

WebShare 111/141 ROUTER ADSL2+ A02-RA111 A02-RA141



USER'S MANUAL A02-RA11(4)1_ME02

Where solutions begin







INDICE

WebShare 111/141 ROUTER ADSL2+	1 1
CHAPTER 1: INTRODUCTION	1
1.1 An Overview of WebShare 111/141 ADSL2+ Router	1
1.2 Package Contents	2
1.3 WebShare 111/141 Router ADSL2+ Features	2 2
1.4 WebShare 111/141 Router ADSL2+ Application	4
CHAPTER 2: USING WEBSHARE 111/141 ADSL2+ ROUTER	6
2.1 Cautions for using the WebShare Router ADSL2+	6
2.2 The Front LEDs	6
2.3 The Rear Ports	8
2.4 Cabling	8
CHAPTER 3: CONFIGURATION	10
3.1 Before Configuration	10
3.1.1 Configuring PC for Windows 95/98/ME	11
3.1.2 Configuring PC for Windows NT4.0	13
3.1.3 Configuring PC for Windows 2000	14
3.1.4 Configuring PC for Windows XP	16
3.1.5 Configuring for MAC	18
3.1.6 Verification of Configuration	19
3.1.7 Browser Configuration	19
3.2 Factory Default Setting	20
3.2.1 Password	20
3.2.2 LAN and WAN Port Addresses	21
3.3 Reset of WebShare Router ADSL2+	21
3.4 Informations from the ISP	21
3.5 Browser Configuration	22
3.6 Surfing in Web GUI Configuration	22
3.7 Configuring Password 3.8 Resetting the ADSL Router	23 24
3.8 Resetting the ADSL Router 3.8.1 Using The Reset Button	24 24
	∠4

	WebShare 111/141
CHAPTER 4: QUICK START	25
4.1 Wizard Setup Introduction	25
4.2 Encapsulation	25
4.2.1 PPP over Ethernet	25
4.2.2 PPPoA	25
4.2.3 RFC 1483	25
4.3 Multiplexing	26
4.3.1 VC-based Multiplexing	26
4.3.2 LLC-based Multiplexing	26
4.4 VPI and VCI	26
4.5 Quick Start	26 29
4.6 Wizard Setup Configuration: Connection Tests	29
CHAPTER 5: LAN SETUP	30
5.1 LAN Overview	30
5.1.1 LANs, WANs and the ADSL Router	30
5.2 DNS Server Address	31
5.3 DNS Server Address Assignment	31
5.4 LAN TCP/IP 5.4 1 Eastery LAN Defaults	31 32
5.4.1 Factory LAN Defaults 5.4.2 IP Address and Subnet Mask	32 32
5.4.3 RIP Setup	32
5.4.4 Multicast	32
5.5 Configuring LAN	34
CHAPTER 6: WAN SETUP	36
6.1 WAN Overview	36
6.2 PPPoE Encapsulation	36
6.3 PPTP Encapsulation	36
6.4 Traffic Shaping	36
6.5 Configuring WAN Setup	38
CHAPTER 7: NETWORK ADDRESS TRANSL	ATION (NAT) 43
7.1 NAT Overview	43
7.1.1 NAT Definitions	43
7.1.2 What NAT Does	43
7.1.3 How NAT Works	44
7.1.4 NAT Application	44
7.1.5 NAT Mapping Types	45

	WebShare 111/141
7.2 SUA (Single User Account) Versus NAT	46
7.3 Virtual Server and DMZ	46
7.3.1 Port Forwarding: Services and Port Numbers	46
7.3.2 Virtual Server	48
Click on Advanced Setup then NAT.	48
7.4 Selecting the NAT Mode	50
CHAPTER 8: ACCESS MANAGEMENT	53
8.1 ACL	53
8.2 IP Filter	54
8.3 SNMP	56
8.4 UPnP	56
8.5 DDNS	57
CHAPTER 9: ADVANCED SETUP	59
9.1 Routing	59
9.1.1 Add Route	59
9.2 NAT	61
9.2.2 DMZ	61
9.2.3 Virtual Server	62
9.2.4 IP Address Mapping	63 64
9.3 ADSL	04
CHAPTER 10: MAINTENANCE	65
10.1 Administration	65
10.2 Time Zone	65
10.3 Firmware	66
10.4 SysRestart	68
10.5 Diagnostic	68
CHAPTER 11: STATUS	70
11.1 Device Info	70
11.2 System Log	71
11.3 Statistics	71
APPENDIX A: TROUBLESHOOTING	74
A.1 Using LEDs to Diagnose Problems	74
A.1.1 Power LED	74
	/+

	WebShare 111/141
A.1.2 LAN LED	74
A.1.3 DSL LED	74
A.2 Telnet	75
A.3 Web Configurator	75
A.4 Login Username and Password	76
A.5 LAN Interface	76
A.6 WAN Interface	77
A.7 Internet Access	77
A.8 Remote Management	78
A.9 Remote Node Connection	78
APPENDIX B: TECHNICAL FEATURES	79
APPENDIX C:SUPPORT	80





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CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

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

FCC Caution: To assure continued compliance, (example - use only shielded interface cables when connecting to computer or peripheral devices) any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:



- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation.



CHAPTER 1: Introduction

1.1 An Overview of WebShare 111/141 ADSL2+ Router

Welcome to the WebShare 111/141 ADSL2+ Router. Your WebShare 111/141 ADSL2+ Router is an "all-in-one" unit, combining an ADSL modem, ADSL router and Ethernet network switch, providing everything you need to get the machines on your network connected to the Internet over your ADSL broadband connection. The WebShare 111/141 ADSL2+ Router complies with ADSL2+ standards for worldwide deployment and supports downstream rates of up to 24 Mbps and upstream rates of up to 1 Mbps. It is designed for small office, home office and residential users, enabling even faster speed Internet connections. User can enjoy ADSL services and broadband multimedia applications such as interactive gaming, video streaming and real-time audio much easier and faster than ever before.

The product supports PPPoA (RFC 2364 – PPP (Point-to-Point Protocol) over ATM Adaptation Layer 5), RFC 1483 encapsulation over ATM (bridged or routed), PPP over Ethernet (RFC 2516), and IPoA (RFC1577) to establish a connection with ISP. The product also supports VC-based and LLC-based multiplexing.

It is the perfect solution to connect a small group of PCs to a high-speed broadband Internet connection. Multi-users can have high-speed Internet access simultaneously.

This product also serves as an Internet firewall, protecting your network from being accessed by outside users. Not only provide the natural firewall function (Network Address Translation, NAT), it also provides rich firewall features to secure user's network. All incoming data packets are monitored and filtered. Besides, it can also be configured to block internal users from accessing to the Internet.

The product provides two levels of security support. First, it masks LAN users' IP addresses which are invisible to outside users on the Internet, making it much more difficult for a hacker to target a machine on your network. Secondly, it can block and redirect certain ports to limit the services that outside users can access. For example, to ensure that games and other Internet applications will run properly, user can open some specific ports for outside users to access internal services in network.

Integrated DHCP (Dynamic Host Control Protocol) services, client and server, allow multiple users to get their IP addresses automatically on boot up from the product. Simply set local machines as a DHCP client to accept a dynamically assigned IP address from DHCP server and reboot. Each time local machine is powered up; the router will recognize it and assign an IP address to instantly connect it to the LAN.

For advanced users, Virtual Service function allows the product to provide limited visibility to local machines with specific services for outside users. An ISP



(Internet Service Providers) provided IP address can be set to the product and then specific services can be rerouted to specific computers on the local network. For instance, a dedicated web server can be connected to the Internet via the product and then incoming requests for HTML that are received by the product can be rerouted to the dedicated local web server, even though the server now has a different IP address. In this example, the product is on the Internet and vulnerable to attacks, but the server is protected.

Virtual Server can also be used to re-task services to multiple servers. For instance, the product can be set to allow separated FTP, Web, and Multiplayer game servers to share the same Internet-visible IP address while still protecting the servers and LAN users from hackers.

1.2 Package Contents

The package contains:

- WebShare Router ADSL2+
- Vera (Multilanguage Interactive Tutorial)
- CD-Rom containing the online manual
- RJ-11 ADSL/telephone Cable
- Ethernet (CAT-5 LAN) Cable
- AC-DC power adapter

1.3 WebShare 111/141 Router ADSL2+ Features

Technical charateristics of WebShare Router ADSL2+:

ADSL Multi-Mode Standard: supports downstream rates of up to 24 Mbps and upstream rates of up to 1 Mbps. It also supports rate management that allows ADSL subscribers to select an Internet access speed suiting their needs and budgets. It is compliant with Multi-Mode standard (ANSI T1.413, Issue 2; G.dmt(G.992.1); G.lite(G992.2)), G.hs (G994.1), G.dmt.bis (G.992.3), G.dmt.bisplus (G.992.5)). The Annex A and B are supported in different H/W platforms.

Multi-Protocol to Establish A Connection: Supports PPPoA (RFC 2364 - PPP over ATM Adaptation Layer 5), RFC 1483 encapsulation over ATM (bridged or routed), PPP over Ethernet (RFC 2516) and IPoA (RFC1577) to establish a connection with the ISP. The product also supports VC-based and LLC-based multiplexing.

Fast Ethernet Switch: A 10/100Mbps fast Ethernet switch is built in with automatic switching between MDI and MDI-X for 10Base-T and 100Base-TX ports. An Ethernet straight or cross-over cable can be used directly for auto detection.



Network Address Translation (NAT): Allows multi-users to access outside resources such as the Internet simultaneously with one IP address/one Internet access account. Many application layer gateway (ALG) are supported such as web browser, ICQ, FTP, Telnet, E-mail, News, Net2phone, Ping, NetMeeting, IP phone and others.

Frewall: Supports simple firewall with NAT technology and provides option for blocking access from Internet, like Telnet, FTP, TFTP, WEB, SNMP and IGMP.

Domain Name System (DNS) relay: Provides an easy way to map the domain name (a friendly name for users such as www.yahoo.com) and IP address. When a local machine sets its DNS server with this router's IP address, every DNS conversion request packet from the PC to this router will be forwarded to the real DNS in the outside network.

PPP over Ethernet (PPPoE): Provides embedded PPPoE client function to establish a connection. Users can get greater access speed without changing the operation concept, sharing the same ISP account and paying for one access account. No PPPoE client software is required for local computer. The Automatic Reconnect and Disconnect Timeout (Idle Timer) functions are provided, too.

Dynamic Host Control Protocol (DHCP) client and server: In the WAN site, the DHCP client can get an IP address from the Internet Service Provider (ISP) automatically. In the LAN site, the DHCP server can allocate a range of client IP addresses and distribute them including IP address, subnet mask as well as DNS IP address to local computers. It provides an easy way to manage the local IP network.

RIP1/2 Routing: Supports RIP1/2 routing protocol for routing capability.

Web based GUI: Supports web based GUI for configuration and management. It is user-friendly and comes with on-line help. It also supports remote management capability for remote users to configure and manage this product.

Quick Installation Wizard: Supports a WEB GUI page to install this device quickly. With this wizard, end users can enter the information easily which they get from their ISP, then surf the Internet immediately.

Packet Filtering: Up to 72 rules.

Universal Plug and Play (UPnP) e UPnP NAT Traversal: This protocol is used to enable simple and robust connectivity among stand-alone devices and PCs from many different vendors. It makes network simple and affordable for users. UPnP architecture leverages TCP/IP and the Web to enable seamless proximity networking in addition to control and data transfer among networked devices. With this feature enabled, users can now connect to Net meeting or MSN Messenger seamlessly.



Virtual Server: User can specify some services to be visible from outside users. The router can detect incoming service request and forward it to the specific local computer to handle it. For example, user can assign a PC in LAN acting as WEB server inside and expose it to the outside network. Outside user can browse inside web server directly while it is protected by NAT. A DMZ host setting is also provided to a local computer exposed to the outside network, Internet.

1.4 WebShare 111/141 Router ADSL2+ Application

Follow the followings steps to cabling the device:

- Connect WAN Port to the telephone line throught RJ-11 cable (contained in package).
- WebShare Router ADSL2+ can be connect in the following configuration:
 - Directly at 1 PC[A02-RA111], throught CAT 5 cables (contained in package)
 - Directly at 4 PC[A02-RA141], throught CAT5 cables (one is contained in package)
 - To an Hub/Switch throught UPLINK Port thought CAT 5 cable (contained in package).
- Connect AC-DC Adapter on AC and on device (POWER jack) in the reat r of the product.

In the first picture is possibile to see a cabling example of LAN (Multi-Users Mode) with many PC's (using a HUB/Switch). In the second picture, more PCs are directly connect at WebShare 141 ADSL2+ Router.









CHAPTER 2: Using WebShare 111/141 ADSL2+ Router

2.1 Cautions for using the WebShare Router ADSL2+

- Do not place the Wireless Router ADSL2+ under high humidity and high temperature.
- Do not use the same power source for Wireless Router ADSL2+ with other equipment.
- Do not open or repair the case yourself.
- If the Wireless Router ADSL2+ is too hot, turn off the power immediately and have a qualified serviceman repair it.
- Place the Wireless Router ADSL2+ on a stable surface.
- Only use the power adapter that comes with the package.
- Do NOT upgrade firmware on any Atlantis Land product over a wireless connection.

2.2 The Front LEDs

In the front of WebShare 111/141 ADSL2+ Router, you can see a LED series that show status of some functionality of product.



Following table contains meaning of front LEDs:

LED	Meaning
PWR	Lit when power is ON.
SYS	Lit when the system is ready.
LAN	Lit when connected to an Ethernet device. Green for 100Mbps; Orange for 10Mbps. Blinking when data is Transmitted / Received.
ADSL	Lit when successfully connected to an ADSL DSLAM ("linesync").
PPP	Lit steady when there is a PPPoA / PPPoE connection.





Ports	Meaning
ADSL	Connect the supplied RJ-11 ("telephone") cable to this port when connecting to the ADSL/telephone network.
LAN	Connect a UTP Ethernet cable (Cat-5 or Cat-5e) to one of the four LAN ports when connecting to a PC or an office/home network of 10Mbps or 100Mbps. There are 4 FE ports on WebShare 141 or 1 FE port on WebShare 111.
Reset	 After the device is powered on, press it to reset the device or restore to factory default settings. 0-3 seconds: reset the device 3-5 seconds: no action Over 10 seconds: restore to factory default settings (this is used when you can not login to the router, e.g. forgot the password).
POWER (jack)	Connect the supplied power adapter to this jack.

2.4 Cabling

The most common problem is bad cabling or ADSL line. Make sure that all connected devices are turned on. On the front of the product is a bank of LEDs. As a first check, verify that the LAN Link, ADSL, PWR, SYS LEDs are lit. If they are not, verify that you are using the proper cables.



Ensure that all other devices connected to the same telephone line as your router (e.g. telephones, fax machines, analog modems) have a line filter (A01-AF2) connected between them and the wall socket (unless you are using a Central Splitter or Central Filter installed by a qualified and licensed electrician), and ensure that all line filters are correctly installed and the right way around.



Application Scheme Phone Line



CHAPTER 3: Configuration

WebShare 111/141 Router ADSL2+ can be configured with your web browser. A web browser is included as a standard application in the following operating systems: Windows 98/NT/2000/XP/Me, MAC, Linux, etc. The product provides a very easy and user-friendly interface for configuration.

3.1 Before Configuration

PCs must have an Ethernet interface installed properly and be connected to the router either directly or through an external repeater hub, and have TCP/IP installed and configured to obtain an IP address through a DHCP server or a fixed IP address that must be in the same subnet as the router. The default IP address of the router is **192.168.1.254** and the subnet mask is **255.255.255.0** (i.e. any attached PC must be in the same subnet, and have an IP address in the range of 192.168.1.1 to 192.168.1.253). The best and easiest way is to configure the PC to get an IP address automatically from the router using DHCP. If you encounter any problems accessing the router's web interface it may also be advisable to **uninstall** any kind of software firewall on your PCs, as they can cause problems accessing the 192.168.1.254 IP address of the router. Users should make their own decisions on how to best protect their network.

Please follow the steps below for your PC's network environment installation. First of all, please check your PC's network components. The TCP/IP protocol stack and Ethernet network adapter must be installed. If not, please refer to your Windows-related or other operating system manuals.



Any TCP/IP capable workstation can be used to communicate with or through the WebShare 111/141 ADSL2+ Router. To configure other types of workstations, please consult the manufacturer's documentation.



3.1.1 Configuring PC for Windows 95/98/ME

- 1. Go to Start / Settings / Control Panel. In the Control Panel, double-click on Network and choose the Configuration tab.
 - 1. Select **TCP / IP -> NE2000 Compatible**, or the name of any Network Interface Card (NIC) in your PC.
 - 2. Click Properties.

Network
Configuration Identification Access Control
The following network components are installed: NE2000 Compatible NetBEUI -> Dial-Up Adapter CP/IP -> Dial-Up Adapter TCP/IP -> NE2000 Compatible File and printer sharing for Microsoft Networks
Add Remove Properties
Primary Network Logon:
Client for Microsoft Networks
Eile and Print Sharing
Description TCP/IP is the protocol you use to connect to the Internet and wide-area networks.
OK Cancel

- 3. Select the **IP Address tab**. In this page, click the **Obtain an IP** address automatically radio button.
- 2. Then select the DNS Configuration tab.
- **3.** Select the **Disable DNS** radio button and click "**OK**" to finish the configuration.



T	CP/IP Properties
	Bindings Advanced NetBIQS DNS Configuration Gateway WINS Configuration IP Address
	An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space below.
	Debtain an IP address automatically Specify an IP address:
	Specily an IF address.
	JP Address:
	S <u>u</u> bnet Mask:
	OK Cancel

TCP/IP Properties	? ×
Bindings Advanced NetBIOS	
© Disable DNS © Enable DNS	
Host: Domain: Domain:	
Add	
<u>R</u> emove	
Domain Suffix Search Order	-
Remove	
	ncel



3.1.2 Configuring PC for Windows NT4.0

1. Go to Start / Settings / Control Panel. In the Control Panel, double-click on Network and choose the Protocols tab.

Network ? ×	2. Select TCP/IP Protocol and click Properties.
Identification Services Protocols Adapters Bindings	
Network Protocols:	
NetBEUI Protocol NWLink IPX/SPX Compatible Transport NWLink NetBIOS TCP/IP Protocol	
Add <u>Bernove</u> <u>Properties</u> <u>Update</u> Description: Transport Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across	
diverse interconnected networks.	
	Microsoft TCP/IP Properties
	IP Address DNS WINS Address Routing
OK Cancel	An IP address can be automatically assigned to this network card by a DHCP server. If your network does not have a DHCP server, ask your network administrator for an address, and then type it in the space below.
	Adapter:
 Select the Obtain an IP address from a DHCP server radio button and click "OK". 	Ivour network adapter) Dbtain an IP address from a DHCP server Specify an IP address IP Address: Subnet Mask: Default Gateway:
	OK Cancel Apply





3.1.3 Configuring PC for Windows 2000

- 1. Go to Start / Settings / Control Panel. In the Control Panel, double-click on Network and Dial-up Connections.
- 2. Double-click LAN Area Connection.



3. In the LAN Area Connection Status window, click Properties.





4. Select Internet Protocol (TCP/IP) and click Properties

Local Area Connection 2 Properties
General Sharing
Connect using:
Realtek RTL8139(A) PCI Fast Ethernet Adapter
Configure
Components checked are used by this connection:
W Ink IPX/SPX/NetBIOS Compatible Transport Proto A VetBEUI Protocol
Internet Protocol (TCP/IP)
Install Uninstall Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Sho <u>w</u> icon in taskbar when connected
OK Cancel

- 5. Select the Obtain an IP address automatically and the Obtain DNS server address automatically radio buttons.
- 6. Click "OK" to finish the configuration.



ou can get IP settings assigned is capability. Otherwise, you ne appropriate IP settings.	eed to ask				
 O Use the following IP address 					
[P address:	Г			53	-
Sybnet mask:	Г	÷	4.	- 63	-
Default gateway:	Г	4	Ŧ	- 21	-
Obtain DNS server addres Use the following DNS ser Preferred DNS server: <u>Alternate DNS server</u> :			+). 1)		
				Ady	anced

3.1.4 Configuring PC for Windows XP

- 1. Go to Start / Control Panel (in Classic View). In the Control Panel, doubleclick on Network Connections.
- 2. Double-click Local Area Connection





- 3. In the LAN Area Connection Status window, click Properties.
- 4. Select Internet Protocol (TCP/IP) and click Properties.

🕹 Local Area Cor	nection Status	? 🔀
General Support		
Connection		
Status:		Connected
Duration:		00:05:34
Speed:		100.0 Mbps
Activity	Sent — 🛐	- Received
Bytes:	1,403	1,749
Properties	Disable	
		Close

- 5. Select the Obtain an IP address automatically and the Obtain DNS server address automatically radio buttons.
- 6. Click "OK" to finish the configuration.



Internet Protocol (TCP/IP) Prope	erties 🛛 🛛 🔀			
General Alternate Configuration				
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.				
Obtain an IP address automatica	lly			
OUse the following IP address: —				
IP address:				
Subnet mask:				
Default gateway:				
Obtain DNS server address auto	matically			
-OUse the following DNS server ad	dresses:			
Preferred DNS server:				
Alternate DNS server:	· · ·			
	Advanced			
	OK Cancel			

3.1.5 Configuring for MAC

	TCP/IP (Setup Eth	ernet))	8
Consect via:	Ethernet	•		
Configure	Using DHCP Server	•		
DHCP CIENT ID :				
IP Address	 vill be supplied by server 	>		
Gubriet maaik:	 will be supplied by server 	3		
Roufer eddress:	 will be supplied by server 	,		
Name server addr.:	< will be supplied by merver	•	Search domains :	
0				

WebShare 111/141

- Click on Apple Menu and select Control Panel/TCP/IP. It will appear the follow screen.
- 2. Select Ethernet on Connect Via.
- 3. Select Using DHCP Server on Configure.
- 4. Leave empty the field DHCP Client ID.



3.1.6 Verification of Configuration

To verify your correct configuration (after PC restart, necessary for Windows 98, 98Se, ME and instead enough obtain IP lease for XP, 2000), use ping command. From a DOS Window, type:

ping 192.168.1.254.

If It show you this message:

Pinging 192.168.1.254 with 32 bytes of data: Reply from 192.168.1.254: bytes=32 times<10ms TTL=64 Reply from 192.168.1.254: bytes=32 times<10ms TTL=64 Reply from 192.168.1.254: bytes=32 times<10ms TTL=64

It is possibile to continue to follow step. If it show you follow message:

Pinging 192.168.1.254 with 32 bytes of data: Request timed out. Request timed out. Request timed out.

Check that LAN LED is lit (change CAT cable if is not). Check PC IP Address typing **winipcfg** for (Win95,98,ME) or **ipconfig** (for Win2000,XP) and eventually re-install TCP/IP stack.

3.1.7 Browser Configuration

Now open IE, go to **Instruments** menu, select the **Connections** tab and select one of the following options:

- Never use remote connection
- Use remote connection if another network connection isn't available



	Protezione	rivacy	Contenuto	
Connessioni		Programmi		Avanzate
	tare una conne scegliere Impo:		(Imposta
Impostazioni con Tiscali Tiscali/SDN	nessioni remote	e VPN	<u>^</u> (Aggiungi
蔘 VerdePPPol	E		-	Rimuovi
Per configurare u		•	(Impostazioni
💿 Non utilizzare i	mai connessior	i remote		
🔘 Usa connessio	one remota se r	ion è dispon	ibile una	connessione di rete
🔘 Utilizza sempre	e la connession	e remota pre	edefinita	
Connessione predefinita; Ne	essuno		(Predefinita
Impostazioni rete				
	AN non vengon te. Per le impos	tazioni di	alle (Impostazioni LAN

3.2 Factory Default Setting

Before configuring your, you need to know the following default settings:

- Username: admin
- Password: atlantis
- IP Address (192.168.1.254)
- Subnet Mask (255.255.255.0)
- ISP Setting in WAN Side = PPPoA, VCMux, Routing, VPI=8, VCI=35
- DHCP Server enabled with IP pool from 192.168.1.100 to 192.168.1.199

3.2.1 Password

The default username and password are **admin** and **atlantis** respectively.



If you ever forget the password to log in, you may press the RESET button up to 6 seconds to restore the factory default settings.

WebShare 111/141



3.2.2 LAN and WAN Port Addresses

The parameters of LAN and WAN ports are pre-set in the factory. The default values are shown below.

Porta LAN	_	Porta WAN
IP address	192.168.1.254	Mode=Routing
Subnet Mask	255.255.255.0	Encapsulation= PPPoA
DHCP server function	Enabled	Multiplex=VC
IP addresses for distribution to PCs	100 IP addresses continuing from 192.168.1.100 through 192.168.1.199	VPI= 8 VCI= 35

3.3 Reset of WebShare Router ADSL2+

If you forget the password, you can restore router with Default Factory Setting using "**Reset**" button in the rear of the product. To do this operation is necessary be sure that led SYS is lit, then press "**Reset**" button for 10 seconds. The LED SYS will turn off and it will blink; it will be lit when firmware with Factory Default Setting will be loaded. Now you can enter on WebShare Router ADSL2+ with password "**atlantis**".

3.4 Informations from the ISP

Before configuring this device, you have to check with your ISP (Internet Service Provider) what kind of service is provided such as PPPoE, PPPoA, RFC1483, or IPoA.

Gather the information as illustrated in the following table and keep it for reference.

PPPoE	VPI/VCI, VC-based/LLC-based multiplexing, Username, Password, Service Name, and Domain Name System (DNS) IP address (it can be automatically assigned by your ISP when you connect or be set manually).
PPPoA	VPI/VCI, VC-based/LLC-based multiplexing, Username, Password, and Domain Name System (DNS) IP address (it can be automatically assigned by your ISP when you connect or be set manually).
RFC1483 Bridged	VPI/VCI, VC-based/LLC-based multiplexing to use Bridged Mode.
RFC1483 Routed	VPI/VCI, VC-based/LLC-based multiplexing, IP address, Subnet mask, Gateway address, and Domain Name System (DNS) IP address (it is fixed IP address).



3.5 Browser Configuration

Open your web browser, enter the IP address of your router, which by default is **192.168.1.254**, and click "**Go**".



You will get a status report web page when login successfully.

3.6 Surfing in Web GUI Configuration

This section descrive how to surf on Site Map configuration Interface.

- Quick Start (Run Wizard)
- Interface Setup(Internet, LAN)
- Advanced Setup(Routing, NAT, ADSL)
- Access Management(ACL, IP Filter, SNMP, UPnP, DDNS)
- **Maintenance**(Administration, Time Zone, Firmware, SysRestart, Diagnostics)
- Status(Device Info, System Log, Statistics)
- Help

Click on the desired item to expand the page with all settings in the main navigation panel.

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WebShare 111/141

Status	Quick Start	Interface Setup	Advanced Setup	Acces Managen	1.1	Maintenance	Status	Help
	Device	Info Syst	em Log	Statistics				
Device Information								
		Firmware Version	: 2.7.0.11(UE0.E	31C)3.3.2.5				
	1.	MAC Address	: 00:04:ed:35:ee	:99				
LAN		876 F 87 F 87 F 87						
			: 192.168.1.254					
			: 255.255.255.0					
		DHCP Server	Enabled					
WAN								
		Virtual Circuit	: PVC0 💙					
		Status	: Not Connected	1				
		Connection Type	: PPPoA					
		IP Address	: 0.0. <mark>0</mark> .0					
		Subnet Mask	:: 0.0.0.0					
		Default Gateway	': 0.0.0.0					
	44	DNS Server	: 0.0.0.0					
ADSL	e							
	A	SL Firmware Ver	; FwVer:3.3.2.5	_A_TC3084 Hw	/Ver:T14.	F7_0.0		
		Line State	: Down				6	14
		Modulation	: Multi-Mode					
		Annex Mode	: ANNEX_A					
			Downstream	u Upstream				
		SNR Margin		N/A	db			
		Line Attenuation Data Rate		N/A 0	db kbps			

3.7 Configuring Password

It is highly recommended that you change the password for accessing the ADSL Router. To change the ADSL Router' password, click **Maintenance** and then **Administration**. The screen appears as shown.

				WebSI	hare 11	1/141
	æ				We	ebShare 111
Maintenance	Quick Interfact Start Setup		Access Management	Maintenance	Status	Help
	Administration	Time Zone Fim	nware Sys	sRestart Diag	nostics	
Administrator						
	Usern New Passy	ame : admin				
	Confirm Passv					
		SAVE	EL			

The following table describes the labels in this screen.

Label	Description
New Password	Type the new password in this field.
Confirm Password	Type the new password again in this field.
Save	Click Apply to save your changes back to the ADSL Router.
Cancel	Click Cancel to begin configuring this screen afresh.

3.8 Resetting the ADSL Router

If you forget your password or cannot access the WebShare Router ADSL2+, you will need to reload the factory-default configuration file or use the RESET button the back of the ADSL Router. Uploading this configuration file replaces the current configuration file with the factory-default configuration file.

3.8.1 Using The Reset Button

Step 1. Make sure the SYS LED is on (not blinking).

Step 2. Press the RESET button for 10 (or more) seconds, and then release it. When the SYS LED begins to blink, the defaults have been restored and the ADSL Router restarts.



CHAPTER 4: Quick Start

This chapter provides information on the Wizard Setup screens in the web configurator.

4.1 Wizard Setup Introduction

Use the Wizard Setup screens to configure your system for Internet access settings and fill in the fields with the information in the Internet Account Information table of the Compact Guide or Read Me First. Your ISP may have already configured some of the fields in the wizard screens for you.

4.2 Encapsulation

Be sure to use the encapsulation method required by your ISP. The ADSL Router supports the following methods.

4.2.1 PPP over Ethernet

PPPoE provides access control and billing functionality in a manner similar to dial-up services using PPP. The ADSL Router bridges a PPP session over Ethernet (PPP over Ethernet, RFC 2516) from your computer to an ATM PVC (Permanent Virtual Circuit) which connects to ADSL Access Concentrator where the PPP session terminates. One PVC can support any number of PPP sessions from your LAN. For more information on PPPoE, see the appendix.

4.2.2 **PPPoA**

PPPoA stands for Point to Point Protocol over ATM Adaptation Layer 5 (AAL5). It provides access control and billing functionality in a manner similar to dial-up services using PPP. The ADSL Router encapsulates the PPP session based on RFC1483 and sends it through an ATM PVC (Permanent Virtual Circuit) to the Internet Service Provider's (ISP) DSLAM (digital access multiplexer). Please refer to RFC 2364 for more information on PPPoA. Refer to RFC 1661 for more information on PPP.

4.2.3 RFC 1483

RFC 1483 describes two methods for Multiprotocol Encapsulation over ATM Adaptation Layer 5 (AAL5). The first method allows multiplexing of multiple protocols over a single ATM virtual circuit (LLC-based multiplexing) and the second method assumes that each protocol is carried over a separate ATM virtual circuit (VC-based multiplexing). Please refer to the RFC for more detailed information.



There are two conventions to identify what protocols the virtual circuit (VC) is carrying. Be sure to use the multiplexing method required by your ISP.

4.3.1 VC-based Multiplexing

In this case, by prior mutual agreement, each protocol is assigned to a specific virtual circuit; for example, VC1 carries IP, etc. VC-based multiplexing may be dominant in environments where dynamic creation of large numbers of ATM VCs is fast and economical.

4.3.2 LLC-based Multiplexing

In this case one VC carries multiple protocols with protocol identifying information being contained in each packet header. Despite the extra bandwidth and processing overhead, this method may be advantageous if it is not practical to have a separate VC for each carried protocol, for example, if charging heavily depends on the number of simultaneous VCs.

4.4 VPI and VCI

Be sure to use the correct Virtual Path Identifier (VPI) and Virtual Channel Identifier (VCI) numbers assigned to you. The valid range for the VPI is 0 to 255 and for the VCI is 32 to 65535 (0 to 31 is reserved for local management of ATM traffic). Please see the appendix for more information.

4.5 Quick Start

Following next steps you can make operating WebShare Router ADSL2+ in short time using PCs in DHCP mode. Refer to manual on Installation CD if you need personalized configuration.

Click on **Quick Start** then **Run Wizard** to perform an automatic protocol selection.

The following screen will appear. Please click **Next** to continue.



Quick Start

NTIS

The Wizard will guide you through these four quick steps. Begin by clicking on NEXT.

Step 1. Set your new password

Step 2. Choose your time zone

Step 3. Set your Internet connection

Step 4. Re-start your ADSL router



You can change the password as you like and then click **Next** to continue. Select your time zone from the drop down list. Please click **Next** to continue. Select how the router will set up the Internet connection: **PPPoE/PPPoA:** to obtain IP automatically (You need username and password).

Static IP address: this configuration is valid in case of a subscription with a static IP.



PPPoE/PPPoA

PPPoE (PPP over Ethernet) is an ADSL connection known as dial-up DSL. As the PPPoA it has been created to integrate large band services paying a particular attention to an easy configuration. The user can obtain an high access speed and he can also share the same account with the ISP. No additional software are required. This configuration is valid in case of a subscription with a


static P and active NAT (SUA) (for the managing of the public class turn to the CD handbook). Let's see how to configure correctly this kind of ADSL configuration.

Insert **Username** and **Password** and make sure that the parameters are, in case of **PPPoA**, the ones in the picture, if not specifically shown by the ISP.

uick Stars- PPPoE/PPP	PoA		
Enter the PPPoE/PPPoA informa	ation pro	vided to you by your I	SP. Click NEXT to continue.
Username:	userna	me	
Password:	•••••	•••	
VPI:	8	(0~255)	
VCI:	35	(1~65535)	
Connection Type:	PPPoA	VC-Mux 💙	
			BACK NEXT EXIT

In case of **PPPoE** choose **Connection Type=PPPoE LLC**. Click on **Next**.



You have to pay particular attention to the WAN-ADSL connection. If you have any doubt turn to qualified personnel or contact Atlantis-Land technical assistance. Atlantis Land will not be considered responsible in case of wrong or bad configuration.

STATIC IP ADDRESS

This configuration is valid in case of a subscription with a static IP and active NAT SUA (for the managing of the public class turn to the CD Manual). Make sure that the parameters are, in case of **RFC1483**, the ones in the picture, if not specifically shown by the ISP.

Insert then the public static IP address given by the ISP and choose **Connection Type=1483 Routed IP LLC(IPoA)**. Make sure that the parameters are, the ones in the picture, if not specifically shown by the ISP.

					We	ebSl	hare	111	/14
Quick Start - Static IP Add	dress								
Enter the static IP information p	rovided to vo	au by your IS	NEXT IN ANY	110					
	rorided to yo	ou by your is	NEXI to contin	uc.					
VPI:		(0~255)	NEXI to contin	uc.					
	8		NEXI to contin						
VPI:	8	(0~255)	(NEX) to contin						
VPI: VCI:	8 35 0.0.0.0	(0~255)	NEXT to Contin						
VPI: VCI: IP Address:	8 35 0.0.0.0 0.0.0.0	(0~255)	NEXT to Contin						

Click on Next.

4.6 Wizard Setup Configuration: Connection Tests

Launch your web browser and navigate to www.atlantis-land.com Internet access is just the beginning. Refer to the rest of this User's Guide for more detailed information on the complete range of ADSL Router features. If you cannot access the Internet, open the web configurator again to confirm that the Internet settings you configured in the Wizard Setup are correct.

The Webshare Router ADSL2+ automatically tests the connection to the computer(s) connected to the LAN ports. To test the connection from the ADSL Router to the ISP, click **Maintenance** then **Diagnose**.



CHAPTER 5: LAN Setup

This chapter describes how to configure LAN settings.

5.1 LAN Overview

A Local Area Network (LAN) is a shared communication system to which many computers are attached. A LAN is a computer network limited to the immediate area, usually the same building or floor of a building.

The LAN screens can help you configure a LAN DHCP server and manage IP addresses.

5.1.1 LANs, WANs and the ADSL Router

The actual physical connection determines whether the ADSL Router ports are LAN or WAN ports. There are two separate IP networks, one inside, the LAN network; the other outside: the WAN network as shown next:





5.2 DNS Server Address

DNS (Domain Name System) is for mapping a domain name to its corresponding IP address and vice versa, for example, the IP address of www.atlantis-land.com is 204.217.0.2. The DNS server is extremely important because without it, you must know the IP address of a machine before you can access it. The DNS server addresses that you enter in the DHCP setup are passed to the client machines along with the assigned IP address and subnet mask.

There are two ways that an ISP disseminates the DNS server addresses. The first is for an ISP to tell a customer the DNS server addresses, usually in the form of an information sheet, when s/he signs up. If your ISP gives you the DNS server addresses, enter them in the DNS Server fields in DHCP Setup, otherwise, leave them blank.

Some ISP's choose to pass the DNS servers using the DNS server extensions of PPP IPCP (IP Control Protocol) after the connection is up. If your ISP did not give you explicit DNS servers, chances are the DNS servers are conveyed through IPCP negotiation. The ADSL Router supports the IPCP DNS server extensions through the DNS proxy feature.

If the Primary and Secondary DNS Server fields in DHCP Setup are not specified, for instance, left as 0.0.0.0, the ADSL Router tells the DHCP clients that it itself is the DNS server. When a computer sends a DNS query to the ADSL Router, the ADSL Router forwards the query to the real DNS server learned through IPCP and relays the response back to the computer.

Please note that DNS proxy works only when the ISP uses the IPCP DNS server extensions. It does not mean you can leave the DNS servers out of the DHCP setup under all circumstances. If your ISP gives you explicit DNS servers, make sure that you enter their IP addresses in the DHCP Setup menu. This way, the ADSL Router can pass the DNS servers to the computers and the computers can query the DNS server directly without the ADSL Router's intervention.

5.3 DNS Server Address Assignment

Use DNS (Domain Name System) to map a domain name to its corresponding IP address and vice versa. The DNS server is extremely important because without it, you must know the IP address of a computer before you can access it.

There are two ways that an ISP disseminates the DNS server addresses.

1. The ISP tells you the DNS server addresses, usually in the form of an information sheet, when you sign up. If your ISP gives you DNS server addresses, enter them in the DNS Server fields in DHCP Setup.

2. Leave the DNS Server fields in DHCP Setup blank (for example 0.0.0.0). The ADSL Router acts as a DNS proxy when this field is blank.

5.4 LAN TCP/IP

The ADSL Router has built-in DHCP server capability that assigns IP addresses and DNS servers to systems that support DHCP client capability.



5.4.1 Factory LAN Defaults

The LAN parameters of the ADSL Router are preset in the factory with the following values:

IP address of 192.168.1.254 with subnet mask of 255.255.255.0 (24 bits)

DHCP server enabled with 100 client IP addresses starting from 192.168.1.100. These parameters should work for the majority of installations. If your ISP gives you explicit DNS server address(es), read the embedded web configurator help regarding what fields need to be configured.

5.4.2 IP Address and Subnet Mask

Refer to the IP Address and Subnet Mask section in the Wizard Setup chapter for this information.

5.4.3 RIP Setup

RIP (Routing Information Protocol) allows a router to exchange routing information with other routers. The RIP **Direction** field controls the sending and receiving of RIP packets. When set to:

1. **Both** - the ADSL Router will broadcast its routing table periodically and incorporate the RIP information that it receives.

2. In Only - the ADSL Router will not send any RIP packets but will accept all RIP packets received.

3. **Out Only** - the ADSL Router will send out RIP packets but will not accept any RIP packets received.

4. **None** - the ADSL Router will not send any RIP packets and will ignore any RIP packets received.

The **Dynamic Route** field controls the format and the broadcasting method of the RIP packets that the ADSL Router sends (it recognizes both formats when receiving). RIP-1 is universally supported; but RIP-2 carries more information. RIP-1 is probably adequate for most networks, unless you have an unusual network topology.

Both RIP-2B and RIP-2M sends the routing data in RIP-2 format; the difference being that RIP-2B uses subnet broadcasting while RIP-2M uses multicasting.

5.4.4 Multicast

Traditionally, IP packets are transmitted in one of either two ways - Unicast (1 sender - 1 recipient) or Broadcast (1 sender - everybody on the network). Multicast delivers IP packets to a group of hosts on the network - not everybody and not just 1.

IGMP (Internet Group Multicast Protocol) is a network-layer protocol used to establish membership in a Multicast group - it is not used to carry user data. IGMP version 2 (RFC 2236) is an improvement over version 1 (RFC 1112) but



IGMP version 1 is still in wide use. If you would like to read more detailed information about interoperability between IGMP version 2 and version 1, please see sections 4 and 5 of RFC 2236. The class D IP address is used to identify host groups and can be in the range 224.0.0.0 to 239.255.255.255. The address 224.0.0.0 is not assigned to any group and is used by IP multicast computers. The address 224.0.0.1 is used for query messages and is assigned to the permanent group of all IP hosts (including gateways). All hosts must join the 224.0.0.1 group in order to participate in IGMP. The address 224.0.0.2 is assigned to the multicast routers group.

The ADSL Router supports both IGMP version 1 (IGMP-v1) and IGMP version 2 (IGMP-v2). At start up, the ADSL Router queries all directly connected networks to gather group membership. After that, the ADSL Router periodically updates this information. IP multicasting can be enabled/disabled on the ADSL Router LAN and/or WAN interfaces in the web configurator (LAN; WAN). Select None to disable IP multicasting on these interfaces.



5.5 Configuring LAN

Click "Interface Setup" then "LAN" to open the following screen.

	Quick Start	Interface Setup	Advanced Setup	Access Management	Maintenance	Status	ebShare 111 Help
Interface	Internet			management			
Router Local IP							
		IP Address	: 192.168.1.254	+ 			
		IP Subnet Mask	: 255.255.255.0	P			
		Dynamic Route	: RIP1 🔽 D	irection None 🛛 👻]		
		Multicast	: Disabled 💙				
DHCP							
		DHCP	: O Disabled	Enabled O Relay	1		
DHCP Server			-				
	St	tarting IP Address	: 192.168.1.100				
		IP Pool Count	: 100				
		Lease Time	: 86400 se	econds (0 sets to det	ault value of 259200)		
DNS					1		
			Sector	covered DNS Server O	nly 📉		
	Pri	imary DNS Server	N/A				
	Secon	dary DNS Server	: N/A				

The following table describes the labels in this screen.

Router Local IP

IP Address	Enter the IP address of the ADSL Router in dotted decimal notation, for example, 192.168.1.254 (factory default).
IP Subnet Mask	Type the subnet mask assigned to you by your ISP (if given).
RIP Direction	Select the RIP direction from None, Both, In Only and Out Only.
RIP Version	Select the RIP version from RIP-1, RIP-2B and RIP-2M.
Multicast	IGMP (Internet Group Multicast Protocol) is a session-layer protocol used to establish membership in a multicast group. The ADSL Router supports both IGMP version 1 (IGMP-v1) and IGMP-v2. Select None to disable it.
Save	Click this button to save these settings back to the ADSL Router.
Cancel	Click this button to reset the fields in this screen.



DHCP

Label	Description
DHCP	If set to Enabled , the ADSL Router can assign IP addresses, an IP default gateway and DNS servers to Windows 95, Windows NT and other systems that support the DHCP client. If set to Disabled , the DHCP server will be disabled. If set to Relay , the ADSL Router acts as a surrogate DHCP server and relays DHCP requests and responses between the remote server and the clients. Enter the IP address of the actual, remote DHCP server in the Remote DHCP Server field in this case. When DHCP is used, the following items need to be set:
Starting IP Address	This field specifies the first of the contiguous addresses in the IP address pool.
IP Pool count	This field specifies the size or count of the IP address pool.
Lease Time	This field specifies the length of time for the IP lease.
DNS Relay	If user want to disable this feature, he just need to set both Primary and secondary DNS IP to 0.0.0.0. Using DNS relay, users can setup DNS server IP to 192.168.1.1 on their Computer. If not, device will perform as no DNS relay.
Primary DNS Server	Enter the IP addresses of the DNS servers. The DNS servers are passed to the DHCP clients along with the IP address and the subnet mask.
Secondary DNS Server	As above.
Save	Click this button to save these settings back to the ADSL Router.
Cancel	Click this button to reset the fields in this screen.

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CHAPTER 6: WAN Setup

This chapter describes how to configure WAN settings.

6.1 WAN Overview

A WAN (Wide Area Network) is an outside connection to another network or the Internet.

See the Wizard Setup chapter for more information on the fields in the WAN screens.

6.2 PPPoE Encapsulation

The ADSL Router supports PPPoE (Point-to-Point Protocol over Ethernet). PPPoE is an IETF Draft standard (RFC 2516) specifying how a personal computer (PC) interacts with a broadband modem (DSL, cable, wireless, etc.) connection. The PPPoE option is for a dial-up connection using PPPoE.

For the service provider, PPPoE offers an access and authentication method that works with existing access control systems (for example Radius). PPPoE provides a login and authentication method that the existing Microsoft Dial-Up Networking software can activate, and therefore requires no new learning or procedures for Windows users.

One of the benefits of PPPoE is the ability to let you access one of multiple network services, a function known as dynamic service selection. This enables the service provider to easily create and offer new IP services for individuals.

Operationally, PPPoE saves significant effort for both you and the ISP or carrier, as it requires no specific configuration of the broadband modem at the customer site.

By implementing PPPoE directly on the ADSL Router (rather than individual computers), the computers on the LAN do not need PPPoE software installed, since the ADSL Router does that part of the task. Furthermore, with NAT, all of the LANs' computers will have access.

6.3 PPTP Encapsulation

Point-to-Point Tunneling Protocol (PPTP) is a network protocol that enables secure transfer of data from a remote client to a private server, creating a Virtual Private Network (VPN) using TCP/IP-based networks.

PPTP supports on-demand, multi-protocol and virtual private networking over public networks, such as the Internet.

6.4 Traffic Shaping

Traffic Shaping is an agreement between the carrier and the subscriber to regulate the average rate and "burstiness" or fluctuation of data transmission over



an ATM network. This agreement helps eliminate congestion, which is important for transmission of real time data such as audio and video connections.

Peak Cell Rate (PCR) is the maximum rate at which the sender can send cells. This parameter may be lower (but not higher) than the maximum line speed. 1 ATM cell is 53 bytes (424 bits), so a maximum speed of 832 Kbps gives a maximum PCR of 1962 cells/sec. This rate is not guaranteed because it is dependent on the line speed.

Sustained Cell Rate (SCR) is the mean cell rate of a bursty, on-off traffic source that can be sent at the peak rate, and a parameter for burst-type traffic. SCR may not be greater than the PCR; the system default is 0 cells/sec.

Maximum Burst Size (MBS) is the maximum number of cells that can be sent at the PCR. After MBS is reached, cell rates fall below SCR until cell rate averages to the SCR again. At this time, more cells (up to the MBS) can be sent at the PCR again. The following figure illustrates the relationship between PCR, SCR and MBS.





6.5 Configuring WAN Setup

To change the ADSL Router's WAN remote node settings, click **Interface Setup** then **Internet**. The screen differs by the encapsulation.

AND						WebS
Interface	Quick Start	Interface Setup	Advanced Setup	Access Management	Maintenance	Status
	Internet	LAI	N			
ATM VC						
		Virtual Circuit		PVCs Summary		
		VPI		I 🔘 Deactivated ange: 0~255)		
				ange: 1~65535)		
QoS		ATM QoS	: UBR 💌			
		PCR	: 0 се	ells/second		
		SCR		ells/second		
Encapsulation	8	MBS	: 0	ells		
Encapsulation	95	ISP	: O Dynamic	IP Address		
			O Static IP A			
			PPPoE/PP			
			O Bridge Mo	ode	\mathbb{X}	
PPPoE/PPPoA			670			
		Username	: username			
		Passward				
Connection Setting		Encapsulation	: PPPoA VC-M	lux 💙		
		Conn	: 💿 Always (On (Recommended)		
			O Connect	On-Demand (Close if id)	e for 0 minute	es)
IP Address		TCP MSS Option	: TCP MSS(0 m	eans use default)	bytes	
			: O Static 🧕	Dynamic		
		Static IP Address				
		IP Subnet Mask				
			: 0.0.0.0 : Enable 🔽			
			· · · · · · · · · · · · · · · · · · ·	No		
		Dynamic Route	(The second sec	Direction None		
		Multicast	: Disabled V	1:2		



The following table describes the labels in this screen.

PARAMETRES	DESCRIPTION
ATM VC	
Virtual Circuit ID	VPI (Virtual Path Identifier) and VCI (Virtual Channel Identifier) define a virtual circuit.
Status	Activated or Deactivated
VPI	The valid range for the VPI is 0 to 255. Enter the VPI assigned to you. This field may already be configured.
VCI	The valid range for the VCI is 32 to 65535. Enter the VCI assigned to you. This field may already be configured.
ATM QoS Type	Select CBR (Continuous Bit Rate) to specify fixed (always-on) bandwidth for voice or data traffic. Select UBR (Unspecified Bit Rate) for applications that are non-time sensitive, such as e-mail. Select VBR (Variable Bit Rate) for bursty traffic and bandwidth sharing with other applications. VBR is not available on all models.
	Cell rate configuration often helps eliminate traffic congestion
Cell Rate	that slows transmission of real time data such as audio and video connections.
Peak Cell Rate	Divide the DSL line rate (bps) by 424 (the size of an ATM cell) to find the Peak Cell Rate (PCR). This is the maximum rate at which the sender can send cells. Type the PCR here.
Sustain Cell Rate	The Sustain Cell Rate (SCR) sets the average cell rate (long- term) that can be transmitted. Type the SCR, which must be less than the PCR.
Maximum Burst Size	Maximum Burst Size (MBS) refers to the maximum number of cells that can be sent at the peak rate. Type the MBS, which is less than 65535.

ENCAPSULATION

	Select the method of encapsulation used by your ISP from the
Encapsulation	drop-down list box.

PPPoA/PPPoE	
Service Name	(PPPoE only) Type the name of your PPPoE service here.
	Enter the user name exactly as your ISP assigned. If assigned a
User Name	name in the form user@domain where domain identifies a service name, then enter both components exactly as given.
Password	A static IP address is a fixed IP that your ISP gives you. A dynamic IP address is not fixed; the ISP assigns you a different one each time you connect to the Internet. The Single User Account feature can be used with either a dynamic or static IP address.



AND	vvebSnare 11/141
	Select Obtain an IP Address Automatically if you have a dynamic IP address; otherwise select Static IP Address and type your ISP assigned IP address in the IP Address field below.
Multiplex	Select the method of multiplexing used by your ISP from the drop-down list. Choices are VC or LLC.
Connection Sett	inas
	Select Always ON Connection when you want your connection
Always ON	up all the time. The ADSL Router will try to bring up the connection automatically if it is disconnected.
	Connect on demand is dependent on the traffic. If there is no
Connect on Demand	traffic (or Idle) for a pre-specified period of time), the connenct will tear down automatically. And once there is traffic send or receive, the connection will be automatically on. Please insert the Idle Time in minute.
IP Address	
Get IP Address	The IP address can be either dynamically (via DHCP) or given IP address provide by your ISP. For Static IP, you need to specify the IP address, Subnet Mask and Gateway IP address.
IP Address	You must specify a Router IP address.
IP Subnet Mask	Enter a subnet mask in dotted decimal notation. Refer to the Subnetting appendix in the to calculate a subnet mask If you are implementing subnetting.
Gateway	You must specify a gateway IP address.
NAT	Select this option to Activate/Deactivated the NAT (Network Address Translation) function for this VC. The NAT function can be activated or deactivated per PVC basis.
Default Route	if enable this function, the current PVC will be the default gateway to internet from this device.
Dynamic Route	RIP (Routing Information protocol) Select this option to specify the RIP version, including RIP-1 , RIP-2M and RIP-2B . RIP-2M and RIP-2B are both sent in RIP-2 format; the difference is that RIP-2M using Multicast and RIP-2 using Broadcast format.
Direction	RIP Direction Select this option to specify the RIP direction. None is for disabling the RIP function. Both means the ADSL Router will periodically send routing information and accetp routing information then incorporate into routing table. IN only means the ADLS router will only accept but will not send RIP packet. OUT olny means the ADLS router will only send but will not accept RIP packet.
Multicast	<i>IGMP</i> (Internet Group Multicast Protocol) is a session-layer protocol used to establish membership in a multicast group. The ADSL ATU-R supports both IGMP version 1 (<i>IGMP-v1</i>) and

	IGMP-v2. Select None to disable it.
Save	Click Apply to save the changes.





WebShare 111/141 CHAPTER 7: Network Address Translation (NAT)

This chapter discusses how to configure NAT on the WebShare Router ADSL2+.

7.1 NAT Overview

NAT (Network Address Translation - NAT, RFC 1631) is the translation of the IP address of a host in a packet, for example, the source address of an outgoing packet, used within one network to a different IP address known within another network.

7.1.1 NAT Definitions

Inside/outside denotes where a host is located relative to the ADSL Router, for example, the computers of your subscribers are the inside hosts, while the web servers on the Internet are the outside hosts.

Global/local denotes the IP address of a host in a packet as the packet traverses a router, for example, the local address refers to the IP address of a host when the packet is in the local network, while the global address refers to the IP address of the host when the same packet is traveling in the WAN side.

Note that inside/outside refers to the location of a host, while global/local refers to the IP address of a host used in a packet. Thus, an inside local address (ILA) is the IP address of an inside host in a packet when the packet is still in the local network, while an inside global address (IGA) is the IP address of the same inside host when the packet is on the WAN side. The following table summarizes this information.

ltem	Description
Inside	This refers to the host on the LAN.
Outside	This refers to the host on the WAN.
Local	This refers to the packet address (source or destination) as the packet travels on the LAN.
Global	This refers to the packet address (source or destination) as the packet travels on the WAN.

7.1.2 What NAT Does

In the simplest form, NAT changes the source IP address in a packet received from a subscriber (the inside local address) to another (the inside global address) before forwarding the packet to the WAN side. When the response comes back,



NAT translates the destination address (the inside global address) back to the inside local address before forwarding it to the original inside host. Note that the IP address (either local or global) of an outside host is never changed.

The global IP addresses for the inside hosts can be either static or dynamically assigned by the ISP. In addition, you can designate servers, for example, a web server and a telnet server, on your local network and make them accessible to the outside world. With no servers defined, the ADSL Router filters out all incoming inquiries, thus preventing intruders from probing your network. For more information on IP address translation, refer to RFC 1631, The IP Network Address Translator (NAT).

7.1.3 How NAT Works

Each packet has two addresses – a source address and a destination address. For outgoing packets, the ILA (Inside Local Address) is the source address on the LAN, and the IGA (Inside Global Address) is the source address on the WAN. For incoming packets, the ILA is the destination address on the LAN, and the IGA is the destination address on the WAN. NAT maps private (local) IP addresses to globally unique ones required for communication with hosts on other networks. It replaces the original IP source address (and TCP or UDP source port numbers for Many-to-One and Many-to-Many Overload NAT mapping) in each packet and then forwards it to the Internet. The ADSL Router keeps track of the original addresses and port numbers so incoming reply packets can have their original values restored. The following figure illustrates this.



7.1.4 NAT Application

The following figure illustrates a possible NAT application, where three inside LANs (logical LANs using IP Alias) behind the ADSL Router can communicate



with three distinct WAN networks. More examples follow at the end of this chapter.



7.1.5 NAT Mapping Types

NAT supports five types of IP/port mapping. They are:

1. **One to One:** In One-to-One mode, the ADSL Router maps one local IP address to one global IP address.

2. **Many to One:** In Many-to-One mode, the ADSL Router maps multiple local IP addresses to one global IP address.

3. **Many to Many Overload:** In Many-to-Many Overload mode, the ADSL Router maps the multiple local IP addresses to shared global IP addresses.

4. **Many-to-Many No Overload:** In Many-to-Many No Overload mode, the ADSL Router maps each local IP address to a unique global IP address.

5. **Server:** This type allows you to specify inside servers of different services behind the NAT to be accessible to the outside world.

The following table summarizes these types.

Туре	IP Mapping
One-to-One	ILA1 IGA1
Many-to-One (SUA/PAT)	ILA1 IGA1 ILA2 IGA1
Many-to-Many Overload	ILA1 IGA1 ILA2 IGA2 ILA3 IGA1



	ILA4 IGA2
Many-to-Many No Overload	ILA1 IGA1 ILA2 IGA2 ILA3 IGA3
Server	Server 1 IP IGA1 Server 2 IP IGA1 Server 3 IP IGA1

7.2 SUA (Single User Account) Versus NAT

SUA (Single User Account) is a implementation of a subset of NAT that supports two types of mapping, Many-to-One and Server. The ADSL Router also supports Full Feature NAT to map multiple global IP addresses to multiple private LAN IP addresses of clients or servers using mapping types as outlined in

7.3 Virtual Server and DMZ

A Virtual server set is a list of inside (behind NAT on the LAN) servers, for example, web or FTP, that you can make visible to the outside world even though SUA makes your whole inside network appear as a single computer to the outside world.

You may enter a single port number or a range of port numbers to be forwarded, and the local IP address of the desired server. The port number identifies a service; for example, web service is on port 80 and FTP on port 21. In some cases, such as for unknown services or where one server can support more than one service (for example both FTP and web service), it might be better to specify a range of port numbers. You can allocate a server IP address that corresponds to a port or a range of ports.

Many residential broadband ISP accounts do not allow you to run any server processes (such as a Web or FTP server) from your location. Your ISP may periodically check for servers and may suspend your account if it discovers any active services at your location. If you are unsure, refer to your ISP.

Default Server IP Address

In addition to the servers for specified services, NAT supports a default server IP address. A default server receives packets from ports that are not specified in this screen.

7.3.1 Port Forwarding: Services and Port Numbers

A NAT server set is a list of inside (behind NAT on the LAN) servers, for example, web or FTP, that you can make accessible to the outside world even though NAT makes your whole inside network appear as a single machine to the outside world.

Use the SUA Server page to forward incoming service requests to the server(s) A02-RA111 / A02-RA141 Pag. 46



on your local network. You may enter a single port number or a range of port numbers to be forwarded, and the local IP address of the desired server. The port number identifies a service; for example, web service is on port 80 and FTP on port 21. In some cases, such as for unknown services or where one server can support more than one service (for example both FTP and web service), it might be better to specify a range of port numbers.

In addition to the servers for specified services, NAT supports a default server. A service request that does not have a server explicitly designated for it is forwarded to the default server. If the default is not defined, the service request is simply discarded.

The most often used port numbers are shown in the following table. Please refer to RFC 1700 for further information about port numbers.

Services	Port Number/Protocol
File Transfer Protocol (FTP) Data	20/tcp
FTP Commands	21/tcp
Telnet	23/tcp
Simple Mail Transfer Protocol (SMTP)	25/tcp
Email	25/100
Domain Name Server (DNS)	53/tcp and 53/udp
Trivial File Transfer Protocol (TFTP)	69/udp
finger	79/tcp
World Wide Web (HTTP)	80/tcp
POP3 Email	110/tcp
SUN Remote Procedure Call (RPC)	111/udp
Network News Transfer Protocol (NNTP)	119/tcp
Network Time Protocol (NTP)	123/tcp and 123/udp
News	144/tcp
Simple Management Network Protocol (SNMP)	161/udp
SNMP (traps)	162/udp
Border Gateway Protocol (BGP)	179/tcp
Secure HTTP (HTTPS)	443/tcp
rlogin	513/tcp
rexec	514/tcp
talk	517/tcp and 517/udp
ntalk	518/tcp and 518/udp
Open Windows	2000/tcp and 2000/udp
Network File System (NFS)	2049/tcp
X11	6000/tcp and 6000/udp
Routing Information Protocol (RIP)	520/udp
Layer 2 Tunnelling Protocol (L2TP)	1701/udp



Click on Advanced Setup then NAT.

ATLANTIS"						W	lebShare 11
Advanced	Quick Start	Interface Setup	Advanced Setup	Access Management	Maintenance	Status	Help
	Routing	NAT	ADSL				
NAT		Virtual Circuit	PVC0 V				
		NAT Status					
		Number of IPs	: 💿 Single 🔘	Multiple			
		0					
				2			
		U	Virtual Server				
			SAVE				
ck on Virtual S	Server.						
/ A							
ATLANTIS"	8						
AND		Transition and the second	Hard Carlot - Structure Market			V	VebShare 1
120000000	Quick Start	Interface Setup	Advanced Setup	Access Management	Maintenance	Status	Help
Advanced		NAT	ADSL	Management			
	Routing	N/A1	ADOL				
Virtual Server							
	1	/irtual Server for	: Single IP Accou	int			
		Rule Index					
	S	Start Port Number	(1) (T)				
		Start Port Number End Port Number					
		End Port Number	: 0				
Virtual Server Listing			: 0				
Virtual Server Listing		End Port Number	: 0.0.0.0	End Port	Local IP Address	8	
Virtual Server Listing		End Port Number Local IP Address	: 0 : 0.0.0.0	End Port 0	Local IP Address		
Virtual Server Listing		End Port Number Local IP Address Rule 1 2	: 0 : 0.0.0 Start Port 0 0	0	0.0.0.0		
Virtual Server Listing		End Port Number Local IP Address Rule 1 2 3	: 0 : 0.0.0.0 Start Port 0 0 0	0 0 0	0.0.0.0		
Virtual Server Listing		End Port Number Local IP Address Rule 1 2 3 4	: 0 : 0.0.0.0 Start Port 0 0 0 0	0 0 0 0	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0		
Virtual Server Listing		End Port Number Local IP Address Rule 1 2 3 4 5	: 0 : 0.0.0.0 Start Port 0 0 0 0 0 0	0 0 0 0 0	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0		
Virtual Server Listing		End Port Number Local IP Address Rule 1 2 3 4 5 6	: 0 : 0.0.0.0 Start Port 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0		
Virtual Server Listing		End Port Number Local IP Address Rule 1 2 3 4 5	: 0 : 0.0.0.0 Start Port 0 0 0 0 0 0	0 0 0 0 0	0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0		



The following table describes the labels in this screen.

0	
Label	Description
Start Port No.	Enter a port number in this field.
	To forward only one port, enter the port number again in the End Port No. field.
	To forward a series of ports, enter the start port number here and the end port number in the End Port No. field.
End Port No.	Enter a port number in this field. To forward only one port, enter the port number again in the Start Port No. field above and then enter it again in this field. To forward a series of ports, enter the last port number in a series that begins with the port number in the Start Port No. field above.
IP Address	Enter your server IP address in this field.

Let's say you want to assign ports 22-25 to one server, port 80 to another and assign a default server IP address of 192.168.1.35 as shown in the next figure.





7.4 Selecting the NAT Mode

Click Advanced Setup then NAT to open the following screen chose Multiple (Numbers of IP).



SAVE DELETE BACK CANCEL

0.0.0.0

0.0.0.0

0.0.0.0

0.0.0.0

7

8

-

-



Ordering your rules is important because the ADSL Router applies the rules in the order that you specify. When a rule matches the current packet, the ADSL Router takes the corresponding action and the remaining rules are ignored. If there are any empty rules before your new configured rule, your configured rule will be pushed up by that number of empty rules. For example, if you have already configured rules 1 to 6 in your current set and now you configure rule number 9. In the set summary screen, the new rule will be rule 7, not 9. Now if you delete rule 4, rules 5 to 7 will be pushed up by 1 rule, so old rules 5, 6 and 7 become new rules 4, 5 and 6.

To change the ADSL Router's address mapping settings.

Label	Description
Rule Index	Chose the number
Rule Type	 1-1: One-to-one mode maps one local IP address to one global IP address. Note that port numbers do not change for the One-to-one NAT mapping type. M-1: Many-to-One mode maps multiple local IP addresses to one global IP address. M-M Ov (Overload): Many-to-Many Overload mode maps multiple local IP addresses to shared global IP addresses. MM No (No Overload): Many-to-Many No Overload mode maps each local IP address to unique global IP addresses. Server(available on next release of firmware): This type allows you to specify inside servers of different services behind the NAT to be accessible to the outside world.
Local Start IP	This is the starting Inside Local IP Address (ILA). Local IP addresses are N/A for Server port mapping.
Local End IP	This is the end Inside Local IP Address (ILA). If your rule is for all local IP addresses, then enter 0.0.0.0 as the Local Start IP address and 255.255.255.255 as the Local End IP address. This field is N/A for One-to-one and Server mapping types.
Public Start IP	This is the starting Inside Global IP Address (IGA). Enter 0.0.0.0 here if you have a dynamic IP address from your ISP. You can only do this for Many-to-One and Server mapping types.
Public End IP	This is the ending Inside Global IP Address (IGA). This field is N/A for One-to-one, Many-to-One and Server mapping types.

The following table describes the labels in this screen.





CHAPTER 8: Access Management

8.1 ACL

Access Control Listing allows you to determine which services/protocols can access which WEBSHARE ROUTER ADSL2+ interface from which computers. You can configure the router for remote Telnet access or upload and download router firmware and configuration files using FTP. To use this feature, your computer must have an FTP client. And can use the WEBSHARE ROUTER ADSL2+ embedded web configurator for configuration and file management.

Access	Quick	Interface	Advance		Maintenance		ebShare 11 Help
Management	Start ACL	Setup IP Filter	Setup SNN	Management IP UPnP	DDNS		
Access Control Setup		ACI	.: 💿 Activat	ed 🔘 Deactivated			
Access Control Editing		ACL Rule Index					
Associa Control Listing	s	ecure IP Address Application) No (0.0.0.0 means	all IPs)		
Access Control Listing		Index	Active	Secure IP Address	Application	Interface	
					ALL		

Field	Meaning
ACL Rule Index	This is item number
Secure IP Address	The default 0.0.0.0 allows any client to use this service to remotely manage the WEBSHARE ROUTER ADSL2+. Type an IP address to restrict access to a client with a matching IP address
Application	Choose a service that you may use to remotely manage the WEBSHARE ROUTER ADSL2+.
Interface	Select the access interface. Choices are LAN, WAN and Both



8.2 IP Filter

You may use telnet or Web to remotely manage the ADSL Router. User just needs to enable Telnet or Web and give it an IP address that want to access the ADSL Router. The default IP 0.0.0.0 allows any client to use this service to remotely manage the ADSL Router.

ATLANTIS							1	NebShare 1
Access	Quick Start	Interface Setup	Advanced Setup	Access Managerr		intenance	Status	Help
lanagement	ACL	IP Filter	SNMP	UPn	P DI	DNS		
IP Filter Set Editing								
		IP Filter Set Index	c: 1 😽					
		Interface	e: PVC0 V					
		Direction	Both					
ID Filter Dule Edition		Direction	. Don					
IP Filter Rule Editing			and the second second					
	ļ	P Filter Rule Index						
		Active	e: 🔿 Yes 💽 I	No				
	S	ource IP Address						
		Subnet Mask	(:					
		Port Number	r: 0	(0 means Don't	care)			
				10				
	Desti	ination IP Address	s:					
	Desti	ination IP Address Subnet Mask						
	Desti		c:	(0 means Don't	care)			
	Desti	Subnet Mask	c:	(0 means Don't	care)			
	Desti	Subnet Mask Port Number	c:	(0 means Don't	care)			
	Desti	Subnet Mask Port Number	(;	(0 means Don't	care)			
IP Filter Listing	Desti	Subnet Mask Port Number Protocol	(;	(0 means Don't	care)			
IP Filter Listing		Subnet Mask Port Number Protocol	(;	(0 means Don't			Direction	25
IP Filter Listing		Subnet Mask Port Number Protocol Rule Unmatched	:: 0 :: TCP v :: Forward v 1 v			Dest Port	Direction	- Unmatched
IP Filter Listing	IP Filt	Subnet Mask Port Number Protocol Rule Unmatched	:: 0 :: TCP v :: Forward v 1 v	Interface	-	Dest	and the second	- Unmatched -
IP Filter Listing	IP Filt # Active 1 - 2 -	Subnet Mask Port Number Protocol Rule Unmatched er Set Index	:: 0 :: TCP v :: Forward v 1 v	Interface est IP/Mask	src Port	Dest Port	Protocol	- Unmatched -
IP Filter Listing	IP Filt # Active 1 - 2 - 3 -	Subnet Mask Port Number Protocol Rule Unmatched er Set Index	:: 0 :: TCP v :: Forward v 1 v	Interface est IP/Mask -	src Port	Dest Port	Protocol	-
IP Filter Listing	IP Filt # Active 1 - 2 - 3 - 4 -	Subnet Mask Port Number Protocol Rule Unmatched er Set Index e Src IP/Ma - - -	:: 0 :: TCP v :: Forward v 1 v	Interface est IP/Mask - -	Src Port	Dest Port -	Protocol - -	-
IP Filter Listing	IP Filt # Active 1 - 2 - 3 -	Subnet Mask Port Number Protocol Rule Unmatched er Set Index e Src IP/Ma - -	:: 0 :: TCP v :: Forward v 1 v	Interface est IP/Mask - - -	Src Port	Dest Port - -	Protocol - - -	

IP FILTER SET EDITING:

Field	Meaning
Ip Filter Set Index	This is item number
Interface	Select which channel (PVC) to configure
Direction	Select the access to the Internet ("Outgoing") or from



the Internet ("Incoming").or Both

IP FILTER RULE EDITING:

Field	Meaning
Ip Filter Rule Index	This is item number
Active	Select Yes from the drop down list box to enable IP filter rule
Source IP Address	The source IP address or range of packets to be monitored
Subnet Mask	It is the destination IP addresses based on above destination subnet IP
Source Port Number	This Port or Port Ranges defines the port allowed to be used by the Remote/WAN to connect to the application. Default is set from range 0 ~ 65535. It is recommended that this option be configured by an advanced user
Destination IP Address	This is the destination subnet IP address
Subnet Mask	It is the destination IP addresses based on above destination subnet IP
Protocol	It is the packet protocol type used by the application, select either TCP or UDP or ICMP
Rule Unmatched	Select action for the traffic unmatching current rule; Forward to leave it pass through, and NEXT to check it by the next rule

IP FILTER LIST:

Field	Meaning
#	Item number
Active	Whether the connection is currently activ
Source IP Mask	The source IP address or range of packets to be monitored
Destination IP Mask	This is the destination subnet IP address
Source port	This Port or Port Ranges defines the port allowed to be used by the Remote/WAN to connect to the application. Default is set from range $0 \sim 65535$. It is recommended that this option be configured by an advanced user
Destination Port	This is the Port or Port Ranges that defines the application
Protocol	It is the packet protocol type used by the application, select either TCP or UDP or ICMP
	A02-RA111 / A02-RA141 Pag. 55



8.3 SNMP

Simple Network Management Protocol (SNMP) is a protocol used for exchanging management information between network devices. SNMP is a member of the TCP/IP protocol suite. WebShare Router ADSL2+ supports SNMP agent functionality which allows a manager station to manage and monitor the router through the network.

ATLANTIS	e					W	ebShare 111
Access	Quick Start	Interface Setup	Advanced Setup	Access Management	Maintenance	Status	Help
Management	ACL	IP Filter	SNMP	UPnP	DDNS		
SNMP							
		Get Community Set Community					
			SAVE				

Field	Meaning
Get Community	Type the Get Community, which is the password for the incoming Get-and GetNext requests from the management station
Set Community	Type the Set Community, which is the password for incoming Set requests from the management station

8.4 UPnP

UPnP offers peer-to-peer network connectivity for PCs and other network devices, along with control and data transfer between devices. UPnP offers many advantages for users running NAT routers through UPnP NAT Traversal, and on supported systems makes tasks such as port forwarding much easier by letting the application control the required settings, removing the need for the user to control advanced configuration of their device.

Both the user's Operating System and the relevant application must support UPnP in addition to the router. Windows XP and Windows Me natively support UPnP (when the component is installed), and Windows 98 users may install the Internet Connection Sharing client from Windows XP in order to support UPnP. Windows 2000 does not support UPnP.

ATLANTIS®					WebS	hare 11	1/141
ATLANTIS	-B			-		We	ebShare 11
Access	Quick Start	Interface Setup	Advanced Setup	Access Management	Maintenance	Status	Help
Management	ACL	IP Filter	SNMP	UPnP	DDNS		
Universal Plug & Play							
			 Activated Activated 	A CALL PRODUCT SUCCESSION	JPnP-enabld Application	n)	
			SAVE				

Field	Meaning
UPnP	Select this checkbox to activate UPnP. Be aware that anyone could use a UPnP application to open the web configurator's login screen without entering the WEBSHARE ROUTER ADSL2+ IP address
Auto-Configured	Select this check box to allow UPnP-enabled applications to automatically configure the WEBSHARE ROUTER ADSL2+ so that they can communicate through the WEBSHARE ROUTER ADSL2+, for example by using NAT traversal, UPnP applications automatically reserve a NAT forwarding port in order to communicate with another UPnP enabled device; this eliminates the need to manually configure port forwarding for the UPnP enabled application

8.5 DDNS

The Dynamic DNS function allows you to alias a dynamic IP address to a static hostname, allowing users whose ISP does not assign them a static IP address to use a domain name. This is especially useful for hosting servers via your ADSL connection, so that anyone wishing to connect to you may use your domain name, rather than having to use your dynamic IP address, which changes from time to time. This dynamic IP address is the WAN IP address of the router, which is assigned to you by your ISP.

You will first need to register and establish an account with the Dynamic DNS provider using their website, for example <u>http://www.dyndns.org/</u>

					WebS	hare 11	1/141
AND	e.				0	We	ebShare 111
Access	Quick Start	Interface Setup	Advanced Setup	Access Management	Maintenance	Status	Help
Management	ACL	IP Filter	SNMP	UPnP	DDNS		
		My Host Name E-mail Address		org			
		Username Password Wildcard support		0			
			SAVE				

Field	Meaning
Dynamic DNS	Select this check box to use dynamic DNS
Service Provider	Select the name of your Dynamic DNS service provider
My Host Name	Type the domain name assigned to your WEBSHARE ROUTER ADSL2+ by your Dynamic DNS provider
E-Mail Address	Type your e-mail address
Username	Type your user name
Password	Type the password assigned to you
Wildcard support	Select this check box to enable DYNDNS Wildcard



CHAPTER 9: Advanced Setup

9.1 Routing

If you have another router with a LAN-to-LAN connection, you may create a static routing on the router that is the gateway to Internet.

Advanced	Quick Start	Interface Setup	Advanced Setup	Access Management	Maintenance	Status	Help
	Routing	NAT	ADSL				
Static Route							
		ation IP Address					
	Gate	IP Subnet Mas	s: 💽 0.0.00		0 🗸		
	0,000	Metri			1,000		
	A	Announced in RI	P: No 💙				

ROUTING TABLE LIST:

Field	Meaning
#	Item number
Dest IP	IP address of the destination network
Mask	The destination mask address
Gateway IP	IP address of the gateway or existing interface that this route uses
Metric	It represents the cost of transmission for routing purposes. The number need not be precise, but it must be between 1 and 15
Device	Media/channel selected to append the route
Use	Counter for access times
Edit	Edit the route; this icon is not shown for system default route
Drop	Edit the route; this icon is not shown for system default route

9.1.1 Add Route

Field	Meaning
Destination IP Address	This is the destination subnet IP address
IP Subnet Mask	It is the destination IP addresses based on above destination subnet IP
Gateway IP Address	This is the gateway IP address to which packets are to be forwarded
Metric	It represents the cost of transmission for routing purposes. The number need not be precise, but it must be between 1 and 15
Announced in RIP	This parameter determines if the Prestige will include the route to the remote node in its RIP broadcasts. Set "Yes", it is kept private and is not included in RIP broadcasts. Set "No", the remote node will be propagated to other hosts through RIP broadcasts



					WebSI	hare 11	1/141
						We	bShare 11
Advanced	Quick Start	Interface Setup	Advanced Setup	Access Management	Maintenance	Status	Help
	Routing	NAT	ADSL				
Static Route		tion IP Address : IP Subnet Mask : vay IP Address : Metric : nounced in RIP :	255.255.255.0 ③ 192.168.1 2	200 O PVC	0 💌		

9.2 NAT

The NAT (Network Address Translation - NAT, RFC 1631) is the translation of the IP address of a host in a packet. The default setting is **Dynamic NAPT**. It provides dynamic Network Address Translation capability between LAN and multiple WAN connections, and the LAN traffic is routed to appropriate WAN connections based on the destination IP addresses and Route Table. This eliminates the need for the static NAT session configuration between multiple LAN clients and multiple WAN connections.

Field	Meaning
Virtual Circuit	VPI (Virtual Path Identifier) and VCI (Virtual Channel Identifier) define a virtual circuit. There are eight groups of PVC can be defined and used
Number of IPs	User can select Single or Multiple

9.2.2 DMZ

The DMZ Host is a local computer exposed to the Internet. When setting a particular internal IP address as the DMZ Host, all incoming packets will be checked by the Firewall and NAT algorithms then passed to the DMZ host, when a packet received does not use a port number used by any other Virtual Server entries.

Field	Meaning
DMZ	Disabled: As set in default setting, it disables the
	DMZ function.
	Enabled: It activates your DMZ function
DMZ Host Address	Give a static IP address to the DMZ Host when



WebShare 111/141 Enabled radio button is checked. Be aware that this IP will be exposed to the WAN/Internet.

Select the **Apply** button to apply your changes.

9.2.3 Virtual Server

In TCP/IP and UDP networks a port is a 16-bit number used to identify which application program (usually a server) incoming connections should be delivered to. Some ports have numbers that are pre-assigned to them by the IANA (the Internet Assigned Numbers Authority), and these are referred to as "well-known ports". Servers follow the well-known port assignments so clients can locate them.

If you wish to run a server on your network that can be accessed from the WAN (i.e. from other machines on the Internet that are outside your local network), or any application that can accept incoming connections (e.g. Peer-to-peer/P2P software such as instant messaging applications and P2P file-sharing applications) and are using NAT (Network Address Translation), then you will usually need to configure your router to forward these incoming connection attempts using specific ports to the PC on your network running the application. You will also need to use port forwarding if you want to host an online game server.

The reason for this is that when using NAT, your publicly accessible IP address will be used by and point to your router, which then needs to deliver all traffic to the private IP addresses used by your PCs. Please see the WAN configuration section of this manual for more information on NAT.

The device can be configured as a virtual server so that remote users accessing services such as Web or FTP services via the public (WAN) IP address can be automatically redirected to local servers in the LAN network. Depending on the requested service (TCP/UDP port number), the device redirects the external service request to the appropriate server within the LAN network.

Field	Meaning
Rule Index	Choose the rule number
Start Port Number	Enter a port number in this field
End Port Number	Enter a port number in this field
Local IP Address	Enter your server IP address in this field



9.2.4 IP Address Mapping

Field	Meaning
Rule Index	Choose the rule number
Rule Type	One-to-one: This is the mode maps one local IP address to one global IP address. Note that port numbers do not change for the One-to-one NAT mapping type Many-to-One: This is the mode maps multiple local IP addresses to one global IP address. This is equivalent to Many to One (i.e., PAT, port address translation) Many-to-Many Overload: This is mode maps multiple local IP addresses to shared global IP addresses Many-to-Many No Overload: This is the mode maps each local IP address to unique global IP addresses Server: This type allows you to specify inside servers of different services behind the NAT to be accessible to the outside world
Local Start IP	This is the starting Inside Local IP Address (ILA). Local IP addresses are N/A for Server port mapping
Local End IP	This is the end Inside Local IP Address (ILA). If your rule is for all local IP addresses, then enter 0.0.0.0 as the Local Start IP address and 255.255.255.255 as the Local End IP address. This field is N/A for One-to-one and Server mapping types
Public Start IP	This is the starting Inside Public IP Address. Enter 0.0.0.0 here if you have a dynamic IP address from your ISP
Public End IP	This is the ending Inside Public IP Address. This field is N/A for One-to-one, Many-to-One and Server mapping types



If you have disabled the NAT option in the WAN-ISP section, the Virtual Server function will hence be invalid.

If the DHCP server option is enabled, you have to be very careful in assigning the IP addresses of the virtual servers in order to avoid conflicts. The easiest way of configuring Virtual Servers is to manually assign static IP address to each virtual server PC, with an address that does not fall into the range of IP addresses that are to be issued by the DHCP server. You can configure the virtual server IP address manually, but it must still be in the same subnet as the router.


WebShare 111/141

9.3 ADSL

Advanced	Quick Start	Interface Setup	Advanced Setup	Access Management	Maintenance	Status	Help
	Routing	NAT	AISL				
ADSL							
		ADSL Mode	: Auto Sync-Up	*			
		ADSL Type	ANNEX A	*			

Field	Meaning
ADSL Mode	The default setting is Auto Sync-UP . This mode will automatically detect your ADSL, ADSL2+, ADSL2, G.dmt, G.lite, and T1.413. But in some area, multimode cannot detect the ADSL line code well. If it is the case, please adjust the ADSL line code to G.dmt or T1.413 first. If it still fails, please try the other values such as ALCTL, ADI, etc
ADSL Type	There are five modes "Open Annex Type and Follow DSLAM's Setting", "Annex A", "Annex I", "Annex A/L", "Annex M" and "Annex A/I/L/M" that user can select for this connection



CHAPTER 10: Maintenance

10.1 Administration

In factory setting, the default password is **atlantis**, and that for user is also password. You can change the default password to ensure that someone cannot adjust your settings without your permission. Every time you change your password, please record the password and keep it at a safe place.

Maintenance	Quick Start	Interface Setup	Advanced Setup	Acces Managen	Concern Mai	ntenance	Status	ebShare 11 Help
	Administrat	tion Tim	e Zone	Firmware	SysRestar	t Diag	nostics	
Administrator		Username	admin					
		New Password nfirm Password						

Field	Meaning
New Password	Type the new password in this field
Confirm Password	Type the new password again in this field

10.2 Time Zone

The router does not have a real time clock on board; instead, it uses the Simple Network Time Protocol (SNTP) to get the current time from an SNTP server outside your network. Choose your local time zone. After a successful connection to the Internet, the router will retrieve the correct local time from the SNTP server you have specified. If you prefer to specify an SNTP server other than those in the drop-down list, simply enter its IP address as shown above. Your ISP may provide an SNTP server for you to use.

AND	Ria -				We	bShare 1
Maintenance	Quick Interface Start Setup	e Advanced Setup	Access Management	Maintenance	Status	Hel
	Administration	Fime Zone	Firmware S	ysRestart Diag	postics	
Time Zone						
	Current Date/	Time : 01/01/2000 20	:58:51			
Time Synchronization						
	Synchronize time	with : 💿 NTP Serv	er automatically			
		O PC's Cloc				
		0				
		O Manually				
		one : (GMT+01:00)		ockholm, Rome, Bern, Br	russels, Vienna	*
				ockholm, Rome, Bern, Br	russels, Vienna	~

Field	Meaning
Synchronize time with	Select the time service protocol that your time server sends when you turn on the Router
Time Zone	Choose the time zone of your location. This will set the time difference between your time zone and Greenwich Mean Time (GMT)
Daylight Saving	Select this option if you use daylight savings time
NTP Server Address	Enter the IP address of your time server. Check with your ISP/network administrator if you are unsure of this information

10.3 Firmware

Your router's "firmware" is the software that allows it to operate and provides all its functionality. Think of your router as a dedicated computer, and the firmware as the software it runs. Over time this software may be improved and modified, and your router allows you to upgrade the software it runs to take advantage of these changes.

To upgrade the firmware of WEBSHARE ROUTER ADSL2+, you should download or copy the firmware to your local environment first. Press the "**Browse...**" button to specify the path of the firmware file. Then, click "**Upgrade**" to start upgrading. When the procedure is completed, WEBSHARE ROUTER ADSL2+ will reset automatically to make the new firmware work.

					We	ebShare	111/141
AND							WebShare 11
Maintenance	Quick Start	Interface Setup	Advanced Setup	Access Managem		ance Status	Help
	Administra	ition Tim	e Zone	Firmware	SysRestart	Diagnostics	
		nt Firmware Ver mware Location Status		B1C)3.3.2.5	Sfoglia		

Field		Meaning
New Location	Firmware	Type in the location of the file you want to upload in this field or click Browse to find it
Browse		Click Browse to find the .ras file you want to upload. Remember that you must decompress compressed (.zip) files before you can upload them
Upgrade		Click UPGRADE to begin the upload process. This process may take up to two minutes

After two minutes, log in again and check your new firmware version in the System Status screen.

If the upload was not successful, the following screen will appear. Click Back to go back to the Firmware screen.

Error Message:

ERROR: FAIL TO UPDATE DUE TO... The uploaded file was not accepted by the router.

Back



DO NOT power down the router or interrupt the firmware upgrading while it is still in process. Improper operation could damage the router.



Click **SysRestart** with option **Current Settings** to reboot your router (and restore your last saved configuration).

ATLANTIS		WebShare 111
Maintenance	Quick Interface Advanced Access Start Setup Setup Management Maintenance Stat	us Help
	Administration Time Zone Firmware System Diagnostics	5
System Restart		
	System Restart with : Current Settings Factory Default Settings 	
	RESTART	

If you wish to restart the router using the factory default settings (for example, after a firmware upgrade or if you have saved an incorrect configuration), select *Factory Default Settings* to reset to factory default settings.

You may also reset your router to factory settings by holding the small Reset pinhole button on the back of your router in for 10-12 seconds whilst the router is turned on.

10.5 Diagnostic

The Diagnostic Test page shows the test results for the connectivity of the physical layer and protocol layer for both LAN and WAN sides.

AND					We	bShare 11
Maintenance	Quick Interf Start Set		Access Management	Maintenar	nce Status	Help
	Administration	Time Zone	Firmware Sy	sRestart	Diagrastics	
Diagnistic Test						
	Virtual Circui	PVC0 V				
	>> Testing E	thernet LAN connection		PASS		
	>> Testing /	ADSL Synchronization .		PASS		
	>> Testing /	ATM OAM segment ping	•••	PASS		
	>> Testing /	ATM OAM end to end pin	g	PASS		
	>> Ping Prin	ary Domain Name Serve	er .	FAIL		
	>> Ping ww	w.yahoo.com		PASS		

A02-RA111 / A02-RA141





CHAPTER 11: Status

11.1 Device Info

	Quick Start	Interface Setup	Advanced Setup	Access Managem		aintenance	Status	VebShare 1 Helj
otatus	Device	Info Syste	em Log	Statistics			\$	
Device Informatio	n							
		Firmware Version	: 2.7.0.11(UE0.E	31C)3.3.2.5				
			: 00:04:ed:35:ee					
LA	N							
		IP Address	: <mark>1</mark> 92.168.1.254					
		Subnet Mask	: 255.255.255.0					
		DHCP Server	: Enabled					
WA	N							
		Virtual Circuit	PVC0 V					
			: Connected					
		Connection Type						
			: 87.0.160.114					
		Subnet Mask	: 255.255.255.2	55				
		Default Gateway	: 192.168.100.1					
		DNS Server	: 85.37.17.4					
ADS								
		DSL Firmware Ver	· Ew\/ar:2.2.2.5	A TC3084 Hur	Ver:T14 E7 0	٥		
	0		: Showtime	_A_10300411W	vei.114.17_0	.0		
		Modulation						
		Annex Mode						
			1					
			Downstream	Upstream				
		SNR Margin		27.0	db			
		Line Attenuation Data Rate		31.5 320	db kbps			

DEVICE INFORMATION:

Field	Meaning
Firmware version	This is the Firmware version
MAC Address	This is the MAC Address

LAN:	
Field	



	WebShare 111/141
IP Address	LAN port IP address
Sub Net Mask	LAN port IP subnet mask
DHCP Server	LAN port DHCP role - Enabled, Relay or disabled

WAN:

Field	Meaning
Status	"Not connected" or "Connected"
Virtual Circuit	There are eight groups of PVC can be defined VPI: The valid range for the VPI is 0 to 255 VCI: The valid range for the VCI is 32 to 65535
Connection Type	Name of the WAN connectio
VPI/VCI	Virtual Path Identifier and Virtual Channel Identifier
IP Address	WAN port IP address
Subnet Mask	WAN port IP subnet mask
Default Gateway	The IP address of the default gateway
DNS Server	WAN port DHCP role - Enabled, Relay or disabled

ADSL:

Field	Meaning	
ADSL firmware ver	This is the DSL firmware version associated with your router	
Line State	This is the status of your ADSL lin	
Annex Mode	To show the router's type, e.g. Annex A, Annex B	
Max TX Power	This field displays the transmit output power level of the ADSL Router.	

11.2 System Log

Display system logs accumulated up to the present time. You can trace historical information with this function.

11.3 Statistics

Read-only information here includes port status and packet specific statistics. Also provided are "Transmit Statistics" and "Receive Statistics".





ETHERNET:

Field	Meaning
Interface	This field displays the type of port
Transmit Frames	This field displays the number of frames
	transmitted in the last second
Transmit Multicast Frames	This field displays the number of multicast
	frames transmitted in the last second
Transmit total Bytes	This field displays the number of bytes transmitted in the last second
Transmit Collision	This is the number of collisions on this port
Transmit Error Frames	This field displays the number of error packets
	on this port
Receive Frames	This field displays the number of frames
	received in the last second
Receive Multicast Frames	This field displays the number of multicast
	frames received in the last second
Receive total Bytes	This field displays the number of bytes
	received in the last second
Receive CRC Errors	This field displays the number of error packets
	on this port
Receive Under-size Frames	This field displays the number of under-size
	frames received in the last second

ADSL:

ADUL.		
Field	Meaning	
Transmit total PDUs	This field displays the number of total PDU transmitted in the last secon	
Transmit total Error Counts	This field displays the number of total error transmitted in the last second	
Receive total PDUs	This field displays the number of total PDU received in the last second	
Receive total Error Counts	This field displays the number of total error received in the last second	





APPENDIX A: Troubleshooting

This chapter covers potential problems and the corresponding remedies.

A.1 Using LEDs to Diagnose Problems

The LEDs are useful aides for finding possible problem causes.

A.1.1 Power LED

The PWR LED on the front panel does not light up.

STEPS	CORRECTIVE ACTION
1	Make sure that the ADSL Router's power adaptor is connected to the ADSL Router and plugged in to an appropriate power source. Use only the supplied power adaptor.
2	Check that the ADSL Router and the power source are both turned on and the ADSL Router is receiving sufficient power.
3	Turn the ADSL Router off and on.
4	If the error persists, you may have a hardware problem. In this case, you should contact your vendor.

A.1.2 LAN LED

The LAN LED on the front panel does not light up.

STEPS	CORRECTIVE ACTION
	Check the Ethernet cable connections between the ADSL Router and the computer or hub.
2	Check for faulty Ethernet cables.
3	Make sure your computer's Ethernet card is working properly.
	If these steps fail to correct the problem, contact your local distributor for assistance.

A.1.3 DSL LED

The DSL LED on the front panel does not light up.

STEPS	CORRECTIVE ACTION
	Check the telephone wire and connections between the ADSL Router DSL port and the wall jack.
	Make sure that the telephone company has checked your phone line and set it up for DSL service.



WebShare 111/141

3	Reset your ADSL line to reinitialize your link to the DSLAM. For details, refer to the Maintenance chapter (web configurator) or the System Information and Diagnosis chapter.
4	If these steps fail to correct the problem, contact your local distributor for assistance.

A.2 Telnet

I cannot telnet into the ADSL Router.

STEPS	CORRECTIVE ACTION
1	Check the LAN port and the other Ethernet connections.
2	Make sure you are using the correct IP address of the ADSL Router. Check the IP address of the ADSL Router.
3	Ping the ADSL Router from your computer. If you cannot ping the ADSL Router, check the IP addresses of the ADSL Router and your computer. Make sure your computer is set to get a dynamic IP address; or if you want to use a static IP address on your computer, make sure that it is on the same subnet as the ADSL Router.
4	Make sure you entered the correct password. The default password is "admin". If you have forgot your username or password, refer to Section A.5.
5	If these steps fail to correct the problem, contact the distributor.

A.3 Web Configurator

I cannot access the web configurator.

STEPS	CORRECTIVE ACTION
1	Make sure you are using the correct IP address of the ADSL Router. Check the IP address of the ADSL Router.
2	Make sure that there is not an console session running.
3	Check that you have enabled web service access. If you have configured a secured client IP address, your computer's IP address must match it. Refer to the chapter on remote management for details.
4	For WAN access, you must configure remote management to allow server access from the Wan (or all).
5	Your computer's and the ADSL Router's IP addresses must be on the same subnet for LAN access.
6	If you changed the ADSL Router's LAN IP address, then enter



WebShare 111/141

	the new one as the URL.
7	Remove any filters in LAN or WAN that block web service.
8	See also Section A.9.

The web configurator does not display properly.

STEPS	CORRECTIVE ACTION
1	Make sure you are using Internet Explorer 5.0 and later versions.
	Delete the temporary web files and log in again. In Internet Explorer, click Tools, Internet Options and then click the Delete Files button. When a Delete Files window displays, select Delete all offline content and click OK. (Steps may vary depending on the version of your Internet browser.)

A.4 Login Username and Password

I forgot my login username and/or password.

STEPS	CORRECTIVE ACTION
1	If you have changed the password and have now forgotten it, you will need to upload the default configuration file. This will erase all custom configurations and restore all of the factory defaults including the password.
2	Press the RESET button for five seconds, and then release it. When the SYS LED begins to blink, the defaults have been restored and the ADSL Router restarts. Or refer to the Resetting the ADSL Router section for uploading a configuration file via console port.
3	The default username is "admin". The default password is "atlantis". The Password and Username fields are case- sensitive. Make sure that you enter the correct password and username using the proper casing.
4	It is highly recommended to change the default username and password. Make sure you store the username and password in a save place.

A.5 LAN Interface

I cannot access the ADSL Router from the LAN or ping any computer on the LAN.

STEPS	CORRECTIVE ACTION
1	Check the Ethernet LEDs on the front panel. A LAN LED should



2

be on if the port is connected to a computer or hub. If the 10M/100M LEDs on the front panel are both off, refer to Section A.1.2.
Make sure that the IP address and the subnet mask of the ADSL Router and your computer(s) are on the same subnet.

A.6 WAN Interface

Initialization of the ADSL connection failed.

STEPS	CORRECTIVE ACTION
1	Check the cable connections between the ADSL port and the wall jack. The DSL LED on the front panel of the ADSL Router should be on.
2	Check that your VPI, VCI, type of encapsulation and type of multiplexing settings are the same as what you collected from your telephone company and ISP.
3	Restart the ADSL Router. If you still have problems, you may need to verify your VPI, VCI, type of encapsulation and type of multiplexing settings with the telephone company and ISP.

I cannot get a WAN IP address from the ISP.

STEPS	CORRECTIVE ACTION
1	The ISP provides the WAN IP address after authenticating you. Authentication may be through the user name and password, the MAC address or the host name.
2	The username and password apply to PPPoE and PPoA encapsulation only. Make sure that you have entered the correct Service Type, User Name and Password (be sure to use the correct casing).

A.7 Internet Access

I cannot access the Internet.

STEPS	CORRECTIVE ACTION
1	Make sure the ADSL Router is turned on and connected to the network.
2	If the DSL LED is off, refer to Section A.1.3.
3	Verify your WAN settings.
4	Make sure you entered the correct user name and password.

Internet connection disconnects.



STEPS	CORRECTIVE ACTION
1	Check the schedule rules.
2	If you use PPPoA or PPPoE encapsulation, check the idle time- out setting.
3	Contact your ISP.

A.8 Remote Management

I cannot remotely manage the ADSL Router from the LAN or WAN.

STEPS	CORRECTIVE ACTION
1	Refer to the Remote Management Limitations section in the Firmware and Configuration File Management chapter for scenarios when remote management may not be possible.
2	Use the ADSL Router's WAN IP address when configuring from the WAN. Use the ADSL Router's LAN IP address when configuring from the LAN.
3	Refer to Section A.6 for instructions on checking your LAN connection. Refer to Section A.7 for instructions on checking your WAN connection.
4	See also the Section A.4.

A.9 Remote Node Connection

I cannot connect to a remote node or ISP.

STEPS	CORRECTIVE ACTION	
	Check WAN screen to verify that the username and password are entered properly.	
2	Verify your login name and password for the remote node.	
3	If these steps fail, you may need to verify your login and password with your ISP.	





APPENDIX B: Technical Features

Protocols	IP, NAT, ARP, ICMP, IGMP, DHCP(server, client
	and relay), RIP1/2, SNTP client, UPnP, Telnet
	server, SNMP
LAN port	1 xRJ45 10/100 Base-T port[A02-RA111]
	4 x RJ45 10/100 Base-T port[A02-RA141]
WAN port	RJ-11 (1 port ADSL)
External buttons	Reset
LED Indicators	Power, System, Lan and ADSL[A02-RA111]
	Power, System, 4 X Lan, ADSL and PPP[A02-
	RA141]
Standard ADSL	ANSI T1.413 Issue 2, ITU-T G.992.1(Full Rate
Compliance	DMT), ITU-T G.992.2 (Lite DMT), ITU-T G.994.1
	(Multimode), ITU G.992.3 (G.dmt.bis), ITU G.992.5
	(G.dmt.bisplus)
Protocols ADSL	RFC2364(PPPoA), RFC2516(PPPoE) and
	RFC1483
АТМ	ATM AAL2/AAL5 and ATM service class : CBR,
	UBR, VBR-rt, VBR, ATM Forum UNI 3.0, 3.1 and
	4.0
Firewall	Static Packet Filtering and NAT
VPN	Pass Through
Input Power	9V DC @ 1A[A02-RA111]
	12V DC @ 1A[A02-RA141]
Power Consumption	< 9watts
Agency and Regulatory	CE
Dimensions	135x 95 x 42 mm
Weight	200g
Operating Temperature	0° to 40°C
Storage Temperature	-10° to 70°C
Operating Humidity	5-95% non-condensing



APPENDIX C:Support

If you have any problems with the WebShare Router ADSL2+, please consult this manual. If you continue to have problems you should contact the dealer where you bought this ADSL Router. If you have any other questions you can contact the Atlantis Land company directly at the following address:

Atlantis Land SpA Viale De Gasperi, 122 20017 Mazzo di Rho(MI) Tel: +39. 02.93906085, +39. 02.93907634(help desk) Fax: +39. 02.93906161

Email: <u>info@atlantis-land.com</u> or <u>tecnici@atlantis-land.com</u> WWW: <u>http://www.atlantis-land.com</u>