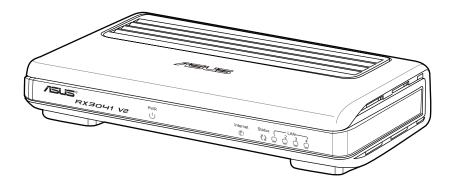
RX3041 V2

User's Manual



E5315 First Edition V1 January 2010

Copyright © 2010 ASUSTeK Computer Inc. All Rights Reserved.

No part of this manual, including the products and software described in it, may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form or by any means, except documentation kept by the purchaser for backup purposes, without the express written permission of ASUSTeK Computer Inc. ("ASUS").

Product warranty or service will not be extended if: (1) the product is repaired, modified or altered, unless such repair, modification of alteration is authorized in writing by ASUS; or (2) the serial number of the product is defaced or missing.

ASUS PROVIDES THIS MANUAL "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL ASUS, ITS DIRECTORS, OFFICERS, EMPLOYEES OR AGENTS BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING DAMAGES FOR LOSS OF PROFITS, LOSS OF BUSINESS, LOSS OF USE OR DATA, INTERRUPTION OF BUSINESS AND THE LIKE), EVEN IF ASUS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES ARISING FROM ANY DEFECT OR ERROR IN THIS MANUAL OR PRODUCT.

SPECIFICATIONS AND INFORMATION CONTAINED IN THIS MANUAL ARE FURNISHED FOR INFORMATIONAL USE ONLY, AND ARE SUBJECT TO CHANGE AT ANY TIME WITHOUT NOTICE, AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY ASUS. ASUS ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS OR INACCURACIES THAT MAY APPEAR IN THIS MANUAL, INCLUDING THE PRODUCTS AND SOFTWARE DESCRIBED IN IT.

Products and corporate names appearing in this manual may or may not be registered trademarks or copyrights of their respective companies, and are used only for identification or explanation and to the owners' benefit, without intent to infringe.

Contents

•	Introduction	2
	es and Benefits	
1.2 Packa	ge Contents	
Chapter 2:	Setup Router Configurations via W	Veb Browser
-	our Web Browser	
	۶	
	Dynamic IP Address	
	tatic IP Address	
	PPoE	
	PTP	
	2TP	
	igPond	
	ິ ກ	
	ystem Status	
	ystem Settings	
	Administrator Settings	
	irmware Upgrade	
	Configuration Tools	
	og	
2.4 WAN	č	
	Connected Type	
	Dynamic IP address	
2.4.3 S	tatic IP address	
2.4.4 P	РРоЕ	24
2.4.5 P	PTP	25
2.4.6 L	2TP	
2.4.7 B	igPond	
2.4.8 D	DNS	
2.5 LAN		
	ettings	
2.5.2 D	OHCP Client	
2.6 NAT		
2.6.1 V	/irtual Server	
2.6.2 S	pecial Application	
2.6.3 P	ort Mapping	
2.6.4 A	NLG	
2.6.5 D	DMZ	
2.7 Firewa		
2.7.1 C	Option	35
2.7.2 A	ccess Control	
2.7.3 U	IRL Filtering	
2.7.4 N	NAC Control	

Contents

2.8 Routing	38
2.8.1 Routing Table	
2.8.2 Static Routes	
2.8.3 Dynamic Routing	
2.9 UPnP	40
2.9.1 Settings	40
2.9.2 Port Mapping	40
2.10 QoS	
2.10.1 Port Base	41
2.10.2 DSCP	
2.11 DDNS	43
2.12 Help Information	
2.13 Log out	

Chapter 1: Introduction

Congratulations on purchasing ASUS RX3041 V2 Router. This router, is a high quality and reliable Internet routing device, enables multiple users to share the internet connection through a Cable or DSL modem. Simply install the router, connect to Cable/DSL modem, and surf Internet without extra efforts. Acting as a 10/100Mbps 4-port Ethernet switch as well, the router, with all ports supporting MDI/MDIX, allows you to use CAT5 cable to uplink to other routers/switches. The router provides a total solution for the Small and Medium-sized Business (SMB) and the Small Office/Home Office (SOHO) markets, giving you an instant network today, and the flexibility to handle tomorrow's expansion and speed.

1.1 Features and Benefits

• 3-step easy setup wizard

All users can easily setup the router via only 3-step wizard to share internet.

• User friendly Web Graphical Interface

ASUS specific and user friendly interface allows users to easily set up the router.

DHCP server support

This feature provides a dynamic IP address to PCs and other devices upon request. The router can act as a DHCP server for devices on your LAN.

Multi DMZ host support

One PC on you LAN can be configured to allow unrestricted 2-way communication with Servers or individual user on the Internet.

• Support PPTP and PPPoE

The Internet (WAN port) connection supports PPPoE (PPP over Ethernet) and PPTP (Point-to-Point Tunnel Protocol), as well as "Direct Connection" type service.

1.2 Package Contents

- One RX3041 V2 Router
- Power Adapter
- CD including user manual
- QIG

Chapter 2: Setup Router Configurations via Web Browser

The router comes with a web-based configuration utility. Users can access this configuration utility from any of client system within RX3041 V2 Router's LAN. For best results, either use Microsoft Internet Explorer 6.0 or later, or Netscape Navigator 4.7 or later. Before you start configuring your router, you have to get the following information from your ISP:

- a) Has your ISP assigned you a static IP address, or they will assign one to you dynamically? If you have received a static IP address, what is it?
- b) Does your ISP use PPPoE? If so, what is your PPPoE username and password?

If you are not sure of above questions, please contact your ISP.

2.1 Start your Web Browser

To use the Web-Based Utility, you have to launch your Internet Browser (MS IE 6.0 or later, Netscape Navigator 4.7 or later).

Step 1: Enter the default IP address of RX3041 V2 Router **http://192.168.1.1** in the address field, and then, press **Enter** button:



Step2: After the login dialog box appears, enter "**admin**" as User Name and the default password is also "**admin**", and then click "**OK**" to login web-based utility.



2.2 Wizard

The following window allows user to configure basic settings of the router, such as Host Name, Domain Name, Time Zone and Daylight Saving. Click "**Next**" to update WAN settings.

	ASUS RX3041	12
Wizard Status V System V WAN V LAN V NAT V Firewall	Product Name ASUS RX3041 V2	
Routing UPnP QoS DDNS Logout	Time Zone (GMT+08:00) Hong Kong, Perth, Singapore, Taipe Daylight Saving Enabled from : FEB • 2 • to: FEB • Next	

Host Name: Enter a hostname provided by the ISP (Default: RX3041 V2).

Domain Name: Enter a Domain Name provided by the ISP.

Time Zone: Select the time zone of the country you are in. The router will set the time based on your selection.

Daylight Saving: The router can also take Daylight savings into account. If you wish to use this function, you must check/tick the enable box to enable your daylight saving configuration.

Next: Click "Next" to update WAN settings.

The following window allows user to specify the WAN Connection type, such as Dynamic IP address, Static IP address, or PPPoE...etc. After you setup the connection settings, click "**Next**" to update the DNS settings.



2.2.1 Dynamic IP Address

Obtain an IP address automatically from your service provider.

Step 1: Select "Dynamic IP address" from WAN connection type.

Wizard Status	🔿 Wizard
System WAN LAN	Specify the WAN connection type required by your Internet Service Provider. Please select your WAN connection from the following:
 Firewall Routing UPnP QoS DDNS Logout 	 Dynamic IP address Static IP Address PPPoE PPTP L2TP BigPond

Step 2: Enable "**MAC Cloning**" and enter "**MAC address**". You can also click "**Clone MAC**" button to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with this MAC address. Click "**Next**" to continue.

ASUS /	Product Name ASUS RX3041 V2
Wizard Status System WAN LAN LAN NAT Firewall Routing UPnP QoS DDNS Logout	Wizard Dynamic IP address MAC Cloning ♥ Enabled MAC Address 00 : 0F : EA : 64 : C8 : E6 Clone MAC Back Next

Step 3: Enable DNS Settings if required, enter the DNS server address(es). Click "**Finish**" to save the settings.

Wizard	🔿 Wizard	
Status		
System WAN	DNS Settings	
LAN		
NAT	Static DNS Server	Enabled
Firewall		
Routing	Primary DNS address	168 . 95 . 1 . 1
UPnP		
QoS	Secondary DNS address	
QoS	Secondary DNS address	
DDNS		

Step 4: After Wizard setting is completed, the configuration page will show **Success**.

Wizard Wizar	u la
Status	
System	Success
WAN	Juccos
LAN	
NAT	(Continue)
Firewall	
Routing	
UPnP	
QoS	
DDNS	

Step 5: You can use the "Status" screen to see the Dynamic IP connection status.

	A	SUS RX3041 V2
	Product Name ASUS RX3041 V2	
Wizard Status	I Status	
System		Internet
WAN LAN	Cable/DSL	Connected
NAT	WAN IP	192.168.6.6
 Firewall Routing 	Subnet Mask	255.255.255.0
UPnP QoS	Gateway	192.168.6.1
DDNS	DNS	168.95.1.1
Logout	Secondary DNS	0.0.0.0
	Domain Name	
	Connection Type	Dynamic IP
	Connection Time	00:00:11
	Re	elease) Renew)

2.2.2 Static IP Address

If your router connects to the Fixed-IP xDSL, click **Static IP address** to enter the IP address and gateway address provided by your ISP.

Step 1: Select "Static IP address" from WAN connection type.

Wizard Status System	Specify the WAN connection type required by your Internet
VAN LAN NAT	Service Provider. Please select your WAN connection from the following:
 Firewall Routing UPnP 	Dynamic IP address Static IP Address
QoS DDNS	 РРРоЕ РРТР
Logout	L2TP BigPond

Step 2: Enter Static IP address which assigned by your ISP. Click "**Next**" to continue.

Wizard	🔿 Wizard				
Status					
System 2					
WAN	Static IP Address				
LAN					
NAT	IP address assigned by your ISP	59	. 120	. 40	. 246
Firewall	Subnet Mask	255	. 0	. 0	. 0
Routing		-	-		
V UPnP	ISP Gateway Address	59	. 120	. 40	. 254

Step 3: Enable DNS Settings if required, enter the DNS server address(es). Click "**Finish**" to save the settings.

isus / 🖻	roduct Name ASUS RX3041 V2	
Wizard	🕘 Wizard	
Status System		
▶ WAN	DNS Settings	
LAN		
NAT	Static DNS Server	Enabled
🕨 Firewall		
Routing	Primary DNS address	168 . 95 . 1 . 1
UPnP		
V QoS	Secondary DNS address	
DDNS		
Logout		Back Finish

Step 4: After Wizard setting is completed, the configuration page will show **Success**.

sus /	Product Name ASUS RX3041 V2	
Wizard	· Wizard	
Status		
System		Success
LAN		
NAT NAT		(Continue)
Firewall		
Routing		
UPnP		
₽ QoS		
DDNS		
Logout		

Step 5: You can use the "**Status**" screen to see the Static IP address connection status.

	A	SUS RX3041 V2
Wizard Status I System	roduct Name ASUS RX3041 V2	Internet
 WAN LAN NAT Firewall Routing UPnP QoS DDNS Logout 	Cable/DSL WAN IP Subnet Mask Gateway DNS Secondary DNS	Connected 59.120.40.246 255.0.00 59.120.40.254 168.95.1.1 0.0.0.0
	Domain Name Connection Type	Static IP

2.2.3 PPPoE

If your router connects to the Dial-Up xDSL, click Dial-Up xDSL to enter the login information provided by your ISP.

Step 1: Select "**PPPoE**" from WAN connection type.



Step 2: Enter PPPoE Account and Password which provided by your ISP. Click "**Next**" to continue.

Wizard Status	🛛 Wizard	
> System > WAN	PPPoE	
▶ LAN ▶ NAT	PPPOE Account	73380182@hinet.net
Firewall	PPPOE Password	•••••
 Routing UPnP 	Retype password	•••••
QoS DDNS	Service Name	[
Logout	MTU (546-1492)	1492
-	Maximum Idle Time(60~3600)	300 (seconds)

Step 3: Enable DNS Settings if required, enter the DNS server address(es). Click "**Finish**" to save the settings.

sus /r	roduct Name ASUS RX3041 V2	
Wizard	• Wizard	
Status		
System	and a second second	
VAN WAN	DNS Settings	
LAN LAN		
▶ NAT	Static DNS Server	Enabled
Firewall		
Routing	Primary DNS address	168 95 1 1
▶ UPnP		
▶ QoS	Secondary DNS address	
DDNS		
Logout		
Logodi		Back Finish

Step 4: After Wizard setting is completed, the configuration page will show **Success**.



Step 5: You can use the "Status" screen to see the PPPoE connection status.

	A	SUS RX3041 V2
	Product Name ASUS RX3041 V2	
Wizard Status System	I Status	Internet
LAN	Cable/DSL	Connected
NAT Firewall	WAN IP	122.124.97.207
Routing	Subnet Mask	255.255.255.255
VPnP QoS	Gateway	122.124.96.254
DDNS	DNS	168.95.192.1
Logout	Secondary DNS	168.95.1.1
	Domain Name	
	Connection Type	PPPoE
	Connection Time	00:00:09
	Conn	nection) (Disconnected)

2.2.4 PPTP

If your router connects through the PPTP, click PPTP to enter the login information provided by your ISP.

Step 1: Select "**PPTP**" from WAN connection type.



Step 2: Enter PPTP Account, Password, Service IP address, WAN IP address, Subnet address, Gateway which provided by your ISP. Click "**Next**" to continue.

	Product Name ASUS RX3041 V2					
Wizard Status System WAN	Wizard PPTP					
LAN NAT Firewall	PPTP Account PPTP Password	999				
Routing UPnP QoS DDNS	Retype password Service IP Address	13.0.	0.1		(IP	Address or Domain Name)
Logout	WAN Interface IP WAN IP Address	Stati	c IP Ac	dress	•	-
	WAN Subnet Mask WAN Gateway	255 13	. 0 . 0	0. 0.	.0	
	MTU (546-1460) Maximum Idle Time (60∾3600)	1460 300	_	conds)		

Step 3: Enable DNS Settings if required, enter the DNS server address(es). Click "**Finish**" to save the settings.

Wizard	Wizard	
Status		
System		
WAN	DNS Settings	
LAN		
NAT	Static DNS Server	Finabled
Firewall		
Routing	Primary DNS address	168 . 95 . 1 . 1
UPnP		
QoS	Secondary DNS address	

Step 4: After Wizard setting is completed, the configuration page will show **Success**.

Wizard	Wizard	
Status		
System		Success
VAN		Success
▶ LAN		
▶ NAT		(Continue)
Firewall		
Routing		
▶ UPnP		
V QoS		
DDNS		

Step 5: You can use the "Status" screen to see the PPTP connection status.

		SUS RX3041 V2
	Product Name ASUS RX3041 V2	
Wizard Status System	→ Status	Internet
VAN LAN	Cable/DSL	Connected
NAT Firewall	WAN IP	20.0.0.201
Routing	Subnet Mask	255.255.255
VPnP QoS	Gateway	20.0.0.200
DDNS	DNS	168.95.1.1
Logout	Secondary DNS	0.0.0.0
	Domain Name	
	Connection Type	PPTP
	Connection Time	00:00:15
		nnection) (Disconnected)

2.2.5 L2TP

If your router connects through the L2TP, click L2TP to enter the login information provided by your ISP.

Step 1: Select "**L2TP**" from WAN connection type.

	Product Name ASUS RX3041 V2
Wizard Status System WAN LAN LAN LAN Firewall Routing UPnP QoS DDNS Logout	 Wizard Specify the WAN connection type required by your Internet Service Provider. Please select your WAN connection from the following: Dynamic IP address Static IP Address PPPoE PPTP L2TP
	 BigPond

Step 2: Enter L2TP Account, Password, Service IP address, WAN IP address, Subnet address, Gateway which provided by your ISP. Click "**Next**" to continue.

1417 1	S. Winnerd					
Wizard	• Wizard					
System						
VAN	L2TP					
LAN NAT	L2TP Account	999				
Firewall	L2TP Password	•••				
 Routing UPnP 	Retype password	•••				
V QoS	Service IP Address	13.0.	0.1		(1)	P Address or Domain Name)
Logout	WAN Interface IP	Stati	c IP Ad	ddress	-	
	WAN IP Address	13	.0	.0	. 10	
	WAN Subnet Mask	255	.0	.0	.0	
	WAN Gateway	13	.0	.0	, 1	
	MTU (546-1460)	1460				
	Maximum Idle Time (60~3600)	300	(se	conds)		

Step 3: Enable DNS Settings if required, enter the DNS server address(es). Click "**Finish**" to save the settings.

/isus /	Product Name ASUS RX3041 V2	
Wizard	• Wizard	
 System WAN 	DNS Settings	
LAN NAT Firewall	Static DNS Server	Enabled
 Routing UPnP 	Primary DNS address	168 . 95 . 1 . 1
QoS DDNS Logout	Secondary DNS address	
Logour		Back Finish

Step 4: After Wizard setting is completed, the configuration page will show **Success**.

sus 🦯 P	roduct Name ASUS RX3041 V2	
Wizard	🖶 Wizard	
Status		
System		Success
WAN .		Success
LAN .		
NAT .		Continue
Firewall		
Routing		
UPnP		
QoS		
DDNS		
Logout		

Step 5: You can use the "Status" screen to see the PPTP connection status.

	roduct Name ASUS RX3041 V2	5US RX3041 V2
Wizard Status System	Status	Internet
WAN	Cable/DSL	Connected
 NAT Firewall 	WAN IP	20.0.0.202
Routing	Subnet Mask	255.255.255.255
UPnP OoS	Gateway	20.0.200
DDNS	DNS	168.95.1.1
Logout	Secondary DNS	0.0.0
	Domain Name	
	Connection Type	L2TP
	Connection Time	00:00:12
	Co	nnection) Disconnected)

2.2.6 BigPond

This connection is only for Telstra BigPond (Australia) Server use.

```
Step 1: Select "BigPond" from WAN connection type.
```



Step 2: Enter BigPond Account, Password, and Authentication Server which provided by local ISP. Click "**Next**" to continue.

Wizard	🕘 Wizard	
Status		
System		
WAN	BigPond	
LAN		
NAT	BigPonod Account	123456
Firewall	BigPond Password	
Routing	-	
VPnP	Retype password	•••••
0oS	Authentication Server	10.0.0.1

Step 3: Enable DNS Settings if required, enter the DNS server address(es). Click "**Finish**" to save the settings.

/SUS	Product Name ASUS RX3041 V2	
Wizard Status System	Wizard DNS Settings	
LAN NAT Firewall	Static DNS Server	F Enabled
Routing UPnP QoS DDNS	Primary DNS address Secondary DNS address	168 . 95 . 1 . 1
Logout		Back Finish

Step 4: After Wizard setting is completed, the configuration page will show **Success**.

Wizard	Wizard	
Status		
System		Success
WAN		Success
LAN		
NAT		Continue
Firewall		
Routing		
UPnP		
QoS		
DDNS		

Step 5: You can use the "Status" screen to see the BigPond connection status.

Wizard Status	Status	
System		Internet
LAN	Cable/DSL	Connecting
NAT Firewall	WAN IP	0.0.0
Routing	Subnet Mask	0.0.0
UPnP QoS	Gateway	0.0.0
DDNS	DNS	0.0.0
Logout	Secondary DNS	0.0.0.0

2.3 System

This section displays the basic configuration parameters of your router, such as System Status, System Settings, Administrator Settings, Firmware Upgrade, Configuration Tools and System Log. Although most users will be able to accept the default settings, every ISP is different. Please check with your ISP if you are not sure which settings the ISP requires.

2.3.1 System Status

You can use the Status screen to see the connection status for the router's LAN interfaces, firmware and hardware version numbers, and the number of connected clients to your network.

Wizard	🗧 Status	
Status System		Internet
→Settings →Administrator	Cable/DSL	Disconnected
→Firmware Upgrade →Configuration Tools	WAN IP	0.0.0.0
→Log	Subnet Mask	0.0.0.0
AN	Gateway	0.0.0
TAT	DNS	0.0.0.0
Firewall Routing	Secondary DNS	0.0.0
JPnP DoS	Domain Name	
DDNS	Connection Type	Dynamic IP
ogout	Connection Time	00:00:00
	(Rel	ease) (<u>Renew</u>) Gateway
	IP Address	192.168.1.1
	Subnet Mask	255.255.255.0
	DHCP Server	Enabled
	NAT	Enabled
	Firewall	Enabled
		Information
	System Up Time	00:03:57
	System Date	Thu Jan 01 08:03:57 1970
	Connected Clients	1
	Runtime Code Version	1.0.0.1
	Runtime Code Version Boot Code Version	1.0.0.1 0.0.9.6

INTERNET: Displays WAN connection type and status.

GATEWAY: Displays system IP settings, as well as DHCP, NAT and Firewall status.

INFORMATION: Displays the number of connected clients, as well as the router's hardware and firmware version numbers.

2.3.2 System Settings

The System Settings window configures the router's basic settings, such as the router's Host Name, Domain Name, Set Time Zone, Daylight Saving and NAT.

Wizard	System/Se	ettings
Status		
✓ System →Settings	Host Name	RX3041
→Administrator →Firmware Upgrade	Domain Name	
→Configuration Tools →Log	NTP Server	(option)
WAN	Set Time Zone	(GMT+08:00) Hong Kong, Perth, Singapore, Taipei
LAN	Set Time 2016	(Giri +00.00) Hong Kong, Pertit, Singapore, Taiper
NAT	Daylight Saving	Enabled From: FEB 🔻 2 💌 to: FEB 💌 2 💌
Firewall	bayingin baring	
Routing	NAT	Enabled
VPnP		Endered
QoS		
DDNS		OK) Cancel)

Host Name: Enter a hostname provided by the ISP (Default: RX3041 V2).

Domain Name: Enter a Domain Name provided by the ISP.

Set Time Zone: Select the time zone of the country you are currently in. The router will set the time based on your selection.

Daylight Saving: The router can also take Daylight savings into account. If you wish to use this function, you must check/tick the enable box to enable your daylight saving configuration.

NAT: You can select to enable NAT function.

2.3.3 Administrator Settings

Use this menu to restrict management access based on a specific password. By default, the password is admin. So please assign a password to the Administrator as soon as possible, and save it in a safe place. Passwords can contain from 3-12 alphanumeric characters, and are case sensitive.

Administrator Time-Out - The amount of time of inactivity before the router will automatically close the Administrator session. Set this to zero to disable it.

Remote Management - By default, management access is only available to users on your local network. However, you can also manage the router from a remote host by adding the IP address of an administrator to this screen.

		ASUS RX3041 V2
Wizard Status System System System System Administrator Settings Administrator Settings Configuration Tools Configuration Tool	ASUS RX3041 V System / Ad User Name Current Password New Password Re-type Password Idle Time Out	
Logout		Remote Management
	Enabled	Γ
	IP Address	0.0.0
	Port	8080
		OK Cancel

Password Settings: Allows you to select a password in order to access the web-based management website

Remote Management: Defined special IP for remote management. You should enter the IP here (note: ISP provides more than one IP address, you should enable "**Does ISP provide more IP address?**", and the IP address should match with remote management IP.

Port: Enter the remote management port.

2.3.4 Firmware Upgrade

User uses the Firmware Upgrade window to locate the new firmware then upgrade the system firmware. Click Browse to search for the new firmware location, and then click **OK** to process the upgrade.

	ASUS RX3041 V2
Wizard Status System ->Settings ->Administrator Firmware Upgrade ->Configuration Tools ->Log VAN LAN VAN VAN VAN VAT Firewall Routing VUPnP QoS DDNS Logout	Current Firmware Upgrade Current Firmware Version: V 1.0.0.1 Firmware Date: #16 Fri Oct 09 11:47:07 2009 Enter the path and name of the upgrade file then click the OK button below. Browse OK Cancel

Firmware Upgrade: This tool allows you to upgrade the router's system firmware. To upgrade the firmware of your router, you need to download the firmware file to your local hard disk, use the Browse button to find the firmware file on your PC.

2.3.5 Configuration Tools

Use this window to restore or backup RX3041 V2 router settings, such as Restart System, Restore Factory Default, Backup Settings and Restore Settings.

	ASUS RX3041 V2
SUS Produc	t Name ASUS RX3041 V2
Wizard Status	System / Configuration Tools
Status ✓ System →Settings	Restart System
→Administrator →Firmware Upgrade	C Restore Factory Default
→Configuration Tools →Log	C Backup Settings
VAN	C Restore Settings
NAT Firewall	Browse
Routing	OK Cancel
UPnP QoS	
DDNS Logout	

Restart System: Reboot this device.

Restore Factory Default: Reset the settings of this device to the factory default values.

Backup Settings: Save the settings of this device to a file.

Restore Settings: Restore the settings of this device to the backup settings.

2.3.6 Log

The System Log window displays the router's system activities and configures remote log settings. Not only does the device display the logs of activities and events, it can be setup to send these logs to another location. The logs can be sent via email to a specific email account.

		ASUS RX3041 V2	
ASUS Product	ASUS RX3041 V	2	
Wizard Status ☞ System	🖲 System / Log		
→Settings		System Log	
 →Administrator →Firmware Upgrade →Configuration Tools →Log WAN LAN NAT Firewall Routing 	[Thu Jan 01 08:00:00 1970][System]System start [Thu Jan 01 08:00:00 1970][System]Ver 2.1 p0 #10 Tue Sep 29 15:59:22 2009 [Thu Jan 01 08:08:03 1970][DHCPS]RX DISCOVER by 00:13:D4:FC:C7:47 [Thu Jan 01 08:08:04 1970][DHCPS]TX OFFER of 192.168.1.2 [Thu Jan 01 08:08:04 1970][DHCPS]TX REQUEST by 00:13:D4:FC:C7:47 [Thu Jan 01 08:08:04 1970][DHCPS]TX ACK to 192.168.1.2 [Thu Jan 01 08:08:07 1970][DHCPS]RX INFORM by 192.168.1.2		*
UPnP QoS DDNS Logout	Dov	vnload) (Clear) (Refresh)	
Eugout		Remote Log Setting	
	Remote Log	F Enabled	
	Send log to	0 . <u>0</u> . <u>0</u> . <u>0</u>	
	Email Log	Enabled	
	Send Email to		
	SMTP Server	0.0.0.0	
		OK Cancel	

System Log: The router's system activity.

Remote Log: Enable this option for sending log to remote log server.

Send log to: Enter the destination IP of remote log server.

Email Log: Enable this option and the logs will send to the specific email address.

Send Email to: Enter the email address which the Email address the logs will be sent to.

SMTP server: Enter the address of the SMTP (Simple Mail Transfer Protocol) server that will be used to send the logs.

2.4 WAN

2.4.1 Connected Type

Specify the WAN connection type required by your Internet Service Provider, then click "**OK**" button to provide detailed configuration parameters for the selected connection type.

		ASUS RX3041 V2
	uct Name ASUS RX3041	V2
Wizard Status	🖲 WAN / Dyna	amic IP Address
System		WAN Connection Mode
→Connection	 Dynamic IP Address 	Obtain an IP address automatically from your service provider.
LAN NAT Firewall	C Static IP Address	Use a static IP address. Your service provider gives a static IP address to access Internet services.
 Routing UPnP QoS 	С РРРоЕ	PPP over Ethernet is a common connection method used for xDSL
DDNS Logout	С РРТР	PPP Tunneling Protocol can support multi-protocol Virtual Private Networks (VPN).
	C L2TP	Layer 2 Tunneling Protocol can support multi- protocol Virtual Private Networks (VPN).
	C BigPond	Australia ISP service

Dynamic IP address: You will obtain an IP address from your ISP automatically.

Static IP address: you can use the fixed IP address assigned by your ISP to access the internet service.

PPPoE: PPPoE is a common connection type used for xDSL.

PPTP: PPP Tunneling Protocol can support multi-protocol Virtual Private Network (VPN) **L2TP:** Layer 2 Tunneling Protocol can support multi-protocol Virtual Private Network (VPN)

BigPond: BigPond is an Australian internet service provider and is a subsidiary of Telstra.

2.4.2 Dynamic IP address

The Host Name is optional, but may be required by some ISPs. The default MAC address is set to the WAN's physical interface on the router. Use this address when registering for Internet service, and do not change it unless it is required by your ISP, You can use the "**Clone MAC Address**" button to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with this MAC address.

	Dynamic IP Address	
Request IP address		
MTU(576-1500)	1500	
MAC Cloning	Enabled	
MAC Address	00 - 00 - 00 - 00 - 00 - 00	Clone MAC)
	OK Cancel	

Request IP address: Enter the IP address of the device which you will clone.

MTU: This is optional. You can specify the maximum size of the packets transmitted to the Internet. Leave it as it is if you do not wish to set a maximum packet size.

MAC Cloning: Enable or disable MAC cloning option.

MAC Address: Enter the MAC address of the device you want to clone.

2.4.3 Static IP address

If your Internet Service Provider has assigned a fixed address, enter the assigned address and subnet mask for the router, then enter the gateway address of your ISP.

S	tatic IP Address	
IP address assigned by your ISP	0.00.00.	
Subnet Mask	255 . 255 . 255 . 0	
ISP Gateway Address	0.00.00.	
MTU(576-1500)	1500	
MAC Cloning	☐ Yes	
MAC Address	00 - 00 - 00 - 00 - 00 - 00	Clone MAC)
м	ore IP addresses	
Does ISP provide more IP addresses?	☐ Yes	
0	K) (Cancel)	

IP address assigned by your ISP: The IP address is provided by your ISP.

Subnet Mask: Enter the subnet mask of the router.

ISP Gateway Address: Enter the gateway address at ISP end.

MTU: This is optional. You can specify the maximum size of the packets transmitted to the internet. Leave it as it is if you to not wish to set a maximum packet size.

MAC Cloning: MAC address of WAN. If you use cable modem you must input it. You can use the Clone MAC Address button to copy the MAC address of the Ethernet Card installed by your ISP and replace the WNA MAC address with this MAC address.

Does ISP provide more IP addresses: If your ISP supports more IP addresses, please click Yes; otherwise, leave it unchecked.

2.4.4 PPPoE

Enter the PPPoE user name and password assigned by your Service Provider. The Service Name is normally optional, and may be required by some service providers. Enter a Maximum Idle Time (in minutes) to define a maximum period of time for which the Internet connection is maintained when it is inactive. If the connection is inactive for longer than the defined Maximum Idle Time, then it will be dropped. You can enable the Auto-reconnect option to automatically reestablish the connection as soon as you attempt to access the Internet again.

	PPPOE
User Name	
Password	•••••
Retype password	•••••
Service Name	
MTU (546-1492)	1492
Maximum Idle Time (60-3600)	300 seconds
Connection Mode	keep-alive 👻
MAC Cloning	Enabled
MAC Address	00 - 00 - 00 - 00 - 00 - 00 Clone MAC

User Name: Enter the username provided by the ISP.

Password: Enter the password provided by the ISP.

Retype Password: Retype the password for confirmation purposes.

Service Name: This is optional. Enter the Service name provided that your ISP requires it, otherwise leave it blank.

MTU: This is optional. You can specify the maximum size of the packets transmitted to the Internet. Leave it as it is if you do not wish to set a maximum packet size.

Maximum Idle Time: You can specify an idle time threshold (minutes) for the WAN port. This means if no packet has been sent (no one using the Internet) during this specified period, the router will automatically end the connection with your ISP.

Connection Mode: To select the PPPoE connection mode, it includes Keep-alive, auto-connect and manual-on.

2.4.5 PPTP

The PPTP window allows user to configure basic PPTP settings for the router.

	рртр	
WAN Interface	Settings	
WAN Interface IP	Static IP 🔻	
MAC Cloning	F Enabled	
MAC Address		Clone MAC
IP Address	0.0.0	
Subnet Mask	255 .255 .255 .0	
Gateway	0.0.0	
PPTP Password		-
Retype passwor	d	
PPTP Service IP Address	0.0.0.0 Domain Name)	(IP Address or
Connection ID		(Optional)
MTU (546-1460)	1460	
Maxinum idle time(60~3600)	300 seconds	
Connection Mod	e keep-alive 🔻	
Connection Mod	e keep-alive ▼	

PPTP Account: Enter the PPTP Account provided by the ISP.

PPTP Password: Enter the password provided by the ISP.

Retype Password: Retype the password for confirmation purposes.

PPTP Gateway: If your LAN has a PPTP gateway, then enter that PPTP gateway IP address here. If you do not have a PPTP gateway, then enter the ISP's Gateway IP address above.

IP Address: This is the IP address provided by your ISP to establish a PPTP connection.

Connection ID: This is an optional ID given by the ISP.

MTU: This is optional. You can specify the maximum size of the packets transmitted to the Internet. Leave it as it is if you do not wish to set a maximum packet size.

Maximum Idle Time: You can specify an idle time threshold (minutes) for the WAN port. This means if no packet has been sent (no one using the Internet) during this specified period, the router will automatically end its connection with your ISP.

Connection Mode: Select the connection mode PPTP uses, it includes Keep-alive, auto-connect and manual-on.

MPPE: To enable or disable Microsoft Point-to-Point Encryption mode.

2.4.6 L2TP

The L2TP window allows user to configure basic L2TP settings for the router.

	L2TP
WAN Interface	Settings
WAN Interface IP	Static IP 🗸
MAC Cloning	Fnabled
MAC Address	00 :00 :00 :00 :00 :00 (Clone MAC
IP Address	0.0.0
Subnet Mask	255 .255 .255 .0
Gateway	0.00.0
L2TP Account L2TP Password	 •••••
Retype password	
L2TP Service IP Address	0.0.0.0 (IP Address or Domain Name)
MTU (546-1460)	1460
Maxinum idle time(60∾3600)	300 seconds
Connection Mode	keep-alive 🔻
	OK Cancel

L2TP Account: Enter the L2TP Account provided by the ISP.

L2TP Password: Enter the password provided by the ISP.

Retype Password: Retype the password for confirmation purposes.

L2TP Gateway: If your LAN has a L2TP gateway, then enter that L2TP gateway IP address here. If you do not have a L2TP gateway then enter the ISP's Gateway IP address.

IP Address: This is the IP address provided by your ISP to establish a L2TP connection.

MTU: This is optional. You can specify the maximum size of the packets transmitted to the Internet. Leave it as it is if you do not wish to set a maximum packet size.

Maximum Idle Time: You can specify an idle time threshold (minutes) for the WAN port. This means if no packet has been sent (no one using the Internet) during this specified period, the router will automatically end its connection with your ISP.

Connection Mode: To select L2TP connection mode, it includes keep-alive, autoconnect and manual-on.

2.4.7 BigPond

BigPond is an Australian internet service provider and is a subsidiary of Telstra.

	BigPond	
User Name		
Password	•••••	
Please retype your password	•••••	
Authentication Server		
Request IP address		
MTU(576-1500)	1500	
MAC Cloning	F Enabled	
MAC Address	00 - 00 - 00 - 00 - 00 - 00	Clone MAC)

User Name: Enter the username provided by the Australian ISP.

Password: Enter the password provided by the Australian ISP.

Please retype your Password: Retype the password for confirmation purposes.

Authentication Service: Enter the Service name provided that your ISP requires it, otherwise leave it blank.

Request IP address: Enter the IP address of the device which you will clone.

MTU: This is optional. You can specify the maximum size of the packets transmitted to the Internet. Leave it as it is if you do not wish to set a maximum packet size.

MAC Cloning: Enable or disable MAC cloning option.

MAC Address: Enter the MAC address of the device you want to clone.

2.4.8 DNS

Domain Name Servers are used to map an IP address to the equivalent domain name (e.g.www.waveplus.com). Your ISP should provide the IP address for one or more domain name servers.

	AS	SUS RX3041 V2
	ASUS RX3041 V2	
Wizard Status ▷ System ♥ WAN →Connection →DNS ▷ LAN ▷ NAT ▷ Firewall ▷ Routing ▷ UPnP	WAN / DNS Static DNS Server Domain Name Server (DNS) Address Secondary DNS Address (optional) OK	Enable .
₽ QoS DDNS Logout		

Domain Name Server (DNS) Address: This is the IP address of the DNS server provided by the ISP; or you can specify your own preferred DNS server IP address.

Secondary DNS Address (optional): This is optional. You can enter another IP address of the DNS server as a backup. The secondary DNS will be used when the above DNS fails.

2.5 LAN

2.5.1 Settings

Configure the gateway address of the router. To dynamically assign the IP address for clients' PCs, enable the DHCP Server, set the lease time, and then specify the address range. Valid IP addresses consist of four numbers, which are separated by periods. The first three fields are the network portion ranging from 0 to 255, while the last field is the host portion ranging from 1 to 254.

SUS Prod	ASUS RX3041 V2		
Wizard Status	LAN / Settings		
System	IP Address	192 . 168 . 1 . 1	
 ✓ LAN →Settings →DHCP Client List ▶ NAT 	Subnet Mask The Gateway acts as DHCP Server	255.255.255.0	
 Firewall Routing 	IP Pool Starting Address	192.168.1. 2	
UPnP QoS	IP Pool Ending Address	192.168.1. 254	
DDNS Logout	Lease Time	Half hour 🔻	
	DNS Proxy	Enabled	

IP address: This is the router's LAN port IP address (Your LAN clients' default gateway IP address)

Subnet Mask: Specify a Subnet Mask for your LAN segment.

The Gateway acts as DHCP Server: You can enable or disable the DHCP server.

IP Pool Starting Address: Enter the first address assigned by the DHCP server.

IP Pool Ending Address: Enter the last address assigned by the DHCP server.

Lease Time: Enter the number of hours that a client can use the assigned IP address.

DNS Proxy: To enable or disable DNS Proxy.

2.5.2 DHCP Client

The DHCP client list allows you to see which clients are connected to the router via IP address, host name, and MAC address.

		AS	US RX3041	L V2	
	t Name ASUS RX		:-+		
Wizard Status System	- LAN / DI	ACP Client	List		
VAN			DHCP Client List		
→Settings →DHCP Client List	Host Name	IP Address	MAC Address	Remaining Time	Static
 NAT Firewall 	test-PC	192.168.1.2	00:13:D4:FC:C7:47	07:23:22	
 Routing UPnP 			(Refresh)		
QoS DDNS		Sta	tic Client Configura	tion	
Logout	Host Name			5456-6554	
	IP Address	192.168.1.			
	MAC Address	:	:	: A	dd)
			OK Cancel)	

DHCP Client List: This page shows all DHCP clients (LAN PCs) currently connected to your network. It displays the IP address and the MAC address and Remaining Time of each LAN client. Use the Refresh button to get the lately updated situation

2.6 NAT

2.6.1 Virtual Server

If you configure the router as a virtual server, remote users access services such as Web or FTP at your local site via public IP addresses can be automatically redirected to local servers configured with private IP address. In other words, depending on the requested service (TCP/UDP port number), the router redirects the external service request to the appropriate server.

-	
Fyan	nple:
LAGI	iipic.

ID	Private IP	Private Port	Туре	Public Port	Comment
1	192.168.1.20	200	TCP	80	Web Server
2	192.168.1.12	333	TCP	21	FTP Server
3	192.168.1.28	455	TCP	23	Telnet Server

		ASUS	RX3	041 V2		
SUS Produc	tt Name ASUS RX3041					
Status						
System	Private IP	Private Port	Туре	Public Port	Comment	Enable
▶ WAN						_
V LAN	1, 192,168,1,20	200	TCP -	80	Web Serve	
→Virtual Server	2, 192,168,1,12	333	TCP -	21	FTP	
→Special Application	3. 192.168.1.18	455	TCP -	23	Telnet	v
→Port Mapping	4, 192,168,1.	·	TCP -			
→ALG →DMZ		·				
→OMZ Firewall	5, 192,168,1,		TCP -		J	
Routing	6. 192.168.1.		TCP 🔻			
UPnP	7. 192.168.1.		TCP -			Г
▶ QoS			TCP -	-	-	Г
DDNS	8, 192,168,1.		TCP V			1
Logout	9. 192.168.1.		TCP 🔻			Г

Private IP: This is the LAN client/host IP address to which the Public Port number packet will be sent.

Private Port: This is the port number (of the above Private IP host) to which the Public Port number below will be changed when the packet enters your LAN (to the LAN Server/Client IP)

Type: Select the port number protocol type (TCP, UDP or both). If you are not sure, leave it to be the default TCP protocol.

Public Port: Enter the service (service/Internet application) port number that will be re-directed to the above Private IP address host in your LAN.

Comment: The description of this setting.

Enabled: Enable the Virtual Server function.

2.6.2 Special Application

Some applications require multiple connections, such as Internet gaming, video conferencing, Internet telephony and others. These applications cannot work when Network Address Translation (NAT) is enabled. If you need to run applications that require multiple connections, specify the port associated with an application in the "Trigger Port" out going port field, select the protocol type as TCP or UDP, then enter the public ports incoming port associated with the trigger port to open them for inbound traffic.

Example:

ID	Trigger Port	Trigger Type	Public Port	Public Type	Comment
1	47624	UDP	2300-2400, 28800-29000	UDP	MSN Game Zone
2	47624	UDP	2300-2400, 28800-29000	TCP	MSN Game Zone
3	61112	UDP	6112	UDP	Battle.net

					US	5 RX3041 V2				
ISUS Produc		_	S RX3041 \					_		
Wizard	-> N	AT /	Specia	al Appl	ica	tion				
Status										
System		Trig	ger Port	Trigger	Туре	Public Port	Тур	e	Comment	Enabled
VAN VAN			-	-						
LAN	1.	47624	~ 47624	UDP	•	2300-2400, 28800-29000	UDP	-	MSN Game	
✓ NAT	2.	47624	~ 47624	UDP	-	2300-2400, 28800-29000	TCP	-	MSN Game	V
→Virtual Server	2.	47024	NJ47024	UDF		2300-2400, 20000-29000	TUCE		Inon Game	
→Special Application	3.	6112	~ 6112	UDP	-	61112	UDP	-	Battle.Net	
→Port Mapping	4.			ТСР			TCP			F
→ALG	4.		~	TCP			TCP	-	1	
→DMZ	5.			TCP			TCP	-		

Trigger Port: This is the outgoing (Outbound) range of port numbers for this particular application.

Trigger Type: Select the type of outbound port protocol; it may be "TCP", "UDP" or "Both".

Public Port: Enter the Incoming (Inbound) port or port range for this type of application (e.g. 2300-2400, 47624)

Public Type: Select the type of In-bound port protocol: "TCP", "UDP" or "Both".

Comment: The description of this setting.

Enable: Enable the Special Application function.

2.6.3 Port Mapping

This function allows one or more public IP addresses to be shared by multiple internal users. Enter the Public IP address you desire to share into the Global IP field. Enter a range of internal IP that will share the global IP.

	ASUS RX3041 V2				
SUS Produ	ct Name ASUS RX3041 V2				
Wizard	NAT / Port Ma	pping			
Status System	Server IP	Mapping Ports	Туре	Comment	Enabled
LAN	1, 192.168.1.		TCP -		Г
✓ NAT →Virtual Server	2. 192.168.1.		TCP -	<u> </u>	
→Special Application	3. 192.168.1.		TCP -		
→Port Mapping →ALG	4. 192.168.1.		TCP 👻		
→DMZ	5. 192.168.1.		TCP -		Г
Firewall Routing	6. 192.168.1.		TCP 👻		
UPnP UPnP	7. 192.168.1.		TCP -		
QoS DDNS	8. 192.168.1.		TCP 👻		
Logout	9. 192.168.1.		TCP -		
	10. 192.168.1.		TCP -		

Server IP: Enter the NAT server IP address.

Mapping Ports: Enter the port number to which the NAT server maps.

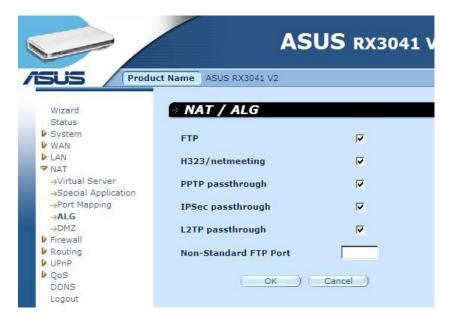
Type: Select the type of the In-bound port protocol: "TCP", "UDP" or "Both"

Comment: The description of this setting.

Enabled: Enable the Port Mapping function.

2.6.4 ALG

The ALG (Application Layer Gateway) window allows users to configure ALG settings for the router.



ALG (Application Layer Gateway): You can choose to enable ALG, and then the router will let that application correctly pass though the NAT gateway.

2.6.5 DMZ

If you have a client PC that cannot run Internet application properly from behind the NAT firewall or after configuring the Special Applications function, then you can open the client up to unrestricted two-way Internet access. Enter the IP address of a DMZ host to this screen. Adding a client to the DMZ (Demilitarized Zone) may expose your local network to a variety of security risks, so you can only use this option as a last resort.

		ASUS RX3041 V2
Wizard Status	t Name ASUS RX3041 \	/2
System		DMZ Setting
LAN NAT	Enabled	E
→Virtual Server →Special Application →Port Mapping		Add a DMZ Hos
→ALG	Public IP Address	0.0.0.0 👻
→DMZ Firewall Routing	IP Address of Virtual DMZ Host	192.168.1. Add)
VPnP VOoS		
DDNS	Exis	ting Virtual DMZ Hosts
Logout	Public IP Address	IP Address of Action Virtual DMZ Host
	C	OK) Cancel)

DMZ (Demilitarized Zone): Enable/disable DMZ.

Public IP Address: The IP address of the WAN port or any other Public IP addresses provided by your ISP.

IP Address of Virtual DMZ Host: Enter the DMZ host IP address.

2.7 Firewall

2.7.1 Option

The router provides extensive firewall protection by restricting connections to reduce the risk of intrusion and defending against a wide array of common hacker attacks. However, for applications that require unrestricted access to the Internet, you can configure a specific client/server as a demilitarized zone (DMZ).

	2/	ASUS RX3041	. V2
151	JS Produ	ASUS RX3041 V2	
St	izard atus	• Firewall / Options	
V Sy	/stem AN	Enable/Disable	
₽ LA		Enable/Disable	
▶ NA ▼ Fir	rewall	Options	
	Dptions Access Control	Discard PING from WAN side	Γ
	JRL Filtering MAC Control	Deny PING to the Gateway	
₽ Ro	outing Pop	Drop Port Scan Packets	
V Qa		Deny to Scan Security Port (113)	v
	gout	Discard NetBios Packets	Ē
-		Deny Fragment Packets	Ē
		Disable ICMP Packets When Error is Encountered	
		Disable ICMP Packets when Error is Encountered	
		IP Spoofing	
		Smurf Attack	
		Ping of Death	
		Land Attack	
		Snork Attack	
		UDP Port Loop	
		TCP Null Scan	v
		Syn Flood Threshold	300 packets per second (1-3000)

Firewall Options: Select the functions that firewall supports. The selections include Enable Hacker Attack Protect, Discard PING from WAN side, Deny PING to the Gateway, Drop Port Scan packets, Allow to Scan Security Port (113), Discard NetBios Packets, Accept Fragment Packets and Send ICMP Packets When Error is Encountered.

2.7.2 Access Control

You can filter Internet access for local clients based on IP addresses, port, application types, (i.e., HTTP port), and time of day.

For example, this screen shows that clients in the address range 192.168.1.50-99 are permanently restricted from using FTP (Port 21), while clients in the address range 192.168.1.110-119 are blocked from browsing the Internet from Monday through Friday.

-/			AS	US R	X30	41 V	2		
ISUS Product	Name ASUS RX3	8041 V2							
	• Firewall ,	/ Acc	ess C	ontrol					
Status System	V			Acces	s Cont	rol			
VAN					5 COIIC				
NAT	Client Filter			Enable					
✓ Firewall →Options	-								-
→Options	1		1	Configure	Client	Filter			
→URL Filtering →MAC Control	Active	Enable							
Routing	IP Address	192.16	58.1. 110	~ 192.16	8.1. 19	9			
UPnP V QoS	Port	80	~ 80						
DDNS		-							
Logout	Туре	TCP	-						
	Block Time	🕶 Alv	ways C	Block					
	Day	□ su	IN 🔽 MO		WED	🔽 тни 🖪	FRI 🗖 SAT	г	
	Time	0.002	am 🔻 a	0:00am •					
				0.000111	in the second				
	Comment	HTTP							(dd)
	-								_
	10 ¹			Existing	Client	Filter			
	IP Address	Port	Туре	Block I Time	Day	Time	Comment	Active	Action
	192.168.1.50~ 192.168.1.99	21~ 21	tcp	Always		0:00 am~ 0:00	FTP	Enable	
						am			
	192.168.1.110~ 192.168.1.199		tcp	Always	MON TUE WED THU FRI	0:00 am~ 0:00 am	НТТР	Enable	
			C	ок)	Can	cel_)			

2.7.3 URL Filtering

To configure the URL Filtering feature, please specify the web sites (www.somesite. com) and/or web URLs containing the keyword you want to filter on your network.

A	SUS RX3041 V2	
duct Name ASUS RX3041 V2		
Firewall / URL F	iltering	
Enable URL Filter		
IP	URL filter string	Enable
1 102 169 1 10 20	www.comesite.com	
2. 192.168.1.		
3. 192.168.1.		
4. 192.168.1. ~		
5. 192.168.1.		
6. 192.168.1. ~		
7. 192.168.1.		
8. 192.168.1.		
9, 192.168.1, ~		
10, 192,168,1		
	duct Name ASUS RX3041 V2 → Firewall / URL F Firewall / URL F Fable URL Filter IP 1. 192.168.1,10 ~ 20 2. 192.168.1,10 ~ 20 2. 192.168.1,10 ~ 20 3. 192.168.1,10 ~ 20 5. 192.168.1,10 ~ 20 6. 192.168.1,10 ~ 20 7. 192.168.1,10 ~ 20 8. 192.168.1,10 ~ 20 9. 192.168.1,10 ~ 20 192.168.1,10 ~ 20 192.168.1,10 ~ 20 192.168.1,10 ~ 20	Firewall / URL Filtering IP URL filter string 1. 192.168.1, 10 ~20 2. 192.168.1, 10 ~20 3. 192.168.1, ~ ~ 4. 192.168.1, ~ ~ 5. 192.168.1, ~ ~ 6. 192.168.1, ~ ~ 7. 192.168.1, ~ ~ 8. 192.168.1, ~ ~ 9. 192.168.1, ~ ~

2.7.4 MAC Control

The MAC Control window allows user to block certain client PCs' access to the Internet based on MAC address.

	uct Name ASUS RX3041 V2	ASUS RX3041 V2
Wizard Status	* Firewall / MAC	C Control
System		MAC Control
VAN LAN	MAC Address Control	Disable MAC Address Control function
✓ Firewall →Options →Access Control		Deny Internet access for the following MAC addresses Allow Internet access for the following MAC addresses
→URL Filtering	MAC Address	
Routing UPnP OoS	Comment	Add
DDNS Logout		
		Existing MAC Filter
	MAC Address	Comment Actio
		OK Cancel

MAC Address Control: This function allows user to determine whether to filter out or accept the following MAC address that attempts to connect to the internet.

Configure MAC Filter: Enter the MAC address to filter out or to accept.

2.8 Routing

2.8.1 Routing Table

The Routing Table window displays the current routing information in the system.

			SUS R	X304	41 V2
Wizard Status	oduct Name ASUS R	/ Routing			_
WAN		Routing	Table List		
	Destination LAN IP	Subnet Mask	Gateway	Metric	Interface
Firewall Routing	192.168.1.0	255.255.255.0	192.168.1.0		
 ⇒Routing Table ⇒Static Routes ⇒Dynamic Routing UPnP QoS DDNS Logout 			efresh)		

2.8.2 Static Routes

A static route is a pre-determined pathway that network information must travel toreach a specific host or network.

	A	SUS RX30	41 V2	
Wizard Status System WAN LAN LAN Kirewall Routing Static Routes Static Routes UPnP	uct Name ASUS RX3041 V2 Routing / Stati Sta Destination Network IP Subnet Mask Gateway IP	c Routes tic Routes Configura	tion _)	-
QoS DDNS		xisting Static Route	s	
Logout	Destination LAN IP	Subnet Mask	Gateway	Action

Destination LAN IP: The network address of destination network.

Subnet Mask: The subnet mask of destination network.

Gateway: The next stop gateway of the path toward the destination network. This is the IP of the neighbor router that this router should communicate with on the path to the destination network.

2.8.3 Dynamic Routing

Dynamic Routing can be used to cache routes learned by routing protocols, thus allowing the automation of static routing maintenance. The router, using the RIP (Routing Information Protocol), determines the network packet's route based on the fewest number of hops between the source and the destination. In this case, you can automatically adjust to physical changes in the network layout.

		ASUS RX3041 V2
	ct Name ASUS RX3041 V2	namia Dautina
Wizard Status	Routing / Dyn	amic Routing
Status System	Enable RIP	🗖 Enable
LAN NAT	Working Mode	₢ Router C Gateway
 Firewall Routing 	Listen Mode	Disabled 👻
→Routing Table →Static Routes →Dynamic Routing	Supply Mode	Disabled 👻
UPnP		OK Cancel
QoS DDNS Logout		

Working Mode: Select the router acts as router or gateway.

Listen Mode: Enable this mode to allow RIP server to receive routing information and update the routing information.

Supply Mode: Enable this mode to allow RIP server to send out routing information and update the routing information.

2.9 UPnP

2.9.1 Settings

UPnP (Universal Plug and Play) allows automatic discovery and configuration of equipment attached to your LAN. UPnP is supported by Windows ME, XP, or later. It provides compatibility with networking equipment, software and peripherals of over 400 vendors that cooperate in the Plug And Play forum.

	ASU	IS RX3041 V2
ISUS Prod	ASUS RX3041 V2	
Wizard Status	UPnP / Settings	
VAN	Enable UPnP	Enabled
LAN NAT	UPnP Port Number	1900
Firewall Routing	Advertise Time(60 - 1800)	1800 seconds
✓ UPnP →Settings Port Mapping	(OK	Cancel
→Port Mapping QoS DDNS		
Logout		

UPnP Settings: You can Enable or Disable UPnP feature here.

2.9.2 Port Mapping

The Port Mappings window displays all UPnP ports mapping information.

	ASUS RX3041 V2
Wizard Status V System	UPnP / Port Mapping
 WAN LAN NAT Friewall Routing UPnP →Settings →Port Mapping QoS DDNS Logout 	Remote External Internal Internal Protocol Duration Description Host Port Client Port

2.10 QoS

QoS (Quality of Service). This option will provide better service of selected network traffic over various technologies. Deploying QoS management to guarantee that all application receive the service levels required and sufficient bandwidth to meet performance expectations is indeed one important aspect of modem enterprise network.

2.10.1 Port Base

Port Base feature is the solution for managing and avoiding congestion where the network meets limited broadband bandwidth. The network traffic can be set maximum rate limits by per-port. You can control bandwidth according to which of the physical LAN ports and WAN port of your computer or device is plugged into.

	ASI	JS R	X3041 V2
SUS / F	Product Name ASUS RX3041 V2		
Wizard Status	🖲 QoS / Port Base		
▶ System	Enable Port Rate Control	En En	able
VAN LAN	LAN-1	0	Kbps
 Firewall Routing 	LAN-2	o	Kbps
▶ UPnP ▼ QoS	LAN-3	0	Kbps
→DSCP	LAN-4	o	Kbps
DDNS Logout	WAN	0	Kbps
	OK	Can	cel)

Enable Port Rate Control: Make the check mark to enable Port Base function.

LAN-1 ~4 / WAN: Key in the rate value from 1 ~ 100000 (Default is 0). QoS' Port base feature let you assign a High or Low traffic (data) priority to LANs and WAN port. You can enable Port rate control and set an ingress rate limit of Tx/Rx bandwidth traffic.

2.10.2 DSCP

DSCP (Differentiated Services Code Point) means the traffic classification based on the packet's IP precedence making. (To manages and avoid traffic congestion by defining inbound and outbound priority rules for each device on the Router). These rules determine the priority that packets, traveling through the device, will receive. You can set the queue weight value to arrange the traffic usage, and decide which DSCP value will use the corresponding queue.

		ASUS R	X304	1 V2	
ASUS Proc	uct Name ASUS RX3041 V2				
Wizard Status	• QoS / DSCP				
System		DSCP Weight S	ietting		
LAN	Enable DSCP	L e	Enable		
NAT Firewall Routing	High queue weight	8	(1-15)		
UPnP	Medium queue weigh	t 4	(1-15)		
✓ QoS →Port Base →DSCP DDNS	Low queue weight	2	(1-15)		
Logout		DSCP Rules Se	etting		
	Enable Rule	Γ.	Enable		
	DSCP value		(0-63)		
	Queue map	Lov	v Priority	-	
	Description				
		Add)		
		Rules Listi	ng		
	DSCP value Que	eue map Deso	cription	Active	Action
	C	ок) (Са	ancel)		

After checked Enable DSCP, more settings will be explored.

High queue weight: Set weight value for the highest priority.

Medium queue weight: Set weight value for the medium priority.

Low queue weight: Set weight value for the lowest priority.

For High queue, Medium queue, and Low queues, setting different weight for them are to assign different throughput for these priorities.

The default values are: High queue: Medium queue: Low queue = 8:4:2

That means High queue's throughput should be double of Medium queue and quadruple of Low queue. You can change the weight by your need. Of course, you should not assign the bigger weight value for lower priorities. That are illegal input and error message will alert.

Enable Rule: Check to active the rule and verse versa.

DSCP value: Set the DSCP for this rule. Range of this number is from 0 to 63.

Queue map: Map a High, Medium or Low queue to this DSCP value.

Description: Text field to enter the name or notes for this rule.

Rules Listing: After rules are added, it will be listed in this table.

2.11 DDNS

DDNS (Dynamic DNS) provides you on the Internet with a method to tie their domain name to a computer or server. DDNS allows your domain name to follow your IP address automatically by changing your DNS records when your IP address changes.

		ASUS RX3041 V2
sus / 🛛	Product Name ASUS RX3041 V2	2
Wizard	DDNS	
Status		
System		C Enabled C Disable
WAN		Chabled ** Disable
LAN	Host Name	
NAT NAT	nost name	
Firewall	DDNS Server	dyndns.org 👻
Routing		-,
VPnP	User Name	
V QoS		
DDNS	Password	
Logout		
	DDNS Update Interv	al 0 (0-86400)minutes

DDNS: Enable/Disable the DDNS function of this router.

2.12 Help Information

The help information displays on the right side of some screens. All the router functions are described and some technical terms are listed in the help information.

	ASUS RX3041 V2	
Wizard Status	→ System / Administrator	Password Settings
-Settings Administrator -Firmware Upgrade -Configuration Tools -Log VMAN LAN LAN KAT Firewall Routing UPAP QoS DDNS	Password Settings User Name admin Current Password New Password Re-type Password Idle Time Out 300 Seconds (0: No timeout)	 Password Settings In this page,you can change your administrator's password. Remote Management IP address : defined special IP for remote management , you should enter the IP
Logout	Remote Management Enabled IP Address 0.0.0.0 Port 9080 OK Cancel Help Information	here (note : ISP provide more than 1 IP address , you should enable (does ISP provide more IP address ?) , and the IP address should match with remote management IP) Port : the remote management port !

2.13 Log out

Click **Logout** in the task bar to initiate the router logout process.



Click **OK** to logout the router utility.

Logout
Information
Do you want to logout?