# SL200

**User Manual** 

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# Chapter 1 Introduction

Congratulations on purchasing ASUS SL200 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

In addition to this document, SL200 should come with the following:

- One SL200 router
- · AC external adapter
- · CD including all language user manuals

# 1.3 Finding Your Way Around

# 1.3.1 Front Panel

The front panel contains LED indicators that show the status of the unit.



LED Label	Color	Status	Indication
Power	Groop	ON	SL200 is powered on.
Fower	Tower Green		SL200 is powered off.
		ON	Link is established.
LAN(1-4)	Green	Blinking	Link is established, and data is being transmitted or received.
		ON	Link is established.
WAN	Green	Blinking	Link is established, and data is being transmitted or received.
Ctatua	Croon	ON	The device is hung.
Sialus	Green	Blinking	The device is up and ready.

# 1.3.2 Rear Panel

The rear panel contains the ports for the unit's data and power connections.



Label	Indication
POWER	Power Input Jack: connects to the supplied AC adapter.
WAN	WAN Port: connects to your WAN device, such as ADSL or cable modem.
LAN(1-4)	LAN Ports: connects to your PC's Ethernet port, or to the uplink port on your LAN's hub/switch, using the Ethernet cable.
	Reset Button:
RESET	1. Reset the system configuration to the factory defaults, if pressed for more than 4 seconds.
	2. Reboot the device if pressed for more than 20 seconds.

# 1.4 System Requirements

- One or more PCs (desktop or notebook) with Ethernet interface.
- TCP/IP protocol must be installed on all PCs.
- Have valid Internet Access account and a DSL or cable modem.
- 10/100BaseT network cables with RJ-45 connectors.
- System with MS Internet Explorer ver. 5.0 or later, or Netscape Navigator ver. 4.7 or later.

# 1.5 Installation Instruction

- 1) Power off the router and DSL/cable modem.
- 2) Connect systems to the LAN ports on the router with straight LAN cables.
- 3) Connect the DSL or cable modem to the WAN port on the router.
- Power on DSL or cable modem first, then connect power adapter to the power jack on the router and plug the power cable into an outlet.
- 5) Check LEDs.
- a) Once power on the router, Power LED should be on.
- b) LAN LED should be on for each active LAN connection.
- c) The WAN LED should be on when the DSL or cable modem is connected.

# 2 PC Configuration

User needs to configure TCP/IP network settings, Internet access configuration for each system within SL200 LAN. The SL200 Router, by default, acts as a DHCP server, it automatically assigns IP address to each system when the systems boot up. If users choose fixed IP addresses for client systems, the gateway of the client system must be set to the IP address of the Router and DNS of the client system should be set to the address provided by your ISP.

# 2.1 TCP/IP Networking Setup

# 2.1.1 Checking TCP/IP Settings for Windows 9x/ME

a) Select " **Start -> Control Panel -> Network** ", the following window will appear:

Client for Mion Dial Up Adapt SiS 900 PCI F TCP/IP > Dia	or ast Ethernet	u Adapter		
TCP/IP > SiS	900 PCI Fas	t Ethemet Ad	lapter	
≜dd	ns	move	Propertie	
Primary Network L Windows Logon	ogon:			
Eile and Print 9	haring			89. -
Description	xocol you us	e to connect	to the Internet	and

b) Click "Properties", the window below will appear:

An I II you your the	P address can be automatically assigned to this computer ur retrivork does not extransfically assign IP addresses a retrivork administrator for an address, and then type it in space below.	or. Bak
G	Obtain en IP address automatically	
0	Specify on IP address	
	(FAdoese	
	Egg week be and	
F	Detect connection to network media	

- If you decide to use DHCP, select "Obtain an IP address automatically", then click "OK" to save your settings. Once you restart your system, the router will obtain an IP address for this system.
- If you decide to use fixed IP address for your system, select "Specify an IP address", and make sure the IP Address and Subnet Mask are correct.
- c) Select "Gateway" tab and enter a correct gateway address in "New gateway" field, and then click "Add":

DNS Co	nfiguration	Galeway	WINS Configura	vion   IP Addres
The fr The a mochi	st gateway ddress ord nes are us	y in the Installe er in the list will ed	d Gateway lat w be the order in a	ll be the default. Hich these
New C	galeway		êdd	J
		hát:	Hamour	L
	_	_		

d) Select "DNS Configuration" tab and then select "Enable DNS", enter the DNS address provided by your ISP in the "DNS Server Search Order" field, then click "Add":

ELP/IP Proporties				7	L
Bindings DNS Configuration	Adv	wins c	onliguratio	NetBIO5	14
C Disable DNS	n na sta i			1999 - 1999 -	
Host		Dgmai	•		
DNS Server Search	Order -	1		-	
	•	-	Add		
Domain Suffix Sea	ch Oider	-		1	
		- 6 -	Hearn		
		10		-2	
	_				
		2	05	Cancel	

#### 2.1.2 Checking TCI/IP Setting for Windows NT4.0

a) Select "Control Panel -> Network", click "Protocols" tab, then select "TCP/IP protocol", the window below will appear:

NotBEUI Pr	otocal		
NWLink IP	K/SPX Compatible (BIOS)	le Transport	
TCP/IP Pro	toor.		
Add_	Benove	Properties.	Dipdate
Description	2	24	
Transport Con area network p	trol Protocol/Inte protocol that prov	met Protocol. The rides communication	default wide in across
diverse interco	nnected network	a,	

b) Click "Properties", the window below will appear:

PAddees DNS   WINS Addres	DHCP Relay   Routing
An IP address can be ascenatically a by a DHCP corver. If your network day and your retrient attractified to an the space below.	nigned to this network card sec not have a DHCP sorver, address, and then type it in
Adapter 	et Ethnest NE
P Obtain an IP address from a Di	CP server
- C Specify an IP address	
- C Specify an IP address	_
C Specify an IP address     C Annotation	_
Checkbard Packars     Construction     Construction     Construction     Construction	
South an P addess     Provide and     Construction     Denset Denset	Advanced

- · Select the network card on your system from "Adapter" field.
- If you decide to use IP address from the router, select "Obtain an IP address from a DHCP server".
- If you decide to use the desired IP address, select "Specify an IP address", and enter correct addresses in "IP Address" and "Subnet Mask" fields.
- You'd better set the router 's IP address as "Default Gateway".
- c) Enter DNS address got from your ISP, select "DNS" tab, click "Add" under "DNS Service Search Order" list, and then enter DNS.

Heat Name		Ognain	
DNS Service	Search Order		
			ment
Add	Conera.	nerse	
Domain Suffi	Search Oider		lane l
			Conserved to

#### 2.1.3 Checking TCP/IP Settings for Windows 2000

 a) Select "Start -> Control Panel-> Network and Dial-up Connection" and right click "Local Area Connection" and then click "Properties":

1000		
Connect using:		
19 5/5 900-Based	PCI Fast Ethernel Adapte	6
		Contant
and the second s	fair used hu this connect	Tordan
Suboutus cutores	A DIO COLONI UNI COLUMN	
and the state of t		
Client for Mich	Insoft Networks	transfer.
Client for Mich	iosoft Networks Sharing for Microsoft Networks	etworks
Client for Mic	rosoft Networks = Shaing for Microsoft Network (TCP//P)	elowark.z
Glent for Mich     File and Print     File and Print     File	rosoft Networks = Shaing for Microsoft Ne col (TCEV/E)	Hworks
Clerit for Mic File and Print File and Print Internet Prote	ocoll Networks In Shaing for Microsoft Network COLLEPTER Uninstal	Pjoperties
Clerit for Mic File and Print File and Print File and Print Printal Instal	osoft Networks in Sharing for Microsoft Network COLLICENER Uninstal	Pjoperties
Clerit for Mic File and Print File and Print File and Print File and Print Printal Instal Description Transmission Cont	ocoff Networks m Shaing for Microsoft Ne col (CCP/IF) Uninstal	Pjopertes
Cherr for Mic  File and Pinte  File and Pinte  Instal  Desception  Transmission Content  wide area retricol.	Intervents  Shaing for Microsoft Ne  Control of Microsoft Ne  Control of Microsoft Ne  Control of Microsoft Ne  Control of Microsoft Net  Control of Microsoft Net  Control of Microsoft Net  Control of Net	Pjopertie:
Clerc for Noc  File and Pinot  File  File and Pinot  File  File and Pinot  File  File File	Destrock for the provides or the provides of the provides of the provides or recorrected networks	Pioperties col. The default munication

b) Select the "Internet Protocol (TCP/IP)" for the network card on your system, then click "Properties", the window below will appear.

ternet Protocol (TCP/IP) Pr	operties 1
ieneal	
You can get IP settings assign this capability. Otherwise, you r the appropriate IP settings.	ed automatically Eyour network supports need to ask your network administrator for
🕫 Ottan an IP address aut	onatically
C Use the following IP add	ets
(P address	
Sybrat mask	
Dennik gaterrop	
Cigtan DNS server adde	ss automatically
C. Urg the following DNS or	erver addresses
Enterned DNS server.	
Stende DVS serve	
	Adjanced .
	OK Cancel

- If you decide to use IP address from the router, select "Obtain an IP address automatically".
- If you decide to use the desired IP address, select "Use the following IP address", and enter the correct addresses in "IP Address" and "Subnet Mask" fields.
- You'd better set the router 's IP address as "Default Gateway".
- If the DNS Server fields are empty, select "Use the following DNS server addresses" and enter the DNS address provided by your ISP, then click "OK".

#### 2.1.4 Checking TCP/IP Settings for Windows XP

a) Click "Start", select "Control Panel -> Network Connection" and right click "Local Area Connection" then select "Properties", the window shown as below will appear.

	ALIGUOC 800	n ji sedwan	ceo		
Connect u	ing:				
💵 SiS :	00-Based i	PCI Fast E	themet Adap	xer	
This come	ction uses I ient for Mic	he followi	ng items: works	2	nligure
	e and Pinto S Packet 1	er Sharing Scheduler col (1027	for Microsoft	Pa	a substitutes
Descripti	n			<u> </u>	
Transmi	a network p	of Protocol protocol th connected	Internet Pro at provides o I networks.	tocol. The ommunici	default
wide are across o					

b) Select "Internet Protoicol (TCP/IP)", and then click "Properties", the following window will appear.

nternet Pretocel (TCP/IP	) Properties 🛛 🛜
General Alternate Configuration	on
You can get IP settings arsig this capability. Otherwise, you the appropriate IP settings.	ned automatically if your network, supports mend to ask your network administrator for
Ottan an IP acteur as	Associate and
OUje the following IP add	besa
If address	2
Sylamat mulch	
Dang excess	
Optan DNS cerver addr	ess automatically
OUs the following DNS :	erver addresses:
Enhmed DhS server	
gherrory DNS moor	5
	Advanced.
	DI. Cancel

- If you decide to use IP address from the router, select"Obtain an IP address automatically".
- If you decide to use the desired IP address, select "Use the following IP address", and enter the correct addresses in "IP Address" and "Subnet Mask" fields.
- You'd better set the router's IP address as "Default Gateway".
- If the DNS Server fields are empty, select "Use the following DNS server addresses" and enter the DNS address provided by your ISP, then click "OK".

# 3 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 SL200 Router's LAN. For best results, either use Microsoft Internet Explorer 5.0 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.

# 3.1 Start your Web Browser

To use the Web-Based Utility, you have to launch your Internet Browser (MS IE 5.0 or later, Netscape Navigator 4.7 or later).

Step1: Enter the default IP address of SL200 Router http://192.168.1.1 in the address field, and then press Enter button.

😰 Problem Isaling page – Moralla Firefox	
File Hit Yew Qo Booknada Jook Help	0
4 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	- O & C.
P Orting Darbel 🔛 Latest Headlines	

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

Prompt		
?	Enter username and password for "" at 192.168.1.1 User Name:	
	admin	
	Password:	
	****	
	Use Password Manager to remember this password.	
	OK Cancel	
-		

#### 3.2 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 SL200	
US /	edect Name ASUS SL200	
Ward	Wizard	
Status System WAN	Name A305_34200	
VIN	Domain AtUS_VPN_Router	
NAT Fermal	Tane ((GMT+08:00) Hong Kong, Parth, Singapore, Taip	( <u>)</u>
Houting DONS Lipput	Daylight Disabled from [FEB (M) 2 (M) to FEB	e [ 2 . M ]

**Host Name**: Enter a hostname provided by the ISP (Default: SL200).

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 Cable Modem, Fixed-IP xDSL, or PPPoE xDSL. After you setup the connection settings, click **Next** to update the DNS settings.

	ASUS SL200	
Vizard Status 9 System 9 WAN 9 VPN 9 LAN 9 Ant 9 Fisewall 9 Fisewall 9 Fisewall 9 Fisewall 9 Fisewall 9 Fisewall 9 Fisewall 9 Spots Lingewall	Preduct Name 12015 51200	<b>8</b> 2

**Cable Modem**: If your router connects to the cable modem, click Cable Modem to enable/disable the MAC cloning function (MAC address is provided by your ISP).

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

**Dial-Up xDSL (PPPoE)**: If your router connects to the Dial- Up xDSL, click Dial-Up xDSL to enter the login information provided by your ISP.

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

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

You can update the DNS settings only if you enabled the DNS server under the WAN configuration page. After you change the DNS configurations, click Finish to update the DNS settings of the router.

	ASUS SL200	
Wizard Setui 9 system 9 LAN 9 LAN 9 LAN 9 CAN 9	WIZOTCI      Calle Multime      MAC     Casing Drabled     NAC     Address D0 00 00 Clane MAC     Address 1 Next	

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.

#### 3.3.1 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.

	A	SUS SL200	
-Del	o Status		594
Materia System		internet	The ser use the Datas
B WAR	Cable (195)	Ciprol/reited	carbon to see the convection
# Linx	MAN TO	8300	Science engine median
9 MAT	a desired and a		and the number of some stad
a andre	Transfer Frank		clearly to your network. The
e cent	Contra an any	*****	following items are included
Logout	698	100 35 3.3	in the core of
	Secondary DVS	83.0.0	+ Internet
	Cross all fia les	ADUS_VIPLEMAN	contention time and
	Connection Type	4219	status.
	Lummerthan Tame	et worde	* Gatzway
	Canada	m) Deserveded	Chapters system IP
			DHCP, NAT and
		Getovary	Frend status.
	IP Address	112.546.1.1	• Information
	Balant Hask	219 239 239 6	Disploys the number
	BHCP Server	analised	as eather The Statistic
	- AT	Braidel	formular contain
	Firmal	Analised	satian.
	te	lormation	
	Sexteen By Time	A1115.01	
	Texteen Date	1/5/1979 0.11.11	
	Canada da di Chevita	*	
	Rambings Cade Version	we a state	
	South Franks, Branning		
	and the Address		
	WAR FOR ABOTTLY	PULLER IN CO.	
a second s		Ferruh 1	

**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.

#### 3.3.2 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.

		ASUS 5L200		
Wilet Date	Syster	m/Settings		
The day	Mexit. Nation	MUE JARN		<ul> <li>Time Jene</li> <li>Timu can select</li> </ul>
Alternation and the sales	Berialti Name	and projection and the second s		yeur tmazurie,then
star	NIP	10ated		Anna From Anna A
9 vm	Bet.			only service.
# 1.5M	Zate	(GHT+DI BIL Hong Kong, Ferth, Sociality, Tagel	- 14	
b Frend b Reubeg	Baylight Southing	Disasist mar (mar al 2 w/m (mar al 2 w)		
DOM:	NAT	Erested		
and a second sec		(at ) Canal)		

**Host Name**: Enter a hostname provided by the ISP (Default: SL200).

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.

#### 3.3.3 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.

	dt-Hasser ADJS SL280	ASUS SL200	
Ward	- System / Adn	ninistrator	
Contents     Contents     Contents     demonstration     demonstration     demonstration     deg     dest     deg     test     test	Hear Name Correct Factored Yes Personal Re-Type Personal Mile Time Out	Pressent Bellings	<ul> <li>Passnand kettings beitik page pise om obespå pise elsmantarke presentet.</li> <li>Renado Hakagement in aldres i definet passible for renado melagement, pis obespåment, pis o</li></ul>
Ligar	Factories IF Address Fact	Factoria Management	more than 1. (24 oblives, you should enable 1 dee 105 provide more 24 address 11, and this 24 address should mater with rescale more agained 121 (

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

#### 3.3.4 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, then click OK to proceed the upgrade.

	ASUS SL200	
Wigard Status Status System -Settings -Settings -Settings -Settings -Settings -Settings -Ling -Ling -Ling -Kak -Ling -Kak -Stating -Rading - - - - - - - - - - - - - - - - - - -	Kame AGUS 51200      System / Firmware Upgrade      Carrent Firmware Version: V 2.1.2.108     Firmware Date:: hulldel5 @ Fil Dec 15 11:11:00 2005.      Enterthe path and name of the upgrade file then cick     the Ock button below.      Carcel      Ok Carcel	<ul> <li>Click Browse to select the firmware and then click OK to upgrade it.</li> </ul>

**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.

## 3.3.5 Configuration Tools

Use this window to restore or backup SL200 router settings, such as Restart System, Restore Factory Default, Backup Settings and Restore Settings.

	ASUS SL20	00
Viterd Status System otenings	Name ASUS SL200 System / Configuration Tools G Restart System	• Restore Poiltory Defe System configuration is
-Administrator -Foreware Upgrade -Configuration Teels -Log b MAL b VPIL VPIL LAN	Beckup Settings     Beskure Settings     Beskure Settings	result to the factory defer exitings. Default settings are: Userneme: admin Password: admin IP: 192.340.3.3
NAT     Freedul     Feating     Long     Long     Long	OK( Canoal_)	Netmesk: 255.255.255.3

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.

#### 3.3.6 System Log

The System Log window displays the router's system activities, such as System Log and Remote Log.

		ASUS SL200
SUS / Frede	1 Name #3US BLOOD	
Maard	- System / Log	
Station Station	Bystons Log	
-Administrator -firmmer lageste -firmer en lageste -firmer - table - table	The Jac B 10101010 1570 The Jac B 2000 00 1570 The Jac B 2000 00 1570 The Jac B 2000 00 41570 The Jac B 2000 04 1570 The Jac B 2000 05 1570 The Jac B 2000 05 1570 The Jac B 2000 40 1570	[1715] System stat           [373] Wa 21.2.106 boxd 46 (§ F4.Dec 16 13.11.39.2006           [01CPD] received BioUti[17]           [01CPD] received SciUti[17]           [01CPD] received SciUti
Logout		Doveload   Clasr ) Februak (
		Remote Log Setting
	Remote Log	Trabled
	Send log to	0 . E . 0 . 0
	Email Log	C Ended
	Send Local to	
	SMIP Server	84.0.0

System Log: The router's system activity.

Remote Log Setting: Setting the IP Address of remote log server.

## 3.4 WAN

## 3.4.1 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 SL200
Visus Pro	duct Name	ASUS SL200 AN / Dynamic	IP Address
Status > System			WAN Connection Mode
-Connection	۲	Dynamic IP Address	Obtain an IP address automatically from your service provider.
VPN     LIN	0	Static IP Address	Use a static IP address. Your service provider gives a stati IP address to access Internet services.
P NAT P Frewell	0	PPPoE	PPP over Ethernet is a common connection method used for xDSL
UP UP IP	0	рртр	PFP Tunneling Protocol can support multi-protocol Virtual Private Networks (VPN).
Lagout	0	LZTP	Layer 2 Tunneling Protocol can support multi-protocol Virtual Private Networks (VPN).

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

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

**PPPoE**: Your ISP requires PPPoE connection.

**PPTP**: Your ISP requires you to use a Point-to-Point Tunneling Protocol (PPTP) connection.

L2TP: Your ISP requires L2TP connection.

#### 3.4.2 Dynamic IP

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
BigPond	Enabled	
	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.

**BigPond**: BigPond is an ISP in Australia, if your ISP is BigPond, please enable this selection, otherwise, leave it unchecked.

#### 3.4.3 Static IP

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.

IP address assigned by your ISP	0,0,0,0
Subnet Mask	255 , 255 , 255 , 0
ISP Gateway Address	0,0,0,0
MTU(576-1500)	1500
212 - MAR - 1992	
	resses
More IP add	
More IP add Does ISP provide more IP addresses?	Yes

**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.

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

# 3.4.4 PPPoE (PPP over Ethernet)

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 re- establish the connection as soon as you attempt to access the Internet again.

**<Disconnect>** - Clicking the Disconnect button will trigger the router to cut-off the PPPoE connection.

PI	PPOE
User Name	pppoe_user
Password	****
Please retype your password	****
Service Name	
MTU (546-1492)	1492
Maximum Idle Time (60-3600)	300 seconds
Connection Mode	keep-alive

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

Password: Enter the password provided by the ISP.

**Please retype your 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.

# 3.4.5 PPTP (Piont-to-Piont Tunnel Protocol)

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

рртр				
WAN Interface Settings				
WAN Interface IP	Dynamic IP 💌			
MAC Cloning	Enabled			
MAC Address	00 :00 :00 :00 :00 Clone MAC			
PPTP Settings				
PPTP Account	pptp_user			
PPTP Password	****			
Please retype your password	****			
PPTP Gateway	IP Address			
IP Address	0.0.0			
Connection ID	5. (Optional)			
MTU (546-1460)	1460			
Maxinum idle time(60∾3600)	300 seconds			
Connection Mode	auto-connect 💉			
MPPE	Enabled			
	OK Cancel			

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

PPTP Password: Enter the password provided by the ISP.

**Please retype your 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.

 $\ensuremath{\textbf{MPPE}}\xspace$  : To enable or disable Microsoft Point - to - Point Encryption mode.

## 3.4.6 L2TP

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

	L2TP		
WAN Interface Set	tings		
WAN Interface IP	Static IP		
IP Address	192 .168 .1 .1		
Subnet Mask	255 .255 .0		
Gateway	0.0.0		
L2TP Account	2tp_user		
12TP Account	12to user		
L2TP Password	****		
Please retype your password	*****		
L2TP Gateway	IP Address		
IP Address	192 .168 .1 .5		
MTU (546-1460)	1460		
Maxinum idle time(60∾3600)	300 seconds		
Connection Mode	auto-connect 💌		
	OK Cancel		

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

L2TP Password: Enter the password provided by the ISP.

**Please retype your 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, auto-connect and manual-on.

## 3.4.7 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.

Witsed     Wan / DNS       Status     WAN / DNS       Status     DNS Prexy       WAN     Ons Prexy       WAN     Ons Prexy       WAN     Ons Prexy       UNN     Domain Name Server       UNN     Domain Name Server       UNN     Domain Name Server       NAT     Secondary DNS Address (optional)	ASUS SL200	
Witzerd     WAN / DNS       Status     System       System     DNS Prexy       WAN		
> System     DNS Proxy     Image: Construction            wAN      Static DNS Server             wDNS      Domain Name Server             vPN      Domain Name Server             vIN      DNS) Address             vAn      (DNS) Address             vinall      Secondary DNS Address (optional)		
Connection     Static DNS Server     DOMAIN Name Server     VPN     Domain Name Server     LAN     (DNS) Address     NAT     Secondary DNS Address (optional)	inable	
UPN         Domain Name Server           UAN         (DNS) Address           NAT         Secondary DNS Address (optional)           Finwall	Inable	
KAT     Secondary DNS Address (optional)     Firawall	30-30-30	
Routing Search Static DNS Firstly     UPnP	Inable	
DDNS QK Can	el)	

**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.

# 3.5 VPN

# 3.5.1 Tunnel

VPN Router including support for VPN must be installed in both networks to enable creation of an encrypted tunnel between a local and a remote network via the Internet ("VPN tunnel"). The VPN server must be allowed by the traffic policy and enabled at both ends of the tunnel.

	AS	US SL200
Witard Status Status Systems WAN YUNI	ASUS SL200	IPsec Tunnel Setting
LAR Provide the second	Tunnel Name Local Secure Group IP Address MASK	1P Address xm 0 0 0 0 0 255.255.255
	Remote Secure Group IP Address MASK Remote Secure Gateway IP Address	IP Address         (m)           (a)         (a)         (a)           255.255.255         (P Address)         (m)           (a)         (a)         (a)
	17 Multess	Key Management
	Key Exchange Preshared Key	Auto(IKE) se

Tunnel Entry: You can configure up to 5 VPN Tunnels.

VPN Tunnel: Enable the VPN Tunnel function.

**Tunnel Name**: Naming the VPN Tunnel. Each VPN tunnel must have a unique name.

**Local Secure Group**: This side of the tunnel will automatically attempt to establish and maintain a connection to the remote VPN server.

IP Address: The IP Address of local Secure Group.

**Remote Secure Group**: This end of the tunnel will only listen for an incoming connection from the remote side.

IP Address: The IP Address of remote Secure Group.

**Remote Secure Gateway**: The gateway between local secure group and remote secure group.

IP Address: The IP Address of Remote secure Gateway.

**Key Exchange**: There are 2 options for key exchange – Auto(IKE) and Manual.

		ASUS SL200
Wizard Status System	ct Name ASUS SL200	Tunnel I (+++) w
P WAN P VPN		Phase 1
LIKE Parametes	Operation Node Encryption Authentication Group Key Life Time	Main w DES w MDS w Group 1 (760-bit) w 28800
		Phase 2
	Encryption Authentication PFS Group	MD5 w Enable Group 1 (768-bit) w
	Key Life Time	28800

#### [Phase 1]

"**Phase 1**" (Authentication) section will concern settings for Authentication Phase or Phase 1. It is also called IKE Negotiation Phase.

Phase 1's purpose is to negotiate IKE policy sets, authenticate the peers, and set up a secure channel between the peers. Also part of Phase 1, each end system must identify and authenticate itself to the other.

**Operation Mode**: There are two modes for Phase 1, Main and Aggressive. If select Main mode, the VPN Client will be activated for this tunnel, Main Mode allows to the VPN Client to fetch some VPN Configuration information from the VPN gateway. If select Aggressive Mode, the VPN Client will used aggressive mode as negotiation mode with the remote gateway

**Encryption**: Encryption algorithm used during Authentication phase (DES, 3DES,...)

**Authentication**: Authentication algorithm used during Authentication phase (MD5/SHA1)

#### [Phase2]

"Phase 2" Section concerns settings for Phase 2. It is also called IPSec Configuration.

The purpose of Phase 2 is to negotiate the IPSec security parameters that are applied to the traffic going through tunnels negotiated during Phase 1.

**Encryption**: Encryption algorithm negotiated during IPSec phase (DES, 3DES,...)

Authentication: Authentication negotiated during IPSec phase (MD5/SHA1)

	A	SUS SL200
SUS Prod	ect Name ASUS \$1200	10444 (10427) (2010) (1
and the		Other Options
Status	NAT-Traversal	Enable
System	Dead Pres Detection	Dente
WAN		Libratie
Tunnel	DPD Delay Time	0
<b>HKE Parametes</b>	<b>DPD Retry Time</b>	5
LAN		
Firmsall	DPD Max Failures	(Brand
Routing	Anti-replay	Enable
UPoP	Face Aller	
Logalt	keep Aller	LiEnsble
one one	Counter Heasure	Enable
	Max Failures	8
	Stark Internet	an Garanda
	DIDCK INCOVAL	ten Seconda
		OK 1 Cancel 1

NAT-Traversal: Enable the NAT-Traversal function.

Dead Peer Detection: Enable Dead Peer Detection function

DPD Delay Time: Interval Delay Time between DPD messages

**DPD Retry Time**: Interval between DPD messages when no reply from remote gateway.

DPD Max Failures: The maximal time failures of DPD.

Anti-replay: Enable the Anti-replay function.

Keep Alive: Enable the Keep Alive function.

Counter Measure: Enable the counter Measure function.

Max Failures: The maximal time failures of Counter Measure.

Block Interval: Block Interval between Counter measure.

# 3.6 LAN

## 3.6.1 LAN 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.

5/	A	SUS SL200
Wizard	LAN / Settings	
System	IP Address	192 168 1 1
ANN ANN	Subnet Mask	255.255.255.0
LAN     Settings     DHCP Client List	The Gateway acts as DHCP Server	Enabled
P NAT	IP Pool Starting Address	192.168.1. 2
Frewall     Routing     LiPnP	IP Pool Ending Address	192.168.1. 254
DONS	Lease Time	One day 😿
Lagout	DNS Prosy	Fnabled

**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 .

#### 3.6.2 DHCP Client List

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

		A	SUS SL200		
Visurd Status In System	LAN / DH	no ICP Client L	Jist DHCP Client List	_	
IF WAR	Hest Name	IP Address	MAE Address	Remaining Time	Static
VLAN Setings SDHCP Client List P MAT Frewall	admin	192,168,3.3	00-00-61:441.8F125	23:34:44	
P Royling P UPnP		Sta	tic Client Configurat	lon	
Logent	Post Name IP Address NAC Address	192.158.1.[			

**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 latetly updated situation

# 3.7 NAT

## 3.7.1 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.

Example:

ID	Private IP	Private Port	Туре	Public	Comment
				Port	
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

	Private IP	Private Port	Туре	Public Port	Comment	Enabled
1.	192.160.1.		TCP M			
Ζ.	192.168.1.		TCP M	2		
3.	192.168.1.		TCP 💌			
4.	192.168.1.		TCP 💌			
5.	192.168.1		TCP 💌			
6.	192.160.1.		TCP 💌		-	
7.	192.168.1.		TCP M			
θ.	192.168.1.		TCP 👻			
9.	192.168.1		TCP V			
10.	192.168.1.		TCP ¥			

**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 wihich 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 Both 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 Virtual Server.

#### 3.7.2 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

	Trigger Port	Trigger Type	Public Port	Type	Comment Enables
.[	-	TCP 💓		TCP 💌	
	~	TCP 😴		тср 🤟	
	~	тср 💌		TCP 💌	
1	~	TCP 😠		TCP 💌	
ĺ	~	TCP 🛩		тср 🛩	
	~	TCP		TCP 💌	
1	~	TCP SE		TCP 🐱	
1	-	ТСР 🖌		TCP Y	
	1-	TCP M		TCP W	
4	~	TCP 🐱		TCP V	

**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 Inbound port protocol : "TCP", "UDP" or Both.

Comment: The description of this setting.

Enable: Enable the Special Application function.

# 3.7.3 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.

	Server IP	Mapping Ports	Туре	Comment	Enabled
1,	192.168.1.	1 2 	TCP 💌		
2.	192.168.1.		TCP 👻		
3.	192.168.1.		ТСР ⊻		
4.	192.168.1,		TCP 🖌		
5.	192.168.1.		TCP 🗸		
6.	192.168.1.		TCP 🗸		
7.	192.168.1.		ТСР 💌		
Β.	192,168.1,		TCP 🖌		
9.	192.168.1.	-	TCP 🗸		
0,	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 Inbound port protocol: "TCP", "UDP" or Both.

Comment: The description of this setting.

Enabled: Enable the Port Mapping function.

## 3.7.4 ALG (Application Layer Gateway)

The ALG window allows users to configure ALG settings for the router.

		ASUS SL200
ASUS Produ	ct Name ASUS SL200	
Wizard	🗟 NAT / ALG	
Status System	FTP	
VPN	H323/netmeeting	
✓ NAT →Virtual Server	PPTP passthrough	
→Special Application →Port Mapping	Windows messenger(file transfer)	
→ALG →DMZ	Ipsec passthrough	
<ul> <li>Firewall</li> <li>Routing</li> </ul>	Battle.Net multiplayers	
UPnP DDNS	Non-Standard FTP Port	
Logout	(ОК)	Cancel )

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

## 3.7.5 DMZ (Demilitarized Zone)

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.

	DMZ Setting	
nabled		
	Add a DMZ Hos	
ublic IP Address	0.0.0.0	
P Address of irtual DMZ Host	192.168.1.	Add )
Exist	ting Virtual DMZ Host	s
Exist Public IP Address	ing Virtual DMZ Host IP Address of Virtual DMZ Host	s Action

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.

# 3.8 Firewall

#### 3.8.1 Firewall Options

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).

SUS Prod	uct Name ASUS SL200	
Wizard	Firewall / Options	
System	Ontions	
WAR	Problem and the state of the state of the	
LAN	Enable Backer Attack Protection	¥1
NAT	Discard PING from WAN side	
Firewall	Deny PING to the Gateway	
-Access Control 	Drop Port Scan Packets	2
-MAC Control	Allow to Scan Security Port (113)	2
UPnP	Discard NetBios Packets	
Logout	Accept Fragment Packets	2
	Send ICMP Packets When Error is Encountered	

**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.

#### 3.8.2 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.

SUS Prod	uct Name ASUS SL200
wizard	Firewall / Access Control
Status Ir System	Access Control
UTRU LAN	Client Filter Enable
* Firenall	Configure Client Filter
Access Eastral -AAL, Filtering -MAG, Control - Routing - Unop - Unop - DONS Logout	Active         Enable           IP         192.168.5.           Port
	Existing Clingt Elitin

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.

# 3.8.3 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.

SUS Pre	uct Name ASUS 5L200		
Wiserd	Firewall / URL Fil	tering	
Status D System D WAN	Enable URL Filter	CHIEF Althout station C	Fred
E LAN E LAN	1. 192.168.1	ORL HITEY STRING	
Firewall     Options     Access Control     URL Filtering	z. 192.168.1		_ 0
-MAC Central P Reuting P UnvP	3.		
DDNS Logout	4. 192,148.1.		_ 0
	5. 192.188.1		
	6. 192.168.1.		
	7.		
	0. 192.100.1		
	9. 192.168.1		_ 0
	10. 192.168.1		

# 3.8.4 MAC Control

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

		ASUS SL200	
Wizerd Status 9 System 9 WAN	ert Name ASUS SL200	Control MAC Centrel	
<ul> <li>VPN</li> <li>LAN</li> <li>NAT</li> <li>Firswall</li> <li>Options</li> </ul>	MAC Address Control Deny or allow Internet addresses	access for the following MAC	Contraction Contra
-URL Filtering		Configure MAC Filter	
Lenac Control P Routing Units Doins Legaut	MAC Address Comment Action	Manual Setting (M	Add)
		Existing MAC Filter	_
	MAC Address	Comment	Action

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

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

# 3.9 Routing

## 3.9.1 Routing Table

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

			ASUS	SL2	200
Wizard	Routing	/ Routing	g Table		
stem:	-	Routing	Table List		
AN PN	Destination LAN IP	Subnet Mask	Gateway	Metric	Interface
AT	192.168.1.0	255.255.255.0	192.158.1.0	0	etho
revall Nuting Table Static Routes Dynamic Routing MP DNS		I B	efresh_)		

#### 3.9.2 Static Routing

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

Destination LAN IP: The network address of destination network.

	ASUS SL200
Wizerd Stabus S ystem WAN VPN VPN NAT NAT Routing Table State Router	Routing / Static Routes      Static Routes Configuration      Destination Network      P      Submet Nask     Gateway IP      Add Cancel
-Dynamic Routing UPnP DDNS Logout	Existing Static Routes Destination LAN IP Subnet Nask Gateway Action

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.

# 3.9.3 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 SL200
Wizard	t Name ASUS SL200	ynamic Routing
Status © System © WAN © VPN © LAN	Working Node Listen Nøde	© Router O Gateway Disabled
NAT     Firewall     Routing     Routing Table     Static Routes	Supply Mode	Disabled (W)
Denis Legnut		

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.

# 3.10 UPnP (Universal Plug and Play)

#### 3.10.1 UPnP 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.

	ASI	JS s	L20
SUS Prot	uct Name ASUS SL200		
Wizard Status	+ UPnP / Settings		
System	Enable UPnP	Enab	sled
VPN	UPnP Port Number	1780	
NAT	Advertise Time( 60 - 1800 )	1800	seconds
Firewall Routing	Subscribe Timeout( 60 - 1800 )	1800	seconds
-Settings -Port Mapping	<u>ок</u> )	Cance	

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

# 3.10.2 UPnP Port Mapping

The Port Mappings window displays all UPnP ports mapping information.

	ASUS SL200
Witand Status 9 Status 9 Status 9 Status 9 WAN 9 VPN 9 VPN 9 VPN 9 VPN 9 VPN	Neme ASUS SL200 UPnP / Port Mapping UPnP / Port Mapping List Remote External Internal Internal Protocol Duration Description
<ul> <li>NAT</li> <li>Firemall</li> <li>Routing</li> <li>Uhrlp</li> <li>Settings</li> <li>Levet Mapping</li> <li>DONS</li> <li>Logout</li> </ul>	Refresh_)

# 3.11 DDNS

## 3.11.1 DDNS (Dynamic DNS)

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.

HINKS .		A303 SL200
	e DDNS	
Status System WAN VPN LAN NAT	O Enabled Host Name DDN5 Server	Oisable
Firewall Routing UPnP DDNS Logout	User Name Password	
	DDN5 Retry Time	hours

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

# 3.12 Help Information

The help information displays on the right side of some screens (see the figure on the next page). All the router functions are described and some technical terms are listed in the help information.

whetered	: System / Adm	inistrator	
Techno Carlonge Carlonge Carlon -Carlogenetics Tech -Carlogenetics Tech -Carlogenetics Tech Hos -Carlogenetics Hos Hos -Carlogenetics Hos Hos -Carlogenetics Hos -Car	User hims Correct Passmeri Nex Prevent Next Prevent Salaries Life Time Out ExaMed 3P Address Part	Passmint Settings	<ul> <li>Parsenard Settinger in this pape, you can sharpe their anti-intervents generation.</li> <li>Remette Nanagement wandel 49 En evente remargement, son should an En evente (remargement), son should an En evente (remargement), son should an En evente (remargement), son should an event you should availe (or 13P previous more: 3P eddressy T), and the 3P eddressy En, and the should marghe intervente shou</li></ul>
			Fort - the remain management part -

# 3.13 Logout

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

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

Inform	nation
)o you want t	to logout?
OK )	(Cancel)