

USER GUIDE



TABLE OF CONTENTS

1.	PROD	UCT DESCRIPTION	4
2.	SAFET	ΓΥ INSTRUCTIONS	4
3.	REGU	LATORY INFORMATION	5
	3.1	FCC Compliance Note	5
	3.2	Canada Certification Notice	6
4.	NETW	ORKING REQUIREMENTS	8
5.	HARD	WARE FEATURES	9
	5.1	LED Indicators	9
	5.2	Cable Connectors and Switch Locations	9
	5.3	Connector Descriptions	10
	5.4	Pinout Descriptions	10
6.	INSTA	ALLING THE HARDWARE	12
	6.1	Installation Requirements	12
	6.2	Before you begin	12
	6.3	Microfilters	12
	6.4	Hardware Installations	13
7.	CONF	IGURING VERSALINK™ FOR INTERNET CONNECTION	17
	7.1	Setting Up an Account Profile	17
	7.2	Confirm a DSL Sync	22
	7.3	Establishing a PPP Session	23
	7.4	Disconnecting a PPP Session	25
8.	SETTI	NG UP MACINTOSH OS X	27
9.	SETTI	ING UP ADVANCED CONFIGURATION	32
10.	HOME	3	
	10.1	Adding Account Profiles	
	10.2	Editing Account Profiles	35
11.	STAT	US	
	11.1	Connection Summary	
	11.2	About	
12.	CONF	IGURATION	
	12.1	Single Static IP	
	12.2	Service Configuration	45
	12.3	Firewall Configuration	52
	12.4	Wireless Configuration	56
0.20	200200		2004



	12.5	Advanced LAN	62	
	12.6	Advanced WAN	78	
13.	SETTI	NG UP ADVANCED SERVICE CONFIGURATION	96	
	13.1	Port Forwarding Ranges of Ports	97	
	13.2	Adding Port Forwarding Ports	97	
	13.3	Port Forwarding Trigger Ports	98	
	13.4	Adding Local Trigger Ports	99	
	13.5	Static NAT	99	
	13.6	Enabling Static NAT	100	
	13.7	Disabling Static NAT	101	
14.	MAIN	TENANCE		
	14.1	Backup/Store	103	
	14.2	Firewall Log	104	
	14.3	Administrative Password	106	
	14.4	Remote Access	107	
	14.5	Update Device		
15.	TROU	BLESHOOTING	113	
	15.1	System Self Tests	113	
	15.2	Diagnostic Logs	115	
	15.3	Statistics	118	
	15.4	Wireless Statistics		
	15.5	Status	124	
16.	NAT S	SERVICES	130	
17.	HELP.		134	
18.	TECH	NICAL SUPPORT INFORMATION	151	
19.	WARR	RANTY AND REPAIRS	151	
20.	PROD	UCT SPECIFICATIONS	152	
21.	SOFT	WARE LICENSE AGREEMENT	153	
22.	. PUBLICATION INFORMATION			



1. PRODUCT DESCRIPTION

The Westell® VersaLink[™] Small Business VersaLink provides reliable, high-speed, Internet access to your existing small office phone line. Your ADSL connection is "always-on" ending the hassles of dial-up modems and busy signals. Installation is easy ... no tools ... no headaches. Simply connect the hardware, apply power, and perform the simple software configuration for VersaLink and you are on the Internet.

VersaLinkTM is capable of data rates hundreds of times faster than a traditional analog modem. But unlike analog modems, VersaLinkTM allows you to use the same phone line for simultaneous voice/fax communications and high-speed Internet access, eliminating the need for dedicated phone lines for voice and data needs. VersaLinkTM supports a variety of networking interfaces wuch as wireless 802.11b/g/g+, ADSL, Ethernet and the following optional features:

- VersaPortTM: Alternate WAN uplink port
- Layer w/2 QOS with VLAN tagging
- HotSpot
- Somultaneous public/private network support

2. SAFETY INSTRUCTIONS

Never install any telephone wiring during a lightning storm.

Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.

Never touch non-insulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.

Use caution when installing or modifying telephone lines.



Risk of electric shock. Voltages up to 140 Vdc (with reference to ground) may be present on telecommunications circuits.



3. REGULATORY INFORMATION

3.1 FCC Compliance Note

(FCC ID: CH8-327WXX-6)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the Federal Communication Commission (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 or more of the following measures:

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

Modifications made to the product, unless expressly approved by Westell Inc., could void the users' right to operate the equipment.

RF EXPOSURE

This device has been tested and complies with FCC RF Exposure (SAR) limits in typical laptop computer configurations and this device can be used in desktop or laptop computers with side-mounted PCMCIA slots, which can provide 20 cm separation distance from the antenna to the body of the user or a nearby person. Thin laptop computers may need special attention to maintain antenna spacing while operating. This device cannot be used with handheld PDAs (personal digital assistants). Use in other configurations may not ensure compliance with FCC RF exposure guidelines. This device and its antenna must not be co-located or operate in conjunction with another antenna or transmitter.

PART 68 - COMPLIANCE REGISTRATION

This equipment (Model 327W15) complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. A label on the bottom of this equipment contains, among other information, the Ringer Equivalence Number (REN) and the product identifier. For products approved after July 23, 2001 the product identifier is in the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g. 03 is a REN of 0.3). The REN is used to determine the number of devices that may be connected to a telephone line. For earlier products, the REN is separately shown on the label. If requested, this number must be provided to the telephone company.

Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most, but no all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.

This equipment is designated to connect to the telephone network or premises wiring using a compatible modular jack that is Part 68 compliant. An FCC compliant telephone cord and modular plug is provided with the equipment. See the Installation Information section of this User Guide for details.



A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instruction for details.

If this terminal equipment (Model 327W15) causes harm to the telephone network, the telephone company may request you to disconnect the equipment until the problem is resolved. The telephone company will notify you in advance if temporary discontinuance of service is required. If advance notification is not practical, the telephone company will notify you as soon as possible. You will be advised of your right to file a complaint with the FCC if you believe such action is necessary.

If you experience trouble with this equipment (Model 327W15), do not try to repair the equipment yourself. The equipment cannot be repaired in the field. Contact your ISP, or contact the original provider of your DSL equipment.

The telephone company may make changes to their facilities, equipment, operations, or procedures that could affect the operation of this equipment. If this happens, the telephone company will provide advance notice in order for you to make the modifications necessary to maintain uninterrupted service.

If your home has specially wired alarm equipment connected to the telephone line, ensure that the installation of this equipment (Model 327W15) does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

This equipment cannot be used on public coin phone service provided by the telephone company. Connection of this equipment to party line service is subject to state tariffs.

3.2 Canada Certification Notice

The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operations and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The department does not guarantee the equipment will operate to the user's satisfaction.

This equipment meets the applicable Industry Canada Terminal Equipment Technical Specification. This is confirmed by the registration number. The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specification were met. It does not imply that Industry Canada approved the equipment. The Ringer Equivalence Number (REN) is 0.0. The Ringer Equivalence Number that is assigned to each piece of terminal equipment provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed five.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local Telecommunication Company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations. Connection to a party line service is subject to state tariffs. Contact the state public utility commission, public service commission, or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure that the installation of this equipment (Model 327W15) does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

If you experience trouble with this equipment (Model 327W15), do not try to repair the equipment yourself. The equipment cannot be repaired in the field and must be returned to the manufacturer. Repairs to certified equipment





User Guide

should be coordinated by a representative, and designated by the supplier. Refer to section 12 in this User Guide for further details.

The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed five.

Users should ensure, for their own protection, that the electrical ground connections of the power utility, telephone lines, and internal, metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.



Users should not attempt to make such connections themselves, but should contact the appropriate electrical inspection authority, or electrician, as appropriate.



4. NETWORKING REQUIREMENTS

The following system specifications are required for optimum performance of the VersaLinkTM via 10/100 Base-T or Wireless installations.

CONNECTION TYPE	MINIMUM SYSTEM REQUIREMENTS	NETWORKING SCHEME
ETHERNET	 Pentium® or equivalent and above class machines Microsoft® Windows® (98, ME, NT 4.0, 2000, or XP) or Macintosh® OS X installed Linux / Unix / Solaris 64 MB RAM (128 MB recommended) 10 MB of free hard drive space TCP/IP Protocol stack installed 10/100 Base-T Network Interface Card (NIC) Computer Operating System CD-ROM on hand 	Networking via 10/100 Base-T Ethernet requires an available Ethernet port with a 10/100 Base-T Network Interface Card (NIC) installed.
WIRELESS IEEE 802.11g	 Pentium® or equivalent and above class machines Microsoft® Windows® (98, ME, 2000, or XP) or Macintosh® OS X installed Computer Operating System CD-ROM on hand Internet Explorer 4.x or Netscape Navigator 4.x or higher 64 MB RAM (128 MB recommended) 10 MB of free hard drive space An available IEEE 802.11b/g PC card or USB adapter 	Networking via Wireless or other 802.11b/g capable network adapter card.



5. HARDWARE FEATURES

5.1 LED Indicators

This section explains the LED States and Descriptions. LED indicators are used to verify the unit's operation and status.

LED	State	Description		
	Solid Green	Power ON		
	No Light	No Power		
POWER	Solid Red	POST (Power On Self Test), Failure (not bootable) or Device Malfunction. Note: The Power LED should be red no longer than two seconds after the power on self test passes.		
	Solid Green	10/100 Base-T link/activity.		
ETHERNET	Flashing Green	10/100 Base-T traffic.		
	OFF	No Ethernet link or traffic for specific 10/100 Base-T connection.		
WIRELESS	Solid Green	Wireless enabled and functioning.		
	Flashing Green	Wireless activity present (traffic to/from any Wireless interface).		
	OFF	Wireless disabled or not functioning.		
	Solid Green	Power ON and synchronized with ADSL line card.		
DEI	OFF	Modem power Off.		
DSL	Flashing Green	DSL attempting to sync with carrier detect signal.		
	Solid Amber	Modem is in safe boot mode.		
	Solid Green	Internet link established		
INTERNET	OFF	Modem Power is Off, Modem is in Bridge Mode, or the connection is not present.		
	Flashing Green	IP connection established and IP Traffic is passing through device (in either direction).		

LED States and Descriptions

5.2 Cable Connectors and Switch Locations

- DSL Connector (RJ-11)
- Reset Button
- (4) Ethernet Connector (RJ-45) with optional uplink port (Note: When using the optional uplink port, Ehternet LAN connection is limited to 3)
- Power Connector
- Wireless IEEE 802.11b/g connector





(Note: When using the optional uplink port, Ethernet LAN connection is limited to 3)

5.3 Connector Descriptions

SYMBOL	NAME	Түре	FUNCTION
	DSL LINE	6-pin RJ-11 modular jack	Connects to an ADSL-equipped telephone jack or DSL connection of a POTS splitter.
– 12V	POWER	Barrel connector	Power source.
비스	ETHERNET	8-pin (RJ-45) modular jack	Connects the Ethernet device to the PC.
Wireless	ANTENNA	SMA connector and antenna	Connects to wireless IEEE 802.11b/g/g+

5.4 **Pinout Descriptions**

The following tables list the pinout descriptions.

DSL Pinouts

Pinout	Description
1, 2, 5, 6	Not Used
3	DSL Tip
4	DSL Ring

Ethernet/Optional Uplink Port Pinouts

Pinout	Description
1	Rx+
2	Rx-
3	Tx+
4,5,7,8	Not Used
6	Tx-



VersaLinkTM Small Business Router



6. INSTALLING THE HARDWARE

6.1 Installation Requirements

To install VersaLinkTM, you will need the following:

- A Network Interface Card (NIC) installed in your PC or
- An IEEE 802.11b/g PC card or USB adapter installed on your PC

NOTE: Internet service provider subscriber software and connection requirements may vary. Consult your ISP for installation instructions. Please wait until you have received notification from your ISP that your DSL line has been activated before installing VersaLinkTM and the software.

6.2 Before you begin

Make sure that your kit contains the following items:

- Westell VersaLinkTM Small Business VersaLink
- Power Supply
- RJ-45 Ethernet cable
- RJ-11 Phone cable
- SMA Antenna
- Westell CD-ROM containing User Guide in PDF format
- Quick Start Guide

6.3 Microfilters

ADSL signals must be blocked from reaching each telephone, answering machine, fax machine, computer modem or any similar conventional device. Failure to do so may degrade telephone voice quality and ADSL performance. Install a microfilter if you desire to use the DSL-equipped line jack for telephone, answering machine, fax machine or other telephone device connections. Microfilter installation requires no tools or telephone rewiring. Just unplug the telephone device from the baseboard or wall mount and snap in a microfilter, next snap in the telephone device. You can purchase microfilters from your local electronics retailer, or contact the original provider of your DSL equipment.



6.4 Hardware Installations



NOTE: Please wait until you have received notification from your ISP that your DSL line has been activated before installing VersaLink.

NOTE: If you are using VersaLinkTM in conjunction with an Ethernet Hub or Switch, refer to the manufacturer's instructions for proper installation and configuration. When using a Microfilter, be certain that the DSL phone cable is connected to the "DSL/HPN" non-filtered jack. Westell recommends the use of a surge suppressor to protect equipment attached to the AC power supply.

6.4.1 Installation via 10/100 Base-T Ethernet



NOTE: Before you connect via 10/100 Base-T, you must have an available Ethernet card installed in your computer. If your Ethernet card does not auto-negotiate, you must set it to half duplex. Refer to the Ethernet card manufacturer's instructions for installing and configuring your Ethernet card.

- 1. Connect the power supply cord to the power connector marked **12V** on the rear panel of VersaLink. Plug the other end of the power supply into a wall socket.
- 2. Connect the DSL phone cable from the jack marked **•** on the rear panel of VersaLink to the DSL-equipped telephone line jack on the wall. **IMPORTANT:** <u>Do not</u> use a DSL filter on this connection. You must use the phone cord that was provided with the kit.
- 3. Connect the yellow Ethernet cable from any one of the Ethernet jacks marked on the rear panel of VersaLink to the Ethernet port on your computer. **Repeat this step to connect up to three additional PCs to VersaLink.**

NOTE: You may connect to any of the four Ethernet jacks on the rear panel of VersaLink as they serve as an Ethernet switch.

- 4. Check to see if the DSL/RDY LED is solid green. If this LED is solid green, VersaLink is functioning properly.
- 5. Check to see if the Ethernet LED lights solid green. Solid green indicates that the Ethernet connection is functioning properly.

Congratulations! You have completed the Ethernet hardware installation. No software installation is required when using only an Ethernet connection. Proceed to section 7 to configure VersaLink for Internet connection.







Figure 1. Connection via 10/100 Base-T Ethernet

6.4.2 Connecting PCs via Wireless

IMPORTANT: If you are connecting to VersaLink via a wireless network adapter, the SSID must be the same for both VersaLink and your PC's wireless network adapter. The default SSID for VersaLink is the serial number of the unit (located below the bar code on the bottom of the unit and also on the Westell shipping carton). Locate and run the utility software provided with your PC's Wireless network adapter and enter the SSID value. The PC's wireless network adapter must be configured with the SSID (in order to communicate with VersaLink) before you begin the account setup and configuration procedures. Later, for privacy you can change the SSID by following the procedures outlined in section 12.4 (Wireless Configuration).

NOTE: Client PCs can use any Wireless Fidelity (Wi-Fi) 802.11b/g certified card to communicate with VersaLink. The Wireless card and VersaLink must use the same Wired Equivalent Privacy (WEP) security code type. The factory default for WEP is DISABLED. If you enable WEP, you must ensure the network setting for your wireless adapter is set to "Must Use Shared Key for WEP" or "Open Wi-Fi." You must ensure that your PC's Wi-Fi adapter is configured properly for whichever network setting you use. You can access the settings in the advanced properties of the wireless network adapter.



VersaLinkTM Small Business Router

To network VersaLink to additional computers in your home or office using a wireless installation, you will need to confirm the following:

- 1. Ensure that an 802.11b/g wireless network adapter has been installed in each PC on your wireless network.
- 2. Install the appropriate drivers for your Wireless IEEE802.11b or IEEE802.11g PC card or USB adapter.
- 3. Make sure the SMA antenna connector is loose. Orient the antenna in the proper configuration. Then, tighten the antenna knob to lock it into place.
- 4. Connect the power supply cord to the power connector marked **12V** on the rear panel of VersaLink. Plug the other end of the power supply into a wall socket.
- 5. Connect the DSL phone cable from the connector marked $\mathbf{\Psi}$ on the rear panel of VersaLink to the DSLequipped telephone line jack on the wall. **IMPORTANT:** Do not use a DSL filter on this connection. You must use the phone cord that was provided with the VersaLink kit.
- 6. Check to see if the DSL/RDY LED is flashing Green. If the DSL/RDY LED is flashing Green, VersaLink is functioning properly.
- 7. Check to see if VersaLink's Wireless LED lights solid Green. This means that the Wireless interface is functioning properly.

Congratulations! You have completed the Wireless installation VersaLink. You must now go to section 7 to configure VersaLink for Internet connection.



Figure 2. Connection via Wireless



6.4.3 Ethernet and Wireless Combination Installation

The VersaLinkTM supports simultaneous use of 10/100 Base-T Ethernet and Wireless. The following instructions explain how to install VersaLink for simultaneous use of Ethernet and Wireless ports.

NOTE: Refer to Figure 1 and Figure 2 for instructions on hardware installation via Ethernet and Wireless connections.

- 1. Ensure that an 802.11b/g wireless network adapter has been installed in each PC on your wireless network
- 2. Install the appropriate drivers for your Wireless IEEE802.11b or IEEE802.11g PC card or USB adapter.
- 3. Make sure the SMA antenna connector is loose. Orient the antenna in the proper configuration. Then, tighten the antenna knob to lock it into place.
- 4. Connect the power supply cord to the power connector marked **12V** on the rear panel of VersaLink. Plug the other end of the power supply into a wall socket.
- 5. Connect the DSL phone cable from connector marked on the rear panel of VersaLink to the DSL-equipped telephone line jack on the wall. **IMPORTANT:** <u>Do not</u> use a DSL filter on this connection. You must use the phone cord that was provided with the kit.
- 6. Connect the yellow Ethernet cable from any one of the Ethernet jacks marked on the rear panel of VersaLink to the Ethernet port on your computer. **Repeat this step to connect up to three additional PCs to VersaLink.**

NOTE: You may connect to any of the four Ethernet jacks on the rear panel of VersaLink as they serve as an Ethernet switch.

- 7. Check to see if the DSL/RDY LED is solid green. If the DSL/RDY LED is solid green, VersaLink is functioning properly.
- 8. Check to see if the Ethernet LED lights solid green. Solid green indicates the Ethernet connection is functioning properly.
- 9. Check to see if VersaLink's Wireless LED lights solid Green. This means that the Wireless interface is functioning properly.

Congratulations! You have completed the simultaneous hardware (Ethernet and Wireless) installation. You must now go to section 7 to configure VersaLink for Internet connection.



7. CONFIGURING VERSALINK[™] FOR INTERNET CONNECTION

To surf the Internet using VersaLinKTM, you must set up your account profile, confirm your DSL sync, and establish a PPP session with your Internet Service Provider (ISP). Refer to the Internet service provider's installation manual to install the software required for your Internet connection.

NOTE: Internet service provider subscriber software and connection requirements may vary. Consult your Internet service provider for installation instructions.

7.1 Setting Up an Account Profile

After connecting VersaLink, bring up your Web browser and type http://dslrouter or http://192.168.1.1 in the browser's address window. Press Enter on your keyboard. The Getting Started screen will appear. Click on next.

🕗 Welcome - Microsoft Internet Explorer	_ 🗆 ×
	A
Cotting Started	
Getting Started	
Welcome to the Westell Setup wizard.	
The following screens will ask you a few	
simple set-up questions that you will need	
to answer to establish a connection profile.	
Click next to start.	
next cancel	
	~



If you clicked on **Next**, the following screen will be displayed. This screen will allow you to set up your account profile.

NOTE: Before you set up your account profile, you must obtain your **Account ID**, **Account Password**, and **VPI/VCI** values from your Internet service provider. You will use this information when you set up your account parameters. If you are at a screen and need help, click on the **Help** button to learn more about the screen, or see section 17 (Help) for additional information on the help messages.

Connection Name	My Connection	
	User provided name for connection profile.	
Account ID		
	Provided by your ISP.	
Account Password		
	Provided by your ISP.	
	next reset	
	Help	

Type in your account parameters. (Account parameters are required before connecting to the Internet.) Account Parameters include:

- Connection Name-the Connection Name is a word or phrase that you use to identify your account. (You may enter up 64 characters in this field.)
- Account ID-the Account ID is provided by your Internet Service Provider. (You may enter up 255 characters in this field.)
- Account Password-the Account Password is provided by your Internet Service Provider. (You may enter up 255 characters in this field.)

When you enter your account parameters at the User Name screen, they will be displayed as shown in the screen below. Click **next** if you want your account parameters to take effect. Click on **reset** if you do not want the account parameters that you entered to take effect or if you want to re-enter the parameters.



Connection Name	My Connection	
	User provided name for connection profile.	
Account ID	westel/@local	
	Provided by your ISP.	
ccount Password	[]	
	Provided by your ISP.	
	next reset	
	Help	

Enter the VPI and VCI values (0 for VPI and 35 for VCI default) you obtained from your Internet service provider. Click on **next**.

NOTE: Depending on your Internet Service Provider, the VPI/VCI screen may come pre-configured and it will be displayed here. In this case, you should not change any values in this screen. Click on next to go to the PROTOCOL screen.	VPI (0-255) 0 VCI (1-65535) 35 Teset Help	VPI = 0 VCI = 35
	×	



Select the Protocol type that you obtained from your Internet Service Provider. Click on next.

NOTE: Depending on your Internet Service Provider, the **PROTOCOL** screen may come pre-configured and it will be displayed here. In this case, you will need to click on **next** to go to the **SET-UP COMPLETE** screen.



When the **SET-UP COMPLETE** screen appears, you have successfully completed your Account Profile setup. Click on **done**.





If you changed the **VPI/VCI** settings and clicked on **done** in the **SET-UP COMPLETE** screen, the following screen will appear. Click on **OK**.



If you clicked on **OK**, the following screen will be displayed. VersaLinkTM will be reset and the new configuration will take effect. Next, proceed to section 7.2 to confirm your DSL sync.





7.2 Confirm a DSL Sync

Remember, you must have active DSL service before VersaLink can synchronize with your ISP's equipment. To determine if VersaLink has a DSL sync, view the DSL Connection Rate in the **Connection Overview** section (see the following homepage screen). If the status reads **No DSL Connection**, check the DSL physical connection, explained in section 6 (INSTALLING THE HARDWARE) of this User Guide.

NOTE: If no DSL sync is established, the **connection** button will not be displayed in the following screen. To determine if the DSL sync is established, check VersaLink's DSL/RDY LED. If the DSL/RDY LED is not solid green, you do not have a DSL sync established. Contact your ISP for further instructions.

Application image - Micro File Edit View Favorite	osoft Internet Explorer I S es Iools Help
M	
Discover Better Broadband	Home Status Configuration Maintenance Troubleshooting Help
	Connection Overview
	DSL Connect Rate (Down/Up) No DSL Connection
	Connection Name PPP Status My Connection DOWN profile editor
	Profile with the ° is your default profile. To make changes to your default profile click on the profile editor button.



The screen below shows the connection rate, indicating that a successful SYNC has been established. The connection rate values represent the transmission speed of your DSL line. (VersaLink might take time to report the values.) Click on the **Connect** button to establish a PPP session.

Application image -	Aicrosoft Internet Explorer	
Discover Better Broa	L Home Status Configuration Maintenance Troubleshooting Help	
	Connection Overview DSL Connect Rate (Down/Up) 8064 KBits/Sec by 1024 KBits/Sec	
	Connection Name PPP Status My Connection DOWN connect profile editor	
	Profile with the ° is your default profile. To make changes to your default profile click on the profile editor button.	
•		F

7.3 Establishing a PPP Session

If you clicked on **connect** button in the **Connection Overview** window, the following screen will appear briefly. The **PPP Status** in the **Connection Overview** window allows you to view the state of your ISP connection. When the **PPP Status** displays **Connecting...**, this means that you are establishing a PPP session.

NOTE: VersaLink will handle transmission rates up to 8 Mbps in ADSL mode. Your actual DSL rates may vary depending on your Internet service provider.





Application image - Microsoft Internet Exp	Norer
<u>File Edit View Favorites Tools H</u> elp	
N/	
WESTELL	
Discover Better Broadband Home Sta	tus Configuration Maintenance Troubleshooting Help
Home	
Connection	Overview
DOL 0	
DSER	connect Rate (DownyOp) 8064 KBits/Sec by 1024 KBits/Sec
Connection	Name PPP Status
° My Conne	ction Connecting abort
	to your default profile click on the profile editor button.
)
1	

Once a PPP session has been established, the **PPP Status** will display **UP**. Congratulations! You may now surf the Internet.







For example, if you want to visit Westell's home page, type **Http://www.westell.com** in your browser's address window.

7.4 Disconnecting a PPP Session

If you have finished surfing the Internet and want to disconnect from your Internet service provider, click on the **Disconnect** button in the **Connection Overview** screen (the preceding screen). The following pop-up screen will appear. Click on **OK** to disconnect the PPP session.



If you clicked the **Disconnect** button in the preceding **Connection Overview** screen, the **PPP Status** should display **DOWN**. This means that you no longer have a PPP session. In this event, VersaLink will maintain its DSL connection. If you want to remove the DSL connection, power down VersaLink via the power switch on the rear of VersaLink.





<u>E</u> dit <u>V</u> iew F <u>a</u> v	nites <u>I</u> ools <u>H</u> elp	
ESTEL cover Better Broadb Home	L Ind Home Status Configuration Maintenance Troubleshooting Help	
	Connection Overview DSL Connect Rate (Down/Up) 8064 KBits/Sec by 1024 KBits/Sec	
	Connection Name PPP Status • My Connection DOWN connect profile editor	
	Profile with the ° is your default profile. To make changes to your default profile click on the profile editor button.	

When you are ready to establish a PPP session, click on the **connect** button. (If you powered down VersaLink, you must first power up VersaLink and log into your account profile before you establish a PPP session.)

NOTE: When you are ready to exit VersaLink's interface, click on the X (close) in the upper right-hand corner of the window. Closing the window will not affect your PPP Status (your PPP session will not be disconnected). You must click on the disconnect button to disconnect your PPP session.



8. SETTING UP MACINTOSH OS X

This section provides instructions on how to use Macintosh Operating System 10 with VersaLink. Follow the instructions in this section to create a new network configuration for Macintosh OS X.

NOTE: Macintosh computers must use VersaLink's Ethernet installation. Refer to section 6, (INSTALLING THE HARDWARE).

Open the System Preference Screen

After you have connected the Westell VersaLink to the Ethernet port of your Macintosh, the screen below will appear. Click on the "**Apple**" icon in the upper right corner of the screen and select **System Preferences**.

1	Ś	Grab	File	Edit	Captu
	A	bout Th	is Mac	1	
	G	et Mac (os x s	oftwar	e
ľ	S	stem P	referer	nces	
	D	ock			•
	Lo	ocation			•
	R	ecent Ite	ems		•
	Fo	orce Qu	it		
	SI	eep			
	R	estart			
	SI	nut Dow	m		
	Lo	og Out			0%Q

Choose the Network Preferences

After selecting **System Preferences...**, from the previous screen, the **System Preferences** screen will be displayed. From the **System Preferences** screen, click on the **Network** icon.





Create a New Location

After selecting the **Network** icon at the **System Preferences** screen, the **Network** screen will be displayed. Select **New Location** from the **Location** field.

000		Network			
Show All	Displays		Grad	Tun Dick	Natural
	orsprays.	Location v	' Auto	matic	
Configure:	Internal M	odem	New Edit I	Location.	
		TCP/IP	PPP	Proxies	Modem

Name the New Location

After selecting **New Location** from the **Network** screen, the following screen will be displayed. In the field labeled **Name your new location:**, change the text from "**Untitled**" to "**Westell**." Click **OK**.

Westell	
All users of th	is computer will be able to
choose this lo	cation in the Apple menu
without enteri	ing a password.



Select the Ethernet Configuration

After clicking on **OK** in the preceding screen, the **Network** screen will be displayed. The **Network** screen shows the settings for the newly created location. From the **Configure** field in the **Network** screen, select **Built-in Ethernet**. Click on **Save**.

NOTE: Default settings for the Built-in Ethernet configuration are sufficient to operate VersaLink.

00			Network	
Show All	Displays	(A)	Startup Disk	Network
		Location:	Westell	۲
Configure	✓ Internal	Modem	_	Concernant of Maria
-	Advance	d	Dicites (Modem
	Canfig	une Using	1999	1

Check the IP Connection

To verify that the computer is communicating with VersaLink, follow the instructions below.

- 1. Go to the "Apple" icon in the upper right corner of the screen and select System Preferences.
- 2. From the System Preferences screen, click on the Network icon. The Network screen will be displayed.
- 3. From the **Configure** field in the **Network** screen, select **Built-in Ethernet**.
- 4. View the IP address field. An IP address that begins with **192.168.1** should be displayed.

NOTE: The DHCP server provides this IP address. If this IP address is not displayed, check VersaLink's wiring connection to the PC. If necessary, refer to section 5 for hardware installation instructions.

- C.			flair's	_
ce All	-	4	Tag Data Referen	
		Location: Wern	a (1)	
onliquie	Built-in Rt	hernet	(m)	
	f	TOP/IP (HPvc)	Appirtals Provies	
	Custom	·····		17
IP A DHCP C	ddress: 19 ik lient ID: 0	02_168_1_15 toroided by DHCP pany generali	Search Damains	Optunal Optunal
Ethernet A	ddress: 00	0.30.65.e3.84.ba		



Create a User Account

In the address window of your Internet Explorer web browser, type Http://dslVersaLink/. Press enter on your keyboard.

😝 🖯 😁 WireSpeed Dual Connect	
et and the second state of	e
Address 💿 http://dsirouter/	
💿 Live Home Page 😳 Apple 😳 Apple Support 💿 Apple Store 💿 iTools 💿 Hac 05 X 💿 Hisroso	ft HacTopia 💿 Office for Hacintosh 💿 HSN
411 2	

The **Getting Started** screen will be displayed. You may now begin your Account Setup. Refer to section 7 of this User Guide to configure your Westell VersaLink for Internet connection.

Welcome - Microsoft Internet Explorer	
	A
Getting Started	
Welcome to the Westell Setup wizard.	
The following screens will ask you a few	
simple set-up questions that you will need	
to answer to establish a connection profile.	
Click next to start.	
next cancel	



VersaLinkTM Small Business Router

The following sections explain the advanced features of VersaLinkTM. [This Page Left Blank Intentionally]



9. SETTING UP ADVANCED CONFIGURATION

Advanced Configuration instructions are explained in Section 10 through Section 16. If you want to set up advanced features for VersaLink[™], follow the instructions provided in sections 10 through 16.

STOP! The following sections assume that you have active DSL and Internet service.

VersaLink[™] allows you to make changes to advanced features such as account profiles, routing configurations, and firewall settings. The following sections will explain each feature and show you how to make changes to VersaLink's settings. If you are at a screen and need help, click on the **Help** button to learn more about that screen.

NOTE: As you navigate through the various screens of VersaLink, the name of the active page that you have selected will appear in the left-hand side of the homepage screen, as shown below. Please note that the actual values might differ from the values displayed in the screens.



10. HOME



If you have set up your account profile and established your PPP session as discussed in section 7, the following settings will be displayed when you click on your **Home** page. Click on **profile editor** to edit your connection profile.

NOTE: If you have created multiple account profiles, select the radio button for the active account profile.



Connection Overview	Displays your DSL connection rate.
Connection Name	This Connection Name is from the connection profile that you established in section 7.
PPP Status	UP = PPP session established
	DOWN = NO PPP session established.
Connect/Disconnect	CONNECT = Establish a PPP session
	DISCONNECT = Disconnect a PPP session
Profile Editor	This allows you to make changes to the profile that you created in section 7.



10.1 Adding Account Profiles

If you select the **Profile Editor** button from your **Home** page, the **Advanced Home** screen will appear, as shown below. Click on the **new connection** button in the **Advanced Home** screen. The **New Connection** screen will appear. Enter your account profile information and click on **New**. Next, click on **OK** in the pop-up screen to save your new connection. If you do not want to add a connection profile, click on **Close** in the **New Connection** screen.

NOTE: You may store up to eight unique user profiles in VersaLink. Details on the New Connection screen are located at the end of this section.



If you clicked **OK** in the **"Save new connection?"** pop-up screen, the following screen will be displayed. This screen will allow you to edit a connection profile. Select a profile name from the **Connection Name** field and click on the **edit** button adjacent to the name.



A DECK DECK DECK DECK DECK DECK DECK DECK		-
Par Sam 1	hime Ten Da	
1		
N		
ESTE		
over Bother Both	Hone Status Configuration Maintenance Troubleshooting Help	
Advanced He	Dettool .	
	Connection Overview	
	DSL Connect Rate (Down/Up) 8064 KBits/Sec by 1024 KBits/Sec	
	Connection Name PPP Status	
	Connection Name PPP Status	
	Connection Name PPP Status # My Connection UP Connection Country Connection Down	
	Connection Name PPP Status # My Connection UP Connection Cowns	
	Connection Name PPP Status # My Connection Dowly Connection (* My Connection Dowly Connection)	
	Connection Name PPP Status My Connection DOWN Fields My Connection DOWN The new connection Ink allows the user to add more connections.	

10.2 Editing Account Profiles

If you clicked on **Edit** in the preceding screen, the **Edit "My Connection"** screen will appear. Follow the steps in the **Edit "My Connection"** screen to change your existing connection profile, which you set up in section 7. If you do not want to change your connection profile, click on **close** in the screen. Click on **delete** if you want to delete your connection profile.

Balantana mar Manat Index (alas)	lie La jee fronte lak jie
WEBTELL Man Base Endpointe Resource Transmissing Sup	Edit "My Connection" Connection
Advanced frame	Connection Name My Connection User provided name for connection profile. Account ID westell@tocal Provided by your 259.
Descendent Destries DB, Descent Falle (Descripty) - Miller (Mity, Falle S), 2014 (Mity, Falle)	Account Password Provided by your 20P. Service Profile @ Manual C On Demand C Always On
Generalitien Searce If By Convertien If Convertien	Time Out Enable IP Save Factword Time Out Minutes for Connection Time Out Connection Connection
The time connection hid allows the user to add more connections	التركي ع) fore کارتو



Connection Name	This field allows you to enter a new connection name of your choice (up to 64
	characters).
Account ID	Use the same account ID that you used in section 7 if you are connecting to the
	same Service Provider. If you have multiple Service Providers, you can enter this
	information at this time.
Account Password	Use the same account password that you used in section 7 if you are connecting
	to the same Service Provider. If you have multiple Service Providers, you can
	enter this information at this time.
Service Profile	Westell recommends that you use the Default parameter.
Manual	Factory default = MANUAL
	Selecting this feature allows you to manually establish your PPP session.
On Demand	Selecting this feature allows VersaLink to automatically re-establish your PPP
	session upon demand.
Always On	Selecting this feature allows VersaLink to establish an "always-on" PPP session
	if it goes down.
Save Password	Selecting this feature allows you to save the password for your new connection
	profile in VersaLink so that you will not have to re-enter it in case of a re-boot.
Minutes for Connection Time Out	This option allows you to specify the number of minutes that you want a PPP
	session to stay active before it is disconnected due to inactivity. (This feature
	works if you have selected the Time Out Enable feature explained above.)



11. STATUS



11.1 Connection Summary

The following settings will be displayed if you select **Connection Summary** from the **Status** menu.

Home Status C	configuration Main	nenance Troubleshooting Help	
Note: The actual va	lues might dif	fer from the values displayed in this	creei
DSL Connection Infor	mation		
Connection Rate	(Down/Up):	8064 KBits/Sec by 1024 KBits/Sec	
Connection Status	In Packets Out Packets	152 154	
IP Network Address	PPP Primary DNS Secondary DNS	172,24,48,4 10,16,89,116 10,16,16,8	
Ethernet Status	In Packets Out Packets	6299 8346	
ATM NetworkAddress	VPI VCI	0 35	
Firewall Status	Passed Dropped	5n: 10 Out: 13 In: 0 Out: 26	
Connection Informat	ion -		
	-	ration Status Number of Reconnects	
Connection Name	Connection Du	Cartering and an and an and and and and and and a	

DSL Connection Information		
Connection Rate	This field will let you know if you have a DSL Sync (UP/DOWN) and the DSL rate at	
	which you are connected.	
Connection Status	This field will show how much information was received (IN) or sent (OUT) in packets.	
IP Network Address	PPP = An IP address identifies your device on the Internet	
	Primary DNS = Provided by your Service Provider	



User Guide

VersaLinkTM Small Business Router

	Secondary DNS = Provided by your Service Provider
Ethernet Status	This field will display your Ethernet information that was received (IN) or sent (OUT) in
	packets on your Ethernet port.
ATM Network Address	This field will display your VPI and VCI values, which are provided by your ISP.
Firewall Status	This field will display your firewall traffic in packets.
	Passed: Monitors information traffic that was successfully received (IN) or transmitted
	(OUT) in packets.
	Dropped: Monitors information traffic that was not successfully received (IN) or
	transmitted (OUT) due to your firewall settings.
	PPP Connection Information
Connection Name	This is from the connection profile that you established in section 7.
Connection Duration	This field will display how long your PPP session has been connected.
Status	This field will display the status of your PPP session.
	UP=Connected
	DOWN=Disconnected
Number of Reconnects	This field will display the number of attempts that were made to establish a PPP session.

11.2 About

The following settings will be displayed if you select **About** from the **Status** menu.

Lill Your Farment Inst	tie.	
ESTELL Hone	Status Configuration	on Maintenance Troubleshooting Help
Abeat Note: The actua	l values might d	liffer from the values displayed in this screen.
	Model Number Bertal Number MaC Address Software Version Software Model Description Boot Loader	A90-327W15-06 coso1 co-so-ch-co-co- sus-co-co-co- sus-co-co-co- 4 Port Gateway www.speed Cata Gateway

Model Number	VersaLink manufacturer's model number.
Serial Number	VersaLink manufacturer's serial number.
MAC Address	Media Access Controller (MAC) i.e., hardware address of this device.
Software Version	Version of Application Software.
Software Model	VersaLink application type.
Description	Product description.
Boot Loader	Version of boot loader software



12. CONFIGURATION

WESTELL Decover Better Broedbard	Home Status	Configuration Maintenance	Troubleshooting	Help	
Home		Single Static IP Services Firewall Wireless Advanced LAN			
	Connection Ove	Advanced WAN +			

12.1 Single Static IP

The following settings will be displayed if you select Single Static IP from the Configuration menu.

STOP: Static NAT must be disabled before you can enable **Single Static IP**. To disable Static NAT, select **Service Configuration** from the **Configuration** menu. Next, click on the **static NAT** button. Select the device from the **Static NAT Device** drop-down menu and click on **disable**. Return to Single Static IP Configuration by selecting **Single Static IP Configuration** from the **Configuration** menu.





12.1.1 Enabling Single Static IP Configuration

To enable Single Static IP, select a device from the options listed in the window that will share your Single Static IP. Click on **enable.**

NOTE: The Single Static IP Configuration screen allows you to select the device on your LAN that will share your Single Static IP.

it you fput	n Jaak Bris
STELL	Home Status Configuration Maintenance Troubleshooting Help
ingle Static IP onfiguration	
	Please select which device will share your Single Static IP. If "Uper Configured PC" is selected, a local PC must be manually configured to
	Nave the Single Static 2P address. WAN IP Address : 172.24,48.4
	Inter Contract PC
	Single Static IP is currently deabled.

If you clicked on **enable**, the following pop-up screen will appear. Click on **OK** to enable this device for Single Static IP. Click on **Cancel** if you do not want to enable Single Static IP.

NOTE: The actual device name may differ from the name displayed in this screen.

Microsoft Internet Exp	lorer 💌
Enable IP Pass	sthrough for salle-982?
OK	Cancel



If you clicked on **OK** in the preceding pop-up screen, the following pop-up screen will appear. VersaLink must be reset in order for the new configuration to take effect. Click on **OK**.



If you clicked on **OK** in the preceding screen, the following screen will be displayed. VersaLink will be reset and the new configuration will take effect.



After a brief delay, the home page will be displayed. Confirm that you have a DSL sync and that your PPP session displays **UP.** (Click on the **connect** button to establish a PPP session). Next, Select **Single Static IP** from the **Configuration** menu to confirm that Single Static IP is **enabled**, as shown in the following screen.







STOP! After you enable Single Static IP, you must reboot your computer.

12.1.2 Disabling Single Static IP

To disable Single Static IP, select Single Static IP from the Configuration menu. Click on disable.





If you clicked on disable in the preceding screen, the following pop-up screen will be displayed. Click on OK.



If you clicked on **OK** in the **Disable IP Passthrough?** screen, the following pop-up screen will be displayed. This screen will allow the modem to be reset and the new configuration will take effect. Click on **OK**.

Microsoft	Internet Explorer 🗙
?	The modem must be reset in order for the new configuration to take affect. Do you wish to reset now?
	Cancel

If you clicked on **OK** in the preceding screen, the following screen will be displayed. VersaLink will be reset and the new configuration will take effect.



After a brief delay, the home page will be displayed. Confirm that you have a DSL sync and that your PPP session displays **UP.** (Click on the **connect** button to establish a PPP session). Next, Select **Single Static IP** from the **Configuration** menu to confirm that Single Static IP is **disabled**, as shown in the following screen.



Lit You Ipoint	n Tau Peb
ESTELL bind builder	Home Status Configuration Maintenance Troubleshooting Help
	Please select which device will share your Single Static IP. If "User Configured PC" is selected, a local PC must be manually configured to have the Bingle Static IP address.
	WAN IP Address 1 172.24.48.4 User Configured PC sale-882
	Single Static IP is currently disabled.

STOP! After you disable Single Static IP, you must reboot your computer.

12.1.3 Configuring Static IP on Your PC

If you have static IP service (your Internet Service Provider [ISP] supplies static IP addresses), you will need to perform the following steps to obtain Internet access:

- 1. Configure your PC settings to obtain an IP address automatically. (Refer to your Windows Help screen for instructions.)
- 2. Follow the instruct ions in section 7 (Configuring VersaLink[™] for Internet Connection).
- 3. View the settings at the VPI/VCI screen (section 7). The values should read **0** (for VPI) and **35** (for VCI). If you type any other value in the fields and click on **next**, you will lose your DSL connection. The connection cannot be restored until the VPI/VCI is set to 0/35.
- 4. Select the **Configuration** menu, and then select **Advanced WAN** > **VC**.
- 5. Click on the **edit** button in the row that displays the VPI/VCI equal to 0/35. The VC 1 Configuration screen will be displayed.
- 6. Select **Bridge** from the list of Protocol options. Next, under the VC 1 Bridge Settings, select Routed Bridge as the Mode.



VersaLinkTM Small Business Router

- 7. Disable DHCP Client (if enabled) by clicking on the Disable radio button adjacent to DHCP Client.
- 8. Replace the addresses in the fields labeled **IP address**, **Subnet Mask**, **VersaLink**, **DNS Primary**, **and DNS Secondary** with the addresses you obtained from your Internet service provider.
- 9. Click on the **set VC** button.
- 10. Click on **OK** in the VC Configuration pop-up screen.
- 11. Click on **OK** in the reset modem pop-up screen.

After you complete the preceding steps, VersaLink will be reconfigured and your new settings will take effect. After VersaLink has been reset, confirm that you have a DSL sync and that your PPP session displays **UP** before continuing VersaLink's configuration.

12.2 Service Configuration

The following settings will be displayed if you select Services from the Configuration menu.

Westell has developed an extensive list of NAT services and you may select any service from this list. By selecting your specific NAT service and setting up a NAT profile, you will ensure that the appropriate ports on VersaLink are open and that the required application traffic can pass through your LAN. For a list of supported services, go to section 16 (NAT Services).



Current Profile	Displays the NAT (Network Address Translation) services that you have
Service Name	Drop down selection menu of NAT (Network Address Translation) service you can select to configure you VersaLink.



12.2.1 Adding NAT Services to a Profile

This section explains how to add NAT services to your NAT service profile. Remember, you may attach an unlimited number of NAT services to your profile.

NOTE: Westell has developed an extensive list of NAT services and you may select any service from this list. By selecting your specific NAT service and setting up a NAT profile, you will ensure that the appropriate ports on VersaLink are open and that the required application traffic can pass through your LAN. For a list of supported NAT services, go to section 16 (NAT Services).

To add a NAT service, select **Services** from the **Configuration** menu. Next, Select a NAT service from the options provided at the **Service Name** drop-down arrow and click on **enable**.



If you clicked on **enable**, the following **Host Service** screen will be displayed. Click on **OK**. This will load the new NAT Configuration and the settings will be saved automatically.

Microsoft Interne	t Explorer 🛛 🗙
? Host Se	rvice?
(OK)	Cancel

If you clicked on **OK** in the preceding pop-up screen, the **Host Device** screen will be displayed. The **Host Device** screen will allow you to select which device will host the NAT service you selected on your local area network. You



must either select the device from the **Host Device** drop-down arrow or type an IP address in the field labeled **IP** Address. Click on done.

Host Device - Microsoft Internet Explorer	
Host Device salle-982 or specify IP Address done	

NOTE: You can attach multiple NAT services to your profile. However, for each NAT service that you attach to your profile, you must first select the new NAT service. Then, you must load the new NAT Configuration, as explained earlier in this section.

Once you have selected a NAT service and you have saved it to your NAT service profile, the following screen will be displayed. It shows which NAT service is active for the selected profile.





If you select the **details** button in the **Service Configuration** screen, the following screen will display the details of the selected NAT service. If you click on the **delete** button in the **Service Configuration** screen, you will remove that NAT service from your NAT service profile. Click on **close** to continue.

Service Details - Microsoft Internet Explorer	
Service Details Service Name America Online Type Port Forwarding	2
Port 1 Protocol: TCP Global Port(s): 5190 Base Host Port: 5190	
	1

NOTE: If you would like to set up additional Advanced Service Configuration options, refer to section 13 (Setting Up Advanced Service Configuration).

12.2.2 Creating a New NAT Service Profile

If you select **new** from the preceding **Service Configuration** screen, the **Create new Service Profile?** pop-up screen will be displayed. Click on **OK** to begin creating your new NAT service profile. Click **Cancel** if you do not want to create a new NAT service profile.

Microsoft Internet	Explorer 🛛 🗙
Create ne	w Service Proble?
OK	Cancel

If you clicked on **OK**, the following screen will be displayed. Select **"A New Service Profile #1"** from the **Current Profile** drop-down arrow.

NOTE: You may create up to four NAT profiles and attach an unlimited number of services to each profile.





andquardian. Microsoft Informat Eq. Your Agentian Intik Yoli	A			
BTELL Home Boardiand Home Status Repuice Repuice	Configuration Maintenance	Troubleshooting	Help	
Service Name	Profile #1		(deleter)	est
Service Name Concernation results	Service Mode	Host	Device	
Cintine contor service)	SERVICE Mode	HOAT	DEVICE	

If you selected "A New Service Profile #1" from the Current Profile drop-down arrow, the following screen will be displayed. This screen shows that you have chosen to create a new NAT service profile. You may create up to four NAT service profiles and attach an unlimited number of services to each profile.





12.2.3 Editing a NAT Service Profile

Once you have created a NAT service profile, you may edit the profile. If you select **edit** from the **Service Configuration** screen, the following screen will be displayed. By selecting the **edit** button, you can make changes to your NAT profile by adding or deleting NAT applications that will work with VersaLink. Type your new NAT service profile name into the field labeled **Profile Name**.



The following screen shows that a new profile name called 'My NAT Profile' was entered into the Profile Name field. If you want save the new NAT profile, click on save. If you do not want to save the new NAT profile, click on close.

Edit Serv	ce Proble - Mice	osoft Internet Explore	(880
	Edit S	ervice Pr	ofile	1
	Profile Name	My NAT Profile		-
	-	ve close		



If you clicked on **save** in the **Edit NAT Profile** screen, the following pop-up screen will be displayed. Click **OK** to save your new profile settings. If you click on **Cancel**, your new profile settings will not be saved.

Microsoft Interne	t Explorer	х
Save thi	s Profile?	
ОК	Cancel	

The following screen displays the current profile. If desired, you may create a new profile and delete or edit an existing profile.

NOTE: You may create up to four NAT profiles and attach an unlimited number of services to each profile.

Yes Fyoden	Inda 1940				
Service Higarolian	Home Status Co	nfiguration Maintenance	Troubleshooting	Halp	
Compact Develop	International			Collector	-
Service Name	Select A Service	m Jenvice	enable)	deleta	-
Service Name	IM MARRIER	Service Mode	Hos	l Device	
C					



12.3 Firewall Configuration

The following settings will be displayed if you select Firewall from the Configuration menu.



High	High security level only allows basic Internet functionality. Only Mail, News, Web, FTP, and
	IPSEC are allowed. All other traffic is prohibited.
Medium	Factory Default = MEDIUM
	Like High security, Medium security only allows basic Internet functionality by default. However,
	Medium security allows customization through NAT configuration so that you can enable the traffic
	that you want to pass.
Low	The Low security setting will allow all traffic except for known attacks. With Low security,
	VersaLink is visible to other computers on the Internet.
None	Firewall is disabled. (All traffic is passed)
Custom	Custom is an advanced configuration option that allows you to edit the firewall configuration
	directly. NOTE: only the most advanced users should try this.

If you select **Edit** from the **Security Level** screen, the **User Defined Firewall Rules** screen will be displayed. This screen allows you to change the security parameters on your Inbound and Outbound Firewall rules via the **User Defined Firewall Rules** drop-down arrow. If you select **Inbound**, this will restrict inbound traffic from the WAN to the LAN. **Outbound** restricts outbound traffic to the WAN from the LAN. To apply the new settings, click **Apply** in the screen labeled **User Defined Firewall Rules**.

NOTE: Westell recommends that you do not change the settings in the **User Defined Firewall Rules** screen. If you need to reset VersaLink to factory default settings, push the reset button on the rear of VersaLink.



The information displayed in the following screen depends upon the Firewall security setting you have selected. If you selected "None" in the preceding Firewall **Security Level** screen, no values will be displayed in the following **User Defined Firewall Rules** screen.

Firmed Rids	es - Miccoudt Internet Explores	
EM EM 3	land Fgouldes Jush Hals	
	Linear and the second second second second	-
	Charactering and a the same second	
	Outoard	
begin		
RulasDeop	TTL	
drop matc	h 3 8 (D1:FE) >> alert 4 [TTL of 0 or 1]	
Pulesbrop	Ablents	
drop from Address]	addr 0.0.0.0 >> done, elert 4 [0.0.0.0 Source IP	
PalesDrop drop prot	ICEP scol icep in done, alert 4 Invalid ICEP Type]	
pans all		
end		
Note:	The information displayed in this screen	
depen	ds on the level of security you have selected.	
-		
		-1
	Tela	5
	which ware	
	close	
		_
Done	Ta Local stran	-

If you clicked **Apply** in the **User Define Firewall Rules** screen, the following pop-up screen will be displayed. Click on **OK** if you want your new firewall setting to take effect. If you click on **Cancel**, your new firewall settings will not take effect.



If you want to save your new firewall settings, click on save in the screen labeled User Define Firewall Rules.

NOTE: Westell recommends that you do not change the settings in the **User Defined Firewall Rules** screen. If you need to reset VersaLink to factory default settings, push the reset button on the rear of VersaLink.



Firew	all Rules	- Microsoft I	nternet	Explorer						
[le]	Es As	w Fgvorites	Icols	Help						1
									_	
		User D	efined	Firewa	ll Rules	Inbound	1			
title	e	[Secur	ity Le	vel 1	IN rules	8]			141	
begin	n								- 21	
Deslars	-Dese T								- 63	
drop	match	38(01	FE)	>> ale	rt 4 [T	TL of 0	or 1]			
									121	
Rules	sDroph	ddress	0.0.55	dame	alert		0.0.9	lource 1	TP.	
Addre	ess]	0.01		dourdy	GACK 0	1 0.0		ourse :		
									23	
Rules	sDropI	CMP								
drop	proto	col icmp	>> don	e, ale	rt 4 []	Invalid	ICMP	Type]		
Rules	sPass									
pass	a11								- 88	
end									100	
									- 23	
	Not	e: The info	rmatio	on displ	ayed in t	his scree	en		- 63	
	dep	ends on the	elevel	of secu	rity you l	have sele	ected.		199	
									- 23	
								-		
								nel	P	
		(appl		54	ive				
				6						
				clo	se					
Done								Local intr	anet	

If you clicked **save** in the **User Define Firewall Rules** screen, the following pop-up screen will be displayed. Click **OK** when asked **Do you wish to save these Rules to Flash and switch you Security Level to "User"?** This will save your new firewall settings. If you click **Cancel**, your new firewall settings will not be saved.





If you select **Help** in the screen labeled **User Defined Firewall Rules**, the following screen will be displayed. This screen gives a detailed explanation of the Firewall Rules.

Packet Fibering Farmal User Manual - Microsoft Internet Explorer	BIO R
De La Yes Fyrnin Ink De	12
File/Buffer Format	2
The RCL, tile or buffer formating decled into two sections. The first portion of the file defines any number of keys and associated values. The second portion contains the filtering rule definitions.	- 1
Kay Definition Section	
A key beforition consists of the key followed by the accossided value. A value is a builty a character string. The string is delimited by the open and close square brackets. An example of a keyword definition would look like the following.	
attar (High service) ACL Re (
The packet filter angles does not use keys. They are intended to provide information associated with the file. The user interface treats the key definition and value parts as standard text;	
Pules Section	
The rules section of the RDs, the or buffer is desireded to the begin an end keywinds. The rules listed between these delividers are passed and converted to a decision tree dels structure used by the packet filter engine. The rules listed are implemented sequentially as listed in the RDL source. One the packet filter engine those a match for a rule if will rule to the filter action to be taken (pack of the packet filter of compare the following rules with the give packet union of thermals include (set the description of the date added in in section 12.5.2.3.)	
Rule Names	
RDL rules may be given names. The packet logging facility and the user interface uses these rule names. A name applies to all rules fullowing its identication in the Rules Section until acother name is declared or the end statement. An identifier (one or more aphanument characters beginning with an alpha character) on a line by itself declares a new name for the following rule(s).	
RDL Comments	
Comments begin with the # sharacter. The parser ignores all characters following the comment character to the end of the line.	
RDL Command Systax	
An RDL command consists of a filter leavest followed by a condition expression optionally followed by one or more action leavesto.	
False Condition [, Condition2;] (++ Action; Action2;]	
The titlet keyword specifies if the packet will be percent or dropped. The condition defines the portion of the packet and the bit string to which it will be compared. The action keyword may specify additional action(s) to be taken.	



12.4 Wireless Configuration

The following fields will be displayed if you select Wireless from the Configuration menu.

IMPORTANT: If you are connecting to VersaLink via a wireless network adapter, the SSID must be the same for both the Westell VersaLink and your PC's wireless network adapter. The default SSID for VersaLink is the serial number of the unit (located below the bar code on the bottom of the unit and also on the Westell shipping carton). Locate and run the utility software provided with your PC's Wireless network adapter and enter the SSID value. The PC's wireless network adapter must be configured with the SSID (in order to communicate with VersaLink) before you begin VersaLink's account setup and configuration procedures. For privacy, you may change the **Network Name (SSID)** value in the **Wireless Configuration** screen to your desired value.

NOTE: Client PCs can use any Wireless Fidelity (Wi-Fi) 802.11b/g/g+ certified card to communicate with VersaLink. The Wireless card and VersaLink must use the same Wired Equivalent Privacy (WEP) security code type. The factory default for WEP is DISABLED. If you enable WEP, you must ensure the network setting for your wireless adapter is set to "Must Use Shared Key for WEP" or "Open Wi-Fi." You must ensure that your PC's Wi-Fi adapter is configured properly for whichever network setting you use. You can access the settings in the advanced properties of the wireless network adapter.

To select a network setting, click on the drop-down arrow at the field labeled **Authentication Type**, and then select either **Open System** or **Shared Key**. If you change any settings in this screen, you must click on the **Save** button to ensure that the settings take effect.

NOTE: For privacy, you may change the Network Name (SSID) value to your desired value.

Configuration		
nomen (parala). (Com Internet Anna (Com) Depror Nam (Anna Nagari (Com	- 3 - 3	
	Privacy Settings	
Authentication of gale (Team) Here Calver Here Calver Here Calver Here 1 Here 1	terene 2 a 2 a a 2 a 2 a 3 a 4 a 4 a 5 a 5 a 5 a 5 a 5 a 5 a 5 a 5	
the late late		



	Wireless Card Information
Wireless Operation	Factory Default = Enabled.
	When disabled, no stations will be able to connect to the VersaLink.
Network Name (SSID)	This string, (32 characters or less) is the name associated with the AP. To connect to the AP, the SSID on a Station card must match the SSID on the AP card or be set to "ANY."
Channel	The AP transmits and receives data on this channel. The number of channels to choose from is pre-programmed into the AP card. Station cards do not have to be set to the same channel as the AP; the Stations scan all channels, and look for an AP to connect to.
Mode	This setting allows station to communicate with VersaLink.
	 Possible Responses: Mixed: Station using any of the 802.11b, 802.11b+, and 802.11g rates can communicate with VersaLink. 11b only: Communication with VersaLink is limited to 802.11b 11b+: Stations using any of the 802.11b and 802.11b+ rates can communicate with VersaLink 11g only: Communication with VersaLink is limited to 802.11g
4x Support	Factory Default = Disabled When selected, this enables/disables the 4X. If enabled, 4X support provides additional algorithms for increased throughput.
Advanced Configuration	Selecting this button allows access to the Wireless Advanced Configuration settings.
	Privacy Settings
Authentication Type	Factory Default = Open System Possible Response:
	Open System: Open System authentication is the default selection. Shared Key: To use Shared Key authentication, WEP must be enabled, and a valid WEP key must be present. Enabling WEP does not force the use of Shared Key authentication. It is permissible to have WEP enabled and still use Open System authentication.
WEP Security WEP	Factory Default=DISABLED
Security WEP (Wired Equivalent Privacy)	The AP card supports 64-bit, 128-bit, or 256-bit WEP encryption. If WEP is disabled, any station can connect to the AP (as long as its SSID matches the AP SSID).
	IF WEP is enabled, the risk of someone nearby accessing the AP is minimized.
Key Select	If selected, the WEP Key is treated as a string of text characters, and the number of characters must be either 5 (for 64-bit encryption) or 13 (for 128-bit encryption) or 29 (for 256-bit encryption). If not selected, the WEP key is treated as a string of hexadecimal characters, and the number of characters must be either 10 (for 64-bit encryption), 26 (for 128-bit encryption), or 58 (for 256-bit encryption). The only allowable hexadecimal characters are 0-9 and A-F. NOTE: The WEP key must be the same value and type for both Versa Link and the wireless network adapter. "Pass Phrase" is not the same as "text" and should not be used.
Key Mapping Table button	Selecting this button will allows access to the Wireless Key Mappings settings.
Hide SSID	Factory Default = Disabled. If Enabled, stations will need to set the SSID to match the Network Name (SSID) in order to connect to Versa Link.
MAC Address Filtering	Factory Default = Disabled.
	If Enabled, only the stations in the MAC Filter Table can connect to Versa Link.
MAC Filter Table button	Selecting this button allows access to the Wireless MAC Address Filter Table.



12.4.1 Wireless Advanced Configuration

The following screen will be displayed if you click on the **Advanced Configuration** button in the **Wireless Configuration** screen.

TELL Home State	s Configuration Maintenance Troubleshooting Help
s Advanced guration	
Winnless Advanced Con	Agunation
Beacon Period	200 msecs (range:1-65536)
RTS Threshold	2347 Butes (range:0-2347)
Fragmentation Threshold	2346 Butes (range: 256-2346)
Preamble Algorithm	Loos STA's
Slot Time Algorithm	Loos STA's
PBCC Algorithm	Enhanced Dynamic 🖹
ERP Protection Algorithm	Dynamic:
Rate Adaptation	Endined
Rate Falback	Atter 1 Futtry
802.115 Hates(Mbps) N - not supported Y - supported B - basic supported	8 . 8 . 8 . 8 . 8 . 1 V . 22
B02.11g Rates(Mbps) N - not supported Y - supported B - basic supported	VEC VE: VEIZ VEIZ VEIZ VEIZ VEIZ VEIZ

Beacon Period	The time interval between beacon frame transmissions. Beacons contain rate and capability information. Beacons received by stations can be used to identify the access points in the area.
RTS Threshold	RTS/CTS handshaking will be performed for any data or management MPDU containing a number of bytes greater than the threshold. If this value is larger than the MSDU size (typically set by the fragmentation threshold), no handshaking will be performed. A value of zero will enable handshaking for all MPDUs.
Fragmented Threshold	Any MSDU or MMPDU larger than this value will be fragmented into an MPDU of the specified size.
Preamble Algorithm	Factory Default = Local STA's Possible Responses: Always Long: Transmissions are done using the long preamble algorithm. Always Short: Transmissions are done using the short preamble algorithm. Local STA's: If all associated stations support short preamble, then the short preamble algorithm is used. Otherwise, the long preamble algorithm is used.
Slot Time Algorithm	Factory Default = Local STA's Possible Response: Always Off: Transmissions are done using a 20 usec slot time.



	Always ON: Transmissions are done using a usec slot time (SST).
	Local STA's: If all associated stations support SST, then the 9 usec slot time is used.
	Otherwise, the 20 uses slot time is used.
	Enhanced Dynamic: Similar to Local STA's, with the following extension: If
	associated stations that do not support SST do not transmit for a period of time, the 9
	usec slot time is used.
PBCC Algorithm	Factory Default = Enhanced Dynamic
C	
	Possible Response:
	Always Off: PBCC is not used, operation at 22 Mbps is not possible.
	Always ON: PBCC is used.
	Local STA's: If all associated stations support PBCC then PBCC is used
	Otherwise PBCC is not used
	Dynamic: Similar to local STA's with the following extension: PBCC setting is also
	dependent on Descen frames from overlanning DSS. If Descen frames are received
	thet de net surgest DDCC, then DDCC is net used
	that do not support PBCC, then PBCC is not used.
	Ennanced Dynamic: Similar to Dynamic with the following extension: If associated
	stations that do not support PBCC do not transmit for a period of time, then PBCC is
	not used.
ERP Protection Algorithm	Factory Default = Dynamic
	Possible Response:
	Always Off: ERP is not used
	Always ON: ERP is used.
	Local STA's: If there are any associated stations than do not support ERP, a
	protection algorithm is used to prevent contention.
	Dynamic: Similar to local STA's with the following extension: The ERP protection
	setting is also dependent on Beacon frames from overlapping BSS. IF Beacon
	frames are received that indicate ERP is not supported, then a protection algorithm is
	used.
	Enhanced Dynamic: Similar to Dynamic with the following extension: If associated
	stations that do not support FRP do not transmit for a period of time then protection
	algorithm is not used
Pote Adoptation	Eastory Dafault – Enabla
Rate Adaptation	Factory Default – Ellable
	in disabled, the highest rate shared between versallink and STA is used for each
Rate Fallback	Factory Default = After 1 Retry
	The number of retries to attempt before falling back to the next lower rate. If
	Fallback is disabled, the starting rate is the only rate tried. IF Rate Adaptation is also
	disabled, the maximum rate shared with the STA is always the starting rate and the
	only rate tried. This may not work in noisy environments, and will reduce roaming
	distances.
	Possible Response: After 1 Retry/ Disable/ After 1 Retry/ After 2 Retry
802.11b Rates (Mbps)	These are the allowable communication rates that VersaLink will attempt to use. The
802.11g Rates (Mbps)	rates are also broadcast within the connection protocol as the rates supported by
	VersaLink.



12.4.2 Wireless Key Mappings

The following screen will be displayed if you click on the **Key Mapping Table** button in the **Wireless Configuration** screen.

neless Key Mappings - Mics n E.O. Ymu Fyraniau)	noff Internet Explorer with Help	
M		
VESTELL Soor Roter Deathard Wireless Key Mapping	tome Status Configuration Maintenance Troubleshoo	ting Help
War	less Key Mappings	
	Currently the Key Mapping table is empty	
	add	
	Back	

WEP Key	Select Enable is you want this WEP key enabled for the listed MAC Address.
MAC Address	The MAC address assigned to the station for which you want to assign a WEP key.
Key Length	The number of bits the encryption is going to use for WEP. The options are 64, 128,
	or 256 bits.
Key Value	The WEP key to be used for this station.



12.4.3 Wireless Filter Table

The following screen will be displayed if you click on the MAC Filter Table button in the Wireless Configuration screen.



Traffic	Allowed: When the MAC Filter is enabled, only stations in the MAC Filter Table
	(which are set to "Allowed") will have access to the AP.
	Blocked: This allows the station to remain in the table, but no access to the
	VersaLink is allowed.
MAC Address	The MAC address assigned to the station that you want to Allow access to.
Station Name	The station name or description that the MAC address is assigned to. This is an
	optional field that is useful in identifying the station.



12.5 Advanced LAN

This section explains the configurable features of VersaLink that are available if you select Advanced LAN from the Configuration menu.

=1.1.				
roadband	Home	Status	Configuration Main	ntenance Troubleshooting Help
e i			Services Firewall	
			Advanced LAN	DNS
			Advanced WAN	DHCP
				Private LAN
	Connecti	ion Ove	erview	Public LAN VLAN

12.5.1 DNS Configuration

The following settings will be displayed if you select DNS from the Advanced LAN menu.

TELL		
Prosition Home Status C	onfiguration Maintenance Troublesho	oting Help
Contraction of the local division of the		
User Assigned DA	a	
Domain Name	hyhome westell com	
Blatic Hest Assign	ument.	
Her	st Name IP Address	
dout weath	192.168.1.1	tielete
SmartDevice	192.168.1.1	(Triming)
	0000	- a51
	Novality -	
Discovered Local	Devices	
No Discovered Dev	IC#1	





User Guide

User Assigned DNS		
Domain Name	This field allows you to enter a Domain Name for VersaLink.	
NOTE: Some ISP's may	To add a Domain Name, in the field under User Assigned DNS, type in your	
require the name for	new domain name and click Set.	
identification purposes.		
Static Host Assignment		
Host Name	This field allows you to enter a HOST name for VersaLink.	
	To add a new Host name, in the field under Static Host Assignment, type in the	
	Host Name and the IP address and click Set.	
IP Address	Displays the IP address that is assigned to the Host Name.	
Discover Local Devices		
This field displays a list of the	ne computers on the LAN that were assigned a DHCP Address. The computer	
name, MAC address, and IP	address of each discovered device is displayed.	

If you want to add a new Host Name and IP address to your DNS server, enter VersaLink's **Host Name** and **IP Address** in the fields provided in the **Static Host Assignment** section.

8 See Faret	n Infe Infe	
STELL		
Configuration	Hume Status Configuration Maintenance Troubleshooting Help	
1	Uver Assigned DVS	
8	Doenain Name jophone westel Jon	
	Host Name IP Address	
	development 242,158,2.1	
	Discovered Local Devices	
	No Discovered Devices	

The following screen displays a Host Name and an IP Address in the fields. Now click on add.





			A STATEMENT
STE			
Configure	stime platue Comparation Ma	monance mouthemoting maip	
	User Assigned DNS		
	Damain Name Instanta washing		
	Provide Provid		
	Static Hest Assignment		
	Hust Name	IF Address	-
	Busines	192.168.1.1	
	deviceweb	192 368 1.1	
	SmartDevice	292.306.1.1	414
	Provenanters	PR:14120	
	Contraction of the later		
	President and President Presidents		
	and a strange of strange of the		

If you clicked on **add**, the following screen will be displayed. The **Host Name** and **IP Address** have been added to the Static Host Assignment.

ELL		
Manual Hume Status Configuration &	faintpriance Troubleshorting	telp
And a state of the		
User Analysed Dist		
Denialis Name Instoria sectal	igawi.	
Math; next Ansignment		
	IF Address	
Hand Name		and the second second
Statute	192.168.1.1	and a
Statute (statute decement)	192.168.1.3	and Belleta
Best Name (Introde descende) prombasica	192,188,1.1 387,108.1.1 387,108.1.1	
Dest Aume (Introduce device-well) prostdevice device-ben	192.168.1.1 187.168.1.1 187.168.1.1 187.168.1.1 187.168.1.15	And Annual a Annual a Annual a
Interface	199,1488.1.1 197,198.1.1 197,198.1.1 197,198.1.1 197,198.1.25 [1148	ari Anima Anima Anima Anima



12.5.2 DHCP Configuration (Private LAN)

The following settings will be displayed if you select DHCP from the Advanced LAN menu.



DHCP Server	This setting allows VersaLink to automatically assign IP addresses to local
	devices connected on the LAN. Westell advises setting this to enabled for the
	private LAN.
	Off = DHCP Server is disabled
	Private LAN = DHCP addresses will be saved into the Private LAN configuration.
	Public LAN = DHCP addresses will be saved into the Public LAN
	configuration. This option is only available if the Public LAN DHCP server is enabled.
	NOTE: These addresses will be overwritten if the Internet Service Provider
	supports dynamic setting of these values.
DHCP Start Address	Factory Default = 192.168.1.15
	This field displays the first IP address that the DHCP server will provide. The
	DHCP Start Address must be within the IP address and lower than the DHCP
	End Address. You may use any number from 0 to 254 in this address.
DHCP End Address	Factory Default = 192.168.1.47
	This field displays the last IP address that the DHCP server will provide. The
	DHCP End Address must be within the IP address and higher than the DHCP
	Start Address. You may use any number from 0 to 254 in this address.





DHCP Lease Time	Factory Default = 01:00:00:00 Displays the amount of time the provided addresses will be valid, after which the DHCP client will usually re-submit a request.
	NOTE: DHCP Lease Time is displayed in the format (dd:hh:mm:ss)*. This value must be greater than 10 seconds. Seconds must be between 0 and 59, minutes must be between 0 and 59, and hours must be between 0 and 23. *(dd = days, hh = hours, mm = minutes, ss = seconds)

12.5.3 Disabling the DHCP Server

If you click on the drop-down arrow at **DHCP Server:**, a list of options will be displayed. If you want to disable your DHCP server, select **Off** from the **DHCP Server** drop-down arrow. Click on **save**.



If you selected **Off** at **DHCP Server:**, the following screen will be displayed. Click on **save** to save the **DHCP Server** setting.





e Edi Yeen Fyranter	Tous Rap		
VESTELL	Home Stat	us Configuration Maintenance Troubleshooting Help	
		DHCP Server Of	
C)

If you clicked on **save**, in the preceding **DHCP Configuration** screen, the following pop-up screen will appear. Click on **OK**.





12.5.4 Enabling the DHCP Server

If you want to enable your DHCP Server settings, select **Private LAN** at the **DHCP Server** drop-down arrow.

HCP Cardigue also In Lill Your 1	n - Mannad Dalamat Captain Speaker - Jack - Bak	R
WESTE	Hume Status Configuration Maintenance Troubleshooting Help	
	DHCP Start Address 1127103147 DHCP Lease Time III () () () () () () () () ()	
	Days House Seconds	

If you have recently disabled the DHCP Server for Private LAN, select **Private LAN** while in the following screen.

DHCP Configuration - Microsoft Internet Explorer	_ 🗆 ×
<u>File Edit Vi</u> ew Favorites <u>T</u> ools <u>H</u> elp	
address 🗿 http://dsirouter/dhcp.htm?dhcpOpt=0	∂Go
uddetes implicit http://decouter/dhcp.ptm?dhcpDpt=0 Implicit Law Home Status Configuration Memory Maintenance Troubleshooting Help Implicit Configuration Home Status Configuration Memory Maintenance Troubleshooting Help Implicit Configuration Home Status Configuration Memory Maintenance Troubleshooting Help Implicit Configuration Implicit Configuration Implicit Configuration Implicit Configuration Implicit Configuration	
	*



VersaLinkTM Small Business Router

If you selected **Private LAN**, the following screen will be displayed automatically. Click on **save** to save your DHCP Server setting. If you click on **reset**, your DHCP Server will be reset to factory default. (Private LAN is the factory default for the DHCP Server.)

BREPEndiguation Mare Sie Est Ster Parater	noët latennet Exploren Den 1990	
	Hore Status Configuration Maintenance Troubleshooting Help	
	DHCP Server Prove LAN T	9
	DHCP Start Address DHCP End Address DHCP Lease Time DHCP Lease Time Extreme Days Acurs Minutes Seconds	

If you clicked on save, the following pop-up screen will appear. Click on OK.





12.5.5 Private LAN Configuration

The following settings will be displayed if you select **Private LAN** from the **Advanced LAN** menu. (Private LAN is the default configuration for this VersaLink.)

NOTE: Private LAN allows you to set up a network behind VersaLink.

If you change the settings in this screen, click on save. If you click on reset, the changes will not take effect.

Die Life Your Fprister	Mittanuit Externet Explores Josh 1940	
Private LAN Configuration	Home Status Configuration Maintenance Troubleshooting Help	-
	Private LAN DHCP Server Enable P Private LAN Enable P Modem IP Address 132:160.1.1 Subnet Mask 255:255:25	
	Private LAN DHCP Settings DHCP Start Address 1921681.15 DHCP Lease Time 1921681.47 DHCP Lease 1921681.47	
). 1

If you made changes and clicked on **save**, the following pop-up screen will be displayed. Click on **OK**. This will save your **Private LAN Configuration** settings. If you click **Cancel**, your new settings will not take effect.

Microsof	Internet Exp	lorer 🗙	
?	Load new Priv	ate LAN configuration?	
[OK	Cancel	

Private LAN DHCP Server Enable	Default = CHECKED If this box is CHECKED, it enables DHCP addresses to be served from the Private LAN pool.
Private LAN Enable	Default = CHECKED If this box is CHECKED, it enables the addresses from the Private