectors and the Wireless connecting status.

12. Enable Mac Clone (Single Ethernet Client)

Clone the MAC address for ISP to identify.

13. Enable Universal Repeater Mode (Acting as AP and Client simultaneously)

Allow to equip with the wireless way conjunction upper level, provide the bottom layer user link in wireless and wired way in the meantime. (The IP that bottom layer obtains is from upper level.)

Ex: When users enable the Universal Repeater to connect to the upper level device, please input the channel and SSID of the upper level device on router's GUI. Click on **Apply Changes** to save the settings. (The DHCP in IP config needs to be disabled.)

Channel Number:

Broadcast SSID:

WMM:

Data Rate:

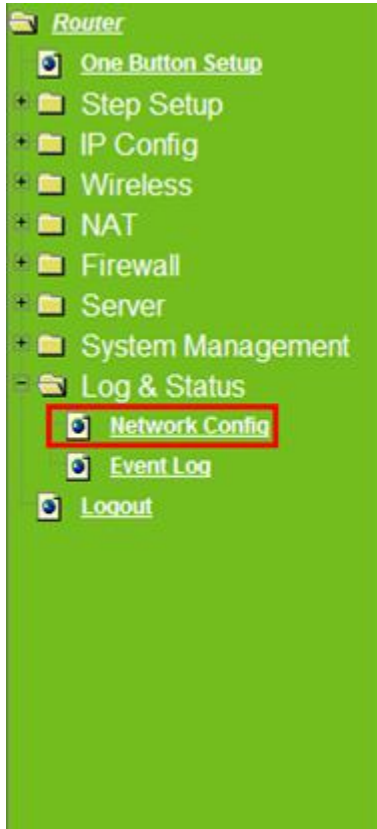
Associated Clients:

Enable Mac Clone (Single Ethernet Client)

Enable Universal Repeater Mode (Acting as AP and client simultaneously)

SSID of Extended Interface:

Users can go to the network Config section and check the information of upper level in Wireless Repeater Interface Configuration.



DNS 1	
DNS 2	
DNS 3	
<input type="button" value="Connect"/> <input type="button" value="Disconnect"/>	

Wireless Repeater Interface Configuration	
Mode	Infrastructure Client
SSID	Server_Router
Encryption	Disabled
BSSID	00:0e:68:ff:05:d8
Status	Connected

USB A Configuration	
USB Type	Storage
Name	PQI
Model	3100
USB B Configuration	
USB Type	Print
Name	EPSON
Model	2100

If the bottom layer device is trying to make a connection, users must input the SSID of this router as a relay station. The IP that the bottom layer device gets is from the upper level device.

14. SSID of Extended Interface

While linking the upper level device in wireless way, you can set SSID to give the bottom layer user search.

15. Apply Changes & Reset

Click on **Apply Changes** to save the setting data. Or you may click on **Reset** to clear all the input data.

5.2.2 Wireless Advanced Settings

Please complete the wireless advanced settings as following instructions.

Wireless Advanced Settings

These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your Access Point.

Fragment Threshold:	<input type="text" value="2346"/>	(256-2346)
RTS Threshold:	<input type="text" value="2347"/>	(0-2347)
Beacon Interval:	<input type="text" value="100"/>	(20-1024 ms)
Preamble Type:	<input checked="" type="radio"/> Long Preamble <input type="radio"/> Short Preamble	
IAPP:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	
Protection:	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled	
Aggregation:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	
Short GI:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	
RF Output Power:	<input checked="" type="radio"/> 100% <input type="radio"/> 70% <input type="radio"/> 50% <input type="radio"/> 35% <input type="radio"/> 15%	

Apply Changes

Reset

1. Fragment Threshold

To identify the maxima length of packet, the over length packet will be fragmentized. The allowed range is 256-2346, and default length is 2346

2. RTS Threshold

This value should remain at its default setting of 2347. The range is 0~2347. Should you encounter inconsistent data flow, only minor modifications are recommended. If a network packet is smaller than the present RTS threshold size, the RTS/CTS mechanism will not be enabled. The router sends Request to Send (RTS) frames to a particular receiving station and negotiates the sending of a data frame. After receiving an RTS, the wireless station responds with a Clear to Send (CTS) frame to acknowledge the right to begin transmission. Fill the range from 0 to 2347 into this blank.

3. Beacon Interval

Beacons are packets sent by an access point to synchronize a wireless network. Specify a beacon interval value. The allowed setting range is 20-1024 ms.

4. Preamble Type

PLCP is Physical layer convergence protocol and PPDU is PLCP protocol data unit during transmission, the PSDU shall be appended to a PLCP preamble and

header to create the PPDU. It has 2 options: Long Preamble and Short Preamble.

5. IAPP

Inter-Access Point Protocol is a recommendation that describes an optional extension to IEEE 802.11 that provides wireless access-point communications among multivendor systems.

6. Protection

Please select to enable wireless protection or not.

7. Aggregation

Enable this function will combine several packets to one and transmit it. It can reduce the problem when mass packets are transmitting.

8. Short GI

Users can get better wireless transmission efficiency when they enable this function.

9. RF Output Power

Users can adjust RF output power to get the best wireless network environment. Users can choose from 100%, 70%, 50%, 35%, and 15%.

10. Apply Changes & Reset

Click on **Apply Changes** to save the setting data. Or you may click on **Reset** to clear all the input data.

5.2.3 Wireless Security Setup

4 encryption types could be selected here, please follow below instructions for the setting.

Wireless Security Setup

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

Select SSID:

Encryption:

1. Encryption – WEP

1.1 Set WEP Key

This section provides 64bit and 128bit WEP encryptions for wireless network. Users can also choose ASCII and Hex shared Key format to protect data.

Wireless Security Setup

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

Select SSID:

Encryption:

802.1x Authentication:

Authentication: Open System Shared Key Auto

Key Length:

Key Format:

Encryption Key:

1.2 802.1x Authentication

It is a safety system by using authentication to protect your wireless network. Please choose between WEP 64bits and WEP 128bits.

2. Encryption – WPA (WPA, WPA2, and WPA2 Mixed)

WPA Authentication Mode

2.1 Enterprise (RADIUS)

Please input the Port, IP Address, and Password of Authentication RADIUS Server.

Wireless Security Setup

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

Select SSID:

Encryption:

Authentication Mode: Enterprise (RADIUS) Personal (Pre-Shared Key)

WPA Cipher Suite: TKIP AES

RADIUS Server IP Address:

RADIUS Server Port:

RADIUS Server Password:

2.2 Personal (Pre-Shared Key)

Pre-Shared Key type is ASCII Code; the length is between 8 to 63 characters.

If the key type is Hex, the key length is 64 characters.

Wireless Security Setup

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

Select SSID:

Encryption:

Authentication Mode: Enterprise (RADIUS) Personal (Pre-Shared Key)

WPA Cipher Suite: TKIP AES

Pre-Shared Key Format:

Pre-Shared Key:

3. Apply Changes & Reset

Click on **Apply Changes** to save the setting data. Or you may click on **Reset** to clear all the input data.

5.2.4 Wireless Access Control

The function of access control is to allow or deny users to access Server Router by according MAC address, it is optional. If you select **Allowed Listed**, then only those clients whose MAC address is listed on access control can connect to your base station. If you select **Deny Listed**, those clients whose MAC address is listed on access control can't connect to your base station.

Wireless Access Control

If you choose 'Allowed Listed', only those clients whose wireless MAC addresses are in the access control list will be able to connect to your Access Point. When 'Deny Listed' is selected, these wireless clients on the list will not be able to connect the Access Point.

Wireless Access Control Mode:

MAC Address: Comment:

→ **Users can enable or disable this function.**

Current Access Control List:

MAC Address	Comment	Select
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Take the wireless card as the example.

- (1.) We will use **Deny Listed** as an example. Please select **Deny Listed** in **Wireless Access Control Mode** first, and then input the MAC address of wireless card in MAC Address field. Click **Apply Changes** to save the setting data.

Wireless Access Control

If you choose 'Allowed Listed', only those clients whose wireless MAC addresses are in the access control list will be able to connect to your Access Point. When 'Deny Listed' is selected, these wireless clients on the list will not be able to connect the Access Point.

Wireless Access Control Mode:

MAC Address: Comment:

Current Access Control List:

MAC Address	Comment	Select

- (2.) You will find out that the MAC address appears on **Current Access Control List**, it means the initiation is completed.

Wireless Access Control

If you choose 'Allowed Listed', only those clients whose wireless MAC addresses are in the access control list will be able to connect to your Access Point. When 'Deny Listed' is selected, these wireless clients on the list will not be able to connect the Access Point.

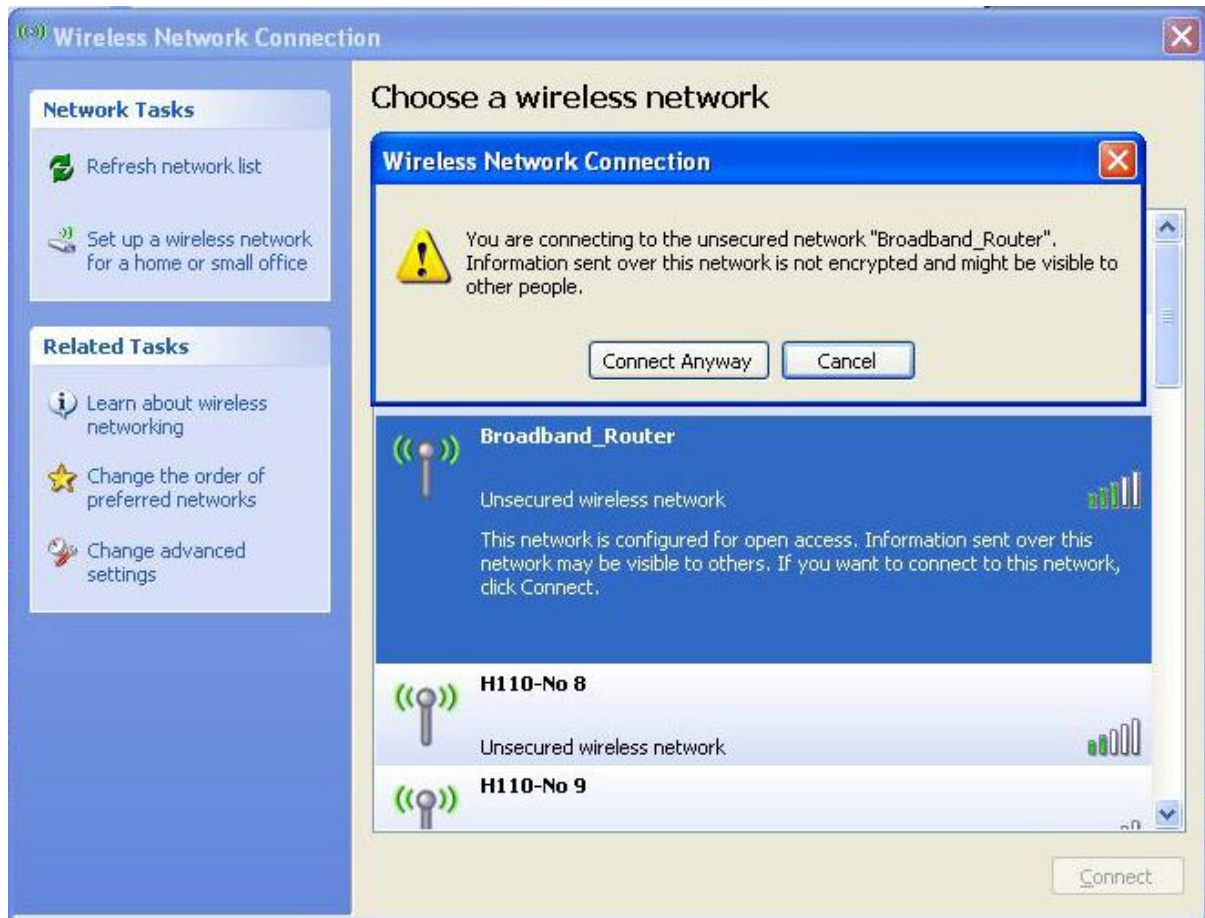
Wireless Access Control Mode:

MAC Address: Comment:

Current Access Control List:

MAC Address	Comment	Select
00:d0:41:b0:d1:17		<input type="checkbox"/>

- (3.) Please open wireless card UI and try to connect to this router. You will find out that the connection request will be denied.



5.2.5 WDS Settings

Wireless basic settings must enable WDS first. This function can communicate with other APs by adding MAC address into the same channel.

WDS Settings

Wireless Distribution System uses wireless media to communicate with other APs, like the Ethernet does. To do this, you must set these APs in the same channel and set MAC address of other APs which you want to communicate with in the table and then enable the WDS.

Enable WDS

MAC Address:

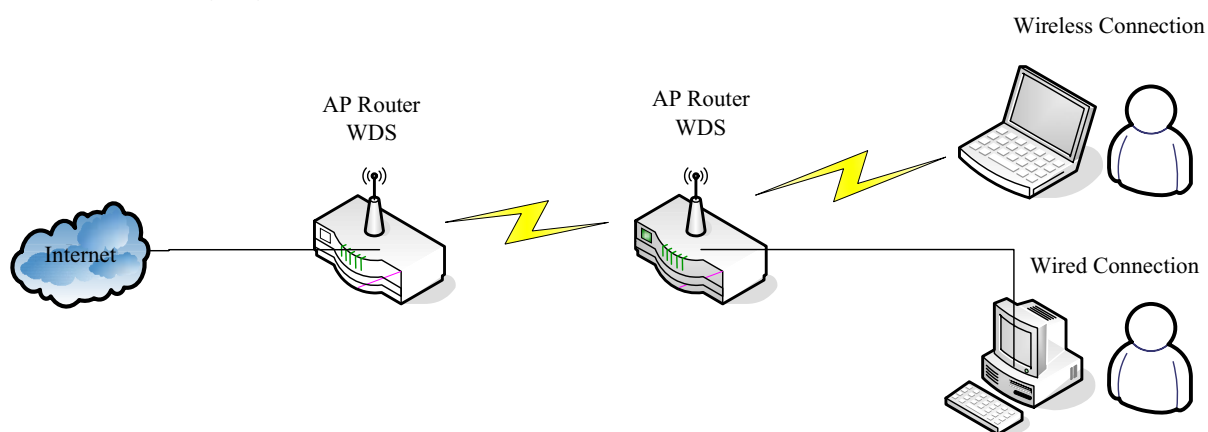
Data Rate:

Comment:

Current WDS AP List:

MAC Address	Tx Rate (Mbps)	Comment	Select
-------------	----------------	---------	--------

*The following figure is the explanation.



*Please follow the instructions to setup the connection.

(1.) Please check the MAC address and Channel number of the upper level device.

Wireless Configuration	
Mode	AP
Band	2.4 GHz (B+G)
SSID	Server_Router
Channel Number	9
Encryption	Disabled
MAC Address	00:e0:4c:81:86:21
Associated Clients	0
LAN Configuration	
Attain IP Protocol	Fixed IP
IP Address	192.168.1.1
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
DHCP Server	Enabled
MAC Address	00:e0:4c:81:86:21

(2.) Enter the **Wireless Basic Settings** page, select **AP+WDS** mode, and then select the **Channel Number**. Click **Apply Changes** to save the setting data.

(3.) Enter the **WDS Settings** page, select **Enable WDS**, and then input the MAC address of the upper level device. Click **Apply Changes** to save the setting data.

WDS Settings

Wireless Distribution System uses wireless media to communicate with other APs, like the Ethernet does. To do this, you must set these APs in the same channel and set MAC address of other APs which you want to communicate with in the table and then enable the WDS.

Enable WDS

MAC Address:

Data Rate:

Comment:

Current WDS AP List:

MAC Address	Tx Rate (Mbps)	Comment	Select

- (4.) When the time counts down to 0, you will see the MAC address of the upper level device displaying on **Current WDS AP List**.

WDS Settings

Wireless Distribution System uses wireless media to communicate with other APs, like the Ethernet does. To do this, you must set these APs in the same channel and set MAC address of other APs which you want to communicate with in the table and then enable the WDS.

Enable WDS

MAC Address:

Data Rate:

Comment:

Current WDS AP List:

MAC Address	Tx Rate (Mbps)	Comment	Select
00:0e:68:ff:05:c8	Auto		<input type="checkbox"/>

(5.) Head back to **LAN Interface**, disable **DHCP** option, and then click **Apply Changes** to save the setting data.

LAN Interface Setup

This page is used to configure the parameters for local area network which connects to the LAN port of your Access Point. Here you may change the setting for IP address, subnet mask, DHCP, etc..

Device Name:	<input type="text" value="Server_Router"/>
IP Address:	<input type="text" value="192.168.1.1"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>
Default Gateway:	<input type="text" value="0.0.0.0"/>
DHCP:	<input type="text" value="Disabled"/> ▾
DHCP Client Range:	<input type="text" value="192.168.1.100"/> - <input type="text" value="192.168.1.200"/> <input type="button" value="Show Client"/>
Static DHCP:	<input type="text" value="Disabled"/> ▾ <input type="button" value="Set Static DHCP"/>
802.1d Spanning Tree:	<input type="text" value="Disabled"/> ▾
Clone MAC Address:	<input type="text" value="000000000000"/>

(6.) The MAC address of the upper level device is going to setup like the MAC address of the router. Enter the upper level device's **WDS settings** page, and input router's MAC address. Click **Apply Changes** to save the setting data.

WDS Settings

Wireless Distribution System uses wireless media to communicate with other APs, like the Ethernet does. To do this, you must set these APs in the same channel and set MAC address of other APs which you want to communicate with in the table and then enable the WDS.

Enable WDS

MAC Address:

Data Rate:

Comment:

Please input the MAC address of this router.

Current WDS AP List:

MAC Address	Tx Rate (Mbps)	Comment	Select
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- (7.) After initiating the upper level device, please check Local Area Connections. Click Supports to check out the IP address which is assigned by upper level device.