User Manual

4 port VDSL2 11n Router

Model:SR505N

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Device Installation

The DSL connects two separate physical interfaces, an ADSL (WAN) and an Ethernet (LAN) interface. Place the Router in a location where it can be connected to the various devices as well as to a power source. The Router should not be located where it will be exposed to moisture or excessive heat. Make sure the cables and power cord are placed safely out of the way so they do not create a tripping hazard. As with any electrical appliance, observe common sense safety procedures.

The Router can be placed on a shelf or desktop, ideally you should be able to see the LED indicators on the front if you need to view them for troubleshooting.

Power on Router

The Router must be used with the power adapter included with the device.

- 1. Insert the DC Power Adapter cord into the power receptacle located on the rear panel of the Router and plug the adapter into a suitable nearby power source.
- 2. Depress the Power button into the on position. You should see the Power LED indicator light up and remain lit. The Status LED should light solid green and begin to blink after a few seconds.
- 3. If the Ethernet port is connected to a working device, check the LAN LED indicators to make sure the connection is valid. The Router will attempt to establish the ADSL connection, if the ADSL line is connected and the Router is properly configured this should light up after several seconds. If this is the first time installing the device, some settings may need to be changed before the Router can establish a connection.

Factory Reset Button

The Router may be reset to the original factory default settings by using a ballpoint or paperclip to gently push down the reset button in the following sequence:

- 1. Press and hold the reset button while the device is powered off.
- 2. Turn on the power.
- 3. Wait for 10 seconds and then release the reset button.

Remember that this will wipe out any settings stored in flash memory including user account information and LAN IP settings. The device settings will be restored to the factory default IP address **192.168.1.1** and the subnet mask is **255.255.255.0**, the default management Username is "admin" and the default Password is "admin."

Network Connections

Connect ADSL Line

Use the ADSL cable included with the Router to connect it to a telephone wall socket or receptacle. Plug one end of the cable into the ADSL port (RJ-11 receptacle) on the rear panel of the Router and insert the other end into the RJ-11 wall socket. If you are using a low pass filter device, follow the instructions included with the device or given to you by your service provider. The ADSL connection represents the WAN interface, the connection to the Internet. It is the physical link to the service provider's network backbone and ultimately to the Internet.

Connect Router to Ethernet

The Router may be connected to a single computer or Ethernet device through the 10BASE-TX Ethernet port on the rear panel. Any connection to an Ethernet concentrating device such as a switch or hub must operate at a speed of 10/100 Mbps only. When connecting the Router to any Ethernet device that is capable of operating at speeds higher than 10Mbps, be sure that the device has auto-negotiation (NWay) enabled for the connecting port. Use standard twisted-pair cable with RJ-45 connectors. The RJ-45 port on the Router is a crossed port (MDI-X). Follow standard Ethernet guidelines when deciding what type of cable to use to make this connecting the Router to a normal straight-through cable. You should use a crossed cable when connecting the Router to a normal (MDI-X) port on a switch or hub. Use a normal straight-through cable when connecting it to an uplink (MDI-II) port on a hub or switch. The rules governing Ethernet cable lengths apply to the LAN to Router connection. Be sure that the cable connecting the LAN to the Router does not exceed 100 meters.

Hub or Switch to Router Connection

Connect the Router to an uplink port (MDI-II) on an Ethernet hub or switch with a straight-through cable. If you wish to reserve the uplink port on the switch or hub for another device, connect to any on the other MDI-X ports (1x, 2x, etc.) with a crossed cable.

Computer to Router Connection

You can connect the Router directly to a 10/100BASE-TX Ethernet adapter card (NIC) installed on a PC using the Ethernet cable provided.

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Configuration

This section will show you how to configure your new D-Link Router using the web-based configuration utility.

Web-based Configuration Utility

Connect to the Router

The default IP address for ADSL MODEM is: 192.168.1.1; The Subnet Mask is : 255.255.255.0. Users can configure ADSL MODEM through an Internet browser. ADSL MODEM can be used as gateway and DNS server; users need to set the computer's TCP/IP protocol as follow:

- 1. Set the computer IP address at same segment of ADSL MODEM, such as set the IP address of the network card to one of the "192.168.1.2" \sim "192.168.1.254".
- 2. Set the computer's gateway the same IP address as the ADSL Modem's.
- 3. Set computer's DNS server the same as ADSL Modem's IP address or that of an effective DNS server.

To access the configuration utility, open a web-browser such as Internet Explorer and enter the IP address of the router (**192.168.1.1**).

Type **"admin**" for the User Name and **"admin**" in the Password field. If you get a **Page Cannot be Displayed** error, please refer to the **Troubleshooting** section for assistance.

连接到 192.1	68. 1. 1 🛛 🛛 🕅
R	G.S.
ADSL 4*FE 11n) 田白夕 an	Router
用戶名 (1): 密码 (2):	12 admin 10 10 10 10 10 10 10 10 10 10 10 10 10
	□记住我的密码 (2)
	确定 取消

Device Info

To access the **Device Info** window, click either the **Device Info** or **Summary** button in the **Device Info** directory. The following page opens:

Summary

To access the Router's first Summary window, click the Summary button in the Device Info directory.

This window displays the current status of your DSL connection, including the software version, LAN IP address, and DNS server address.

Device Info

BoardID:	STV504W
Symmetric CPU Threads:	2
Software Version:	GE_1.00
Bootloader (CFE) Version:	1.0.38-112.37
DSL PHY and Driver Version:	A2pv6F037b.d24b
Wireless Driver Version:	5.100.138.11.cpe4.12L02.6
Uptime:	0D 0H 4M 32S

This information reflects the current status of your WAN connection.

B0 Traffic Type:	ATM
B0 Line Rate - Upstream (Kbps):	13241
80 Line Rate - Downstream (Kbps):	79783
B1 Traffic Type:	Inactive
B1 Line Rate - Upstream (Kbps):	0
B1 Line Rate - Downstream (Kbps):	0
LAN IPv4 Address:	192.168.1.1
Default Gateway:	
Primary DNS Server:	0.0.0.0
Secondary DNS Server:	0.0.0.0
LAN IPv6 ULA Address:	
Default IPv6 Gateway:	

WAN

To access the WAN Info window, click the WAN button in the Device Info directory.

This window displays the current status of your WAN connection.

	WANDED										
Interface	Description	1ype	VlanMustd	IPv6	Ignip	MLD	NAT	Firewall	Status	IPv4 Address	IPvb Address
ppp7	3G dongle	PPPOE	Disabled	Disabled	Disabled	Disabled	Griabled	Crisabled	Unconnect		

USB Access Methods

We can access the USB devices and handle some files with the following steps. We access the USB devices through the samba as the following pictures.



As the picture 1 show, we enter the route of the ONT.



Picture 2

We can find the file which name is storage. Enter the file, we find the usb1_1 (As show as the Picture 3). This file is our USB device.

🌻 storage 在 DSL Gateway	(192.168.1.1) 上							
文件(E) 编辑(E) 查看(V) 收	文件 (E) 编辑 (E) 查看 (V) 收藏 (A) 工具 (E) 帮助 (A) 🥂 🥂							
链接 🗋 HTML 表格 🚺 我的e家								
🔓 后退 🔹 🕥 🕘 🏂 🔎	捜索 🕞 文件夹 🛄・							
地址 @) 🧟 \\192.168.1.1\storag	e				💌 🛃 转到			
AND AND A DO	名称 🔺	大小	类型	修改日期				
文件和文件夹任务 ※ ② 创建一个新文件夹 ● 裕这个文件夹发布到 Web	ausb1_1		文件夹					
其它位置								
详细信息 🙁								
storage								

Picture 3 After accessed the usb1_1, we can do some operating what you want to do.

Route

To access the Device Info - Route window, click the Route button in the Device Info directory.

This read-only window displays routing info.

Device Info -- Route

Flags: U - up, ! - reject, G - gateway, H - host, R - reinstate D - dynamic (redirect), M - modified (redirect).

Destination	Gateway	Subnet Mask	Flag	Metric	Service	Interface
192.168.1.0	0.0.0,0	255.255.255.0	U	0		br0

ARP

To access the **Device Info – ARP** window, click the **ARP** button in the **Device Info** directory.

This read-only window displays Address Resolution Protocol info.

Device Info -- ARP

IP address	Flags	HW Address	Device
192.168.1.2	Complete	00:27:19:8f:7c:d6	br0

DHCP

To access the Device Info – DHCP Leases window, click the DHCP button in the Device Info directory.

This read-only window displays DHCP lease info.

Device Info -- DHCP Leases

Hostname	MAC Address	IP Address	Expires In
FREESKYC-AAA4C0	00:27:19:8f:7c:d6	192.168.1.2	23 hours, 53 minutes, 58 seconds

Advanced Setup

This chapter include the more advanced features used for network management and security as well as administrative tools to manage the Router, view status and other information used to examine performance and for troubleshooting.

Layer2 Interface

To access the DSL ATM Interface Configuration window, click the ATM Interface button in the Layer2 Interface directory.

This window is used to configure the ATM interface. You can add and delete ATM interface on this window.

If you are setting up the ATM interface for the first time, click the **Add** button.

					Choine	AND IT RECEIPT OF CO	ordered by the second					
derface.	vpi	YO	DBL Latency	Calagory	Peak Cell Rate (riels/s)	Sustainable Cell Rate(rells/s)	Has Barst Sim(Dytes)	Link Type	Cone Mode	10-Qo5	PERAL Prec/Alg/Wght	Remove
amil	0	揻	Patri	0.00				614	Viant-Kaithiste	Support	QAM8.8,/1	

103, ATM Interface Configuration

Add Renaie

ATM Interface

The **ATM PVC** Configuration window allows you to set up ATM PVC configuration. Enter Virtual Path Identifier, and Virtual Channel Identifier. The VPI and VCI values should be provided by your ISP. This window also allows you to select DSL Link Type, PPPoA IpoA and EoA (EoA is for PPPoE, IPoE, and Bridge)

Use the drop-down menu to select the desired Encapsulation Mode..

Click the Apply / Save button to Save.

ATM PVC Configuration

This screen allows you to configure a ATM PVC.

VPI: 0 [0-255]		
VCI: 35 [32-65535]		
Select DSL Latency		
🗹 Pathū (Fast)		
🗌 Path1 (Interleaved)		
Select DSL Link Type (EoA is fr	or PPPoE, I	IPoE, and Bridge.)
EoA		
O PPPoA		
O IPOA		
Encapsulation Mode:	LLC/	SNAP-BRIDGING 🗸
Service Category:	UBR	Without PCR 🔛
Select Scheduler for Queues o	of Equal Pre	ecedence as the Default Queue
Weighted Round Robin		
Weighted Fair Queuing		
Default Queue Weight:	1	[1-63]
Default Queue Precedence:	8	[1-8] (lower value, higher priority)
VC WRR Weight:	1	[1-63]
VC Procodonco:	8	[1-8] (lower value, higher priority)
ve rieceuence.	2 T	



WAN Service

To access the Wide Area Network (WAN) Service Setup window, click the WAN Service button in the Advanced Setup directory.

This window is used to configure the WAN interface. You can add and delete WAN interface on this window.

If you are setting up the WAN interface for the first time, click the **Add** button.

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Туре	Vlan8021p	VlanMuxid	Igmp	NAT	Firewall	IPvő	Mid	Remove	Edit
ppp0.1	pppoe_0_0_35	PPPoE	N/A	N/A	Disabled	Enabled	Enabled	Disabled	Disabled		Edit

Add Remove

The **WAN Service Interface Configuration** Configuration window allows select a layer 2 interface for this service. Click the **Next** button to continue.

WAN Service Interface Configuration

Select a layer 2 interface for this service

Note: For ATM interface, the descriptor string is (portId_vpi_vci) For PTM interface, the descriptor string is (portId_high_low) Where portId=0 --> DSL Latency PATH0

> low =0 --> Low PTM Priority not set low =1 --> Low PTM Priority set high =0 --> High PTM Priority not set high =1 --> High PTM Priority set

atm0/(0_	0_35)	~

Back	Next

This window allows you to select the appropriate connection type. The choices include PPP over ATM (PPPoA), PPP over Ethernet (PPPoE), IP over Ethernet (IpoE), IP over ATM (IPoA), and Bridging.

WAN Service Configuration – PPPoE

Click the PPP over Ethernet (PPPoE) radio button on this window. This window also allows you to use the drop-down menu to enable IPv6 service. Click the **Next** button to continue.

WAN Service Configuration

Select WAN service type:
💿 PPP over Ethernet (PPPoE)
O IP over Ethernet
O Bridging

Enter Service Description: pppoe_0_0_35

For tagged service, enter valid 802.1P Priority and 802.1Q VLAN ID. For untagged service, set -1 to both 802.1P Priority and 802.1Q VLAN ID.

Enter 802.1P Priority [0-7]: Enter 802.1Q VLAN ID [0-4094]:

-1	
-1	Ĩ

Network Protocal Selection: (IPV6 Only not suppor) V

IPV4 Only

Next

WAN Service Configuration – PPPoE

This window allows you to set the username and the password for your PPP connection. This information is obtained from your ISP. Additional settings on this window will also depend on your ISP. And You can input 2^{nd} ip on this page. Click the **Next** button to continue.

PPP Username and Password

IFP usually requires that you have a user name and parsyond to establish your connection. In the boses below, enter the user name and parswood that your ISP have pro- to you.
PEP Usemane
IPP Parrierd:
IPPOE Service Name
Auftar/scation Mathcal
Ersable Bultane (4AT
Her Close: BD 00:00:00:00:00:00:00:00:00:00:00:00:00:
PPP Dail/(); Daily Seconds (D-301) III (D - seconds (D - seconds)
Esat on demand (with idle timeout tener)
Manual connect
📋 anable manual MTU set
T PPP 3 th antonium
E divada hart
NAT PLAISE BE AREYONN ANY OWNER D
😰 Brades Francial
📋 Ana Statis Five Address
🐑 Brazal IVI Oshuq Moda
🗵 Bruthi tasphive
koepolwaTave (10-30). (10
KoagoAl watetarFari [C-100]
PPP Max Fail (3-103) 0 terms
Ericlge PEPOE Frames Batwaen Well and Local Parts
Multicast Phony
Enable (Lave Includes Procession)

WAN Service Configuration – IPoE

Click the IP over Ethernet radio button on this window. Click the **Next** button to continue.

WAN Service Configuration

Select WAN service type:
O PPP over Ethernet (PPPoE)
IP over Ethernet
O Bridging

Enter Service Description: ipoe_0_0_35

For tagged service, enter valid 802.1P Priority and 802.1Q VLAN ID. For untagged service, set -1 to both 802.1P Priority and 802.1Q VLAN ID.

Enter 802.1P Priority [0-7]:

Enter 802.1Q VLAN ID [0-4094]:

-1	
-1	8

Network Protocal Selection:(IPV6 Only not suppor)
IPV4 Only



WAN Service Configuration – IPoE

This window allows you to configure the WAN IP settings. This information is obtained from your ISP. Click the **Next** button to continue.

WAN IP Settings

Enter information provided to you by your ISP to configure the WAN IP settings. Notice: If "Obtain an IP address automatically" is chosen, DHCP will be enabled for PVC in IPoE mode. If "Use the following Static IP address" is chosen, enter the WAN IP address, subnet mask and interface gateway.

	Option 61 IAID:	12 }	(8 hexadecimal digits)			
	Option 61 DUID:		(o hoxadocimal digita)			
	Option of Dotb,					
	option 66;	() Disable	OEnable			
	Option 121:	 Disable 	OEnable			
	Option 125:	 Disable 	○ Enable			
0	Use the following Static IP address:					
	WAN IP Address:					
	WAN Subnet Mask:					
	WAN gateway IP Address:					
AC	Clone: 00:00:00:00:00:00	Clone	the PC MAC Address			
	(00,00,00,00,00,00,00,mos	ne use dynamic ma	c address)			

WAN Service Configuration – BRIDGING

Click the Bridge radio button on this window. Click the **Next** button to continue.

WAN Service Configuration

Select WAN service type: O PPP over Ethernet (PPPoE) O IP over Ethernet Bridging

Enter Service Description: br_0_0_35

For tagged service, enter valid 802.1P Priority and 802.1Q VLAN ID. For untagged service, set -1 to both 802.1P Priority and 802.1Q VLAN ID.

Enter 802.1P Priority [0-7]: Enter 802.1Q VLAN ID [0-4094]:

1011	-1	
	-1	

Back	Next

WAN Service Configuration – BRIDGING

This summary window allows you to confirm the bridging settings you have just made. Click the **Apply /Save** button to save your new bridging settings and restart the Router.

WAN Setup - Summary

Make sure that the settings below match the settings provided by your ISP.

Connection Type:	Bridge
NAT:	Disabled
Full Cone NAT:	Disabled
Firewall:	Disabled
IGMP Multicast:	Not Applicable
Quality Of Service:	Disabled

Click "Apply/Save" to have this interface to be effective. Click "Back" to make any modifications.

Back Apply/Save

WAN Service Configuration – PPPoA

This window allows you to enter service description. Click the **Next** button to continue.

WAN Service Configuration
Enter Service Description: pppoa_0_8_35
Network Protocal Selection:(IPV6 Only not suppor)
IPV4 Only

Back Next

WAN Service Configuration – PPPoA

This window allows you to set the username and the password for your PPP connection. This information is obtained from your ISP. Additional settings on this window will also depend on your ISP. And You can input 2^{nd} ip on this page. Click the **Next** button to continue.

WAN Service Configuration – PPPoA

Default gateway interface list can have multiple WAN interfaces served as system default gateways but only one will be used according to the priority with the first being the higest and the last one the lowest priority if the WAN interface is connected. Priority order can be changed by removing all and adding them back in again. Click the **Next** button to continue.

PPP Username and Password

PPE Unar trameri							
TU Patrowerd							
Authentication Methods	ABTO			~			
Enable Fullcone NA	r (
Dial on demand (w	th itle trained from	0.0					
Manual connect							
📋 enable manual MT	I SAUK						
Enable NAT							
NAT Public Ip Addre	Automatic	*		- 64			
🕑 Grabie Exercial							
C Use State IPy4 Add	Yess :						
Enable PPP Debug	Fitzda						
Enable raspelve							
KaapAlveTime [10	- mi (m.		work				
eaophtvinturfal.	p-1003. W.		timate				
PPP Max Pal (0-100)		0040					
Hulticast Proxy							
Enable X24P Hulto	aat Provy						
No Multicast VLAN	Filter						
				Balt	Nut		

Default gateway interface list can have multiple WAN interfaces served as system default gateways but only one will be used according to the priority with the first being the highest and the last one the lowest priority if the WAN interface is connected. Priority order can be changed by removing all and adding them back in again.

Selected Default Gateway Interfaces	Available Routed V Interfaces	IAN	
pppan0	7011		
2			
-			
		(Back Treat	

WAN Service Configuration – IPoA

This window allows you to enter service description. Click the **Next** button to continue.

WAN Service Configuration

Enter Service Description: ipoa_0_0_35



WAN Service Configuration – IPoA

This window allows you to configure the WAN IP settings. This information is obtained from your ISP. Click the **Next** button to continue.

WAN IP Settings

Enter information provided to you by your ISP to configure the WAN IP settings.

WAN IP Address: WAN Subnet Mask:

Network Address Translation Settings

0.0.0.0 0.0.0.0

Back	Next

WAN Service Configuration – IPoA

This window allows you to enable or disable Network Address Translation and a firewall for your Router. In addition, you can enable or disable IGMP multicasting. Click the **Next** button to continue.

Network Address Translation (NAT) allows you to share one Wide Area Network (MAN) P address for multiple computers on your Local Area Network (LAN).

LAN

You can configure the LAN IP address to suit your preference. Many users will find it convenient to use the default settings together with DHCP service to manage the IP settings for their private network. The IP address of the Router is the base address used for DHCP. In order to use the Router for DHCP on your LAN, the IP address pool used for DHCP must be compatible with the IP address of the Router. The IP addresses available in the DHCP IP address pool will change automatically if you change the IP address of the Router.

To access the Local Area Network (LAN) Setup window, click the LAN button in the Advanced Setup directory.

This window allows you to set up a LAN interface. When you Local Area Network (LAN) Setup are finished, click the **Apply / Save** button.

Con	figure the DSL Router	IP Address	and Subnet Mas	k for LAN interface.	GroupName D	efault 💌
IP A	ddress:	192,168,1.	18			
Sub	net Mask:	255.255.25	55.0			
	Enable IGMP Snoopir	ng				
0	Standard Mode					
۲	Blocking Mode					
	Enable LAN side firev	wall				
0	Disable DHCP Server	2				
\odot	Enable DHCP Server					
	Start IP Address:		192.168.1.2			
	End IP Address:	[192,168,1,254			
	Leased Time (hour):	[1-596000]	24	(only suppo	ort integer!)	
	Static IP Lease List:	(A maximun	n 32 entries can	be configured)		
	MAC Address I	P Address	Remove			
	Add Entries	Remove	Entries			

Apply/Save

Appendix A – Troubleshooting

To access the IPv6 LAN Auto Configuration window, click the IPv6 AutoConfig button in the LAN directory.

This window allows you to set up IPv6 LAN Auto Configuration. When you are finished, click the **Save /Apply** button.

IPv6 LAN Auto Configuration

Note: Stateful DHCPv6 is supported based on the assumption of prefix length less than 64. Interface ID does NOT support ZERO COMPRESSION "11". Please enter the complete information. For example: Please enter "0:0:0:2" instead of "1:2".

Save/Apply

Static LAN IPv6 Address Configuration Interface Address (prefix length is required): IPv6 LAN Applications Enable DHCPv6 Server Stateless O Stateful Start interface ID: End viterface ID: Lessed Time (hour) Enable RADVD Enable ULA Prefix Advertisement Randomly Generate Statically Configure Pretby Preferred Life Time (hour): Valid Life Time (hour): Enable MLD Snooping O Standard Mode Biocking Mode

Port Triggering

Some applications such as games, video conferencing, remote access applications and others require that specific ports in the Router's firewall be opened for access by the applications. You can configure the port settings from this screen by selecting an existing application or creating your own (Custom application).

Click the **Add** button to configure port triggering.

NAT — Port Triggering Setup

Some applications requires that appending ports in the Routes's Reveal the append the accese by the internet parties. Pert Trogger dynamically grain up the "Open Parts" in the Reveal when an application on the LMH initiates a TCRASE connectant to a reveale party using the "Disporting Routs". The Reuter allows the remote party from the VMM safe to exist bits new connections that its the application on the LMH and the "Open Parts", a mainteen 30 entries can be configured.

		+33	farces	5		
	De la	lager	1	lipsora.		
Application Nate		Part Rangel	-	Port Kanga	WAN DIDINFACE	Remove
	Protocola.	Start End	PPOCCES.	Start fist		

You can configure the port settings on this window by clicking the **Select an application** radio button and then using the drop-down list to choose an existing application, or by clicking the **Custom application** radio button and entering your own Application Rule in the field provided.

Click **Save/Apply** when you are finished with the port setting configuration. The new Application Rule will appear in the Port Triggering table.

NAT - Port Triggering

Some applications such as gones, video configurencing, remarks access applications and others require that specific parts in the Rauter's frewall be opened for access by the applications. You can configure the port settings from this screen by selecting as estimating application or creating your own (Custom application) and clid. "Save/Apply" to add it. Remaining number of estivies that can be configured: 32



DMZ Host

Since some applications are not compatible with NAT, the Router supports use of a DMZ IP address for a single host on the LAN. This IP address is not protected by NAT and will therefore be visible to agents on the Internet with the right type of software. Keep in mind that any client PC in the DMZ will be exposed to various types of security risks. If you use the DMZ, take measures (such as client-based virus protection) to protect the remaining client PCs on your LAN from possible contamination through the DMZ.

To designate a DMZ IP address, type in the IP Address of the server or device on your LAN, and click the **Save/Apply** button.

NAT-DM2 Host

The Broadband Router will forward IP packets from the WAN that do not belong to any of the applications configured in the Virtual Services table to the SMC frest conguter

Enter the computer's IP address and click 'Apply' to activate the DMZ host

Closer the IP address field and click 'Apply' to deactivate the DM2 host.

DMZ Host IP Address:

Save/Apply

Security

To access the **Security** window, click the **Security** button in the **Advanced Setup** directory. The **Security** button appears after configuring WAN interface in PPPoA, PPPoE, IPoE or IPoA.

IP Filtering

The **IP Filtering** button appears when configuring WAN interface in PPPoA, PPPoE, IPoE or IPoA.

 IP Filtering - Outgoing This window allows you to create a filter rule of Outgoing. Click change default policy to change the mode of policy. Now default policy is BLOCK, it means all outgoing IP traffic from LAN is blocked, but some IP traffic can be accepted by setting up filters. If you are setting up the outgoing IP filtering, click the Add button. 	Dutgoing IP Filtering Setup By default, all outgoing IP traffic from LAN is allowed, but some IP traffic can be BLOCKED by setting up filters. Choose Add or Remove to configure outgoing IP filters. Change default policy Filter Name IP Version Protocol SncIP/ PrefixLength SncPort DstIP/ PrefixLength DstPort Remove Add Remove
Now default policy is ACCEPT, it means all outgoing IP traffic from LAN is allowed, but some IP traffic can be Blocked by setting up filters.	Outgoing IP Filtering Setup By default, all outgoing IP traffic from LAN is blocked, but some IP traffic can be ACCEPTED by setting up filters. Choose Add or Remove to configure outgoing IP filters.
If you are setting up the outgoing IP filtering, click the Add button.	Filter Name IP Version Protocol SrcIP/ PrefixLength SrcPort DstIP/ PrefixLength DstPort Remove

Add Remove

Enter the information in the section. Explanations of parameters are described below. Click the **Apply / Save** button to add the entry in the Active Outbound IP Filtering table.

Add IP Filter -- Outgoing

The screen above you to create a filter rule to identify auguring IP traffic to specifying arrew litter name and at least one condition below. All of the specified conditions in this filter rule must be satisfied for the rule to be effect. Click Vicply/Sale? to save and activate the Filter.



IP Filtering – Incoming

This window allows you to create a filter rule of **Incoming**. Click **change default policy** to change the mode of policy.

Now default policy is **ACCEPT**, it means all incoming IP traffic from WAN is accepted, but some IP traffic can be blocked by setting up filters.

If you are setting up the incoming IP filtering, click the Add button.

Now default policy is **BLOCK**, it means all incoming IP traffic from WAN is blocked, but some IP traffic can be accepted by setting up filters.

If you are setting up the incoming IP filtering, click the Add button.

Choose Add or	move to configure incoming IP filters.
	change default policy
	Filter Name Interfaces IP Version Protocol SecIP/ Prefixt.ength SecPort DstIP/ Prefixt.ength DstPort Remo
	Add Review
	Add Rencwe
	Add Rencwe
Incoming B ¹	Add Remove
Incoming IP When the fire	ring Setup Is enabled on a WAN or LAN interface, all incoming IP traffic is allowed. However, some IP traffic can be BLOCKED by setting up fil
Incoming IP When the first Choose Add o	Add Remove aring Setup Is enabled on a WAN or LAN interface, all incoming IP traffic is allowed. However, some IP traffic can be BLOCKED by setting up fillens.

Enter the information in the section. Explanations of parameters are described below. Click the **Apply / Save** button to add the entry in the Active Inbound IP Filtering table.

Add IP Filter - Incoming

The screen allows you to create a filter rule to identify incoming IP inaffic by specifying a new filter name and at least one condition below. All of the specified conditions in this filter rule must be satisfied for the rule to take effect. Click 'Apply/Sare' to save and activate the filter.



WAN Interfaces (Configured in Routing mode and with firewall enabled) and LAN Interfaces Select one or more WANLAN interfaces displayed bolow to apply this rule.

E Select All E br0/br0

Apply/Saxe

Parental Control

Use this window to deny access to specified MAC address. If you are setting up the MAC address blocking, click the **Add** button. Access Time Restriction -- A maximum 16 entries can be configured.

Username MAC Mon Tue Wed Thu Fri Sat Sun Start Stop Remove

Add Remove

MAC address is a specially formatted text string (xx:xx:xx:xx:xx) that uniquely identification of a device. This section will allow users to block devices with certain MAC addresses on the LAN.

To configure for MAC address blocking, enter the username into the **Username** field, click **Browser's MAC Address** to have MAC address of the LAN device, or click **Other MAC Address** and enter a MAC address manually. Tick the checkboxes for the desired individual days of the week and enter desired **Start Blocking Time** and **End Blocking Time**.

Click the Save/Apply button to save the configuration

Access Time Restriction

This page adds time of day restriction to a special LAN device connected to the Router. The 'Browsen's MAC Address' automatically displays the MAC address of the LAN device where the browsen is running. To restrict other LAN device, click the "Other MAC Address" button and enter the MAC address of the other LAN device. To find out the MAC address of a Windows based PC, go to command window and type "pooring (all".

Otor Name	
Browser's MAC Address Other MAC Address (address (address (address	00.07:19:07.7c:de
Days of the week	MonToo Wed Thurri Sat Sun
Cikik to select	
Start Blocking Time (Himmi) End Blocking Time (Himmi)	

Apphy/Save

URL Filter

This window allows you to set up **URL Filter** on the Router.

Choose URL List Type **Exclude** or **Include** first and click **Add** button.

URL Filter -- Please select the list type first then configure the list entries. Maximum 100 entries can be configured.

Exclude -- Deny computers to access the following web sites in the list. Include -- Allow computers to access only the following sites in the list. URL List Type: O Exclude O Include

Address	Port	Remove

Enter the URL address and port number then click **Apply / Save** to add the entry to the URL filter.

Parental Control --- URL Filter Add

Enter the URL address and port number then click "Apply/Save" to add the entry to the URL filter.





Quality of Service

QoS or Quality of Service allows your Router to help prioritize the data packet flow in your Router and network. This is very important for time sensitive applications such as VoIP where it may help prevent dropped calls. Large amounts of non-critical data can be scaled so as not to affect these prioritized sensitive real-time programs.

To access the QoS - Queue Management Configuration window, click the Quality of Service button in the Advanced Setup directory.

This window allows you to set up QoS on the Router. When you are finished, click on the **Save/Apply** button. Ur Enable QoS checkbox is selected, choose a default DSCP mark to automatically mark incoming traffic without reference to a particular classifier. Click 'Apply/Save' button to save it.

Note: If Enable Qos checkbox is not selected, all QoS will be disabled for all interfaces.

Note: The default DSCP mark is used to mark all egress packets that do not match any classification rules.

🗹 Enable QoS

Select Default DSCP Mark No Change (+1)

Apply/Save

Queue Config

Click the Add button to add a QoS Queue Configuration table entry.

QoS Queue Setup

In ATM mode, maximum 16 queues can be configured.

In FTM mode, maximum 8 queues can be configured. For each Ethernet interface, maximum 3 queues can be configured.

To add a take, thick the Add butter.

To remove gueues, check their remove checkboxes, then click the Remove button

The Enable button will scan through every queues in the table. Queues with enable-checkbox checked will be enabled. Queues with enable-checkbox un-checked will be closabled.

The enable-checkbox also shows status of the queue after page reload.

Note that if WMM function is disabled in Wireless Page, queues related to wireless will not take effects.

hame	Kiry	Interface	qid	Print/Alg/Wight	DSL Latency	PTM Pricetty	Shaping Rate(bits/s)	Burst Size(bytes)	tratific	Remove
VAMM VOER Priority	1	wiset0	-1	1,5P					linshied	
VAMPA VOICE Priority	Z	WilenD	Z	7 <i>19</i> 9					Brabled	
WMM Video Priority	3	ward	з	3,5P					Enabled	
WMM Video Priority	4	ward	4	4/5P					Enabled	
Validat Block Effort	5	wiard	Б	5/9P					(inshied	
WMM Badiground	0	wiant	6	6.9P					Reabled	
WMM Background	7	wlant	7	7/SP					Enabled	
WMM Bost Effort	8	wianti	8	8/5P					Enabled	
Default Queue	35	0600	7	B/MRR/I	Fadi0					

Add Enable Remove

This window allows you to configure a QoS queue entry and assign it a specific network interface.

Click the Apply / Save button to save and activate the filter.

QoS Queue Configuration

This screen allows you to configure a QoS queue and add it to a selected layer2 interface.

Name:		
Enable:	Enable 💉	
Interface:		
		Apply/Save

QoS Classification

Choose Add or Remove to configure network traffic classes.

QoS Classification Setup - A maximum 32 entries can be configured.

Choose Add or Renew to campaie retwork traffic places.

The QoS function has been disabled. Classification rules would not take efficits.

	DUASSINGATION CROTINGA					CLASSIFICATION RESILETS												
Sevi Lana	Distor	Class Juit!	Elizain Type:	Tachthic: Maik	Dathint/ Mask	Sector/ Weilist.ength	DutiP/ PrefixLoogth	Profile	GeiPort	Dalifiert	()scp Check	102.30 Check	Qanat Key	anar Mark	Hark Mark	vlasili Tog	Rate Control Frable (ktps)	nimme

ALL ENGLE Hannes

Use this window to create a traffic class rule to classify the upstream traffic, assign a queue that defines the precedence and the interface, and optionally overwrite the IP header DSCP byte. A rule consists of a class name and at least one condition. Please remember that all of the specified conditions on this window must be met for the rule to take effect.

Click the Apply / Save button to save and activate this rule.

Add Network Traffic Class Rule

This screen creates a traffic class rule to classify the ingress traffic into a priority queue and optionally mark the DSCP or Ethernet priority of the packet. Click 'Apply/Save' to save and activate the rule.

ļ	i	aff	ic (lais	Ne	nel:	
1	1	ie,	Ord	ler:			
1	£	de.	Sta	R.A			

Last	
Disable	1

Specify Classification Criteria (A blank criterion indicates it is not used for classification.)

lass Interface:	LAN(all) 🛩
tier Type)	×
iource MAC Address:	
Source MAC Mask:	
estimation MAC Address:	
estination MAC Mask:	
pecify Classification Results (A black value re	dicates no operation.)
ipecify Class Queue (Required): Packets classified into a queue that exit through a a not specified to exist, will instead egress to the o	an interface for which the queue default queue on the interface.
Aark Differentiated Service Code Point (DSCP):	
fark 802.1p-priority:	
Class non-vian packets egress to a non-vian inter Class vian packets egress to a non-vian interface Class non-vian packets egress to a vian interface Class vian packets egress to a vian interface will	face will be tagged with VID 0 and the class rule p-bits. will have the packet p-bits re-marked by the class rule p-bits. No additional stan tag is added will be tagged with the interface VID and the class rule p-bits. be additionally tagged with the packet VID, and the class rule p-bits.
iet Rate Limit:	[kb#s/s]
	Apply/Save

Routing

To access the **Routing** windows, click the **Routing** button in the **Advanced Setup** directory.

Default Gateway

Default gateway interface list can have multiple WAN interfaces served as system default gateways but only one will be used according to the priority with the first being the highest and the last one the lowest priority if the WAN interface is connected. Priority order can be changed by removing all and adding them back in again. Click the **Apply / Save** button when you are finished.

Routing - Default Sateway

Default geteway interface list can have multiple WWW interfaces served as system default gateways but only one will be used according to the priority with the first being the highest and the list one the lowest priority if the WWW interface is connected. Priority order can be changed by removing all and adding them back in again.

Gabeway Interfaces	Inforfacios (pop?	
1000: PV6 ***** Sok	oct a profiered was interface as the system default if in galoway.	
TODO: 1946	oct a profered was interface as the system default Phil Galaway. N'IGUNED INTERFACE 🐱	
TODO: 1946 ********* Sak Selected XXXX Interface (110 COI	ect a proferred was interface as the system default Prin Galaway. REJERRED INTERFACE	

Static Route

Click the Add button on the Routing – Static Route window to access the Routing – Static Route (A maximum 32 entries can be configured) following window displayed on the next page.

IP Version DstIP/ PrefixLength Gateway Interface metric Remove

Add Remove

Appendix A - Troubleshooting

Enter the static routing information for an entry to the routing table. Click the **Apply / Save** button when you are finished.

Routing - Static Route Add

Enter the destriation network address, subnet mask, gateway ANE)/OR available WAN interface then click "Apply/Save" to add the entry to the routing table.



Policy Routing

Click the **Add** button on the **Policy Routing Settup** window to access the Policy Routing Setting - A maximum 8 entries can be configured. following window displayed on the next page.

Policy Name Source IP LAN Port WAN Default GW Remove

Add Remove

Appendix A - Troubleshooting

Enter the Policy Routing information.Click the **Apply / Save** button when you are finished.

Policy Routing Settup

Enter the policy name, policies, and WAN interface then click "Apply/Save" to add the entry to the policy routing table. Note: If selected "IPoE" as WAN interface, default gateway must be configured.

Physical LAN Port:	~
Source IP:	
Use Interface 3G dongle/ppp7 🖌	

Apply/Save

RIP

To activate RIP for the device, select the **Enabled** radio button for Global RIP Mode. To configure an individual interface, select the desired RIP version and operation, followed by placing a check in the 'Enabled' checkbox for the interface. Click the **Save/Apply** button to save the configuration, and to start or stop RIP based on the Global RIP mode selected.

Routing - RIP Configuration

concerd - way counder actory

NOTE: RIP CANNOT BE CONFIGURED on the WAN interface which is PPP or has NAT enabled.

To activate RUP for the WAN Interface, select the desired RUP varian and operation and place a check in the "Evabled" diverbior. To stop RUP on the WAN Interface, uncheck the "Evabled" checkbox. Click the "Apply/Slave" button to star/stop RUP and save the configuration.

Interface Version OperationEnabled

WAN Interface not used for R.F.

DNS

To access the **DNS** windows, click the **DNS** button in the **Advanced Setup** directory. The **DNS** button appears when configuring WAN interface in PPPoA, PPPoE, MER or IPoA.

DNS Server

Select DNS Server Interface from available WAN interfaces OR enter static DNS server IP addresses for the system. In ATM mode, if only a single PVC with IPoA or static IPoE protocol is configured, Static DNS server IP addresses must be entered.

DNS Server Interfaces can have multiple WAN interfaces served as system dns servers but only one will be used according to the priority with the first being the higest and the last one the lowest priority if the WAN interface is connected. Priority order can be changed by removing all and adding them back in again. Click the **Apply / Save** button when you are finished.

NS Server Configuration

Secondary DNS server

SelectONG Server Prior face from available WWN interfaces OF enter starts: DNS server IP addresses for the notes. In ATM mode, if only a single PAC with PoA or starts: PoE protocol is configured, Static DNS server IP addresses must be enter est

DNS Server Interfaces can have multiple VIIII interfaces served an system dis servers but any one will be used according to the priority with the first being the higest and the list one the towest priority of the WMI interfaces a consected. Priority and/or an be changed be removing all and adding them back in again.

O Sidect DNS Server Interface from available WAN Interfaces:



TODO: P/vi ********* Select the centigened invite interface for IPvi Deli server information OR enter the static IPvi Deli server addresses Note that velocity a Vueri interface for Pvi Deli server will enable DHDHe Chard on that interface.

WAR Interface selected	N. LANDERS THERE'S .
One the fullowing State	ic 1946 CPIES address
Primary IPv6 DNS server:	1
Sacondary Pvis DER same	- F

AppleSee

Dynamic DNS

The Router supports Dynamic DNS (Dynamic Domain Name Service). The Dynamic DNS service allows a dynamic public IP address to be associated with a static host name in any of the many domains, allowing access to a specified host from various locations on the Internet. This is enabled to allow remote access to a host by clicking a hyperlinked URL in the form hostname.dyndns.org, Many ISPs assign public IP addresses using DHCP, this can make it difficult to locate a specific host on the LAN using standard DNS. If for example you are running a public web server or VPN server on your LAN, this ensures that the host can be located from the Internet if the public IP address changes. DDNS requires that an account be setup with one of the supported DDNS providers.

Click Add to see the Add DDNS Settings section.

Enter the required DDNS information, click the Apply / Save button to save the information.



DDNS requires that an account be setup with one of the supported DDNS servers prior to engaging it on the Router. This function will not work without an accepted account with a DDNS server.

Dynamic DNS

The Dynamic DNS service allows you to also a dynamic IP address to a static hestname in any of the many domains, allowing your Broadband Router to be more easily accessed from variaus locations on the Internet.

Choose Add or Remove to configure Dynamic DNS.

lostname	Usermonie	Gervice	Interface	Remove
	6:3:5	Removi		

Add Dynamic DNS

This page allows you to add a Dynamic DNS address from DynDNS.org or TZO.

D-DNS provider	DynDNS. org 👻
Hostname	Hostname
Interface	3G dongle/ppp7 🔽
DynDNS Settings	
Username	
Password	

UPNP

To access the UPnP Configuration window, click the UPnP button in the Advanced Setup directory.

This window allows you to Config UPnP Proxy. Click the **Apply / Save** button when you are finished.

UPnP Configuration

NOTE: UPnP is activated only when there is a live WAN service with NAT enabled.

🔽 Enable UPnP

Apply/Save

DNS Proxy

To access the **DNS Proxy Configuration** window, click the **DNS Proxy** button in the **Advanced Setup** directory.

This window allows you to Config DNS Proxy. Click the **Apply / Save** button when you are finished.

DNS Proxy Configuration

Enable DNS Proxy

Host name of the Broadband Router: Broadcom
Domain name of the LAN network: Home

Apply/Save

Interface Group

Interface Group supports multiple ports to PVC and bridging groups. Each group will perform as an independent network.

To support this feature, you must create mapping groups with appropriate LAN and WAN interfaces using the Add button. The Remove button will remove the grouping and add the ungrouped interfaces to the Default group. Only the default group has IP interface.

Click Add to do advanced settings.

Interface Grouping - A maximum 16 entries can be configured

Interface Grouping tapports multiple ports to PVC and bridging groups. Each group will perform as an independent network. To support the feature, you must neede mapping groups with appropriate UAV and WWV interfaces using the add butters. The Remove butters will remove the grouping and add the ungrouped Interfaces to the Default group. Only the default group has the interfaces.

taroop Name	dimove.	WAN Interface	LAN Infortances	DEP Veralue ID1
			08%	
Default			etti 1	
			082	
			660	
			wieto	

To create a new mapping group, enter **Group Name**, add interfaces to **Grouped Interfaces**.

Click Apply / Save to save the changes.

Interface prosping Configeration

To many server produce group: A, Erne the Golg carbon with the programme result for angles and other offset 3. (According or 3. (Early) below

2. D you like to converse du shé UAP dont to a WAP (markut in finance programming CPC) wonter D young a DPCP conter D young and CPCP conter D young an

2. Solid instance from the scalable trackets for and will in the properties for any the event formation over the supervision and any of the proc. Note that these distance may advise public IP addresses

4. Gol Apply Dava Juliania waka the during affective consultants

DMMITARY IF a resulter like configured for a specific door device, glosor REMOUT do obser device arrayford to the modes to allow it to device an again prior IP address.

General National Acceleration Acceleration and the second states a



Georgeoid & AM Executioner descubility Labor Security



Autoreantic off ABE Classes Mark-Nite Attaching BIEC/F Verebri IDr

Aphiles

IPSec

To access the IPSec Tunnel Mode Connections window, click the IPSec button in the Advanced Setup directory.

This window allows you to configure **IPSec**.

Click **Add New Connection** to edit IPSec tunnel mode connections from this page

IPSec Tunnel Mode Connections

Add, remove or enable/disable IPSec turnel connections from this page.

Connection Name Remote Gateway Local Addresses Remote Addresses Remove

Add New Connection Harnste

<u>Appendix A – Troubleshooting</u>

This window allows you to advanced settings.	IPSec Settings	
	IPSec Connection Name	new connection
	Tunnel Mode	ESP 💌
	Remote IPSec Gateway Address (IPv4 address in dotted decimal)	0.0.0.0
	Tunnel access from local IP addresses	Subnet 🗸
	IP Address for VPN	0.0.0.0
	IP Subnetmask	255.255.255.0
	Tunnel access from remote IP addresses	Subnet
	IP Address for VPN	0.0.0.0
	IP Subnetmask	255.255.255.0
	Key Exchange Method	Auto(IKE) 🖌
	Authentication Method	Pre-Shared Key 😽
	Pre-Shared Key	key
	Perfect Forward Secrecy	Disable 🐱
	Advanced IKE Settings	Show Advanced Settings
		Apply/Save

Multicast

To access the IGMP Configuration window, click the Multicast button in the Advanced Setup directory.

Enter IGMP protocol configuration fields if you want modify default values shown below.

IGMP Configuration

Enter IGMP protocol configuration fields if you want modify default values shown below.

Default Version:	э	1
Query Interval:	125	
Query Response Interval:	10	
Last Member Query Interval:	10	
Robustness Value:	2	ŋ
Maximum Multicast Groups:	25	
Maximum Multicast Data Sources (for IGMPv3 : (1 - 24))	10	Ĩ
Maximum Multicast Group Members:	25	
Fast Leave Enable :	2	
LAN to LAN (Intra LAN) Multicast Enable:		
Mebership Join Immediate (IPTV):		

MLD Configuration

Enter MLD protocol (IPv6 Multicast) configuration fields if you want modify default values shown below.

Default Version:	2
Query Interval:	125
Query Response Interval:	10
Last Member Query Interval:	10
Robustness Value:	2
Maximum Multicast Groups:	10
Maximum Multicast Data Sources (for mldv3):	10
Maximum Multicast Group Members	10
Fast Leave Enable:	
LAN to LAN (Intra LAN) Multicast Enable:	N



Security

This page allows you to configure security features of the wireless LAN interface.

You may setup configuration manually or through WiFi Protcted Setup(WPS)

You can select to configure WEP encryption, Shared, 802.1x, WPA, and WPA2 authentication.

Wireless - Security

This page allows you to configure security features of the wireless LAN interface. You may setup configuration manually OR through W/Fi Prototed Setup (WPS) Note: When both STA PIN and Authorized MAC are empty, PBC is used. If Hide Access Point enabled or Mac filter list is empty with "allow" chosen, WPS2 will be disabled WPS Setup Enable WPS Disabled 🥪 Manual Setup AP You can set the network authentication method, selecting data encryption, specify whether a network key is required to authenticate to this wireless network and specify the encryption strength. Click "Apply/Save" when done.

Select SSID:	BrcmAPO	
Network Authentication:	Open	*
WEP Encryption:	Disabled 🤟	
	Apply/Save	

MAC Filter

This page can help you to allow or deny certain MAC addresses to pass through or block out. Click **Add** to see the following page.

NAC Restrict Mode:

Disabled
Allow
Deny
Note: If 'allow' is choosed and mac filter is empty, WPS will be disabled

MAC Address

Remove

Enter MAC Address and click **Apply / Save** to add the MAC address to MAC filter.

Wireless -- MAC Filter

Enter the MAC address and click "Apply/Save" to add the MAC address to the wireless MAC address filters.

MAC Address;

Apply/Save

Advanced

This page allows you to configure advanced wireless LAN interface. Configuring these settings may increase the performance of your router but if you are not familiar with networking devices and protocols, this section should be left at its default settings. Click **Apply / Save** to save the settings.

Wireless - Advances

This page allows you to configure advanced features of the wheleas LASI interface. You can exilect a particular channel on which to operate, fonce the transmission rate to a porticular speed, set the fragmentation threshold, with the RTE threshold, with the walespiniterial for clients in power-size made, set the teacon interval for the access point, set XPress mode and set whether stort or long presentates are used. CKX: Youp/year's configure the atmost whether approximation.



Station Info

This page shows the authenticated wireless stations and their status. Click **Refresh** to update the information.

Wireless -- Authenticated Stations

This page shows authenticated wireless stations and their status.

MAC Associated Authorized SSID Interface

Diagnostics

Your modem is capable of testing your DSL connection with access to Diagnostics.

This window is used to test connectivity of the Router.

Diagnostics

The individual tests are listed below. If a test displays a fail status, click "Ranue Diagnostic Tests" at the bottom of this page to make sum the fail status is consistent. If the test continues to fail, click "Help" and follow the tradelectoroting procedures.

Test the connection to your loca	d netwo	ark .
Test your oth0 Connection:	PASS	Help
Test your eth2 Connection:	FAIL	Help
Test your eth3 Connection:	FAIL.	Help
Test your ethit Connection:	FAIL.	Help
Test your Wireless Connection:	PASS	Help

Renun Diagnootic Teste

Management

The Management directory features an array of options designed to help you get the most out of your Router.

Settings

To access the Settings - Backup window, click the Settings button in the Management directory.

This window allows you to backup your DSL Router configurations.

Click the **Backup Settings** button to save your Router configurations to a file on your computer.

This window allows Update DSL router settings. You may update your router settings using your saved files.

Click the **Update Settings** button to update your Router configurations with a file on your computer.

Settings - Backup

Backup Broadband Router configurations. You may save your router configurations to a file on your PC.

Backup Settings

Tools --- Update Settings

Update Broadband Router settings. You may update your router settings using your saved files.

Settings File Name: _____ 浏览....

Update Settings

This window allows Restore DSL router settings to the factory defaults.

Click the **Restore DSL Settings** button to restore DSL router settings to the factory defaults.

Tools --- Restore Default Settings

Restore Broadband Router settings to the factory defaults.

Restore Default Settings

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Internet Time

To access the Time settings window, click the Internet Time button in the Management directory.

This window allows you to set the Router's time configuration. When you are finished, click the **Save/Apply** button.

Time settings

This page allows you to set the DSL Router's time configuration.

Automatically synchronize with Internet time servers

Apply/Save

Access Control

To access the Access Control windows, click the Access Control button in the Management directory.

Passwords

This window allows you to change the password on the Router. When you are finished, click the **Save/Apply** button.

Access Control - Passwords

Access to your broadband router is controlled through three user accounts: admin, support, and user.

The user name "admin" has unrestricted access to change and view configuration of your Broadband Router.

The user name "support" is used to allow an ISP technician to access your Broadband Router for maintenance and to run diagnostics.

The user name "user" can access the Broadband Router, view configuration settings and statistics, as well as, update the router's software.

Use the fields below to enter up to 16 characters and click "Apply/Save" to change or create passwords. Note: Password cannot contain a space.



Apply/Save

Reboot

To access this window, click the **Reboot** button in the **Management** directory.

To save your settings and reboot the system, click the **Reboot** button.

Click the button below to reboot the router.

Reboot

Troubleshooting

This chapter provides solutions to problems that might occur during the installation and operation of the DSL-STV504. Read the following descriptions if you are having problems. (The examples below are illustrated in Windows® XP. If you have a different operating system, the screenshots on your computer will look similar to the following examples.)

1. How do I configure my DSL-STV504 Router without the CD-ROM?

- Connect your PC to the Router using an Ethernet cable.
- Open a web browser and enter the address http://192.168.1.1
- The default username is 'admin' and the default password is 'admin'.
- If you have changed the password and cannot remember it, you will need to reset the Router to the factory default setting (see question 2), which will set the password back to 'admin'.

Note: Please refer to the next section "Networking Basics" to check your PC's IP configuration if you can't see the login windows.

2. How do I reset my Router to the factory default settings?

- Ensure the Router is powered on.
- Press and hold the reset button on the back of the device for approximately 10 seconds.
- This process should take around 30~60 seconds.

3. What can I do if my Router is not working correctly?

There are a few quick steps you can take to try and resolve any issues:

- Follow the directions in Question 2 to reset the Router.
- Check that all the cables are firmly connected at both ends.
- Check the LEDs on the front of the Router. The Power indicator should be on, the Status indicator should flash, and the DSL and LAN indicators should be on as well.
- Please ensure that the settings in the Web-based configuration manager, e.g. ISP username and password, are the same as the settings that have been provided by your ISP.

4. Why can't I get an Internet connection?

For ADSL ISP users, please contact your ISP to make sure the service has been enabled/connected by your ISP and that your ISP username and password are correct.

5. What can I do if my router can't be detected by running installation CD?

- Ensure the Router is powered on.
- Check that all the cables are firmly connected at both ends and all LEDs work correctly.
- Ensure only one network interface card on your PC is activated.
- Click on Start > Control Panel > Security Center to disable the setting of Firewall.





Note: There might be a potential security issue if you disable the setting of Firewall on your PC. Please remember to turn it back on once you have finished the whole installation procedure and can surf on Internet without any problem.

FCC Information

FCC Caution

• Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

• This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

• For product available in the USA market, only channel 1~11 can be operated. Selection of other channels is not possible.

• This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

This device must not be co-located or operating in conjunction with any other antenna or transmitter

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

Federal Communications Commission (FCC) Requirements, Part 15

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

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

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

Regulatory information / Disclaimers

Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. The manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, or the substitution of the connecting cables and equipment other than manufacturer specified. It is the responsibility of the user to correct any interference caused by such unauthorized modification, substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government

CAUTION: To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use on the supplied antenna. Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations.

MPE Statement (Safety Information)

Your device contains a low power transmitter. When device is transmitted it sends out Radio Frequency (RF) signal.

FCC Information to User

This product does not contain any user serviceable components and is to be used with approved antennas only. Any product changes or modifications will invalidate all applicable regulatory certifications and approvals.

Safety Information

In order to maintain compliance with the FCC RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use only with supplied antenna. Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations.

