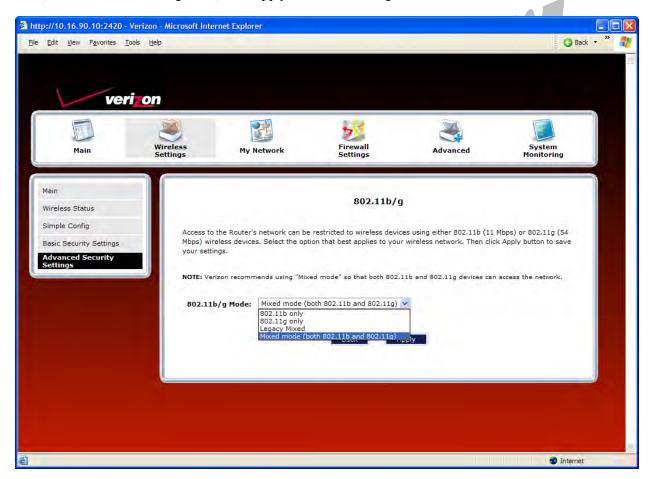


User Guide

# 13.4.4 802.11b/g Mode

If you select the **802.11b/g Mode** link in the **Advanced Security Settings** screen, the following screen will be displayed. This screen allows you to limit access to your Router based on technology type. From the drop-down menu, select the desired setting. Then, click **Apply** to allow the settings to take effect.



	11b only: Communication with VersaLink is limited to 802.11b
802.11b/g Mode	11g only: Communication with VersaLink is limited to 802.11g
802.110/g Mode	Legacy Mixed: Communication with VersaLink is limited to 802.11b/g
	Mixed mode: Computers using 802.11b or 802.11g technology can communicate with VersaLink.



### **13.4.5** Other Advanced Wireless Options

If you select the **Other Advanced Wireless Options** link in the **Advanced Security Settings** screen, the following screen will appear. From the drop-down menus, select the desired settings. Then, click **Apply** to allow the settings to take effect.

Main	Wireless Settings	My Network	Firewall Settings	Advanced	System Monitoring
ain ireless Status		,	Advanced Wireless Op	tions	
imple Config		Beacon Interval:	100 ms (range:1-6553)	5)	
asic Security Settings		DTIM Interval:	3 bytes (range:1-25	5)	
dvanced Security ettings		Fragmentation Threshold:	2346 bytes (range:256-2	2346)	
		RTS Threshold:	2347 bytes (range:0-234	17)	
		Supported Rates (Mbps) N - not supported Y - supported B - basic supported	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		

	Wireless Advanced Configuration
Beacon Interval	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.
DTIM Interval	The number of Beacon intervals between DTIM transmissions. Multicast and
	broadcast frames are delivered after every DTIM
Fragmentation Threshold	Any MSDU or MPDU larger than this value will be fragmented into an MPDU of
	the specified size.
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.
Supported Rates (Mbps)	These are the allowable communication rates that VersaLink will attempt to use.
802.11b Rates (Mbps)	The rates are also broadcast within the connection protocol as the rates supported
802.11g Rates (Mbps)	by VersaLink.

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### **14. MY NETWORK**

This section discusses details about your Router's network.

### 14.1 Network Status

To view your Router's network settings, from the top navigational menu, select **My Network**. Next, click **Network Status** in the submenu at the left of the screen. The following screen will appear. This screen displays information about the devices connected to your local area network (LAN).

	i on	My Netwo	5 Fire	yali Advanced	Svs	tem
Main	Settings	My Netwo	setti	ngs Advanced	Monit	toring
1	My N	letwork			Connected [	Devices
work Status	<b>2</b> (y)	Status: Connection type: V IP Address: 1 IP Address Source: D		Access Shared Files     View Device Details     Rename Device     Delete Device     Enable Application	w     Ethernet :       (ip)     Wireless :       1/2     USB :	1 device(s) 0 device(s)
	2.4	SALLE-XP3 Type: C Status: C Connection type: V	00:03:C9:4F:12:66 COMPUTER VILINE VIRED 92:168.1.42 DHCP	Access Shared Files     View Device Details     Rename Device     Delete Device     Enable Application	Disable Scar	nning

	My Network
Туре	The type of device connected to your network
Status	The connection status for the device.
Connection Type	The physical connection used to interface with your Router.
IP Address	The IP address assigned to your computer.
IP Address Source	The method by which your computer receives its IP address.
MAC Address	The Media Access Controller; the hardware address assigned to the deviced by the manufacturer.
Connected Devices	The interfaces used to connect to your Router to the computer. Ethernet: Displays the number of devices that are connected to the Router via Ethernet 10/100 BaseT connection. Wireless: Displays the number of devices that are connected to the Router wirelessly. USB: Displays the number of devices that are connected to the Router via USB connection. Note: If you have computers on your network that are not being displayed, check the firewall setting on the PCs to ensure that the firewall is disabled.



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### 14.1.1 Access Shared Files

In the **My Network** panel, click the **Access Shared Files** link to access files from a device on your local network. (The device from which you will access files must have file sharing enabled.) If the device has a firewall turned on, you will not be able to access shared files from the device.

Pile Edit View Pavorites Tools		
Network Tasks (*)	Fritters and Pases	
- 🧟 South Active Directory		
Other Places (A)		
Either Nation  M Computer  M Computer  M Documents  M Preters and Pairs		
Details (2)		

### 14.1.2 View Device Details

In the **My Network** panel, click the **View Device Details** link to view details about your device. After you have finished viewing this screen, click **Close** to return to the My Network page.

	3	2	*	3	
Main	Wireless Settings	Hy Network	Firewa	all Advanced	System Monitoring
	10				
e Details			Device	etailed breakdown for this device.	
		T	his screen provides a d		
			Device:	COMPUTER 2	
			Type:	COMPUTER	
			Statusi	ONLINE	
			Connection:	WIRELESS	
			1P Address Source:		
			IP Address:	192.160.1.10	
			UPnP Enabled:	No	
			MAC Address;	00:03:C9:4F:12:66	
			Windows Shared Folders:	\\COMPUTER 2	



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### 14.1.3 Rename Device

In the **My Network** panel, click the **Rename Device** link to rename a device on your network. In the following screen, type the desired name in the **New Name** box, and then (if desired) select an icon from the **New Icon** dropdown menu to assign a different icon to this device. Next, click the **Rename Device** button to allow the changes to take effect. Click **Back** to return to the **My Network** panel.

ve	ri <mark>,</mark> on				
Main	Wireless Settings	My Network	Firewall Settings	Advanced	System Monitoring
Main Rename Device		This Page allows you to chang	Rename Device,		your network
-		Current Device Name:	COMPUTER 2		
		To rename this do	svice, type the new Device	Name below and click App	ý.
		New Name:	COMPUTER 2		
		To assign a new device	type, select from the drop	p-down box below and click	Apply
		New Type and Icon:	COMPUTER ROUTER PRINTER NAS VOIP ADAPTER CAMERA MEDIA ADAPTER	cad	2

### 14.1.4 Delete Device

In the **My Network** panel, click the **Delete Device** link to remove a device from your network. Click the **Clear** button next to the device that you want to remove from your network, or click **Clear All** to remove all devices from your network.

http://10.16.90.10:2420 - Ele Edi Ven Favoriles 1		ernet Explorer			Q Back	- "
vei	i on					
Main	Wireless Settings	My Network	Firewall Settings	Advanced	System Honitoring	
Main Delete Device			Delete Device			
		Name / Default Name COMPUTER 2 / SALLE-XP2	Type / Default Type PC / PC	NAC Address 00:03:C9:4F:12:66	Action	
			Clear All			
					🐨 Internet	



User Guide

# 14.1.5 Enable Application

In the **My Network** panel, click the **Enable Application** link to set up applications for your service profile. This feature enables applications (Games, Webcams, IM & Others) by opening a tunnel between remote (Internet) computers and a specific device port inside your local area network (LAN). Details on this screen will be discussed later in section 15.3, "Port Forwarding."

Main	Wireless Settings	My Network	Firewall Settings	Advanced	System Monitoring
in			Port Forwardin	g	
eneral	This feature enab	oles applications(Games, W computers and a specifi	(ebcams, IM & Others) c device port inside xo	by opening a tunnel betw ur local area petwork(1.0)	veen remote(Internet)
rt Forwarding			e device port inside ye		49
12 Host mote Administration	Current Profile: D	)efault 😽	New Ed		
atic NAT			New 11 Lu		
curity Log	Name	Mode		Host Device	Action
	IPSEC ALG	Client	Dynamic		🚽 💂



User Guide

### **14.2 Network Connections**

To edit your connection settings, from the top navigational menu select **My Network**. Next, select **Network Connections** in the submenu options at the left of the screen; the following screen will be displayed. This screen allows you to access your Router's connection settings and your local area network (LAN) settings. The following sections discuss the details of this screen.

- To access the Router's Broadband connection settings, in the Network Connections screen click the Broadband Connection (DSL) link. The Basic DSL Configuration screen will appear. Refer to section 14.2.1 for details about this feature.
- To access the Router's LAN settings, in the Network Connections screen click the LAN link. The Private LAN screen will appear. Refer to section 16.18 for details about this feature.
- To access the Router's Wireless settings, in the Network Connections screen, click the Wireless Access Point link. Refer to section 13.3 for details about this feature.
- To access the Router's Uplink settings, in the Network Connections screen, click the VersaPort link. Refer to section 14.2.3 for details about this feature.

http://10.16.90.10:2420 - Ve	rizon - Microsoft Internet Exp	lorer		
<u>File Edit View Favorites Tool</u>	s <u>H</u> elp			🔇 Back 🔹 🦓
veri	on			
Main	Wireless Settings M	IV Network Setting:	Advanced	System Monitoring
Main Network Status <b>Network Connections</b>			c Connections	
		Name	Status DSL Connected	Action
	Broadband C	Connection (DSL)	DSL Connected	
	Wireless Acc		Enabled	
	VersaPort	less Point	Private Lan	
	Verservit			
and the second se				
<u>퇴</u>				Internet



User Guide

# 14.2.1 Basic DSL Configuration

If you clicked the **Broadband Connection (DSL)** link in the **Network Connections** screen, the following screen will appear. This screen displays the virtual connection (VC) settings and the account information needed to authenticate your Internet connection. A virtual connection identifies a connection through the service provider's ATM network to Verizon. Unlike physical hardware connections, virtual connections are defined by data. The VPI/VCI and account parameters are provided by Verizon.

**IMPORTANT:** You should not change the VPI/VCI settings unless instructed by Verizon.

If you change any settings in this screen, click **Apply** to allow the settings to take effect. To access the Advanced DSL Configuration screen, click the **Advanced** button.

ve	ri on		-	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Main	Wireless Settings	My Network	Firewall Settings	Advanced	System Monitoring
lain etwork Status			Basic DSL Confi	guration	
etwork Connections roadband Connection	-	pure the VC by your Internet service provi brk.	der, a VC (virtual connectio	on) identifies a connection thr	ough the service provider's
	VPI:	VCI:			
		your PPP User Name and F		our Totornat connection	
	Accourt	nt ID: username@	Dyourisp.net	] ]	
	Accour	nt Password:			

Basic DSL Configuration					
VPI	Displays the VPI (Virtual Path Indicator) value for a particular VC, which is defined by				
VPI Verizon.					
VCI	Displays the VCI (Virtual Channel Indicator) value for a particular VC, which is defined				
VCI	by Verizon.				
Account ID The account ID is provided by Verizon.					
Account Password The account password is provided by Verizon.					



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## 14.2.2 Advanced DSL Configuration

If you clicked **Advanced** in the preceding screen, the following **Advanced DSL Configuration** screen will appear. Depending on the connection settings you want to edit, you can:

- Click the Edit icon adjacent to My Connection to edit your connection profile settings.
- Click the New icon 🚟 (or click Add) to add a new connection profile.
- Click the Edit icon in the VCs section to edit your virtual connection (VC) settings.

#### 14.2.2.1 Editing VC Protocol Settings

The following sections discuss your virtual connection (VC) settings. A virtual connection (VC) identifies a connection through the service provider's ATM network to Verizon.

#### **IMPORTANT:**

- 1. The screens displayed in the following sections reflect the Router when it is configured for LAN Ethernet port mode, which is the Router's factory default setting. For details on configuring the Router's VC settings while in WAN Uplink port mode, refer to section 14.2.3, "Configuring VersaPort."
- 2. You should not change the VC settings unless instructed by Verizon.

If you change any settings in this screen, you must click **Apply** to allow the settings to take effect. To expand the VCs list, click the expand icon 🛨 located below **Status.** 

veri	on						
Main	Wireless Settings M	y Network		Firewall Settings		Advanced	System Monitoring
Main Network Status	PPP Connectio	n Profile	Adva	nced DS	SL Configurati	on	
Network Connections Broadband Connection	Connection	Name	Default (profile used auto connect	when	PPP Status	Action	Edit
	My Connection		R	U	p	0 disconnect	
	Add						<b>2</b>
	VCs						
	Statu	s	VPI	VC	I	Protocol	Edit
	Enabled	0	D	35	PPPoE		<b>-</b>
	Ð						
	Spanning Tree Pr	rotocol:					
			Apply	Can	cel Basic		



User Guide

VC Settings					
Status	Allows you to enable or disable your VC (Virtual Connection). This field must				
Status	display "Enable" in order to allow edits to the VC settings.				
VPI	Displays the VPI (Virtual Path Indicator) value for a particular VC, which is				
VII	defined by your Service Provider.				
VCI	Displays the VCI (Virtual Channel Indicator) value for a particular VC, which				
	is defined by your Service Provider.				
Protocol	Displays the Protocol for each VC, which is specified by your Service				
	Provider.				
	Possible Responses:				
NOTE: The configuration	PPPoA = Point to Point Protocol over ATM (Asynchronous Transfer Mode)				
specified by your Service	PPPoE = Point to Point Protocol over Ethernet				
Provider will determine which	Bridge = Bridge Protocol				
Protocols are available to you.	Classical IPoA = Internet Protocol over ATM (Asynchronous Transfer Mode).				
	This is an ATM encapsulation of the IP protocol.				
Bridge Broadcast	Factory Default = Enabled (box contains a check mark)				
	When this setting is enabled, the Router will allow Broadcast IP packets				
	to/from the WAN.				
	When this setting is disabled (box is cleared), the Router will block Broadcast				
	IP packets to/from the WAN.				
	Bridge Broadcast is only valid if one of the Virtual Channels is configured for				
Drides M. Wiesd	Bridge mode. Factory Default = Enabled				
Bridge Multicast					
	When this setting is disabled, the Router will block Multicast IP packets to/from the WAN.				
	When this setting is enabled, the Router will allow Multicast IP packets				
	to/from the WAN.				
	Bridge Multicast is only valid if one of the Virtual Channels is configured for				
	Bridge mode.				
Spanning Tree Protocol	Factory Default = Disabled				
spanning free frotocol	Spanning Tree Protocol is a link management protocol that provides path				
	redundancy while preventing undesirable loops in the network. For Ethernet				
	network to function properly, only one active path can exist between two				
	stations.				
	When enabled, two bridges are used to interconnect the same two computer				
	network segments. Spanning Tree Protocol will allow the bridges to exchange				
	information so that only one of them will handle a given message that is being				
	sent between two computers within the network.				



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If you clicked the expand icon in the preceding screen, the following screen will appear. When you are ready to collapse the VCs list, click the collapse icon  $\Box$ .

#### NOTE:

1. A VC's Status field must display Enabled before you can edit its VC settings.

2. The actual values displayed in the following screen may vary, depending on the network connection established. If you have questions about the settings in this screen, please contact Verizon.

To edit a VC setting, click the edit icon adjacent to the "Enabled" VC protocol that you want to edit.

		ž.	Firew	all		<u>.</u>	System
Main	Settings My	Vetwork	Settin	gs	Adv	anced	Monitoring
rork Status rork Connections	PPP Connection I Connection N	Profile Ame [	Advanced Default	DSL Conf PPP St		Action	Edit
adband Connection			connecting)			_	
	My Connection		M	Up		0 disconnect	<b></b>
	Add						
	VCs						
	Status	v	PI	VCI	Pro	tocol	Edit
	Enabled	0	35	P	PPOE		<b>.</b>
	Disabled	Ō	36	e	Bridge		<b>9</b>
	Disabled	D	37	E	Bridge		<b>.</b>
	Disabled	Ó	38	e	Bridge		<b>B</b>
	Disabled	O	39	E	Bridge		<b>a</b>
	Disabled	Ō	40	е	Bridge		
	Disabled	0	41	E	Bridge		<b>a</b>
	Disabled	Ō	42	E	Bridge		<b></b>
	<b>E</b>						
	Spanning Tree Prot	ocol:					



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The following table explains the settings in the VC 1 Configuration screen. If you change any VC settings in this screen, click Apply to save the settings.

**NOTE:** If you experience problems, reset the Router via the hardware reset button at the rear of the Router. Or follow the instructions in section 16.2, "Restore Defaults," to restore the Router to factory default settings. After the Router has been reset, the values in the screens will display the factory default settings, and any settings that you have previously configured will be discarded.

	1.1/htmlV/net_edit_vc.asp?vc=	=0&showVcs=8&curVPI=0&curVCI=35&cu	rPCR = 100&curQOS = ubr_pcr8	ScurProtocol=PPPoE	V 😽 🗙 Live Search	
6 Verizon						Hor
1						
ve	ri <mark>on</mark>					
Main	Wireless	My Network	Firewall Settings	Advanced	System Monitoring	
	Settings		Settings		Monitoring	
ain						
roadband Connection	n		VC 1 Configurat	ion		
		VC Status:	Enabled			
		VPI:	0			
		VCI:	35			
		PCR:	100			
		QoS:	UBR 💌			
		Protocol:	PPPoE 💌			
		Secondary Wan:	Disabled			
		PPPoE Settings				
		DNS Primary:				
		DNS Secondary:				
		MRU Negotiation:	Enabled			
		LCP Echo:	Enabled			
		LCP Echo Failures:	6 (1-30)			
		LCP Echo Duration:	60 (5-300)			
		LCP Echo Retry Duration:	10 (5-300)			
		Tunneling:	Enabled			
			Apply Canc	el		

VC 1 Configuration						
VPI	This field allows you to change your VPI (Virtual Path Indicator) value for a					
	particular VC, which is defined by your Service Provider.					
VCI This field allows you to change your VCI (Virtual Channel Indicator) value for a						
	particular VC, which is defined by your Service Provider.					
PCR	Factory Default = 100%					
	Peak Cell Rate (PCR)-The maximum rate at which cells can be transmitted across a					
	virtual circuit, specified in cells per second and defined by the interval between the					
	transmission of the last bit of one cell and the first bit of the next.					
	This value is a percentage of the current data rate.					
	100 allows this VC to use 100% of the available bandwidth.					
	80 allows this VC to use 80% of the available bandwidth.					



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QoS	Quality of Service, which is determined by your Service Provider.			
-	Possible Responses:			
	CBR = Constant Bit Rate			
	UBR = Unspecified Bit Rate			
	VBR = Variable Bit Rate			
Protocol	The Protocol for each VC, which is specified by your Service Provider.			
	Possible Responses:			
	PPPoA = Point to Point Protocol over ATM (Asynchronous Transfer Mode)			
	PPPoE = Point to Point Protocol over Ethernet			
	Bridge = Bridge Protocol			
	Classical IPoA = Internet Protocol over ATM (Asynchronous Transfer Mode). This	3		
	is an ATM encapsulation of the IP protocol.			
Status The protocol status.				
	PPPoE / PPPoA Settings			
IP Address	Displays the IP network address that your Router is on.			
Gateway	Displays the Router's IP address			
DNS Primary	Provided by Verizon			
DNS Secondary	Provided by Verizon			
MRU Negotiation	Factory Default = Disabled			
	If Enabled, the Maximum Received Unit (MRU) would enforce MRU negotiations.			
	Note: Enable this option only at your Internets provider's request.			
LCP Echo Disable	Factory Default = Disabled			
	If checked, this option will disable the modem LCP Echo transmissions.			
LCP Echo Failures	Indicates number of continuous LCP echo non-responses received before the PPP			
	session is terminated.			
LCP Echo Duration	The interval between LCP Echo transmissions with responses.			
LCP Echo Retry Duration	The interval between LCP Echo after no response.			
Tunneling	Factory Default = Enable			
	If Enabled, this option allows PPP traffic to be bridged to the WAN. This feature			
	allows you to use a PPPoE shim on the host computer to connect to the Internet			
	Service Provider, by bypassing the Router's capability to do this.			
	Note: Tunneling is available in PPPoE mode only.			
Note: The values for the IP	Address, Gateway, DNS Primary, and DNS Secondary are all "Override of the value	)		
	nection," They default to "0.0.0.0," in which case the override is ignored. It is			
	ot change the values unless your Internet service provider instructs you to do so.			



### 14.2.2.2 Configuring the Router's Protocol Settings for PPPoE or PPPoA

To configure the Router's protocol settings for PPPoE or PPPoA, access to the VC 1 Configuration screen, as explained earlier in section 14.2.2.1 "Editing VC Protocol Settings." At the VC 1 Configuration screen, select PPPoE or PPPoA from the Protocol drop-down menu.

	Explorer						
+ Image: Arrow of the image is a state of the image	/htmlV/net_edit_vc.asp?vc=	=0&showVcs=8&curVPI=0&curVCI=35&cur	PCR = 100&curQOS = ubr_pcr8	kcurProtocol=PPPoE	¥ + ×	ive Search	
Verizon							Home
veri						-	
		22	53				
Main	Wireless	My Network	Firewall	Advanced	System Monitoring		
	Settings		Settings		Monitoring		
Main Broadband Connection			VC 1 Configurat	on			
Broadband Connection		VC Status:	Enabled				
		VPI:	0				
		VCI:	35				
		PCR:	100				
		QoS:	UBR 💌				
		Protocol:	PPPoE 🗸				
		Secondary Wan:	PPPoE PPPoA led				
			Bridge				
		PPPoE Settings					
		DNS Primary:					
		DNS Secondary: MRU Negotiation:					
		LCP Echo:	Enabled Enabled				
		LCP Echo Failures:	6 (1-30)				
		LCP Echo Duration:	60 (5-300)				
		LCP Echo Retry Duration:	10 (5-300)				
		Tunneling:	Enabled				



For example, the following VC 1 Configuration screen displays **PPPoA** as the selected Protocol. The PPPoA and PPPoE screens have identical configuration options with the exception of the Tunneling feature. Tunneling is available only for PPPoE protocol and is not displayed when the Router is configured for PPPoA protocol. After you have made the appropriate changes to VC 1 Configuration screen, click Apply to continue.

Verizon - Windows Interne	et Explorer					
<ul> <li>http://192.168.</li> </ul>	1.1/htmlV/net_edit_vc.asp?vc=0	0&showVcs=8&curVPI=0&curVCI=35&cur	PCR=100&curQOS=ubr_pcr&c	urProtocol=PPPoATM	Y 4 X Live S	earch 🖉
🕸 🌈 Verizon						🚹 Home 👻
Ve	rizon					
		21				
Main	Wireless Settings	My Network	Firewall Settings	Advanced	System Monitoring	
	Settings		Settings		Interning	
Main						
Broadband Connectio	0		VC 1 Configuratio	n		
broadballd connectio		VC Status:	Enabled			
		VPI:	0			
		VCI:	35			
		PCR:	100			
		QoS:	UBR V			
		Protocol:	PPPoA V			
		PPPoATM Settings				
		DNS Primary:				
		DNS Secondary:				
		MRU Negotiation:	Enabled			
		LCP Echo:	Enabled			
		LCP Echo Failures:	6 (1-30)			
		LCP Echo Duration:	60 (5-300)			
		LCP Echo Retry Duration:	10 (5-300)			
			Apply Cancel			



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#### 14.2.2.3 Configuring the Router's Protocol Settings for Bridge

To configure the Router's protocol settings for Bridge, access the VC 1 Configuration screen, as explained earlier in section 14.2.2.1, "Editing VC Protocol Settings."

To configure the Router's Bridge settings, follow these steps at the VC 1 Configuration screen:

- 1. Select **Bridge** in the **Protocol** drop-down menu.
- 2. Select the desired Bridge mode from **Bridge Mode** drop-down menu.
- 3. Enter the desired values in the fields provided (if requested).
- 4. Click **Apply** to save your settings.
- 5. Click **OK** in the pop-up screen to reset the Router.

For example, at the VC 1 Configuration screen, select Bridge from the Protocol drop-down menu.

.

Verizon - Windows Inter	net Explorer					
🗸 🗸 🖉 http://192.16	58.1.1/htmlV/net_edit_vc.asp?vc=	0&showVcs=8&curVPI=0&curVCI=35&cu	rPCR=100&curQOS=ubr_pcr&	curProtocol=PPPoATM	🖌 🛃 🗙 Live	Search
🕸 🌈 Verizon						Home
Ve	erizon					
		22	55			
Main	Wireless	My Network	Firewall	Advanced	System Monitoring	
	Settings	iny network	Settings	Advanced	Monitoring	
Main			VC 1 Configurati	on		
Broadband Connecti	ion					
		VC Status:	Enabled			
		VPI:	0			
		VCI:	35			
		PCR:	100			
		QoS:	UBR 💌			
		Protocol:	PPPoA V			
			PPPoE PPPoA Bridge			
		PPPoATM Settings	bridge			
		DNS Primary:				
		DNS Secondary:				
		MRU Negotiation:	Enabled			
		LCP Echo:	Enabled			
		LCP Echo Failures:	6 (1-30)			
		LCP Echo Duration:	60 (5-300)			
		LCP Echo Retry Duration:	10 (5-300)			
			Apply Cance	el		



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🦉 Verizon - Windows Intern	et Explorer					
🕞 🕞 👻 🙋 http://192.168.	.1.1/htmlV/net_edit_vc.asp?vc=	0&showVcs=8&curVPI=0&cur	VCI=35&curPCR=100&curQOS=ubr	_pcr&curProtocol=Bridge	🖌 🛃 🗶 Live Sea	rdh 🖉 🗸
🖌 🕸 🌈 Verizon						Home 👻 🛪
						~
Ve	ri <mark>zon</mark>					
		22				
	Wireless			*	System	
Main	Wireless Settings	My Network	Firewall Settings	Advanced	System Monitoring	
Main			VC 1 Configu	ration		
Broadband Connectio	n					
E.		VC Status:	Enabled			
		VPI:	0			
		VCI:	35			
		PCR:	100			
		QoS:	UBR 💌			
		Protocol:	Bridge 🔽			
		Bridge Mode:	Bridge			
			Bridge Routed Bridge			
			Apply	Cancel		
	· · · ·					

The following screen will appear. Bridge settings are described in the following table.

Protocol	Mode	Description
	Bridge	A bridge is a layer 2 device that connects two segments of the same LAN that use the same protocol such as Ethernet. The modem does not have a WAN IP address in this mode. The client PC will typically get an IP address from a DHCP server in the network or the IP address can be assigned to the client PC statically.
Bridge	Routed Bridge	Routed Bridged Encapsulation (RBE) is the process by which a bridged segment is terminated on a routed interface. Specifically, the Router is routing on an IEEE 802.3 or Ethernet header carried over RFC 1483 bridged ATM. RBE was developed to address the known RFC1483 bridging issues, including broadcast storms and security. The modem will get a WAN IP address through DHCP or can be assigned statically. NAT will use the global address assigned to the modem.



User Guide

C Veriza	on - Windows Intern	net Explorer					
00	▼ 2 http://192.168	3.1.1/htmlV/net_edit_vc.asp?vc=	0&showVcs=8&curVPI=0&curV	/CI=35&curPCR=100&curQOS=ubr	_pcr&curProtocol=Bridge	✓ 4+ × □	ve Search
* *	6 Verizon						🔓 Home 👻
		erizon					
	Ve						
			22				
		Wireless				System	
	Main	Settings	My Network	Firewall Settings	Advanced	System Monitoring	
Ma	in			VC 1 Configu	ration		
Br	oadband Connectio	on					
-			VC Status:	Enabled			
			VPI:	0			
			VCI:	35			
			PCR:	100			
			QoS:	UBR 💌			
			Protocol:	Bridge 🗸			
			Bridge Mode:	Bridge			
				Bridge Routed Bridge			
					Cancel		
							<b>y</b>

Next, select the desired Bridge mode from **Bridge Mode** drop-down menu.



User Guide

	VC 1 – Br	idge Protocol (Bridge Mode)			
VC Status	The protocol status	is Enabled.			
VPI	This setting allows	you to change your VPI (Virtual Path Indicator) value for a			
	particular VC, which	h is defined by your Service Provider.			
VCI	This setting allows	you to change your VCI (Virtual Channel Indicator) value for a			
		h is defined by your Service Provider.			
PCR	Factory Default = 1				
		R)-The maximum rate at which cells can be transmitted across a			
		fied in cells per second and defined by the interval between the			
	transmission of the last bit of one cell and the first bit of the next.				
	This value is a percentage of the current data rate.				
		to use 100% of the available bandwidth.			
		b use 80% of the available bandwidth.			
QoS		which is determined by your Service Provider.			
	Possible Responses:				
	CBR = Constant Bit				
	UBR = Unspecified				
Protocol	VBR = Variable Bit Rate The Protocol for each VC, which is specified by your Service Provider.				
PIOLOCOI	Possible Responses:				
		oint Protocol over ATM (Asynchronous Transfer Mode)			
		bint Protocol over Ethernet			
	Bridge = Bridge Pro				
	Bliage Bliage Inc				
		A bridge is a layer 2 device that connects two segments of the			
		same LAN that use the same protocol such as Ethernet. The modem does not have a WAN IP address in this mode. The client			
	Bridge	PC will typically get an IP address from a DHCP server in the			
		network or the IP address can be assigned to the client PC			
		statically.			
Bridge Mode		Routed Bridged Encapsulation (RBE) is the process by which a			
		bridged segment is terminated on a routed interface. Specifically,			
		the Router is routing on an IEEE 802.3 or Ethernet header carried			
	Routed Bridge	over RFC 1483 bridged ATM. RBE was developed to address the			
	Routed Bridge	known RFC1483 bridging issues, including broadcast storms and			
		security. The modem will get a WAN IP address through DHCP			
		or can be assigned statically. NAT will use the global address			
		assigned to the modem.			



If you select **Bridge** as the Protocol, and then select **Bridge** from the **Bridge Mode** drop-down menu, the following screen will appear. Click **Apply** to save your selection.

**IMPORTANT:** If you configure the Router to use Bridge protocol and Bridge Mode, you must disable the Router's DHCP server. By disabling the DHCP server and using Bridge protocol (Bridge mode), you will allow the computer to receive its IP address directly from the ISP's DHCP server, not from the Router's DHCP server. For instructions on disabling the Router's DHCP server, see section 16.17, "IP Address Distribution." **After you have disabled the Router's DHCP server, you must reboot the computer to allow the change to take effect.** 

rizon - Windows Interne	t Explorer					
🔊 - 🙋 http://192.168.1	1.1/htmlV/net_edit_vc.asp?vc=	0&showVcs=8&curVPI=0&cur1	/CI=35&curPCR=100&curQOS=ub	r_pcr&curProtocol=Bridge	V 4 X Live S	earch
Verizon						
Ve	ri <mark>zo</mark> n					
		21	53			
	Wireless	Longer .		- He	System	
Main	Settings	My Network	Firewall Settings	Advanced	System Monitoring	
					a.	
Main			VC 1 Configu	ration		
Broadband Connectior	1		ve i comg			
		VC Status:	Enabled			
		VPI:	0			
		VCI:	35			
		PCR:	100			
		QoS:	UBR 🗸			
		Protocol:	Bridge 💙			
		Bridge Mode:	Bridge V			
		bridge Hoder	Londgo Le			
			Apply	Cancel		



User Guide

If you select **Bridge** as the Protocol, and then select **Routed Bridge** from the **Bridge Mode** drop-down menu, the following screen will appear. Enter the desired values in the fields provided, and then click **Apply**.

	Verizon - Windows Intern	et Explorer					
Winderson       Winderson         Hain       Winderson         Winderson       Firewall         Settings       Advanced         System       System         Momentary       VC 1 Configuration         VC Status:       Enabled         VC1:       0         VC1:       0         QcS:       UBR         Protocol:       Enabled         Protocol:       Enabled         Obtain addresses automatically (enable DHCP Client)       IP         IP Address       0000         Subnet:       25525525         Subnet:       25525525         DNS Secondary:       10.16162	> http://192.168.	.1.1/htmlV/net_edit_vc.asp?vc=	0&showVcs=8&curVPI=0&curVC	I=35&curPCR=100&curQOS=ubr	_pcr&curProtocol=RoutedBridge	🖌 🛃 🗶 Live Sea	
Image       Image <th< th=""><th>🖌 🏘 🏀 Verizon</th><th></th><th></th><th></th><th></th><th></th><th>🚹 Home 👻</th></th<>	🖌 🏘 🏀 Verizon						🚹 Home 👻
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Main     Wireless     Hy Network     Firewall Settings     Advanced     System Monitoring		50)	51	ar 🔺 🗆	0		
Main       VC 1 Configuration         Wroadband Connection       VC Status: Y Enabled         VC1:       5         PCR:       100         QoS:       UBR W         Protocol:       Brdge W         Bridge Mode:       Routed Brdge W         Dtain addresses automatically (enable DHCP Client)       @ Use the following static addresses (disable DHCP Client)         IP Address       0000         Subnet       255255255         Gateway       0000         DNS Secondary:       1016.162	ELE	2	21	<b>5</b> 5			
Wain       C 1 Configuration         Broadband Connection       VC Status: Penabled         VPI:       0         VCI:       35         PCR:       100         QoS:       UBR          Protocol:       Brdge          Bridge Mode:       Routed Brdge          Dottain addresses automatically (enable DHCP Client)       © Use the following static addresses (disable DHCP Client)         © Use the following static addresses (disable DHCP Client)       © Use the following static addresses (disable DHCP Client)         DNS Brimary:       10.16.16.8       DNS Secondary:	Main	Wireless Settings	My Network	Firewall Settings	Advanced	System Monitoring	
Proadband Connection     VC Status:     C Status:     C Status:     C Status:     C Status:     C Status:     VC:     VC:   I:   I:   I:   I:    I:   I:    I:   I:   I:   VC:   I:   I:   I:   I:   I:   I:    I:    I:   I:    I:    I:    I:   I:   I:   I:   I:   I:   <	e						
VC Status:     VCI:   0   VCI:   35   PCR:   100   QoS:   UBR   Protocol:   Brdge   Bridge Mode:   Routed Bridge Settings   O Obtain addresses automatically (enable DHCP Client)   Ø Use the following static addresses (disable DHCP Client)   IP Address   0.0.0   Subnet   255 255 255 255   Gateway   0.0.0   DNS Primary:   10.16.16.8   DNS Secondary:   10.16.16.2	Main			VC 1 Configu	ration		
VPI: □ VCI: 35 PCR: 100 QoS: UBR ♥ Protocol: Bridge ♥ Bridge Mode: Routed Bridge ♥ Bridge Mode: Routed Bridge ♥ Bridge VOLCP Client) ○ Use the following static addresses (disable DHCP Client) □ Use the following static addresses (disable DHCP Client) IP Address Subnet 255 255 255 Gateway 00.00 DNS Primary: 10.16.162 DNS Secondary: 10.16.162	Broadband Connectio	n		VC 1 Conngu	Tation		
VCI: 35 PCR: 100 QoS: UBR ♥ Protocol: Bridge ♥ Bridge Mode: Routed Bridge ♥ <b>Routed Bridge Settings</b> Obtain addresses automatically (enable DHCP Client) Ø Use the following static addresses (disable DHCP Client) IP Address 0.0.00 Subnet 255 255 5 Gateway 0.0.0 DNS Primary: 10.16.16.8 DNS Secondary: 10.16.16.2			VC Status:	Enabled			
PCR: 100 QoS: UBR M Protocol: Bidge M Bridge Mode: Routed Bridge M Cobtain addresses automatically (enable DHCP Client) Obtain addresses (disable DHCP Client) Use the following static addresses (disable DHCP Client) IP Address 0.0.00 Subnet 255 255 255 Gateway 0.0.00 DNS Primary: 10.16.16.8 DNS Secondary: 10.16.16.2			VPI:	0			
QoS: UBR   Protocol: Bidge   Bridge Mode: Routed Bridge   Routed Bridge Settings   Obtain addresses automatically (enable DHCP Client)   © Use the following static addresses (disable DHCP Client)   IP Address 0.0.0   Subnet 25525555   Gateway 0.0.0   DNS Primary: 10.16.16.8   DNS Secondary: 10.16.16.2			VCI:	35			
Protocol: Bridge V Bridge Mode: Routed Bridge V Routed Bridge Settings Obtain addresses automatically (enable DHCP Client) © Use the following static addresses (disable DHCP Client) IP Address 00.00 Subnet 255.255.255 Gateway 00.00 DNS Primary: 10.16.16.8 DNS Secondary: 10.16.16.2			PCR:	100			
Bridge Mode: Fouled Bridge ▼ Routed Bridge Settings ○ Obtain addresses automatically (enable DHCP Client) ④ Use the following static addresses (disable DHCP Client) IP Address 00.00 Subnet 255.255.255.5 Gateway 00.00 DNS Primary: 10.16.16.8 DNS Secondary: 10.16.16.2			QoS:	UBR 💌			
Routed Bridge Settings         Obtain addresses automatically (enable DHCP Client)         Ouse the following static addresses (disable DHCP Client)         IP Address       00.00         Subnet       255.255.255.255         Gateway       00.00         DNS Primary:       10.16.16.8         DNS Secondary:       10.16.16.2			Protocol:	Bridge 🗸			
Obtain addresses automatically (enable DHCP Client)         IP Address       00.0         Subnet       255 255 255         Gateway       00.0         DNS Primary:       10.16.16.8         DNS Secondary:       10.16.16.2			Bridge Mode:	Routed Bridge 💌			
Obtain addresses automatically (enable DHCP Client)IP AddresseIP Addresse0.0.0Subnet285 255 255Gateway0.0.0DNS Primary:10.16.16.2							
O Use the following static addresses (disable DHCP Client)IP Address0.0.0Subnet255 255 255Gateway0.0.0DNS Primary:10.16.16.8DNS Secondary:10.16.16.2							
IP Address     0.0.0       Subnet     255.255.255       Gateway     0.0.0       DNS Primary:     10.16.16.8       DNS Secondary:     10.16.16.2							
Subnet         255 255 255 255           Gateway         0.0.0           DNS Primary:         10.16 16.8           DNS Secondary:         10.16.16.2					ince cliency		
Gateway         0.0.0           DNS Primary:         10.16.16.8           DNS Secondary:         10.16.16.2							
DNS Primary: 10.16.16.8 DNS Secondary: 10.16.16.2							
DNS Secondary: 10.16.16.2							
Apply Cancel			DNS Secondary:	10.10.10.2			
Apply Cancel							
				Apply C	Jancel		

	VC 1 – Bridge Protocol (Routed Bridge Mode)			
DHCP Client	Allows you to either Enable or Disable the DHCP Client.			
	Select (enable DHCP Client) to obtain IP address automatically.			
	Select (disable DHCP Client) to use the static IP address that you enter into fields provided.			
IP Address	The IP network address that your Router is on.			
Subnet Mask	The subnet mask, which determines if an IP address belongs to your local network.			
Gateway	The Router's IP gateway address.			
DNS Primary	This value is provided by Verizon.			
DNS Secondary	This value is provided by Verizon.			



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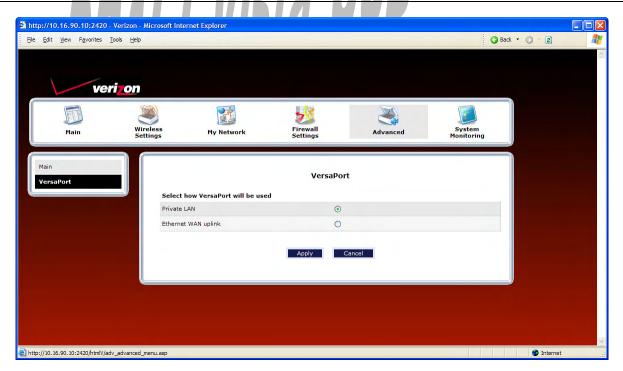
### 14.2.3 Configuring VersaPort (Ethernet WAN Uplink)

If you clicked the **VersaPort** link in the **Network Connections** screen, the following screen will appear. This screen allows you to select how the UPLINK/E1 port on the rear of the Router will be used.

Select one of the following options:

- **Private LAN:** This mode allows you to use the Router's DSL port for WAN access (the Router's DSL functionality is enabled).
- Ethernet WAN Uplink. This mode allows you to use the Router as an Ethernet Gateway (for example, connecting to a cable modem or to another ADSL device that provides WAN access). In WAN Uplink mode, the Router's DSL functionality is disabled.

**NOTE:** The menu options displayed will vary according to the configuration you have chosen to use, LAN Ethernet port or WAN Uplink port. If you are using WAN Uplink port, some menu options will not be available. However, all menu options will be available when the Router is enabled for LAN Ethernet port. Instructions on enabling and disabling LAN Ethernet port and WAN Uplink port are explained in the following sections. This document was created with the Router configured for LAN Ethernet port.





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VersaLink Wireless Gateway (Model 7500)

#### 14.2.3.1 Enabling Private LAN—Disabling Ethernet WAN Uplink

If you selected **Private LAN** in the **VersaPort** screen, this will enable the Router's DSL transceiver, and the Router will use its DSL port as the WAN interface. This configuration will disable the WAN Uplink port (**UPLINK/E1** on the rear of the Router).

- When **Private LAN** is selected, the **DSL** port on the rear of the Router is enabled and is the WAN interface to the Internet.
- When Ethernet WAN Uplink is selected, the UPLINK/E1 port on the rear of the Router is enabled and is the WAN uplink to another ADSL device through which you will make your Internet connection.

Remember, you must click **Apply** to allow the settings to take effect in the Router.

#### NOTE:

- 1. When using the optional UPLINK/E1 port, Ethernet LAN connection is limited to E2, E3, and E4. The WAN Uplink feature is optional and, if it is disabled, the Router will use DSL only as the WAN interface.
- 2. Some menu options are unavailable when the Router is configured for **WAN Uplink port.** However, all of the Router's menu options are displayed when the Router is configured for **LAN Ethernet port**.
- 3. The Router's factory default setting is Private LAN.
- 4. If WAN Uplink is not enabled in the .ini file, the Router will use DSL only as the WAN interface.

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veri	on						
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	Etherne	t WAN uplink	0				
			Apply	Cancel			
🕘 http://10.16.90.10:2420/htmlV/adv_ad	dvanced_menu.asp					Internet	<u>×</u>



User Guide

VersaLink Wireless Gateway (Model 7500)

#### 14.2.3.2 Enabling Ethernet WAN Uplink—Disabling Private LAN

If you selected **Ethernet WAN Uplink** in the **VersaPort** screen, this will disable the Router's DSL transceiver and the DSL port. This configuration allows the port labeled **UPLINK/E1** on the rear of the Router to become the WAN interface port. Then, you can use **UPLINK/E1** to uplink to another ADSL device, through which you can connect to the Internet.

- When **Private LAN** is selected, the **DSL** port on the rear of the Router is enabled and is the WAN interface to the Internet.
- When Ethernet WAN Uplink is selected, the UPLINK/E1 port on the rear of the Router is enabled and is the WAN uplink to another ADSL device through which you will make your Internet connection.

Remember, you must click Apply to allow the settings to take effect in the Router.

#### NOTE:

- 1. When using the optional UPLINK/E1 port, Ethernet LAN connection is limited to E2, E3, and E4. The UPLINK feature is optional and, if it is disabled, the Router will use DSL only as the WAN interface.
- 2. All of the Router's menu options are displayed when the Router is configured for LAN Ethernet port. However, some menu options are unavailable when the Router is configured for WAN Uplink port. The sections explained throughout this document will indicate when a menu item is unavailable.
- 3. The Router's factory default setting is Private LAN.
- 4. If UPLINK is not enabled in the .ini file, the Router will use DSL only.

If you selected **Ethernet WAN Uplink**, the following screen will be displayed. Proceed to the next section for instructions on editing the Ethernet WAN Uplink settings.

ve	rizon					
Main	Wireless Settings	My Network	Firewall Settings	Advanced	System Monitoring	
Main VersaPort			VersaPort	t		
	Select I	now VersaPort will be use	d			
	Private L		0			
	Ethernet	WAN uplink	۲			
	Etherne	t WAN uplink Settings				
	Protocol		PPPo	E ¥		
	Tunnelin	9	⊙ Er	able 🔿 Disable		
	Seconda	ry WAN	OEr	able 💿 Disable		
			Apply C	ancel		



#### 14.2.3.3 Editing the VC Protocol Settings for Ethernet WAN Uplink

**NOTE:** The instructions in this section refer to the Router configured for **Ethernet WAN Uplink** mode. Be sure that you have selected **Ethernet WAN Uplink** in the **VersaPort** screen.

#### 14.2.3.3.1 Configuring the WAN Uplink Protocol Settings for PPPoE

After you have selected **Ethernet WAN Uplink**, in the preceding steps, select the desired protocol from the **Protocol** drop-down menu. If you select PPPoE, the following screen will appear. Select the desired options, and then click **Apply** to save the settings.

#### NOTE:

- 1. If you experience any problems, reset the Router by pressing the reset button on the rear of the Router. Or follow the instructions in section 16.2, "Restore Defaults," to restore the Router to factory default settings. The actual information displayed in this screen may vary, depending on network connection established.
- 2. PPPoE is the factory default setting for Ethernet WAN Uplink.

ve	rizon					
Main	Wireless Settings	My Network	Firewall Settings	Advanced	System Monitoring	
Main VersaPort			VersaPort			
	Sele	ct how VersaPort will be use	d			
	Priva	te LAN	0			
	Ether	met WAN uplink	۲			
	Ethe	rnet WAN uplink Settings				
	Proto	col	PPPol	<b>~</b>		
	Tunn	eling	⊙ En	able 🔿 Disable		
	Seco	ndary WAN	OEn	able 🖲 Disable		
			Apply Ca	ancel		

ι	Uplink Settings for Ethernet WAN Uplink (PPPoE protocol)			
Tunneling	Factory Default = Enable			
	If Enabled, this option allows PPP traffic to be bridged to the WAN. This feature			
	allows you to use a PPPoE shim on the host computer to connect to the Internet			
	Service Provider, by bypassing the Router's capability to do this. Factory default is			
	"Enable."			
Secondary WAN	Factory Default = Disable			
	The secondary WAN interface is used for multicast traffic. This feature applies only			
	when you are using PPPoE as the Primary WAN protocol.			

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#### 14.2.3.3.2 Configuring the Ethernet WAN Uplink Protocol Settings for Routed IP

If you select **Routed IP** from the **Protocol** drop-down menu, the following screen will appear. Enter the desired options, and then click **Apply** to save the settings.

NOTE:
1. If you experience any problems, reset the Router by pressing the reset button on the rear of the Router. Or follow the instructions in section 16.2, "Restore Defaults," to restore the Router to factory default settings. The actual information displayed in this screen may vary, depending on network connection established.
2. PPPoE is the factory default setting for Ethernet WAN Uplink.

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ver	izon				
Main	Wireless Settings My Network	Firewall Settings	Advanced	System Monitoring	
ain ersaPort	Select how VersaPort will be used	VersaPoi	t		
	Private LAN	0			
	Ethernet WAN uplink	•			
	Ethernet WAN uplink Settings				
	Protocol	Rou	ted IP 💌		
	Routed IP Settings				
	Tunneling	• E	nable 🔿 Disable		
	Obtain addresses automatically (enable DH	CP Client) 💿			
	Use the following static addresses (disable	DHCP Client)			
	IP Address	0.0.0	.0		
	Subnet	255.	255.255.255		
	Gateway	0.0.0	.0		
	DNS Primary				
	DNS Secondary				
		Apply	Cancel		
					🔮 Internet



	Uplink Settings for Ethernet WAN Uplink (Routed IP protocol)
Tunneling	Factory Default = Enable If Enabled, this option allows PPP traffic to be bridged to the WAN. This feature
	allows you to use a PPPoE shim on the host computer to connect to the Internet
	Service Provider, by bypassing the Router's capability to do this.
DHCP Client	Selecting a option allows you to either Enable or Disable the DHCP Client.
	Click the top option labeled (enable DHCP Client) to allow the Router to obtain an IP
	address automatically from your service provider.
	Click the bottom option labeled (disable DHCP Client) to allow the Router to accept
	static IP address information. Then, manually enter the IP values into the fields. Obtain
	these values from Verizon.
IP Address	The IP network address that your Router is on.
Subnet	The IP subnet address that your Router is on.
Gateway	The Router's IP gateway address.
DNS Primary	Provided by Verizon.
DNS Secondary	Provided by Verizon.
Note: The values for the	IP Address Gateway DNS Primary and DNS Secondary are all "Override of the value

Note: The values for the IP Address, Gateway, DNS Primary, and DNS Secondary are all "Override of the value obtained from the PPP connection," They default to "0.0.0.0," in which case the override is ignored. It is recommended that you do not change the values unless Verizon instructs you to do so.

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### **15. FIREWALL SETTINGS**

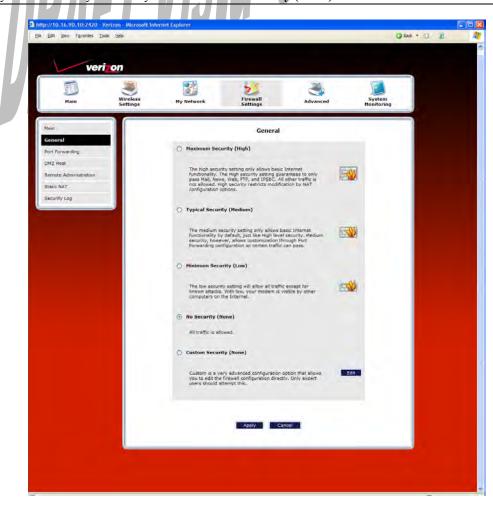
### **15.1 General Firewall Security Settings**

This section explains how to configure your Router's firewall security features. The Router's firewall security settings allow you reduce the risk of unauthorized access to your network by prohibiting certain types of inbound and outbound network traffic and by allowing you to configure specific firewall rules.

**IMPORTANT:** If you need help, click **Main** in the top navigational menu to go to the home page. In the **Quick Links** section of the home page, click **Verizon Help**. Clicking this link takes you to Verizon's OnLine Help site, where you can access additional information about your DSL Router.

To change your firewall security level, click the option next to the desired security setting. Next, click **Apply** to allow the changes to take effect.

**IMPORTANT**: It is recommended that you do not change the settings in this **User Defined Firewall Rules** screen. If you need to reset your Router to factory default settings, push the reset button on the rear of the Router. Or follow the instructions in section 16.2, "Restore Defaults," to restore the Router to factory default settings. The factory default security level for your Router is **No Security (None)**.





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	General Firewall Settings
Maximum Security	High security level only allows basic Internet functionality. Only Mail, News, Web,
(High)	FTP, and IPSEC are allowed. All other traffic is prohibited.
Typical Security	Like High security, Medium security only allows basic Internet functionality by
(Medium)	default. However, Medium security allows customization through NAT configuration
	so that you can enable the traffic that you want to pass.
Minimum Security	Low security setting will allow all traffic except for known attacks. With Low
(Low)	security, your Router is visible to other computers on the Internet.
No Security	Factory Default = No Security (None)
(None)	The Firewall is disabled. (All traffic is passed)
Custom Security	Custom is a security option that allows you to edit the firewall configuration directly.
(Custom)	Note: Only the most advanced users should try this.

# 15.2 Editing Firewall Security Rules

To edit the firewall security rules and customize them to your preference, in the **General** screen, click **Edit**. If no security rules have been previously configured, the following pop-up screen will appear. Click **OK** in the pop-up screen. At the **General** screen, select the security option that want to edit, and then click **Apply**.

Next, select the **Custom Security (None)** option in the **General** screen, and then click **Apply.** Click **Edit** to go to the **User Defined Firewall Rules** screen and edit the security rules for the security option you selected (High, Medium, Low, None) in the **General** screen.

#### IMPORTANT:

- 1. Custom Security is a very advanced configuration option that allows you to edit the firewall configuration directly. Only expert users should attempt this. It is recommended that you do not change the settings in this screen. If you need to reset your Router to factory default settings, push the reset button on the rear of the Router. Or follow the instructions in section 16.2, "Restore Defaults," to restore the Router to default settings.
- 2. If you need help, click **Main** in the top navigational menu to go to the home page, and then click **Verizon Help** to access Verizon's Online Help Web site for your DSL Router.



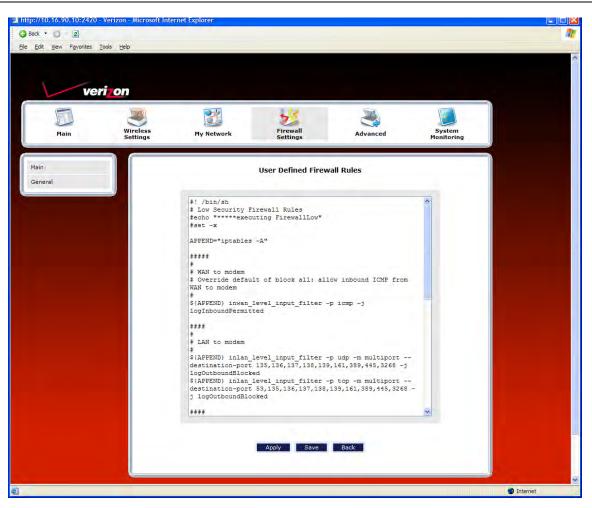
The User Defined Firewall Rules screen allows you to configure the security parameters on your Inbound and Outbound traffic. Inbound rules will restrict inbound traffic from the WAN to the LAN. Outbound rules will restrict outbound traffic from the LAN to WAN. Enter the desired parameters, click **Save**, and then click **Apply** to allow the settings to take effect in your Router.

NOTE: Clicking Save allows the firewall rules to be saved to flash (a temporary storage area in your Router).



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**NOTE:** The information displayed in this screen may differ from your actual screen, depending on the level of security you have selected.





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### 15.3 Port Forwarding

Click Yes

To access the Port Forwarding screen, from the top navigational menu, select **Firewall Settings.** Then select **Port Forwarding** from the menu options at the left of the screen. A warning screen will display the following message:

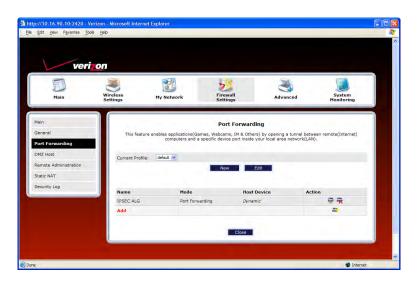
#### Any changes made in this section may affect your device's performance and configuration. Do you want to proceed?

Versalink Wireless Gates File Edit Wew Favorites		Explorer				
ver	izon					200
Main	Wireless Settings	My Network	Firewall Settings	Advanced	System Monitoring	
Main			Warning!!			
		Any changes made in thi	Do you want to pr		nfiguration.	
			Yes	No		

If you clicked **Yes**, in the preceding warning screen, the following **Port Forwarding** screen will be displayed. This feature enables applications (Games, Webcams, IM & Others) by opening a tunnel between remote (Internet) computers and a specific device port inside your local area network (LAN).

The Port Forwarding screen allows you to do the following:

- Edit connection profiles, create new connection profiles
- Configure port forwarding services: predefined, customized, and port forwarding/port triggering services





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### 15.3.1 Editing a Profile Name

Port Forwarding services can be added to connection profiles. To edit an existing profile name, and then later add port forwarding services to the profile, follow the instructions in this section.

To edit a connection profile name, in the **Port Forwarding** screen, click the **Current Profile** drop-down menu, and then select the name of the profile that you want to edit. Next, click **Edit** .

NOTE: If you have not previously configured a profile, the "Default" profile will be displayed.

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Main	۲	Network Setti	vall ngs Advance	ed System Monitoring
Main General Port Forwarding				innel between remote(Internet) twork(LAN),
DMZ Host Remote Administration		Net	v Edit	
	Name	Nei	e Edit Host Device	Action
Remote Administration Static NAT				Action
Remote Administration Static NAT	Name	Mode	Host Device	

If you have selected a profile and clicked **Edit**, the following screen will appear. In the following example, "Default" has been selected from the **Current Profile** drop-down menu displayed in the preceding screen. This is the profile name that will be edited.

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	i on		Firewall		System	
Main Main Port Forwarding	Settings	My Network	Settings Edit Service P	Advanced	Monitoring	
Edit Profile	Profile Name:	default	Apply	Cancel		



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Type the name of your choice in the field provided. Then, click **Apply** to allow the change to take effect.

**NOTE:** If you reset your Router to factory default settings, the default profile "Default" will be displayed, and any previously configured settings will be lost.

Veri	Wireless	Firewall	Advanced	System Monitoring
	Settings MY N	etwork Settings		Monitoring
1ain Port Forwarding		Edit Service	Profile	
dit Profile	Profile Name: Profile	1		
		Apply	Cancel	

The name you entered should now be displayed in the **Current Profile** drop-down menu.

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Veri <mark>, on</mark> Main W	ireless	letwork Firev	rall Advan	ced System	
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Main General <b>Port Forwarding</b> DMZ Host			t Forwarding IS, IM & Others) by opening a e port inside your local area r	tunnel between remote(Internet) network(LAN).	
Remote Administration		New	Edit		
Static NAT					
Security Log	Name	Mode	Host Device	Action	
	IPSEC ALG	Port Forwarding	Dynamic	🔿 💀	
	Add			<b></b>	
			Close		
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### **15.3.2** Creating a New Connection Profile

If you desire to create a new profile, and then later add port forwarding services to the new profile, follow the instructions in this section.

To create a new connection profile, in the **Port Forwarding** screen, click **New**. Then, from the **Current Profile** drop-down menu, select **A New Service Profile #1**.

Back • 💭 · 👔 le Edit View Figvorites Iook	s Help				
Veri Main	۲	v Network Set	wall Advant	ed System	
Main General Port Forwarditus DM2 Host Remote Administration Static NAT	Current Profile: P	les applications(Games, Webca	ice port inside your local area n	tunnel between remote(Internet) etwork(LAN).	
Security Log	Name IPSEC ALG Add	Mode Port Forwarding	Host Device Dynamic	Action	
			Close		

Next, click the **Edit** button to edit the profile.

veri	on					
Main	Wireless Settings	My Network	Firewall Settings	Advanced	System Honitoring	
tain Seneral <b>Fort Forwarding</b> MZ Host SMZ Host	This feature i	Inables applications(Games, W computers and a specification of the speci	c device port inside your loca	ening is tunnel between I area network(LAN). dit	reniate(Intérnet)	
Rabic NAT	Name IPSEC ALG	Mode Part Forwarding	Host Device Dynamic	Action	5 <b>5</b>	
	Au		Clope			



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If you clicked the **Edit** button, the following screen will appear. Type the profile name of your choice in the field, and then click **Apply** to allow the change to take effect.

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	(CD)		M	6		
Main	Wireless Settings	My Network	Firewall Settings	Advanced	System Monitoring	
Main						
Port Forwarding			Edit Service P	rofile		
Edit Profile	Profile N	ame: A New Service Profile #	ri j			
			Apply	Cancel		والمتحد المستعد الم
ê						Internet

For example, "My First Service Profile" is the name that has been entered in the Profile Name field. Click Apply.

veri	On Wireless	24	Firewall	3	
Main	Settings	My Network	Settings	Advanced	System Monitoring
Main Port Forwarding			Edit Service Pr	ofile	
Edit Profile	Profile Name:	My First Service Profile			
			Арріу С	Cancel	



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If you clicked **Apply**, the following screen will be displayed. The **Current Profile** field now displays the profile name that you entered.

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Veri Main	ON Wireless Settings		rewall ttings Advan	ced System Monitoring
Main General Port ForwardIng DMZ Host Remote Administration Static NAT	This feature Current Profile:	enables applications(Games, Webo	ort Forwarding cams, IM & Others) by opening a vvice port inside your local area r Delete Edit	tunnel between remote(Internet) retwork(LAN).
Security Log	Name	Mode	Host Device	Action
	IPSEC ALG	Port Forwarding	Dynamic	₩ 🖶
	Add			
			Close	

# **15.3.3 Configuring Port Forwarding Services**

Port Forwarding Services contain specific service settings. The service can then be associated with connection profiles, allowing you to customize profiles for specific users. For example, if you want to attach specific services to a profile or if you want to set up a different connection setting for a profile. You can create new service profiles and customize them to your preference.

Your Router contains a list of predefined Port Forwarding services, and you can select any service from this list. By selecting your specific service and setting up a profile, you will ensure that the appropriate ports on your Router are open and that the required application traffic can pass through your local area network (LAN). For a list of supported services, go to section 18, "Port Forwarding Services."

**NOTE:** You can create up to four service profiles and attach an unlimited number of services to each profile. The current profile labeled "Default" is the factory default profile.



User Guide

Main	Wireless Settings	ly Network	Firewall Settings	Advanced	System Monitoring
ain eneral			Port Forward		
ort Forwarding	This feature enable	es applications(Games, computers and a speci	Webcams, IM & Other fic device port inside	s) by opening a tunnel betw your local area network(LAM	een remate(Internet) I).
MZ Host	Current Profile: De	fault			
emote Administration			Edit		
atic NAT					
ecurity Log	Name	Mode		Host Device	Action
	IPSEC ALG	Client	Dynamic		
	Add				<b>2</b>
	Add				E.

# 15.3.3.1 Adding Port Forwarding Services to a Profile

To add a predefined service to a profile, in the **Port Forwarding** screen, click the **Current Profile** drop-down menu, and then select the name of the profile to which you want to add services. Next, click **Add**.

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Main	Wireless Settings	My Network	Firewall Settings	Advanced	System Monitoring	
-						
Main			Port Forwardi	ng		
General	This feature	enables applications(Gar		-	between remote(Internet) k(LAN).	
Port Forwarding		computers and a	specific device port inside y	rour local area network	k(LAN).	
DMZ Host	Current Profile:	Default 💌				1
Remote Administration	Content Fromer		New	dit		and the second se
Static NAT						
Security Log			1			
	Name IPSEC ALG	Hode Port Forwa	Host E arding Dynam		Action	and the second se
	Add	Portform	of the second se	~	2	
			Close			
<b>a</b>						Internet



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If you clicked **Add**, the following **New Port Forwarding Rule** screen will appear. Using this screen, you can do any of the following:

- Add a predefined service to a profile
- Create a customized service
- Edit an existing service profile
- Delete an existing profile

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veri	on	
Hain	Wireless Settings Hy Network Firenall Settings Advanced System Hontoring	
Main Port Forwarding	New Port Forwarding Rule Follow the steps below to set up a service on your device.	
	Select an existing Service / Rule or create a new one     Select A Service / Rule      Create     Create     Create     Create     Create	
	Select how the service will be activated     Get     Allows unstituted interval traffic to a particular PC on the LAK.	
r in the second	O Dynamic Enables inbound traffic based on specific outbound traffic.	
	3. For Hosted Service, Select a PC on the LAN Select a Discovered LAN device: SALLEAVE V Or manually enter a LAN IP: 192.165.1.18	
	Agely Cancel	
	Appy Canos	

### 15.3.3.2 Adding a Predefined Port Forwarding Service to a Profile

To add a predefined port forwarding service to a profile, in the **New Port Forwarding Rule** screen, perform the following steps:

1. Select the desired service from the **Select a Service** drop-down menu. After you have selected a service, it will appear in the window.

http://10.16.90.10:2420 - V Ble Edit Yew Figvorites Too		ernet Explorer				
veri Main	TON Wireless Settings	My Network	<b>Settings</b>	Advanced	System Monitoring	
Main Port Forwarding		Select an existing Service et A Service / Nule s a A Service / Nule s a A Service / Nule s res vs. Predator of Empres II: The Conquerous etcas Aring totas Aring totas Online Lottant Messenger erroin Call Secon		vice on your device.		
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VersaLink Wireless Gateway (Model 7500)

2. Select the option that describes how you want the service to be activated.

- **Host:** Allows the unsolicited inbound traffic to a particular PC on the LAN
- Dynamic: Enables inbound traffic based on specific outbound traffic
- 3. Select the desired IP address from the drop-down menu or manually enter the LAN IP address of the device that you want to host the service.
- 4. Click **Apply** to allow the settings to take effect.

**NOTE:** If you click **Cancel** in the **New Port Forwarding Rule** screen, the service you selected will be displayed; however, it will not be assigned to a device on the LAN. You must click **Apply** to allow the settings to take effect.

If you clicked **Apply**, the following screen will be displayed. In this example, the screen shows that service "America Online" has been added to the "Default" profile.

- To add additional predefined services, in the **Port Forwarding** screen, first select the desired profile from the **Current Profile** drop-down menu. Next, click **Add** and then repeat the preceding steps 1 through 4.
- To view the details of a service you have added, in the Action field click the details icon
- To delete a service from your list of active services, at the **Port Forwarding** screen, click the delete icon **ext** to the service that you want to delete. The selected service will be deleted from the Router's list of active services.

e Edit Yew Pevorites Tool	s Help				
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Main	Wireless Settings My	Network Setti	vali ngs Advan	system Honitoring	
Main		Bor	t Forwarding		
General	This feature enabl		-	tunnel between remote(Internet) network(LAN).	
Port Forwarding		computers and a specific device	e port inside your local area r	network(LAN).	
DMZ Host	Current Profile: De	faut 🗸			
DMZ Host Remote Administration	Current Profile: D	fault 💌	v Edit		
	Current Profile: D		v Edit		
Remote Administration Static NAT	Current Profile: D		v Edit Host Device	Action	
Remote Administration		Nev		Action	
Remote Administration Static NAT	Name	Net	Host Device		
Remote Administration Static NAT	Name America Online	Net Mode Port Forwarding	Host Device 192.168.1.18	🤿 🙀	



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If you clicked the details icon in the preceding screen, the following screen will be displayed. Click **Cancel** when you are ready to return to the **Port Forwarding** screen.

99 Service Details Service Name Port Forwarding Entry Protocol Global Port(s) Local Port(s) 1 both S190 S190	veri D	Wireless Settings	My Network	Firewall	Advanced	System Monitoring
Service Name America Online Type Port Forwarding Entry Protocol Global Port(s) Local Port(s)				Service D	etails	
	ding			Service Name An Type Po		
						(s)
Close				Class		

### 15.3.3.3 Creating a Customized Port Forwarding Service

To create a customized port forwarding service, click Add in the Port Forwarding screen.

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Main	Wireless Settings	My Network	Firewall Settings	Advanced	System Monitoring	
Main General Port Forwarding DMZ Host Remote Administrat Static NAT	Current	feature enables applications(C computers and Profile: Default v	Port Forwa Sames, Webcams, IM & Ot a specific device port insi New	-	l between remote(Internet) K(LAN).	
Security Log	Name	Mode	Но	st Device	Action	
	IPSEC A	ALG Port For	warding Dyr	namic	🖶 🙀	
	Add				<b>2</b>	
			Ciose			
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