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FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against radio interference in a commercial environment. This equipment can generate, use and radiate radio frequency energy and, if not installed and used in accordance with the instructions in this manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause interference, in which case the user, at his own expense, will be required to take whatever measures are necessary to correct the interference.

CE Declaration of Conformity

This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022/A1 Class B.

The specification is subject to change without notice.

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How do I connect router by using wireless?

Chapter 1 Introduction

Congratulations on your purchase of this outstanding Wireless Broadband Router. This product is specifically designed for Small Office and Home Office needs. It provides a complete SOHO solution for Internet surfing, and is easy to configure and operate even for non-technical users. Instructions for installing and configuring this product can be found in this manual. Before you install and use this product, please read this manual carefully for fully exploiting the functions of this product.

1.1 Packing List

items	Description	Contents	Quantity
1	WiFi Broadband Router		1
3	Power adapter 5V 1A		1
4	CD		1

- Wireless broadband router unit
- Installation CD-ROM
- Power adapter

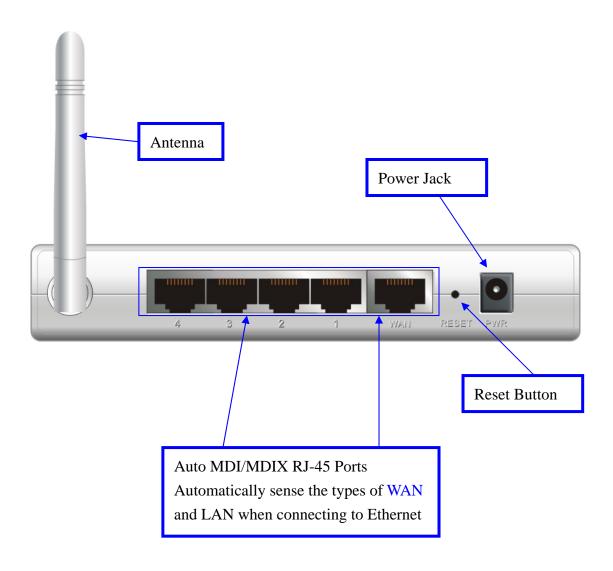
1.2 Spec Summary Table

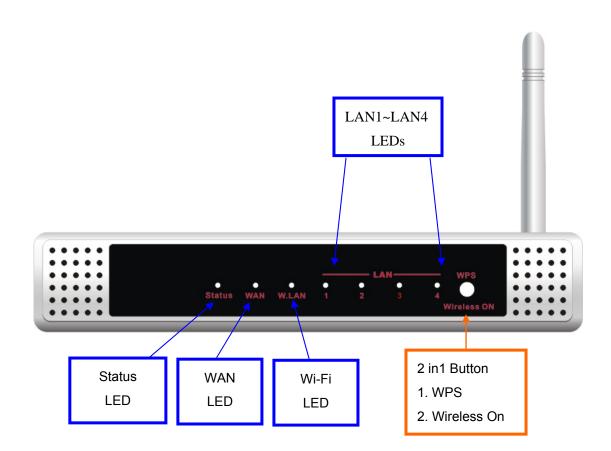
Device Interface		CDE530AM-002	
	RJ-45 port, 10/100Mbps,	CDE330AIN-002	
Ethernet WAN	auto-MDI/MDIX	1	
	RJ-45 port, 10/100Mbps,		
Ethernet LAN	auto-MDI/MDIX	4	
Antenna	2 dBi fixed antenna	1	
WPS		1	
Button/Wireless	For WPS connection and Enable	1	
On	"Wireless Function"	1	
Reset Button	Reset to Factory Default setting	1	
LED Indication	Status / WAN / LAN1 ~ LAN4/ WiFi	•	
	DC Power Jack, powered via external	•	
Power Jack	DC 5V/1A switching power adapter	1	
Wireless LAN (WiFi	U		
Standard	IEEE 802.11b/g/n-lite compliance	•	
SSID	SSID broadcast or in stealth mode	•	
Channel	Auto-selection, manually	•	
Channel	WEP, WPA, WPA-PSK, WPA2,	•	
Security	WER, WFA, WFA-FSR, WFA2,	•	
WPS			
WF3	WPS (Wi-Fi Protected Setup)	•	
	WMM (Wi-Fi Multimedia)	•	
Functionality	RDDaE DUCD alignt Static ID		
Ethernet WAN	PPPoE, DHCP client, Static IP	•	
WAN Connection	Auto-reconnect, dial-on-demand,	•	
	manually		
One-to-Many NAT	Virtual server, special application,	•	
	DMZ, Super DMZ(IP pass-through)	40000	
NAT Session	Support NAT session	10000	
SPI Firewall	IP/Service filter, URL blocking.	•	
DoS Protection	DoS (Deny of Service) detection and	•	
	protection		
Routing Protocol	Static route, dynamic route (RIP	•	
	v1/v2)		
Management	SNMP, UPnP IGD, syslog, DDNS	•	
Administration	Web-based UI, remote login,	•	

	backup/restore setting	
Derfermense	NAT up to 90Mbps and Wireless up	
Performance	to70Mbps	
Environment & Cert	ification	
Package	CDE530AM-002, DC 5V/1A power	
Information	adapter, Quick Installation Guide	
	Device dimension (mm)	
	Package dimension	156x110x22
Package	(246x210x62mm) SP/MP/ZP	150X110X22
Information	Package dimension	
Information	(214x146x69mm) PP	•
	Package dimension	
	(290x234x100mm) AP	0
Operation Tomp	Temp.: 0~40oC, Humidity 10%~90%	
Operation Temp	non-condensing	•
Storago Tomp	Temp.: -10~70oC, Humidity: 0~95%	
Storage Temp	non-condensing	•
EMI Certification	CE/FCC compliance	•
RoHS	RoHS compliance	•

*Specifications are subject to change without prior notice.

1.3 Hardware Configuration





1.4 LED indicators

	LED status	Description		
Status	Green in flash	Device status is working.		
WAN LED	Green	RJ45 cable is plugged		
	Green in flash	Data access		
LANLED	Green	RJ45 cable is plugged		
	Green in flash	Data access		
	Green	WLAN is on		
WiFi LED	Green in flash	Data access		
	Green in fast flash	Device is in WPS PBC mode		
	Green in dark	Wi-Fi Radio is disabled		

1.5 Button Definition

	Description
Enable	1. When Wireless is off, press this button (about 1 sec) to enable "Wireless Radio".
"Wireless" and WPS	2. When Wireless is On, press this button (about 1 sec)to execute WPS function.
Reset	Press (6) sec to reset to default when the device works simultaneously.

1.6 Procedure for Hardware Installation

Step 1 Insert the Ethernet cable into LAN Port:

Insert the Ethernet patch cable into LAN port on the back panel of Router, and an available Ethernet port on the network adapter in the computer you will use to configure the unit.

Step 2 Insert the Ethernet patch cable into Wired WAN port:

Insert the Ethernet patch cable form DSL Modem into Wired WAN port on the back panel of Router.

Step 3 Power on Router:

Connect the power adapter to the receptor on the back panel of your Router.



Step 5. Complete the setup.

When complete, the Status LED will flash.



Chapter 2 Getting Start

Insert the CD into CD reader on your PC. The program, AutoRun, will be executed automatically.

And then you can click the Easy setup Icon for this utility.

Configure the settings by the following steps.

2.1.Select Language then click "Next" for continues.

You can select Wizard mode to run the setup

diagnose the network settings of the router.

step-by-step or run advanced mode to

2.2 Setup mode

🐛 WiFi Broadband Router	\mathbf{X}
	Welcome to the Easy Setup for WiFi Broadband Router This wizard will guide you to simply and quickly configure the WiFi Broadband Router.
3	Select Language: English
	< Back Next > Cancel
🛃 WiFi Broadband Router	X
Setup Mode This step will let you to choose	one of the setup modes.
This step-by-st Internet.	ep guide will let you easily and quickly connect to the
This will provis Router.	de a diagnostic of your network and the settings used by the

< Back

Next >

Cancel

2.3 Advanced mode Setup.

Check the PC, Router or Internet icons for the Status of PC, Router or Internet.

🚛 Wi	Fi Broad	band Ro	uter							×
Ne			and Settin Id setup you							
You	ı can select	the item to	monitor or	to setup y	our netwo	rk.				
	P	- c		R	outer			Inte	emet	
	Re	fresh	Internet se	rvice is wo	rking					
	Help				< B:	ack	Next	>	Cancel	
🧲 Wi	Fi Broad	band Ro	uter							X
Рте	e pare Set This step		sure connec	tion can be	establish	ed betwe	en your PC	and Ro	outer	
1. M 2. M	iake sure ti iake sure y	he Router i /our netwo:	owing items. s powered o ck adapter is ck adapter h	n. connected	to the L <i>1</i> dress.	AN port o	f the Rout	er.		
						<u> </u>			6	
	Help				< B	ack	Next	>	Cancel	

2.4 Quick Wizard Install mode Setup

- 1. Make sure the router is powered on.
- 2. Make sure your network adapter is connected to the LAN port of the router
- Make sure your network adapter has an IP address.

Click "Next" for continues

2.5. Wireless Setting.

Key in the SSID, Channel and Security options, and then click "Next" for continues.

💐 WiFi Broadband Router	
This step will setup your basic v	vireless network settings.
Please assign the parameters to your the Router's configuration page.	wireless networking. If you need more settings, please login to
SSID:	default
Channel:	11 💌
Security:	Disable
Do not set at this time.	
Help	< Back Next > Cancel

2.6 Auto Detect WAN Service.

Click "Next" for continue.

Click the button, "Let me select WAN service by myself", to disable this function.

Note: The Item supports to detect the Dynamic and PPPoE WAN Services only

载 WiFi Broadband Router	×
Auto Detect WAN Service This step will automatically detect one suitable WAN service for Router	
Please make sure the WAN cable connection is working between your Router and broadband modem.	
You can ignore the WAN cable connection, but the WAN service will not be checked later.	
You can set it manually if you know your WAN service type.	
Let me select WAN service by myself	
Help < Back Next > Cancel	

Example, the Dynamic WAN type is detected.

🚛 WiFi Broadband Router	×
Auto Detect WAN Service This step will automatically detect one suitable WAN service for Router	
A dynamic IP service has been found for your WAN. The following setup steps will be based on this setting.	
If dynamic IP is not your expected WAN service, please select the correct one manually.	
Let me select WAN service by myself	
Help <a>K <a>K<td>٦</td>	٦

2.7. Manual select WAN Service

In the manual mode, Click the any icons for continues.

2.8 Summary of the settings and Next to "Reboot"

Click "Next" for continue.

🛴 WiFi Broadband I	Router			
Select WAN Servi This step lets you	ce 1 select WAN service by	v yourself		
Please select the WAN	service for setup.			
Dy	namic IP	Static IP	S PPPoE	
	S PPTP		SigPond	
Help		< Back	Next >	Cancel

2.9 Apply the Settings or Modify.

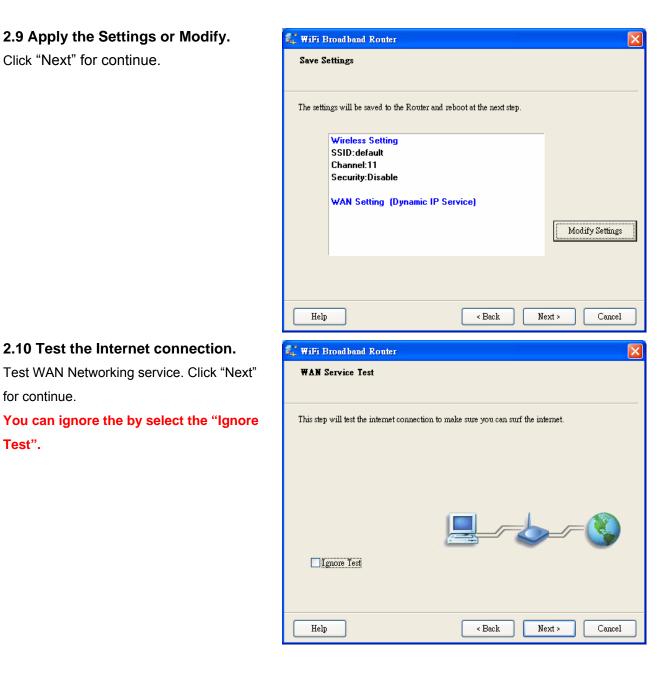
2.10 Test the Internet connection.

for continue.

Test".

Test WAN Networking service. Click "Next"

Click "Next" for continue.



2.11 Setup Completed.

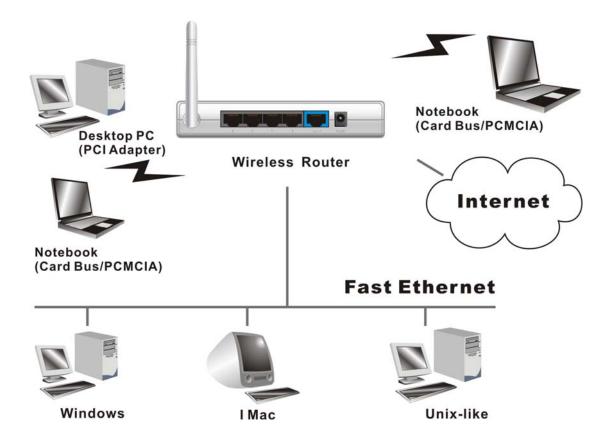
The EzSetup is finish, you can open the default web browser to configure advanced settings of the Router.

Click "Finish" to complete the installation.

🛃 WiFi Broadband Router	×
Setup Completed	
The Router is configured, and the WAN service functionality is working	
Open the default web browser to access the advanced configurations	
Finish	

Chapter 3 Making Configuration

This product provides Web based configuration scheme, that is, configuring by your Web browser, such as Mozilla Firefox or or Internet Explorer. This approach can be adopted in any MS Windows, Macintosh or UNIX based platforms.



3.1 Login to Configure from Wizard

Type in the IP Address (<u>http://192.168.123.254</u>)

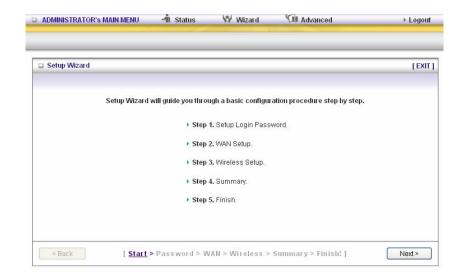
5	檔案①	編輯(E)	檢視(♡)	我的最愛(<u>A</u>)	工具(I)	說明(H)					
	() ⊥-	- 頁 • 🧉	> - 💌	1 🖻 🏠	🔎 搜尋	🍌 我	的最愛	\odot	~		W
	網址(D)	http://192	2.168.123.2	54							
1	my web s	earch 🖌				Search	• 😁 Sn	niley Cer	ntral 💻 S	Screen	savers
1	Art I	Design 🛄	LCD 🔳 CF	PU 🗍 PDA 🍕	Get More Hi	6 S	Harddisk				
	-										

Type password, the default is "admin" and click 'login' button.

USER'S MAIN MENU	🔺 Status		
	System Password :	(default: admin) Login	

Press "Wizard" for basic settings with simple way.

Please Select the Operation	s	
	•	
	2007 200 11	
	 Wizard 	
	Advanced Setup	



Press "Next" to start wizard.

Step 1:

Set up your system password.

Step 2:

Select Wan Type.

Auto Detecting or Setup Manually.

ADMINISTRATOR'S MAIN MENU	-1 Status	Wizard	Cill Advanced	▶ Logout
Setup Wizard - WAN Type Setup				[EXIT]
	A	uto Detecting WAN Ty	pe	
	O s	etup WAN Type Manu	ally	
< Back [Start :	Password > ¥	VAN > Wireless >	Summary > Finish!]	Next >

etup Wizard - Select WAN Type	I
O ISP assigns you a static IP address. (Static IP Address)	
⊙ Obtain an IP address from ISP automatically. (Dynamic IP Address)	
O Dynamic IP Address with Road Runner Session Management. (e.g. Telstra BigPone	d)
O Some ISPs require the use of PPPoE to connect to their services. (PPP over Etherne	et)
O Some ISPs require the use of PPTP to connect to their services. (PPTP)	
Some ISPs require the use of L2TP to connect to their services. (L2TP)	

Step 3: Setup the LAN IP and WAN Type.

Setup Wizard - WAN Settings - Dy	amic IP Address	[8
LAN IP Address	192.168.122.224	
 Host Name WAN's MAC Address 	00-1A-72-12-A8-89 Restore MAC	

Example:

	ADMINISTRATOR'S MAIN MENU	-11 Status	Wizard	Advanced	Logout
ep 4:					
ease fill in PPPoE service	Setup Wizard - WAN Settings - F	PPP over Ethernet			[EXI
formation which is provided by	 LAN IP Address Account 	192.168.	122.224		
ur ISP.	 Password Primary DNS 	0.0.0.0			
	 Secondary DNS PPPoE Service Name 	0.0.0.0		(optional)	
	 Assigned IP Address 	0.0.0.0	(optional		
	< Back [Start	> Password >	Wireless >	Summary > Finish!]	Next >
ep 5:	ADMINISTRATOR'S MAIN MENU	-i Status	😾 Wizard	Advanced	▶ Logot
et up your Wireless.					
	Setup Wizard - Wireless setting	IS			[EXI
			~		
	 Wireless function Network ID(SSID) 	Enab default	le ODisable		
	 Channel 	Auto 🚽			
		i ba go seba	- 5	14 Count 1000-10	
	< Back [Start	> Password > W	AN > <u>Wireless</u> >	Summary > Finish!]	Next >

Set up your Authentication and Encryption.

Setup Wizard - Wireless Sec	urity	1
Security	WEP	
WEP	● 64 bits ○ 128 bits	
Key 1	I 234567890	
Key 2	0	
Key 3	0	
Key 4	0	
	Please condifure 26 for 128bits or 10 for 64 bits A, BF) digits.	s hexadecimal (0, 1, 28, 9,

Step 6:

Then click Apply Setting.

And then the device will reboot.

Setup Wizard - 1	Summary		[EXIT
	Please confirm	the information below.	
	[WAN Setting]		
	WAN Type	Dynamic IP Address	
	Host Name	-	
	WAN'S MAC Address	00-1A-72-12-A8-89	
	[Wireless Setting]		
	Wireless	Enable	
	SSID	default	
	Channel	11	
	Security	64-bit WEP Enabled	
	🗖 Do you want to	proceed the network testing?	

Wizard

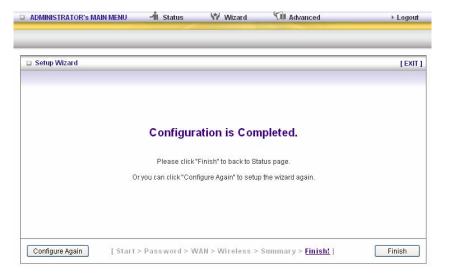
Advanced

▶ Logout

-1 Status

Step 7:

Click Finish to complete it.



D ADMINISTRATOR'S MAIN MENU

3.2 System Status

ADMINISTRATOR'S MAIN MENU	Status 💔 Wizard 🕅 Adv	anced ▶ Log
System Status		[HELP
ltem	WAN Status	Sidenote
Remaining Lease Time	00:09:54	Renew
IP Address	192.168.122.139	Release
Subnet Mask	255.255.255.0	
Gateway	192.168.122.210	
Domain Name Server	192.168.123.10, 168.95.1.1	
MAC Address	00-1A-72-12-A8-89	
Wireless Status		
Item	WLAN Status	Sidenote
Wireless mode	Enable	
SSID	default	
Channel	Auto	- C
Security	WEP	64-bit WEP
MAC Address	00-50-18-00-0F-E0	

This option provides the function for observing this product's working status:

WAN Port Status.

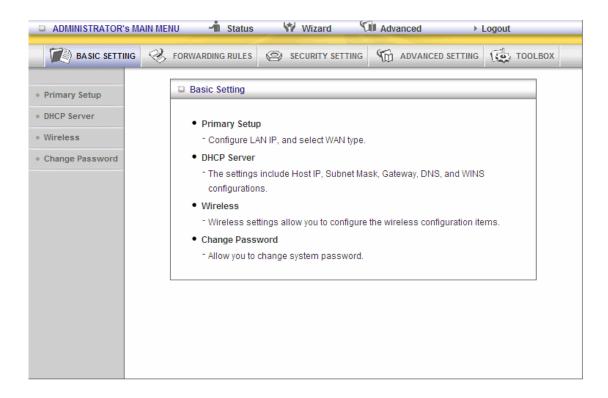
If the WAN port is assigned a dynamic IP, there may appear a "**Renew**" or "**Release**" button on the Sidenote column. You can click this button to renew or release IP manually.

Statistics of WAN: enables you to monitor inbound and outbound packets

3.3 Advanced

3.3.1 Basic Setting

Please Select "Advanced Setup" to Setup



3.3.1.1 Primary Setup - WAN Type, Virtual Computers

ADMINISTRATOR'S I	MAIN MENU 📶 Status	W	Wizard	Advanced	► Logout
BASIC SETTING	FORWARDING RULES	🕲 SECU	JRITY SETTING	M ADVANCED SETTING	TOOLBOX
Primary Setup	Primary Setup				[HELP]
DHCP Server	Item		Setting		
• Wireless	▶ LAN IP Address		192.168.12.2	24	
Change Password	WAN Type		Dynamic IP Address Change		
	Host Name			(optional)	
	WAN's MAC Address		00-1A-72-12-	A8-89 Restore MAC	
	Renew IP Forever		Enable (Auto-reconnect)		
	▶ IGMP		🗹 Enable		
		Save	Undo Virt	tual Computers	

Press "Change"

BASIC SETTIN	IG <	FORWARDING RULES	SECURITY SETTING	ADVANCED SETTING	TOOLBOX		
Primary Setup		Choose WAN Type					
DHCP Server		Туре		Usage			
Wireless	0	Static IP Address	ISP assigns you a static IP address.				
Change Password	۲	Dynamic IP Address	Obtain an IP address from ISP automatically.				
Change Password	O Dynamic IP Address with Road Runner Session Management. (e.g. Telstra BigPond)						
	0	PPP over Ethernet	rnet Some ISPs require the use of PPPoE to connect to their services.				
	0	PPTP	Some ISPs require the use of PPTP to connect to their services.				
	0	L2TP	Some ISPs require the use of L2TP to connect to their services.				

This option is primary to enable this product to work properly. The setting items and the web appearance depend on the WAN type. Choose correct WAN type before you start.

 LAN IP Address: the local IP address of this device. The computers on your network must use the LAN IP address of your product as their Default Gateway. You can change it if necessary.

ADMINISTRATOR'S I	MAIN MENU 🧐 🕺 s	tatus 🙀	Wizard 🕅 /	Advanced	⊁ Logout
BASIC SETTING	FORWARDING R	ULES 🗐 SEC	URITY SETTING	ADVANCED SETTING	TOOLBOX
Primary Setup	Primary Setup				[HELP]
DHCP Server	ltem		Setting		
• Wireless	LAN IP Address		192.168.12.224		

- 2. **WAN Type**: WAN connection type of your ISP. You can click **Change** button to choose a correct one from the following four options:
 - A. Static IP Address: ISP assigns you a static IP address.
 - B. Dynamic IP Address: Obtain an IP address from ISP automatically.
 - C. PPP over Ethernet: Some ISPs require the use of PPPoE to connect to their services.
 - D. PPTP: Some ISPs require the use of PPTP to connect to their services.
 - F. L2TP: Some ISPs require the use of L2TP to connect to their services

Static IP Address: ISP assigns you a static IP address:

WAN IP Address, Subnet Mask, Gateway, Primary and Secondary DNS: enter the proper setting provided by your ISP.

BASIC SETTIN	G 🤣 FORWARDING RULES	SECURITY SETTING	() ADVANCED SETTING	TOOLBOX		
Primary Setup	Primary Setup			(HELP		
DHCP Server	Item		Setting			
Wireless	LAN IP Address	192.168.12.2	192.168.12.224 Static IP Address Change			
Wheless Change Password	WAN Type	Static IP Add				
	▶ WAN IP Address	0.0.0.0	0.0.0.0			
	▶ WAN Subnet Mask	255.255.255	255.255.255.0			
	WAN Gateway	0.0.0.0	0.0.0.0			
	Primary DNS	0.0.0.0	0.0.0.0			
	Secondary DNS	0.0.0.0	0.0.0.0			
	▶ IGMP	🗹 Enable	Enable			
	Save Undo Virtual Computers Reboot					
	Saved! The change doesn't take effect until router is rebooted.					

Dynamic IP Address: Obtain an IP address from ISP automatically.

Host Name: optional. Required by some ISPs, for example, @Home.

Renew IP Forever: this feature enables this product to renew your IP address automatically when the lease time is expiring-- even when the system is idle.

D ADMINISTRATOR'S M	MAIN MENU 🧐 Status	W	Wizard	Cill Advance	ed	⊁ Logout
BASIC SETTING	S FORWARDING RULES	(C) SEC	URITY SETTING	M ADVA	NCED SETTING	TOOLBOX
Primary Setup	Primary Setup					[HELP]
DHCP Server	Item				Setting	
• Wireless	▶ LAN IP Address		192.168.12.2	24		
Change Password	VVAN Type	Dynamic IP Address Change				
	Host Name		(optional)			
	WAN's MAC Address	00-1A-72-12-A8-89 Restore MAC				
	Renew IP Forever	Enable (Auto-reconnect)				
	▶ IGMP	🗹 Enable				
	Save Undo Virtual Computers Reboot					
	Saved! The change doesn't take effect until router is rebooted.					

PPP over Ethernet: Some ISPs require the use of PPPoE to connect to their services. PPPoE Account and Password: the account and password your ISP assigned to you. For security, this field appears blank. If you don't want to change the password, leave it empty.

PPPoE Service Name: optional. Input the service name if your ISP requires it. Otherwise, leave

it blank.

Maximum Idle Time: the amount of time of inactivity before disconnecting your PPPoE session.

Set it to zero or enable Auto-reconnect to disable this feature.

Maximum Transmission Unit (MTU): Most ISP offers MTU value to users. The most common MTU value is 1492.

Connection Control: There are 3 modes to select:

Connect-on-demand: The device will link up with ISP when the clients send outgoing packets. Auto-Reconnect(Always-on):The device will link with ISP until the connection is established. Manually :The device will not make the link until someone clicks the connect-button in the Staus-page.

ADMINISTRATOR'S M	IAIN MENU 🚽 🕺 Status	W	Wizard	Cill Advanced	1	▶ Logout
BASIC SETTING	S FORWARDING RULES	SEC	URITY SETTING	ADVAN	CED SETTING	TOOLBOX
Primary Setup	Primary Setup		,			[HELP]
DHCP Server	ltem			5	Setting	
Wireless	LAN IP Address		192.168.12.2	24		
Change Password	WAN Type		PPP over Ethernet Change			
	PPPoE Account					
	PPPoE Password		•••••		_	
	Primary DNS		0.0.0.0			
	Secondary DNS		0.0.0.0			
	Maximum Idle Time		300 seconds			
	Connection Control		Connect-on-demand			
	PPPoE Service Name		(optional)			
	Assigned IP Address		0.0.0.0 (optional)			
	▶ MTU		1492			
	▶ IGMP		🗹 Enable			
		Sa	ave Undo	Reboot		

PPTP: Some ISPs require the use of PPTP to connect to their services

First, Please check your ISP assigned and Select Static IP Address or Dynamic IP Address.

1. My IP Address and My Subnet Mask: the private IP address and subnet mask your ISP assigned to you.

- 2. Server IP Address: the IP address of the PPTP server.
- 3. PPTP Account and Password: the account and password your ISP assigned to you. If

you don't

want to change the password, keep it empty.

4. Connection ID: optional. Input the connection ID if your ISP requires it.

5. Maximum Idle Time: the time of no activity to disconnect your PPTP session. Set it to zero or

enable Auto-reconnect to disable this feature. If Auto-reconnect is enabled, this product will connect to ISP automatically, after system is restarted or connection is dropped. Connection Control: There are 3 modes to select:

Connect-on-demand: The device will link up with ISP when the clients send outgoing packets. Auto-Reconnect(Always-on):The device will link with ISP until the connection is established. Manually: The device will not make the link until someone clicks the connect-button in the Staus-page.

D ADMINISTRATOR'S M	IAIN MENU 🚽 🕯 Status	Wizaro	I Will Advanced	► Logout	
BASIC SETTING	S FORWARDING RULES	SECURITY S	ETTING 🏠 ADVANCED SE	TTING	
Primary Setup	Primary Setup			[HELP]	
DHCP Server	Item		Setting		
Wireless	LAN IP Address	192.1	68.12.224		
Change Password	VVAN Type	РРТР	Change		
	▶ IP Mode	Stati	c IP Address 🛛 👻		
	My IP Address	0.0.0	.0		
	My Subnet Mask	255.2	255.255.0		
	Gateway IP	0.0.0	.0		
	Server IP Address/Name				
	PPTP Account				
	PPTP Password	••••	•		
	Connection ID		(optiona	1)	
	Maximum Idle Time	300	300 seconds		
	Connection Control	Con	nect-on-demand 🛛 👱		
	MTU	1460			
	▶ IGMP	✓ E	nable		
		Save	Undo Reboot		

L2TP: Some ISPs require the use of L2TP to connect to their services

First, Please check your ISP assigned and Select Static IP Address or Dynamic IP Address. For example: Use Static

1. My IP Address and My Subnet Mask: the private IP address and subnet mask your ISP assigned

to you.

2. Server IP Address: the IP address of the PPTP server.

3. PPTP Account and Password: the account and password your ISP assigned to you. If you don't

want to change the password, keep it empty.

- 3. Connection ID: optional. Input the connection ID if your ISP requires it.
- 4. Maximum Idle Time: the time of no activity to disconnect your PPTP session. Set it to zero or

enable Auto-reconnect to disable this feature. If Auto-reconnect is enabled, this product will connect to ISP automatically, after system is restarted or connection is dropped.

Connection Control: There are 3 modes to select:

Connect-on-demand: The device will link up with ISP when the clients send outgoing packets. Auto-Reconnect(Always-on):The device will link with ISP until the connection is established. Manually :The device will not make the link until someone clicks the connect-button in the Staus-page.

D ADMINISTRATOR'S N	AAIN MENU 🚽 🕺 Status	W	Wizard	Advanced	► Logout
BASIC SETTING	S FORWARDING RULES	SECO	URITY SETTING	M ADVANCED SETTING	TOOLBOX
Primary Setup	Primary Setup				[HELP]
DHCP Server	ltem			Setting	
Wireless	LAN IP Address		192.168.12.2	24	
Change Password	WAN Type		L2TP Chan	ge	
- changer according	▶ IP Mode		Static IP Add	ress 👻	
	 IP Address Subnet Mask 		0.0.0.0 255.255.255.0		
	WAN Gateway IP		0.0.0.0		
	Server IP Address/Name				
	L2TP Account				
	L2TP Password		•••••		
	Maximum Idle Time		300 seconds		
	Connection Control		Connect-on-demand		
	▶ MTU		1460		
	▶ IGMP		🗹 Enable		
		Sa	ave Undo	Reboot	

Virtual Computers(Only for Static and dynamic IP address Wan type)

BASIC SETTIN	G 🤣 FORM	VARDING RULES 🛞 SECURITY SETTING	Advanced setting	TOOLBOX
Primary Setup	Uirtual Co	omputers		[HELI
DHCP Server		DHCP clients Select one	Copy to ID 👻	
Wireless	ID	Global IP	Local IP	Enable
Change Password	1		192.168.12.	
	2		192.168.12.	
llow you to etup the	3		192.168.12.	
ne-to-one napping of	4		192.168.12.	
nultiple global IP ddress and	5		192.168.12.	

Virtual Computer enables you to use the original NAT feature, and allows you to setup the one-to-one mapping of multiple global IP address and local IP address.

- Global IP: Enter the global IP address assigned by your ISP.
- Local IP: Enter the local IP address of your LAN PC corresponding to the global IP address.
- Enable: Check this item to enable the Virtual Computer feature.

BASIC SETTING	FORWARDING RULES (C) S	ECURITY SETTING TOOLBOX			
Primary Setup	DHCP Server	[HELP			
DHCP Server	Item	Setting			
Wireless	DHCP Server	O Disable 💿 Enable			
Change Password	▶ Lease Time	5 Minutes			
change rassword	IP Pool Starting Address	100			
	IP Pool Ending Address	199			
	▶ Domain Name				
	Primary DNS	0.0.0.0			
	Secondary DNS	0.0.0.0			
	Primary WINS	0.0.0.0			
	Secondary WINS	0.0.0.0			
	▶ Gateway	0.0.0.0 (optional)			

3.3.1.2 DHCP Server

Press "More>>"

- 1. **DHCP Server**: Choose "Disable" or "Enable."
- 2. **Lease time**: This is the length of time that the client may use the IP address it has been

Assigned by dhcp server.

3. IP pool starting Address/ IP pool starting Address: Whenever there is a request, the DHCP

server will automatically allocate an unused IP address from the IP address pool to the requesting computer. You must specify the starting and ending address of the IP address pool.

- 4. **Domain Name**: Optional, this information will be passed to the client.
- 5. **Primary DNS/Secondary DNS**: This feature allows you to assign DNS Servers
- 6. **Primary WINS/Secondary WINS**: This feature allows you to assign WINS Servers
- 7. **Gateway**: The Gateway Address would be the IP address of an alternate Gateway.

This function enables you to assign another gateway to your PC, when DHCP server offers an IP to your PC.

8. **DHCP Client List**:

ADMINISTRATOR's	MAIN MENU 🚽 🕺 Statu	s 💔 Wizard	Cill Advanced	▶ Logout
BASIC SETTIN	G 🤣 FORWARDING RULES	S SECURITY SETTING	M ADVANCED SETTING	TOOLBOX
Primary Setup	DHCP Clients List			
DHCP Server	IP Address	Host Name	MAC Address	Select
Wireless	192.168.12.149	amitnb	00-1D-72-12-A8-7F	· 🔲
Change Password		Wake up Delete	Back Refresh	(XC)

3.3.1.3 Wireless Setting

BASIC SETTING	FORWARDING RULES		ADVANCED SETTING	TOOLBOX	
Primary Setup	Wireless Setting			(HELP	
DHCP Server	Item		Setting		
• Wireless	Wireless	⊙ Enable ODisa	able		
Change Password	Network ID(SSID)	default			
Change Password	Wireless Mode	Mixed mode C	Mixed mode O11g only O11b only		
	SSID Broadcast	⊙Enable ○Disa	⊙ Enable ○ Disable		
	Channel	Auto 🐱	Auto 👱		
	▶ WDS	Enter	Enter		
	▶ WPS	Enter	Enter		
	Security	WEP	WEP		
	Key Mode	HEX 👻	HEX 🖌		
	WEP	● 64 bits ○ 12	● 64 bits □ 128 bits		
	Key 1	1234567890 123456789 123456789 123456789 12345	I 1234567890		
	▶ Key 2	0			
	▶ Key 3	0	0		
	Key 4	0			
		Save Undo Wire	eless Client List		

Wireless settings allow you to set the wireless configuration items. **Wireless :** The user can enable or disalbe wireless function.

Network ID (SSID): Network ID is used for identifying the Wireless LAN (WLAN). Client stations can roam freely over this product and other Access Points that have the same Network ID. (The factory setting is "**default**")

SSID Broadcast: The router will Broadcast beacons that have some information, including ssid so that

The wireless clients can know how many ap devices by scanning function in the network. Therefore,

This function is disabled, the wireless clients can not find the device from beacons.

Channel: The radio channel number. The permissible channels depend on the Regulatory Domain.

WPS (WiFi Protection Setup)

WPS is WiFi Protection Setup which is similar to WCN-NET and offers safe and

easy way in Wireless Connection.

ADMINISTRATOR'S N	IAIN MENU 🚽 🕯 Status	💜 Wizard	Advanced	▶ Logout		
BASIC SETTING	S FORWARDING RULES	SECURITY SETTING	Advanced Setting	TOOLBOX		
Primary Setup	UVI-Fi Protected Setup					
DHCP Server	Item	Setting				
Wireless	▶ WPS	💿 Enable 🔿 Disable				
Change Password	▶ Setup	 Current AP PIN Configure Wireless Station 				
	Current PIN of the device	17610346 Generate New PIN				
	WPS state	Idle				
	▶ WPS status	Configured Release				
	Saved! 1		Back Reboot fect until router is rebooted.			

WDS(Wireless Distribution System)

WDS operation as defined by the IEEE802.11 standard has been made available. Using WDS it is possible to wirelessly connect Access Points, and in doing so extend a wired infrastructure to locations where cabling is not possible or inefficient to implement.

ADMINISTRATOR'S I	MAIN MENU 🚽 🕯 Status	Wizard	Advanced	► Logout
	FORWARDING RULES	SECURITY SETTING	ADVANCED SETTING	TOOLBOX
Primary Setup	WDS Setting [HELP]			
DHCP Server	Item	Setting		
Wireless	► AP Mode:	AP Only		
Change Password	► Remote AP MAC MAC 1			
	MAC 2			
It is a system	MAC 3			
that enables the interconnection of access points wirelessly.	MAC 4			
	Scaned AP's MAC Select one Copy to Remote AP MAC 💌			
	SSID	Channel	MAC Address	
	Jay_189AS_test	1	00-50-18-00-0F-0B	
	Jay_189AS1_test	1	00-50-18-00-0F-0C	
	Jay_189AS2_test	1	00-50-18-00-0F-0D	
	aaron2	1	00-50-18-00-0F-FE	
	AD Storado	4	00_50_18_9	1_D1_7F

Security: Select the data privacy algorithm you want. Enabling the security can protect your

data while it is transferred from one station to another.

There are several security types to use:

WEP :

When you enable the 128 or 64 bit WEP key security, please select one WEP key to be used and input 26 or 10 hexadecimal (0, 1, 2...8, 9, A, B...F) digits.

802.1X

Check Box was used to switch the function of the 802.1X. When the 802.1X function is enabled, the Wireless user must **authenticate** to this router first to use the Network service. RADIUS Server

IP address or the 802.1X server's domain-name. RADIUS Shared Key

Key value shared by the RADIUS server and this router. This key value is consistent with the key value in the RADIUS server.

ADMINISTRATOR'S M	IAIN MENU 🚽 🕯 Statu	s ¥	Vizard 🖌	Cill Advanced	► Logout	
BASIC SETTING	S FORWARDING RULES	s @ s	ECURITY SETTING	M ADVANCED SETTING	TOOLBOX	
Primary Setup	Wireless Setting				[HELP]	
DHCP Server	Item			Setting		
Wireless	► Wireless			⊙ Enable ○ Disable		
Change Password	Network ID(SSID)		default			
• Change Password	Wireless Mode		Mixed mode ○ 11g only ○ 11b only			
	SSID Broadcast		● Enable ○ Disable			
	▶ Channel		Auto 👱			
-	▶ WDS	(Enter			
	▶ WPS		Enter			
-	Security		802.1x and RADIUS			
	Encryption Key Length		● 64 bits ○ 128 bits			
	RADIUS Server IP		0.0.0			
	RADIUS port	-	1812			
	RADIUS Shared Key					
		Save	Undo Win	eless Client List		



1. Select Encryption and Pre-share Key Mode

If you select HEX, you have to fill in 64 hexadecimal (0, 1, 2...8, 9, A, B...F) digits

If ASCII, the length of pre-share key is from 8 to 63.

2. Fill in the key, Ex 12345678

ADMINISTRATOR'S M	AAIN MENU 🧐 Status	💔 Wizard	Cill Advanced	▶ Logout	
BASIC SETTING	S FORWARDING RULES	SECURITY SETTING	ADVANCED SETTING	TOOLBOX	
Primary Setup	Wireless Setting			[HELP]	
DHCP Server	ltem		Setting		
• Wireless	Wireless	💿 Enable 🔘 Dis			
Change Password	Network ID(SSID)	default	default		
• Change Password	Wireless Mode	◎ Mixed mode	Mixed mode ○ 11g only ○ 11b only		
	SSID Broadcast	⊙ Enable ◯ Dis	⊙Enable ○Disable		
	Channel	Auto 👻	Auto 💌		
	▶ WDS	Enter	Enter		
	▶ WPS	Enter	Enter		
	Security	WPA-PSK	WPA-PSK		
	Encryption		⊙ TKIP ○ AES		
	Preshare Key Mode	ASCII 🐱	ASCII 💌		
	Preshare Key				
		Save Undo Wir	eless Client List		

WPA

Check Box was used to switch the function of the WPA. When the WPA function is enabled, the Wireless user must **authenticate** to this router first to use the Network service. RADIUS Server IP address or the 802.1X server's domain-name.

Select Encryption and RADIUS Shared Key

If you select HEX, you have to fill in 64 hexadecimal (0, 1, 2...8, 9, A, B...F) digits

If ASCII, the length of pre-share key is from 8 to 63.

Key value shared by the RADIUS server and this router. This key value is consistent with the key value in the RADIUS server.

WPA2-PSK(AES)

1. Select Pre-share Key Mode

If you select HEX, you have to fill in 64 hexadecimal (0, 1, 2...8, 9, A, B...F) digits

If ASCII, the length of Pre-share key is from 8 to 63.

2. Fill in the key, Ex 12345678

WPA2(AES)

Check Box was used to switch the function of the WPA. When the WPA function is enabled, the Wireless user must **authenticate** to this router first to use the Network service. RADIUS Server

IP address or the 802.1X server's domain-name. Select RADIUS Shared Key

If you select HEX, you have to fill in 64 hexadecimal (0, 1, 2...8, 9, A, B...F) digits

If ASCII, the length of Pre-share key is from 8 to 63.

Key value shared by the RADIUS server and this router. This key value is consistent with the key value in the RADIUS server.

WPA-PSK /WPA2-PSK

The router will detect automatically which Security type the client

uses to encrypt.

1. Select Pre-share Key Mode

If you select HEX, you have to fill in 64 hexadecimal (0, 1, 2...8, 9, A, B...F) digits

If ASCII, the length of Pre-share key is from 8 to 63.

2. Fill in the key, Ex 12345678

ADMINISTRATOR'S	MAIN MENU 🚽 🕺 Status	😾 Wizard	Chill Advanced	► Logout	
BASIC SETTING	6 🤣 FORWARDING RULES		ADVANCED SETTING	TOOLBOX	
Primary Setup	Wireless Setting				
DHCP Server	Item		Setting		
Wireless	▶ Wireless	💿 Enable 🔘 Dis	● Enable ○ Disable		
Change Password	Network ID(SSID)	default	default		
· change rassword	Wireless Mode	O Mixed mode <	Mixed mode ○ 11g only ○ 11b only		
	SSID Broadcast	💿 Enable 🔘 Dis	Senable ○ Disable		
	Channel		Auto 💌		
	> WDS	Enter	Enter		
	▶ WPS	Enter	Enter		
	Security	WPA-PSK/WPA2-	WPA-PSK/WPA2-PSK		
	Encryption	TKIP + AES	TKIP + AES		
	Preshare Key Mode	ASCII 🐱	ASCI		
	Preshare Key				
		Save Undo Win	eless Client List		

WPA/WPA2

Check Box was used to switch the function of the WPA. When the WPA function is enabled, the Wireless user must **authenticate** to this router first to use the Network service. RADIUS Server

The router will detect automatically which Security type(Wpa-psk version 1 or 2) the client

uses to encrypt.

IP address or the 802.1X server's domain-name.

Select RADIUS Shared Key

If you select HEX, you have to fill in 64 hexadecimal (0, 1, 2...8, 9, A, B...F) digits

If ASCII, the length of Pre-share key is from 8 to 63.

Key value shared by the RADIUS server and this router. This key value is consistent with the key value in the RADIUS server.

Wireless Client List

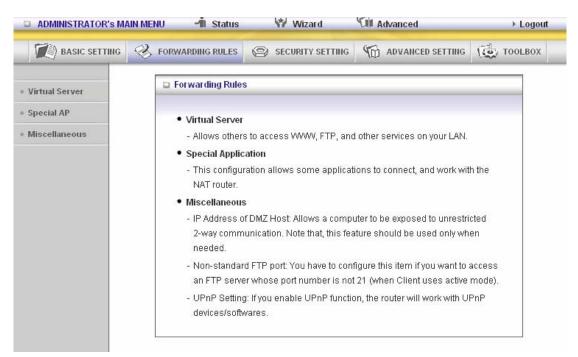
ADMINISTRATOR'S	MAIN MENU 🚽 🕺 Status	🖤 Wizard	Cill Advanced	▶ Logout
BASIC SETTI	G S FORWARDING RULES		ADVANCED SETTING	TOOLBOX
Primary Setup	Wireless Client List			
DHCP Server	Connected 1	fime	MAC Addres	55
	Tue Jan 26 09:39:58 2010	0(D-1C-BF-00-C6-37	
Wireless		Back	efresh	
Change Password				

3.3.1.4 Change Password

ADMINISTRATOR's	MAIN MENU 🚽 🕺 Status	💔 Wizard	Advanced	► Logout
BASIC SETTIN	G 😵 FORWARDING RULES	SECURITY SETTING	M ADVANCED SETTING	TOOLBOX
Primary Setup	Change Password			
DHCP Server	Item		Setting	
Wireless	Old Password	••••		
Change Password	▶ New Password			
	▶ Reconfirm			
		Save	Jndo	

You can change Password here. We **strongly** recommend you to change the system password for security reason.

3.3.2 Forwarding Rules



3.3.2.1 Virtual Server

BASIC SETTIN	ie 🛞	FORWARDING RULES	SECURITY SETT	NG TO ADVANCED	SETTING	TOOLBOX		
Virtual Server	🗆 Virte	ial Server				[HELP		
Special AP Miscellaneous	Well known services POP3 (110) Schedule rule (00)Always V Copy to ID 3 V							
miscenaricous	ID	Server IP	Service P	orts Protocol	Enable	Schedule Rule#		
	1	192.168.12.123	21	Both 🛩		0		
	2	192.168.12.1	25	Both 🛩		0		
	3	192.168.12.1	110	Both 🛩		0		
	4	192.168.12.		Both 💌		0		
	5	192.168.12.		Both 😒		0		
	6	192.168.12.		Both 💌		0		
	7	192.168.12.		Both 💌		0		
	8	192.168.12.		Both 💌		0		
	9	192.168.12.		Both 🛩		0		
	10	192.168.12.		Both 😒		0		

This product's NAT firewall filters out unrecognized packets to protect your Intranet, so all hosts behind this product are invisible to the outside world. If you wish, you can make some of them accessible by enabling the Virtual Server Mapping.

A virtual server is defined as a **Service Port**, and all requests to this port will be redirected to the computer specified by the **Server IP**. **Virtual Server** can work with **Scheduling Rules**, and give user more flexibility on Access control. For Detail, please refer to **Scheduling Rule**.

3.3.2.2 Special AP

BASIC SETT	IIIG 🤣 FOI	WARDING RULES	SECURITY SETTING	M ADVANCED SETTING	TOOLBOX
Virtual Server	Special	Applications			[HELF
Special AP		Popular appl	ications MSN Gaming 2	Zone 👻 Copy to ID 2 💌]
Miscellaneous	ID	Trigger		ncoming Ports	Enable
	1	7175	51200-51201	,51210	~
	2	47624	2300-2400,28	3800-29000	V
	3				
	4				
	5				
	6				
	7				
	8				

Some applications require multiple connections, like Internet games, Video conferencing, Internet telephony, etc. Because of the firewall function, these applications cannot work with a pure NAT router. The **Special Applications** feature allows some of these applications to work with this product. If the mechanism of Special Applications fails to make an application work, try setting your computer as the **DMZ** host instead.

- 1. **Trigger**: the outbound port number issued by the application..
- 2. **Incoming Ports**: when the trigger packet is detected, the inbound packets sent to the specified port numbers are allowed to pass through the firewall.

This product provides some predefined settings Select your application and click **Copy to** to add the predefined setting to your list.

Note! At any given time, only one PC can use each Special Application tunnel.

3.3.2.3 Miscellaneous Items

	's MAIN MENU 🚽 🕺 Status	💔 Wizard	Cill Advanced	▶ Logout
BASIC SETT	THIG 🤣 FORWARDING RULES		ADVANCED SETTING	TOOLBOX
Virtual Server	Miscellaneous Items			[HELP]
Special AP	Item		Setting	Enable
Miscellaneous	▶ IP Address of DMZ Host	192.16	8.12.	
	▶ Non-standard FTP port			
	▶ UPnP setting	42		V
	▶ Xbox Support			
		Save	Undo	

IP Address of DMZ Host

DMZ (DeMilitarized Zone) Host is a host without the protection of firewall. It allows a computer to be exposed to unrestricted 2-way communication for Internet games, Video conferencing, Internet telephony and other special applications.

NOTE: This feature should be used only when needed.

Non-standard FTP port

You have to configure this item if you want to access an FTP server whose port number is not 21. This setting will be lost after rebooting.

Xbox Support

The Xbox is a video game console produced by Microsoft Corporation. Please enable this function when you play games.

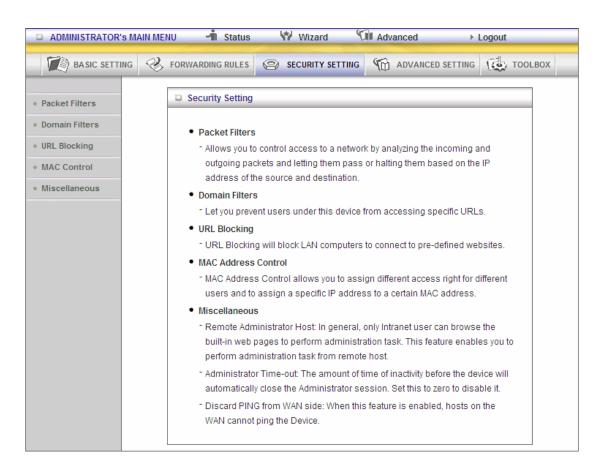
UpnP Setting

The device also supports this function. If the OS supports this function enable it, like Windows Xp. When the user get ip from Device and will see icon as below:





3.3.3 Security Settings



3.3.3.1 Packet Filters

					Advanced		_ Ji	
BASIC SETTING	S FC	RWARDING RULES	SEC 😒	URITY SETTING		ED SETTING	100 TOO	LBOX
Packet Filters	Dutbou	ind Packet Filter						[HELF
Domain Filters	Item Setting							
URL Blocking	▶ Outbound Filter			Enable				
MAC Control	-	Allow all to pass ex Deny all to pass ex	27		10761			
Miscellaneous		S	chedule rule	e (00)Always 🔽	Copy to ID	🖌		
	ID	Source IP		Destinat	ion IP : Ports	Enable	Schedule	e Rule#
	1				: 20-21		0	
	2				: 80		0	
	3				: 443		0	
	4				: 53		0	
	5				: 25		0	
	6				: 110		0	
	7				: 23		0	
	8				1.		0	

Packet Filter enables you to control what packets are allowed to pass the router. Outbound filter applies on all outbound packets. However, Inbound filter applies on packets that destined to Virtual Servers or DMZ host only. You can select one of the two filtering policies:

- 1. Allow all to pass except those match the specified rules
- 2. Deny all to pass except those match the specified rules

You can specify 8 rules for each direction: inbound or outbound. For each rule, you can define the following:

- Source IP address
- Source port address
- Destination IP address
- Destination port address
- Protocol: TCP or UDP or both.
- Use Rule#

For source or destination IP address, you can define a single IP address (4.3.2.1) or a range of IP addresses (4.3.2.1-4.3.2.254). An empty implies all IP addresses.

For source or destination port, you can define a single port (80) or a range of ports (1000-1999). Add prefix "T" or "U" to specify TCP or UDP protocol. For example, T80, U53, U2000-2999. No prefix indicates both TCP and UDP are defined. An empty implies all port

addresses. **Packet Filter** can work with **Scheduling Rules**, and give user more flexibility on Access control. For Detail, please refer to **Scheduling Rule**.

Each rule can be enabled or disabled individually.

Inbound Filter:

To enable **Inbound Packet Filter** click the check box next to **Enable** in the **Inbound Packet Filter** field.

Suppose you have SMTP Server (25), POP Server (110), Web Server (80), FTP Server (21), and News Server (119) defined in Virtual Server or DMZ Host.

BASIC SETTING	s 3	FORWARDING RULES	SECURITY S	ETTING 🌀	ADVANCE) SETTING	TOOLBOX	
Packet Filters	🗆 Inbou	und Packet Filter					(HEL	
		Item		Setting				
Oomain Filters	▶ Inbou	nd Filter	Er	Enable				
JRL Blocking	(Allow all to pass exc		273233)c			
AC Control		Deny all to pass exc						
Miscellaneous		Sc	hedule rule (00)A	lways 🖌 🖸 Co	py to D	~		
	ID	Source IP		Destination IP	Ports	Enable	Schedule Rule	
	ID 1	Source IP 1.2.3.100-1.2.3.1		Destination IP	: Ports : 25-100	Enable	Schedule Rule	
			49	Destination IP		1		
	1	1.2.3.100-1.2.3.1	49	Destination IP			0	
	1 2	1.2.3.100-1.2.3.1	49	Destination IP]	0	
	1 2 3	1.2.3.100-1.2.3.1	49	Destination IP			0	
	1 2 3 4	1.2.3.100-1.2.3.1	49	Destination IP				
	1 2 3 4 5	1.2.3.100-1.2.3.1	49	Destination IP				

(1.2.3.100-1.2.3.149) Remote hosts are allow to send mail (port 25), and browse the Internet (port 80)

(1.2.3.10-1.2.3.20) Remote hosts can do everything (block nothing)

Others are all blocked.

Example 2:

BASIC SETTING	Ì	FORWARDING RULES 🔗 SE	CURITY SETTING	M ADVANCE	ED SETTING	TOOLBOX
Packet Filters	🗆 Inbo	und Packet Filter				(HELF
Domain Filters		Iting				
	▶ Inbou	nd Filter	Enable			
URL Blocking MAC Control	1.2	Allow all to pass except those Deny all to pass except those		8 . 		
Miscellaneous		Schedule ru	le (00)Always ⊻	Copy to ID	🗙	
	ID	Source IP	Destinat	ion IP : Ports	Enable	Schedule Rule#
	1	1.2.3.100-1.2.3.199		: 21		0
	2	1.2.3.100-1.2.3.199		: 199		0
	3					0
				1.		0
	4					
	4 5					0
-						0
-	5					

(1.2.3.100-1.2.3.119) Remote hosts can do everything except read net news (port 119) and transfer files via FTP (port 21) behind Router Server. Others are all allowed.

After Inbound Packet Filter setting is configured, click the save button.

Outbound Filter:

To enable **Outbound Packet Filter** click the check box next to **Enable** in the **Outbound Packet Filter** field.

Example 1:

Router LAN IP is 192.168.12.254

BASIC SETTIN	6 S	FORWARDING RULES 😒 SEC	CURITY SETTING	M ADVANCE) SETTING	TOOLBOX	
Packet Filters	💷 Inbo	und Packet Filter			_	[HELF	
Domain Filters		Item		Setting			
URL Blocking	▶ Inbou	nd Filter	🗹 Enable				
MAC Control	 Allow all to pass except those match the following rules. Deny all to pass except those match the following rules. 						
Miscellaneous		Schedule rul	e (00)Always 峑	Copy to ID			
	ID	Source IP	Destinati	on IP : Ports	Enable	Schedule Rule#	
	1	100-192.168.12.149		: 21-100		0	
	2	2.10-192.168.12.20				0	
	3			:		0	
					1		
	4			:		0	
	4					0	
						-	
	5					0	

(192.168.12.100-192.168.12.149) Located hosts are only allowed to send mail (port 25), receive mail (port 110), and browse Internet (port 80); port 53 (DNS) is necessary to resolve the domain name.

(192.168.12.10-192.168.12.20) Located hosts can do everything (block nothing) Others are all blocked.

Example 2:

BASIC SETTI	IIIG 🛞	FORWARDING RULES	CURITY SETTING	M ADVANCE	D SETTING	TOOLBOX
Packet Filters	💷 Inbo	und Packet Filter				[HELF
Domain Filters		Item		Set	ting	
URL Blocking	▶ Inbou	nd Filter	🗹 Enable			
MAC Control		Allow all to pass except those Deny all to pass except those		_		
• Miscellaneous		Schedule ru	le (00)Always ⊻	Copy to ID	🗸	
	ID	Source IP	Destinat	ion IP : Ports	Enable	Schedule Rule#
	1	192.168.12.100		: 21		0
	2	192.168.12.119		: 119		0
	3			1:		0
	4			:		0
	5			:		0
	6					0
	7			:		0
	8			1.		0

Router LAN IP is 192.168.12.254

(192.168.12.100 and 192.168.12.119) Located Hosts can do everything except read net news (port 119) and transfer files via FTP (port 21)

Others are allowed

After **Outbound Packet Filter** setting is configured, click the **save** button.

3.3.3.2 Domain filters

ADMINISTRATOR'S M	IAIN MEN	IU 📲 Status 🕅	Wizard	Cill Advanced	▶ Logout	
BASIC SETTING	Ś	FORWARDING RULES 🛞 SEC	URITY SETTING	C ADVANCED SETTIN	G (
Packet Filters	🗆 Dom	ain Filter			[HELP	
Domain Filters		ltem		Setting		
URL Blocking	▶ Doma	in Filter	🗹 Enable			
MAC Control	▶ Log D	NS Query	🔲 Enable			
Miscellaneous	Privile	ge IP Addresses Range	From 1	To 10		
Miscellaneous	ID	Domain Suffix	-de	Action	Enable	
-	1	www.xyz.com			g 💌	
	2			Drop Log	g 🔲	
-	3				g 🔲	
_	4				g 🗖	
	5			Drop Log	g 🗖	
	6				g 🔲	
	7				Wester.	
	8				g 🔲	
	9					
	10	* (all others)				

Domain Filter

Let you prevent users under this device from accessing specific URLs.

Domain Filter Enable

Check if you want to enable Domain Filter.

Log DNS Query

Check if you want to log the action when someone accesses the specific URLs.

Privilege IP Addresses Range

Setting a group of hosts and privilege these hosts to access network without restriction.

Domain Suffix

A suffix of URL to be restricted. For example, ".com", "xxx.com".

Action

When someone is accessing the URL met the domain-suffix, what kind of action you want.

Check drop to block the access. Check log to log these access.

Enable

Check to enable each rule.

Example:

BASIC SETT	IIIG 🤣 F	ORWARDING RULES 😒 SEC	URITY SETTING	(D) ADVANCED SETTING	TOOLBOX
Packet Filters	💷 Doma	in Filter			[HEL
Domain Filters		Item		Setting	
URL Blocking	▶ Domai	n Filter	Enable		
	► Log DN	IS Query	🗹 Enable		
MAC Control	▶ Privilec	e IP Addresses Range	From 100	To 199	
Miscellaneous	ID	Domain Suffix		Action	Enable
	1	www.msn.com		Drop 🗹 Log	~
	2	www.sina.com		Drop 🗹 Log	~
	3	www.baidu.com		Drop Log	~
	4				
	5			Drop Log	
	6			Drop Log	
	7			Drop Log	
	8			Drop Log	
	9				
	10	* (all others)			040

In this example:

- 1. URL include "www.msn.com" will be blocked, and the action will be record in log-file.
- 2. URL include "www.sina.com" will not be blocked, but the action will be record in log-file.
- 3. URL include "www.baidu.com" will be blocked, but the action will not be record in log-file.
- 4. IP address x.x.x.1~x.x.99 can access Internet without restriction.

3.3.3.3 URL Blocking

BASIC SETTI	NG 🛞 FO	RWARDING RULES	SECURITY SETTING	ADVANCED SETTING	TOOLBOX
Packet Filters	URL BI	ocking			[HELI
Domain Filters		Item		Setting	
URL Blocking	► URL BIO	cking	🗖 Enable		
MAC Control	ID		URL		Enable
Miscellaneous	1				
miscenarieous	2				
	3				
	4				
	5				
	6				
	7				
	8				
	9				
	10				

URL Blocking will block LAN computers to connect to pre-defined Websites.

The major difference between "Domain filter" and "URL Blocking" is Domain filter require user to input suffix (like .com or .org, etc), while URL Blocking require user to input a keyword only. In other words, Domain filter can block specific website, while URL Blocking can block hundreds of websites by simply a **keyword**.

URL Blocking Enable

Checked if you want to enable URL Blocking.

If any part of the Website's URL matches the pre-defined word, the connection will be blocked. For example, you can use pre-defined word "sex" to block all websites if their URLs contain pre-defined word "sex".

Enable

Checked to enable each rule.

BASIC SETTIN	IG 🛞 FO	RWARDING RULES SEC	URITY SETTING	ADVANCED SETTING	TOOLBOX
Packet Filters	URL Blo	ocking			[HELI
Domain Filters		ltem		Setting	
URL Blocking	▶ URL BIO	cking	🗹 Enable		
MAC Control	ID		URL		Enable
Miscellaneous	1	msn			
Miscenarieous	2	sina			
	3				
	4				
	5				
	6				
	7				
	8				
	9				
	10				

In this example:

- 1. URL include "msn" will be blocked, and the action will be record in log-file.
- 2. URL include "sina" will be blocked, but the action will be record in log-file

3.3.3.4 MAC control

ADMINISTRATOR ST	MAIN MENU	-fil Status	Wizard	Advanced	Logo		
BASIC SETTING	5 🛞 F	ORWARDING RULES	SECURITY SETTING	M ADVANCED SETTING	TOOLBOX		
Packet Filters	I MAC A	ddress Control	(HELF				
Domain Filters	Item MAC Address Control			Setting			
URL Blocking			Enable				
MAC Control	Connection control		protocol and a second s	ts with C checked can connec AC addresses to connect.	ct to this device; ar		
Miscellaneous			100 miles and a state with the				
Miscellaneous	Assoc	iation control DHCP clients S	deny 👻 unspecified M/ Note: Association contro	hecked can associate to the v AC addresses to associate. ol has no effect on wired clie © Copy to	ints.		
Miscellaneous	D Assoc		deny v unspecified M/ Note: Association contro elect one	AC addresses to associate. In has no effect on wired clie	ints.		
Miscellaneous		DHCP clients S	deny v unspecified M/ Note: Association contro elect one	AC addresses to associate. of has no effect on wired clie Copy to	nts.		
Miscellaneous	ID	DHCP clients S	deny v unspecified M/ Note: Association contro elect one	AC addresses to associate. of has no effect on wired clie Copy to IP Address	nts.		
Miscellaneous	1D 1	DHCP clients S	deny v unspecified M/ Note: Association contro elect one	AC addresses to associate. of has no effect on wired clie Copy to IP Address 192.168.12.	nts.		

MAC Address Control allows you to assign different access right for different users and to assign a specific IP address to a certain MAC address.

- MAC Address Control Check "Enable" to enable the "MAC Address Control". All of the settings in this page will take effect only when "Enable" is checked.
- **Connection control** Check "Connection control" to enable the controlling of which wired and wireless clients can connect to this device. If a client is denied to connect to this device, it means the client can't access to the Internet either. Choose "allow" or "deny" to allow or deny the clients, whose MAC addresses are not in the "Control table" (please see below), to connect to this device.
- Association control Check "Association control" to enable the controlling of which wireless client can associate to the wireless LAN. If a client is denied to associate to the wireless LAN, it means the client can't send or receive any data via this device. Choose "allow" or "deny" to allow or deny the clients, whose MAC addresses are not in the "Control table", to associate to the wireless LAN.

Control table

ID	MAC Address	IP Address	С	А
1		192.168.12.		
2		192.168.12.		
3		192.168.12.		
4		192.168.12.		

"Control table" is the table at the bottom of the "MAC Address Control" page. Each row of this table indicates the MAC address and the expected IP address mapping of a client. There are four columns in this table:

MAC Address	MAC address indicates a specific client.
IP Address	Expected IP address of the corresponding
	client. Keep it empty if you don't care its IP
	address.
С	When "Connection control" is checked,
	check "C" will allow the corresponding
	client to connect to this device.
Α	When "Association control" is checked,
	check "A" will allow the corresponding
	client to associate to the wireless LAN.

In this page, we provide the following Combobox and button to help you to input the MAC address.

DHCP clients	select one	Copy to	
			-

You can select a specific client in the "DHCP clients" Combobox, and then click on the "Copy to" button to copy the MAC address of the client you select to the ID selected in the "ID" Combobox.

Previous page and Next Page To make this setup page simple and clear, we have divided the "Control table" into several pages. You can use these buttons to navigate to different pages.

Example:

BASIC SETTIN	G 🤣 FO	ORWARDING RULES	SECURITY SETTING	M ADVANCED SETTING	TOOLE	зох	
Packet Filters	D MAC A	ddress Control	[HELI				
Domain Filters	Item MAC Address Control Connection control			Setting			
URL Blocking			🗹 Enable				
MAC Control			Wireless and wired clients with C checked can connect to this device; and allow vunspecified MAC addresses to connect.				
Miscellaneous			Wireless clients with A c	herked ran associate to the v	wireless AN: :	and	
Miscellaneous	Resoct	iation control DHCP clients S	deny 👻 unspecified M/ Note: Association contro	hecked can associate to the v AC addresses to associate. Iol has no effect on wired Clie Copy to	nts.	and	
Miscellaneous	ID Ssoci		deny v unspecified M/ Note: Association contro	AC addresses to associate. In has no effect on wired clie	nts.		
Miscellaneous		DHCP clients S	deny v unspecified M/ Note: Association contro elect one	AC addresses to associate. In that no effect on wired clie	nts.	A	
Miscellaneous	ID	DHCP clients S MAC Addr	deny v unspecified M/ Note: Association contro elect one ress -78-90	AC addresses to associate. In has no effect on wired clie Copy to IP Address	nts.	A	
Miscellaneous	ID 1	DHCP clients S MAC Addr 00-12-34-56-	deny v unspecified M/ Note: Association contro elect one ress -78-90 -78-92	AC addresses to associate. In the second se	nts.	and A V	

In this scenario, there are three clients listed in the Control Table. Clients 1 and 2 are wireless, and client 3 is wired.

- 1. The "MAC Address Control" function is enabled.
- 2."Connection control" is enabled, and all of the wired and wireless clients not listed in the "Control table" are "allowed" to connect to this device.
- 3."Association control" is enabled, and all of the wireless clients not listed in the "Control table" are "denied" to associate to the wireless LAN.
- 4.Clients 1 and 3 have fixed IP addresses either from the DHCP server of this device or manually assigned:

ID 1 - "00-12-34-56-78-90" --> 192.168.12.100

ID 3 - "00-98-76-54-32-10" --> 192.168.12.101

Client 2 will obtain its IP address from the IP Address pool specified in the "DHCP Server" page or

can use a manually assigned static IP address.

If, for example, client 3 tries to use an IP address different from the address listed in the Control

table (192.168.12.101), it will be denied to connect to this device.

5. Clients 2 and 3 and other wired clients with a MAC address unspecified in the Control table are all allowed to connect to this device. But client 1 is denied to connect to this device.

6.Clients 1 and 2 are allowed to associate to the wireless LAN, but a wireless client with a MAC address not specified in the Control table is denied to associate to the wireless LAN. Client 3 is a wired client and so is not affected by Association control.

BASIC SET	TING 🤣 FORWARDING RULES હ	🖄 SECURITY SETTIN	G G ADVANCED SETTING	TOOLBOX
Packet Filters	Miscellaneous Items			[HELP
Domain Filters	Item		Setting	Enable
URL Blocking	Remote Administrator Host / Po	rt 0.0.0.	0 / 88	
MAC Control	Administrator Time-out	600	seconds (0 to disable)	
Miscellaneous	▶ Discard PING from WAN side	5		
motenaneous	▶ SPI mode			
	DoS Attack Detection			
	▶ VPN PPTP Pass-Through			v
	▶ VPN IPSec Pass-Through			~
		Save	Undo	

3.3.3.5 Miscellaneous Items

Remote Administrator Host/Port

In general, only Intranet user can browse the built-in web pages to perform administration task. This feature enables you to perform administration task from remote host. If this feature is enabled, only the specified IP address can perform remote administration. If the specified IP address is 0.0.0.0, any host can connect to this product to perform administration task. You can use subnet mask bits "/nn" notation to specified a group of trusted IP addresses. For example, "10.1.2.0/24".

NOTE: When Remote Administration is enabled, the web server port will be shifted to 88. You can change web server port to other port, too.

Administrator Time-out

The time of no activity to logout automatically. Set it to zero to disable this feature.

Discard PING from WAN side

When this feature is enabled, any host on the WAN cannot ping this product.

SPI Mode

When this feature is enabled, the router will record the packet information pass through the router like IP address, port address, ACK, SEQ number and so on. And the router will check every incoming packet to detect if this packet is valid.

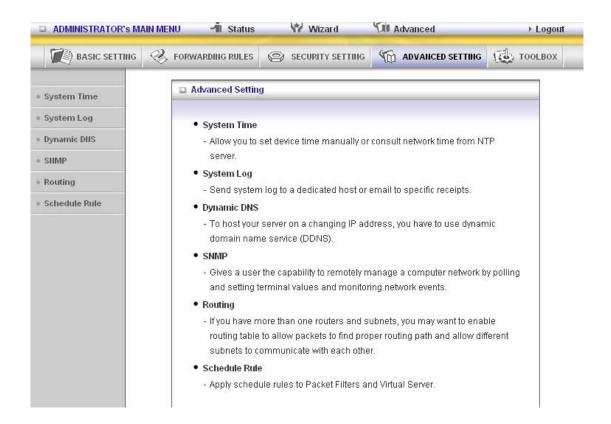
DoS Attack Detection

When this feature is enabled, the router will detect and log the DoS attack comes from the Internet. Currently, the router can detect the following DoS attack: SYN Attack, WinNuke, Port Scan, Ping of Death, Land Attack etc.

VPN PPTP and IPSec Pass-Through

Virtual Private Networking (VPN) is typically used for work-related networking. For VPN tunnels, the router supports IPSec Passthrough and PPTP Passthrough.

3.3.4 Advanced Settings



3.3.4.1 System Time

BASIC SETTING	FORWARDING RUL	ES 🔘 SECURITY SET	THIG C ADVANCED S	SETTING 1
Curtan Time	System Time			[HEL
System Time	Item		Setting	
System Log	System Time	2010年1月26日下午 01:	31:56	
Dynamic DNS	-			
SHMP	 Get Date and Time 	·	Now!	
Routing	Time Server	time.nist.gov 🛛 👻		
Schedule Rule	Time Zone	(GMT+08:00) Beijing, H	ong Kong, Singapore, Taip	oei 🖌
	▶ ○ Set Date and Time	using PC's Date and Tim	e	
	PC Date and Time	2010年1月26日 下午 01	:31:55	
	▶ ○ Set Date and Time	manually		
	Date	Year : 2009 👻	Month : Jun 👱	Day: 01 🖌
	Time	Hour: 0 (0-23)	Minute : 0 (0-59)	Second : 0 (0-59)
	Daylight Saving	O Enable 💿 Disabl	e	
	Start	Month : Jan 👻	Day : 01 🚽	Hour : 00 🐱
	End	Month : Jan 🖌	Day: 01 🚽	Hour : 00 🖌
		Save	Undo	

Get Date and Time by NTP Protocol

Selected if you want to Get Date and Time by NTP Protocol.

Time Server

Select a NTP time server to consult UTC time

Time Zone

Select a time zone where this device locates.

Set Date and Time manually

Selected if you want to Set Date and Time manually.

Set Date and Time manually

Selected if you want to Set Date and Time manually.

Function of Buttons

Sync Now: Synchronize system time with network time server

Daylight Saving:Set up where the location is.

3.3.4.2 System Log

BASIC SETTING	S FORWARDING RULES	SECURITY SETTING	ADVANCED SETTING	TOOLBOX
System Time	System Log			(HEL
ystem Log	Item		Setting	Enable
ynamic DNS	▶ IP Address of Syslog Server	192.168.12.		
NMP	▶ E-mail Alert	Send Mail Now		
outing	SMTP Server IP/Port			
chedule Rule	• E-mail addresses			
-	• E-mail Subject			
	• User name			
	• Password	••••		
	▶ Log Type	System Activity C Debug Informat Attacks Dropped Packe Notice		

This page support two methods to export system logs to specific destination by means of syslog(UDP) and SMTP(TCP). The items you have to setup including:

IP Address for Syslog

Host IP of destination where syslogs will be sent to.

Check **Enable** to enable this function.

E-mail Alert Enable

Check if you want to enable Email alert (send syslog via email).

SMTP Server IP and Port

Input the SMTP server IP and port, which are concated with ':'. If you do not specify port number, the default value is 25.

For example, "mail.your_url.com" or "192.168.1.100:26".

Send E-mail alert to

The recipients who will receive these logs. You can assign more than 1 recipient, using ';' or ',' to separate these email addresses.

3.3.4.3 Dynamic DNS

ING 🤣 FORWARDING RULES	SECURITY SETTING	M ADVANCED SETTING	TOOLBOX
Dynamic DNS			[HELP
Item		Setting	
▶ DDNS	⊙ Disable ○ Enable		
▶ Provider	DynDNS.org(Dynamic)	Provider website	
▶ Host Name			
▶ Username / E-mail			
▶ Password / Key	••••		
	Dynamic DNS Item DDNS Provider Host Name Username / E-mail	Dynamic DNS Item DDNS Provider Host Name Username / E-mail	Dynamic DNS Item Setting > DDNS ● Disable ● Enable > Provider DynDNS.org(Dynamic) ♥ Provider website > Host Name

To host your server on a changing IP address, you have to use dynamic domain name service (DDNS).

So that anyone wishing to reach your host only needs to know the name of it. Dynamic DNS will map the name of your host to your current IP address, which changes each time you connect your Internet service provider.

Before you enable **Dynamic DNS**, you need to register an account on one of these Dynamic DNS servers that we list in **provider** field.

To enable Dynamic DNS click the check box next to Enable in the DDNS field.

Next you can enter the appropriate information about your Dynamic DNS Server.

You have to define:

Provider

Host Name

Username/E-mail

Password/Key

You will get this information when you register an account on a Dynamic DNS server.

3.3.4.4 SNMP

BASIC SETTING	FORWARDING RULES	SECURITY SETTING	ADVANCED SETTING	TOOLBOX
System Time	SNMP Setting			[HELP
System Log	Item		Setting	
Dynamic DNS	▶ Enable SNMP	🗹 Local 🗖 Remote		
• SHMP	▶ Get Community	public		
* Routing	▶ Set Community	private		
Schedule Rule	▶ IP 1			
	► IP 2			
	▶ IP 3			
	▶ IP 4			
	▶ SNMP Version	O V1 ⊙ V2c		

In brief, SNMP, the Simple Network Management Protocol, is a protocol designed to give a user the capability to remotely manage a computer network by polling and setting terminal values and monitoring network events.

Enable SNMP

You must check Local, Remote or both to enable SNMP function. If Local is checked, this device will response request from LAN. If Remote is checked, this device will response request from WAN.

Get Community

Setting the community of GetRequest your device will response.

Set Community

Setting the community of SetRequest your device will accept.

IP 1, IP 2, IP 3, IP 4

Input your SNMP Management PC's IP here. User has to configure to where this device should

send SNMP Trap message.

SNMP Version

Please select proper SNMP Version that your SNMP Management software supports.

WAN Access IP Address

If the user wants to limit to specific the IP address to access, please input in the item. The default 0.0.0.0 and means every IP of Internet can get some information of device with SNMP protocol.

Click on "Save" to store your setting or "Undo" to give up.

3.3.4.5 Routing

BASIC SETTIN	6 <i>3</i>	NU - Status	SECURITY SETTING	M ADVANCED SETTING	100 TO	DLBOX
System Time	🗆 Rot	rting Table				[HELP]
System Log	Item			Setting		
Dynamic DNS	► Dyna	amic Routing	⊙ Disable ○ RIPv1	O RIPv2		
	▶ Stati	c Routing	💿 Disable 🔘 Enable			
• SHMP	ID	Destination	Subnet Mask	Gateway	Нор	Enable
Routing	1					
Schedule Rule	2					
	3					
						_
	4					
	5					
	6					
	7					
	8					

Routing Tables allow you to determine which physical interface address to use for outgoing IP data grams. If you have more than one routers and subnets, you will need to enable routing table to allow packets to find proper routing path and allow different subnets to communicate with each other.

Routing Table settings are settings used to setup the functions of static.

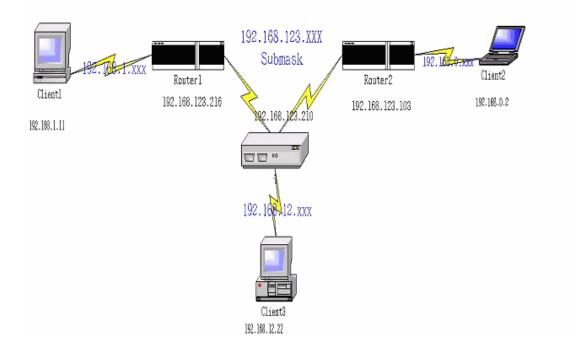
Dynamic Routing

Routing Information Protocol (RIP) will exchange information about destinations for computing routes throughout the network. Please select RIPv2 only if you have different subnet in your network.

Otherwise, please select RIPv1 if you need this protocol.

Static Routing: For static routing, you can specify up to 8 routing rules. You can enter the destination IP address, subnet mask, gateway, hop for each routing rule, and then enable or disable the rule by checking or unchecking the Enable checkbox.

Example:



Configuration on NAT Router

Destination	SubnetMask	Gateway	Нор	Enabled
192.168.1.0	255.255.255.0	192.168.123.216	1	v
192.168.0.0	255.255.255.0	192.168.123.103	1	v

So if, for example, the client3 wanted to send an IP data gram to 192.168.0.2, it would use the above table to determine that it had to go via 192.168.123.103 (a gateway),

And if it sends Packets to 192.168.1.11 will go via 192.168.123.216

Each rule can be enabled or disabled individually.

After **routing table** setting is configured, click the **save** button.

3.3.4.6 Schedule Rule

Mı	Multi-Functional Wireless Broadband NAT Router (R1.97g6_testing23)						
	ADMINISTRATOR'S MAIN MENU		W.	Wizard	500	ldvanced	► Logout
BASIC SETTI	NG 🤣 F	ORWARDING RULES	(C) SEC	JRITY SETTING	16	ADVANCED SETTING	TOOLBOX
Status	Sched	lule Rule					[HELP]
 System Time 		ltem				Setting	
System Log	▶ Schedu	ıle		🔲 Enable			
	Rule#		Rule Name			Act	ion
 Dynamic DNS 				ave Add Ne	uu Dulo		
SNMP			3	ave Auu ne	w Rule		
Routing							
Schedule Rule							
QoS Rule							

You can set the schedule time to decide which service will be turned on or off. Select the "enable" item.

Press "Add New Rule"

You can write a rule name and set which day and what time to schedule from "Start Time" to "End Time". The following example configure "ftp time" as everyday 14:10 to 16:20

ADMINISTRATOR'S M	IAIN MENU -11 Status	Wizard	Cill Advanced	Logout
BASIC SETTING	I FORWARDING RULES		M ADVANCED SETTING	TOOLBOX
System Time	Schedule Rule Setting			[HELP
System Log	ltem		Setting	
Dynamic DNS	Name of Rule 1			
SIMP	System Time	2010年1月26日下	午 01:46:37	
Routing	Week Day	Start Time (h	h:mm) End T	ime (hh:mm)
Schedule Rule	Sunday			
Schedule Rule	Monday			:
-	Tuesday			
-	Wednesday			
	Thursday			
-	Friday	:		:
	Saturday			
-	Every Day			

Schedule Enable

Selected if you want to Enable the Scheduler.

Edit

To edit the schedule rule.

Delete

To delete the schedule rule, and the rule# of the rules behind the deleted one will decrease one automatically.

Schedule Rule can be apply to Virtual server and Packet Filter, for example:

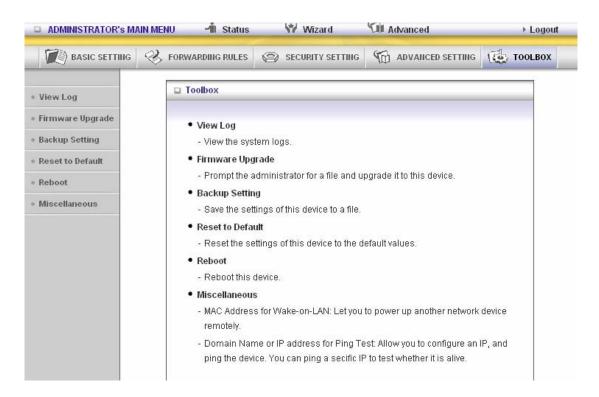
Example1: Virtual Server - Apply Rule#1	1 (ftp time: everyday 14:20 to 16:30)
---	---------------------------------------

BASIC SETT	ing 🛞	FORWARDING RULES	SECURITY SETTING	ADVANCED	SETTING	TOOLBOX
Virtual Server	🗆 Virte	ial Server				[HELI
Special AP Miscellaneous			own services 🛛 select o edule rule (00)Always 👻		~	
miscenarieous	ID	Server IP	Service Port	s Protocol	Enable	Schedule Rule#
	1	192.168.12. <mark>1</mark>	21	Both 😪		1
	2	192.168.12.		Both 😪		0
	3	192.168.12.		Both 🖌		0
	4	192.168.12.		Both 💌		0
	5	192.168.12.		Both 🛩		0
	6	192.168.12.		Both 😪		0
	7	192.168.12.		Both 🛩		0
	8	192.168.12.		Both 👱		0
	9	192.168.12.		Both 😒		0
	10	192.168.12.		Both 💌		0

Example2: **Packet Filter** – Apply Rule#1 (ftp time: everyday 14:20 to 16:30).

ADMINISTRATOR's	MAIN MENU	-II Status	💔 Wizard	Advanced		▶ Logout
	5 🌏 FC	RWARDING RULES			ED SETTING	TOOLBOX
Packet Filters	🗉 Outbou	ind Packet Filter				[HELP
Domain Filters		ltem		Set	tting	
URL Blocking	Outbound Filter		🗹 Enable			
MAC Control			cept those match the follov cept those match the follov			
Miscellaneous		S	chedule rule (00)Always	Copy to ID	💙	
	ID	Source IP	Destina	ntion IP : Ports	Enable	Schedule Rule#
	1			: 21	~	1
	2					0
	3					0
	4			:		0
	5					0
	6					0
	7			:		0
	8					0

3.3.5 Toolbox



3.3.5.1 View Log

ADMINISTRATOR'S	s MAIN MENU 🚽 👖 Status	🖤 Wizard	Chill Advanced	⊁ Logout	
BASIC SETTIN	IG 🤣 FORWARDING RULES	SECURITY SETTING	ADVANCED SETTING	TOOLBOX	
View Log	System Log				
Firmware Upgrade	ITEM		Info		
	WAN Type	Dynamic IP Addres	s (R0.15a6)		
Backup Setting	Display time	Tue Jan 26 14:00:4	0 2010		
Reset to Default	Time		Log		
• Reboot	2010年1月26日上午 09:53:29	Blocked access att	empt from 192.168.122.77:27	17 to TCP port	
Miscellaneous		27284		a tampi filolar ili ett i televeno c	
	2010年1月26日上午 09:53:36	Blocked access att 27284	empt from 192.168.122.77:27	17 to TCP port	
	2010年1月26日上午 09:55:25	DHCP:release			
	2010年1月26日上午 09:40:03	Restarted by 192.1	Restarted by 192.168.12.149		
	2010年1月26日上午 09:40:04	== USB OTG Init ==			
	2010年1月26日上午 09:40:12	DOD:triggered inte	rnally		
	2010年1月26日上午 09:40:12	DHCP:discover(My	DHCP:discover(My Host)		
	2010年1月26日上午 09:40:12	DHCP:offer(192.16	DHCP:offer(192.168.122.210)		
	2010年1月26日上午 09:40:12	DHCP:request(192	DHCP:request(192.168.122.191)		
	2010年1月26日上午 09:40:15	DHCP:ack(DOL=6)	00,T1=300,T2=525)		
	2010年1月26日上午 09:40:41	Blocked access att 10696	empt from 192.168.122.77:13	46 to UDP port	

You can View system log by clicking the View Log button

3.3.5.2 Firmware Upgrade

ADMINISTRATOR's	: MAIN MENU 🧐 Status	s 💔 Wizard	Cill Advanced	▶ Logout
BASIC SETTIN	IG 🔗 FORWARDING RULES	SECURITY SETTING	M ADVANCED SETTING	TOOLBOX
View Log	Firmware Upgrade			
Firmware Upgrade		Firmware Fil	ename	
Backup Setting	0		····································	0.000000
Reset to Default	Current Irmware	version is Ro. 1546. The upgr	ade procedure takes about 2	u seconas.
Reboot	No	te! Do not power off the unit v	when it is being ungraded	
Miscellaneous			e unit will be restarted autom	atically.
		Upgrade	Cancel	

You can upgrade firmware by clicking **Firmware Upgrade** button.

3.3.5.3 Backup Setting

File Dov	wnload 🛛 🛛
?	You are downloading the file: config.bin from 192.168.123.254 Would you like to open the file or save it to your computer? Open Save Cancel More Info Always ask before opening this type of file

You can backup your settings by clicking the **Backup Setting** button and save it as a bin file. Once you want to restore these settings, please click **Firmware Upgrade** button and use the bin file you saved.

3.3.5.4 Reset to default

Microsoft Intern	iet Explorer 🕅
Reset al	setting to default?
ОК	Cancel

You can also reset this product to factory default by clicking the **Reset to default** button.

3.3.5.5 Reboot



You can also reboot this product by clicking the **Reboot** button.

3.3.5.6 Miscellaneous Items

D ADMINISTRATOR'S	MAIN MENU 🧐 Status	😾 Wizard	Cill Advanced	▶ Logout	
BASIC SETTING	6 🤣 FORWARDING RULES	SECURITY SETTING	M ADVANCED SETTING	TOOLBOX	
View Log	Miscellaneous Items			[HELP]	
• Firmware Upgrade	Iten	1	Setting		
Backup Setting	MAC Address for Wake-on-	LAN		Vake up	
• Reset to Default	▶ Domain Name or IP addres	ss for Ping Test		Ping	
• Reboot		Save	Jndo		
Miscellaneous		100 Miles			

MAC Address for Wake-on-LAN

Wake-on-LAN is a technology that enables you to power up a networked device remotely. In order to enjoy this feature, the target device must be Wake-on-LAN enabled and you have to know the MAC address of this device, say 00-11-22-33-44-55. Clicking "Wake up" button will make the router to send the wake-up frame to the target device immediately.

Domain Name or IP Address for Test

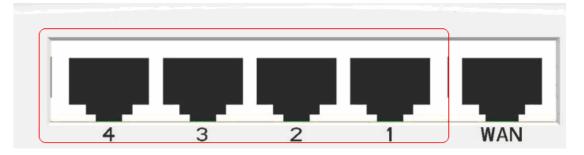
Allow you to configure an IP, and ping the device. You can ping a secific IP to test whether it is alive.

Appendix A FAQ and Troubleshooting

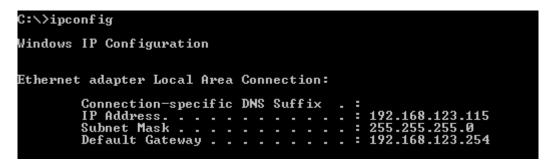
What can I do when I have some trouble at the first time?

1. Why can I not configure the router even if the cable is plugged in the ports of Router and the led is also light?

A: First, make sure that which port is plugged. If the cable is in the Wan port, please change to plug in Lan port 1 or Lan port 4:



Then, please check if the Pc gets ip address from Router. Use command mode as below:



If yes, please execute Browser, like Mozilla and key 192.168.123.254 in address.

If not, please ipconfig /release, then ipconfig /renew.

Whatever I setup, the pc can not get ip. Please check Status Led and refer to the Q2:

2.Why can I not connect the router even if the cable is plugged in Lan port and the led is light?

A: First, please check Status Led. If the device is normal, the led will blink per second.

If not, please check How blinking Status led shows.

There are many abnormal symptoms as below:

Status Led is bright or dark in work: The system hanged up .Suggest powering off and on the router. But this symptom often occurs, please reset to default or upgrade latest fw to try again.

Status led flashes irregularly: Maybe the root cause is Flash rom and please press reset Button to reset to default or try to use Recovery mode.(Refer to Q3 and Q4)

Status flashes very fast while powering on: Maybe the router is the recovery mode and please refer to Q4.

3. How to reset to factory default?

A: Press Wireless on /off and WPS button simultaneously about 5 sec

Status will start flashing about 5 times, remove the finger. The RESTORE process is completed.

4.Why can I not connect Internet even though the cables are plugged in Wan port and Lan port and the leds are blink. In addition, Status led is also normal and I can configure web management?

A: Make sure that the network cable from DSL or Cable modem is plugged in Wan port of Router and that the network cable from Lan port of router is plugged in Ethernet adapter. Then, please check which wan type you use. If you are not sure, please call the isp. Then please go to this page to input the information isp is assigned.

Choose WAN Type				
	Туре	Usage		
0	Static IP Address	ISP assigns you a static IP address.		
۲	Dynamic IP Address Obtain an IP address from ISP automatically.			
0	Dynamic IP Address with	Road Runner Session Management.(e.g. Telstra BigPond)		
0	PPP over Ethernet Some ISPs require the use of PPPoE to connect to their services.			
0	PPTP	Some ISPs require the use of PPTP to connect to their services.		
0	L2TP	Some ISPs require the use of L2TP to connect to their services.		

5. When I use Static IP Address to roam Internet, I can access or ping

global IP 202.93.91.218, But I can not access the site that inputs domain name, for example http://espn.com ?

A: Please check the dns configuration of Static IP Address. Please refer to the information of ISP and assign one or two in dns item.

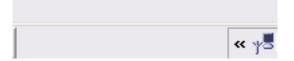
How do I connect router by using wireless?

1.How to start to use wireless?

A: First, make sure that you already installed wireless client device in your computer. Then check the Configuration of wireless router. The default is as below:

Wireless Setting	[HELP]		
ltem	Setting		
▶ Wireless	◯ Enable ④ Disable		
Network ID(SSID)	default		
▶ Wireless Mode	O 11 b/g/n Mixed O 11n only		
SSID Broadcast	⊙Enable ○Disable		
▶ Channel	11		
▶ Security	None		
	Save Undo WDS Setting dress Control Wireless Client List		

About wireless client, you will see wireless icon:



Then click and will see the ap list that wireless client can be accessed:

Related Tasks	Ŷ	default Non-secure wireless network	Signal Strength:	
<u>Change preferred</u> <u>wireless network</u> Learn about wireless	Ŷ	BombTest Security-enabled wireless network	Signal Strength:	•••00 8

If the client can not access your wireless router, please refresh network list again. However, I still can not fine the device which ssid is "default", please refer to Q3.

Network Tasks	Choose a wireless network	
Refresh network list	Click an item in the list below to connect to a <u>w</u> ireless information.	network in range or to get more
	default Non-secure wireless network	Signal Strength: BORN - Connected

Choose the one that you will want to connect and Connect:

Related Tasks	default Non-secure wireless network	Signal Strength: 🔐 🛛 🗍
Change preferred Wireless	This is network is configured for onen access. Inform/ letwork Connection	ation sent over this
 wireless network, wireless network Learn about wirele networking Change settings of connection 	"default" does not require a network key. Information se not encrypted and may be visible to others. If you are sure you want to connect to this network, clic click Cancel.	
		t Cancel

If successfully, the computer will show

Wireless Netw Speed: 54.0 Mbps	ork Connection 5 is now	
nmand Prompt	🦉 untitled - Paint	« 🕵 🗐

and get ip from router:

Ethernet	; adapter Wi	reless N	letwoi	rk Co	onnect	tior	n 5:
	Subnet Mask			: :			192.168.123.165 255.255.255.0 192.168.123.254

2.When I use AES encryption of WPA-PSK to connect even if I input the correct pre-share key?

A: First, you must check if the driver of wireless client supports AES encryption. Please refer to the below:



If SSID is default and click "Properties" to check if the driver of wireless client supports AES encryption.

default properties ? 🗙
Association Authentication Connection
Network <u>n</u> ame (SSID): default
Wireless network key
This network requires a key for the following:
Network Authentication:
Data encryption:
Network key:
Confirm network key:
Key inde <u>x</u> (advanced): 1 = The key is provided for me automatically This is a <u>computer-to-computer</u> (ad hoc) network; wireless access points are not used
OK Cancel

3.When I use wireless to connect the router, but I find the signal is very low even if I am close to the router?

A: Please check if the wireless client is normal, first. If yes, please send the unit to the seller and verify What the problem is.

Federal Communication Commission Interference Statement

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

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

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

Country Code Statement

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

Co-located

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

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