

Step 5: Select Internet Protocol Version 4 (TCP/IPv4) then click Properties:

Connect using:		
Realtek U	SB Remote NDIS Device	#2
		Configure
This connection u	uses the following items:	
Client fo	r Microsoft Networks	
QoS Pa	cket Scheduler	
File and	Printer Sharing for Micros	oft Networks
Internet	Protocol Version 6 (TCP/	(Pv6)
	er Lopology Discovery IV	apper I/O Driver
🗹 🔺 Link-Lay	er Topology Discovery R	esponder
		NY LAND AN AND AN
Install	Uninstall	Properties
Description	0.00 0200 C 0000 000	Protocol. The default
Description Transmission (Control Protocol/Internet P	
Description Transmission (wide area netv	Control Protocol/Internet P vork protocol that provide	s communication
Description Transmission (wide area netw across diverse	Control Protocol/Internet F vork protocol that provide interconnected networks	s communication

Configure IP address Automatically:

Step 6: Select Obtain an IP address automatically and Obtain DNS server address automatically. Click OK to finish the configuration.

	Alternate Configuration				
You car this car	n get IP settings assigned a ability, Otherwise, you ne	automatically i ed to ask you	f your r r netwo	network rk admir	supports iistrator
for the	appropriate IP settings.				
0	btain an IP address autom	atically			
0 U	e the following IP address				
<u>I</u> P a	ddress:	+	- <u>S</u>	+	
Sybr	net mask:			2	
Defa	ult gateway:			э.	
0	btain DNS server address a	automatically			
O Us	s <u>e</u> the following DNS serve	r addresses:			
Pref	erred DNS server:	() 4	14	12	
<u>A</u> lter	nate DNS server:	ſ.,			
				Adv	anced

Configure IP Address Manually:

Step 7: Select Use the following IP address and Use the following DNS server addresses.

u can get IP settings assigned	automatically if your petwork supports
is capability. Otherwise, you ne r the appropriate IP settings	eed to ask your network administrator
and appropriate in Sectings.	
Obtain an IP address autom	atically
Use the following IP address	5:
<u>I</u> P address:	192 . 168 . 1 . 10
S <u>u</u> bnet mask:	255.255.255.0
<u>D</u> efault gateway:	192.168.1.1
Obtain DNS server address	automatically
Use the following DNS serve	er addresses:
Preferred DNS server:	168 . 95 . 1 . 1
<u>A</u> lternate DNS server:	
	Advanced

IP address: Fill in IP address 192.168.1.x (x is a number between 2 to 254).

Subnet mask: Default value is 255.255.255.0. Default gateway: Default value is 192.168.1.1. Preferred DNS server: Fill in preferred DNS server IP address. Alternate DNS server: Fill in alternate DNS server IP address.

You can use ping command under DOS prompt to check if you have setup TCP/IP protocol correctly and if your computer has successfully connected to this router.

1) Type **ping 192.168.1.1** under DOS prompt and the following messages will appear:



lf

communication link between your computer and router is not setup correctly, after you type

ping 192.168.1.1 under DOS prompt following messages will appear:

Pinging 192.168.1.1 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

This failure might be caused by cable issue or something wrong in configuration procedure.

For Windows 7

Step 1: Click Start then select Control Panel.



Step 2: Double-click Network and Sharing Center icon.

🔾 🔿 🗢 💷 🕨 Control Panel 🕨 All Con	trol Panel Items 🕨	
Adjust your computer's settings		View by: Small icons 🔻
* Action Center	Administrative Tools	🛃 AutoPlay
Backup and Restore	Real BitLocker Drive Encryption	💶 Color Management
Credential Manager	Pate and Time	🕜 Default Programs
Desktop Gadgets	🚔 Device Manager	B Devices and Printers
🖳 Display	Base of Access Center	Folder Options
Fonts	🚽 Getting Started	RomeGroup
Provide the second seco	🔁 Internet Options	📖 Keyboard
Location and Other Sensors	J Mouse	Network and Sharing Center
Rotification Area Icons	4 Parental Controls	Performance Information and Tools
Personalization	Phone and Modem	Power Options
Programs and Features	Recovery	Aregion and Language
🐻 RemoteApp and Desktop Connections	🛋 Sound	Speech Recognition
Sync Center	I System	Taskbar and Start Menu
Troubleshooting	& User Accounts	📑 Windows CardSpace
Windows Defender	Windows Firewall	Windows Update



Step 4: Select Properties:

	ion 2 Status
General	
Connection	
IPv4 Connectivity:	No network acces
IPv6 Connectivity:	No network acces
Media State:	Enable
Duration:	00:06:3
Speed:	480.0 Mbp
Details	
Activity —	
Activity	Sent — Received
Activity	Sent — Received 0 28,91
Activity Bytes:	Sent — Received 0 28,91

Step 5: Select Internet Protocol Version 4 (TCP/IPv4) then click Properties:

23

Local Area Connection 2 Properties
Networking Sharing
Connect using:
Realtek USB Remote NDIS Device
Configure This connection uses the following items:
 Client for Microsoft Networks QoS Packet Scheduler File and Printer Sharing for Microsoft Networks Internet Protocol Version 6 (TCP/IPv6) Internet Protocol Version 4 (TCP/IPv4) Internet Protocol Version 4 (TCP/IPv4) Ink-Layer Topology Discovery Mapper I/O Driver Link-Layer Topology Discovery Responder
Install Uninstall Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
OK Cancel

Configure IP address Automatically:

Step 6: Select Obtain an IP address automatically and Obtain DNS server address automatically. Click OK to finish the configuration.

seneral	Alternate Configuration	n				
You car this cap for the	n get IP settings assigne bability. Otherwise, you i appropriate IP settings.	d automatic need to ask	ally if your r	your n networ	etwork : k admin	supports istrator
0	otain an IP address auto	matically				
- O U	e the following IP addre	SS:				
<u>I</u> P a	ldress:					
Subr	net mask:					
Defa	ult gateway:				÷.	
0	otain DNS server addres	s automatic	ally			
U:	e the following DNS serv	ver address	es:			
Pref	erred DNS server:			200		
Alter	nate DNS server:			20		
V	aļidate settings upon ex	it			Adv	anced

Configure IP Address Manually:

eneral	
You can get IP settings assigned a this capability. Otherwise, you ne for the appropriate IP settings.	automatically if your network supports ed to ask your network administrator
Obtain an IP address automa	atically
O Use the following IP address	
IP address:	192.168.1.10
Subnet mask:	255.255.255.0
Default gateway:	192.168.1.1
Obtain DNS server address a	automatically
Use the following DNS serve	r addresses:
Preferred DNS server:	195.68.1.1
Alternate DNS server:	• • •
🔲 Validate settings upon exit	Ad <u>v</u> anced

Step 7: Select Use the following IP address and Use the following DNS server addresses.

IP address: Fill in IP address 192.168.1.x (x is a number between 2 to 254).

Subnet mask: Default value is 255.255.255.0.

Default gateway: Default value is 192.168.1.1.

Preferred DNS server: Fill in preferred DNS server IP address.

Alternate DNS server: Fill in alternate DNS server IP address.

You can use ping command under DOS prompt to check if you have setup TCP/IP protocol correctly and if your computer has successfully connected to this router.

1) Type **ping 192.168.1.1** under DOS prompt and the following messages will appear:



If the communication link between your computer and router is not setup correctly, after you type **ping 192.168.1.1** under DOS prompt following messages will appear:

Pinging 192.168.1.1 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

This failure might be caused by cable issue or something wrong in configuration procedure.

4. Configure Wireless LAN ADSL2+ Router via HTML Interface

Wireless LAN ADSL2+ Router supports a Web-based (HTML) GUI to allow users to configure Router setting via Web browser.

4.1 Login

- 1) Launch the Web browser.
- 2) Enter the default IP address http://192.168.1.1

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3) Entry of the username and password will be displayed. Enter the default login

User Name and Password as admin and admin.

Windows Security		x
The server 192.16	58.1.1 at requires a username and password.	
Warning: This se sent in an insecu connection).	erver is requesting that your username and password are manner (basic authentication without a secure	be
	admin ••••• Remember my credentials	
	OK	cel

The main webpage will be displayed as below:

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ADSL Router Webserver			👌 • 🕅 • 🖂	🚔 🕶 Page 🕶	Şafety 🕶 Tgols 🕶 🔞
	·				
Site contents:	ADSI Douto	. Status			
Status	ADSL Route	r status			
LAN	This page shows the cur	ant status and some	havin sattings of the device		
Wireless	This page shows the cur	en status and some	basic settings of the device.		
WAN					
Services	System				
Diagonastic	Alias Name	WRT501			
Admin	Uptime	6 min			
Statistics	Firmware Version	2.0.0			
	DSP Version	2.9.0.4i			
	Name Servers				
	Default Gateway				
	DSL				
	Operational Status	ACTIVATING.			
	Upstream Speed	0 kbps			
	Downstream Speed	0 kbps			
	LAN Configuration	102.148.1.1			
	IP Address	192.168.1.1			
	Subnet Mask	255.255.255.0			
	MAC Address	00x04c967001			
	MAC Address	006040807001			
	WAN Configuration				
	Interface VPI/VCI	Encap Proto	ol IP Address	Gateway	Status
				varia,	down 0sec /
	ppp0_vc0 0/35	LLC PPPo	E		Osec
	Refresh				
ne			Internet Protected Mode:	On	- 100% ·

4.2 Status

This page displays the ADSL router's current status and settings. Click "**Refresh**" button to update the status.

Nouter Webserver - Windows	Internet Explorer						
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SL Router Webserver			- <u>h</u> -	🔊 - 🖂 é	🖶 👻 Page 🕶	Safety - Tools -	6
	•						_
contents:	ADSI, Router	Status					
tatus	ADSL Router	Status					
AN	This page shows the curre	nt status and some l	asic settings of	the device.			
Vireless	This page shows the cure	in status and some (asso securitys or i	are device.			
VAN							
ervices	System						
dvance inamentia	Alias Name	WRT501					
desin	Uptime	6 min					
tatistics	Firmware Version	2.0.0					
	DSP Version	2.9.0.4i					
	Name Servers						
	Default Gateway						
	DSL						
	Operational Status	ACTIVATING.					
	Upstream Speed	0 kbps					
	Downstream Speed	0 kbps					
	LAN Configuration						
	IP Address	192.168.1.1					
	Subnet Mask	255.255.255.0					
	DHCP Server	Enabled					
	MAC Address	00e04c867001					
	WAN Configuration						
		Encap Protoc	A IP Add	dress	Gateway	Status	
	Interface VPI/VCI						
	ppp0_vc0 0/35	LLC PPPol	t			down 0sec /	
	ppp0_vc0 0/35	LLC PPPol	1			down 0sec / 0sec	

4.3 LAN

This page shows the current setting or LAN interface. You can set IP address and subnet mask for LAN interface in this page.

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Site contents: Status Wireless WAN Services Advance Diagnostic Admin Statistics	LAN Interfat This page is used to conthe setting for IP address Interface Name: IP Address: Subnet Mask: Secondary IP Ethernet to Wireless Blocking: Apply Changes	ce Setup nfigure the LAN interface of your ADSL Router. Here you may change ises, subnet mask, etc br0 192.168.1.1 255.255.255.0 © Disabled © Enabled
Done		🌏 Internet Protected Mode: On 🛛 🖓 ▼ 🔍 100% 👻

IP Address -- The IP Address which your LAN hosts use to identify the device's LAN port.

Subnet Mask -- LAN Subnet mask.

Apply Change -- Click to save the setting to the configuration. New parameters will take effect after save into flash memory and reboot the system.

4.4 Wireless

4.4.1 Basic Settings

This page is used to configure the parameters for wireless LAN clients who may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

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ADSL Router Webserver		🐴 🔻 🔝 👻 🚍 🖶 👻 <u>P</u> age 👻 <u>S</u> afety 👻 T <u>o</u> ols 👻	?▼
 Site contents: Status LAN Wireless Basic Settings Advanced Settings Security Access Control 	Wireless B This page is used to your Access Point. H network parameters.	asic Settings configure the parameters for wireless LAN clients which may connect to Here you may change wireless encryption settings as well as wireless ess LAN Interface	
MBSSID	Band:	2.4 GHz (B+G+N) ▼	
WAN Services	SSID:	Default_WLAN	
Diagnostic	Channel Width:	40MHZ -	
Admin Statistics	Conntrol Sideband:	Upper 💌	
	Channel Number:	Auto 👻	
	Radio Power (mW):	60 mW 👻	
	Associated Clients:	Show Active Clients	
	Apply Changes	5	
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Band: This is the range of frequencies the gateway will use to communicate with your wireless devices. As you're looking for products in stores or on the Internet, you might notice that you can choose equipment that supports six different wireless networking technologies: 2.4 GHz(B), 2.4 GHz(G), 2.4 GHz(B+G), 2.4 GHz(N), 2.4 GHz(G+N), and 2.4 GHz(B+G+N).

Mode: Default set to AP mode.

SSID: Specify the network name. Each Wireless LAN network uses a unique Network Name to identify the network. This name is called the Service Set Identifier (SSID). When you set up your wireless adapter, you specify the SSID. If you want to connect to an existing network, you must use the make up your own name and use it on each computer. The name can be up to 20 characters long and contain letters and numbers.

Channel Width: There have 2 options - 20MHZ and 40 MHZ

Control Sideband: Specify if the extension channel should be in the **Upper** or **Lower** sideband.

Channel Number: Sets the channel on which the gateway operates.

Radio Power (mW): A milliwatt (mW) is also a unit of power. To put it simply, a milliwatt is 1/1,000 of a watt. The reason you need to be concerned with milliwatts is because most of the

802.11 equipment that you will be using transmits at power levels between 1 and 100 mW **Associated Clients:** This table shows MAC address, transmission, reception packet counters and encrypted status for each associated wireless clients.

4.4.2 Advanced Settings

These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the change will have on your Access Point.

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Site contents:	Wireless Adv	anced Se	ttinas		
Status	WII CICSS AUV	anceu se	ttings		
Wireless	These settings are only for about wireless LAN. The	or more technicall se settings should	y advanced users who have a d not be changed unless you	a sufficient knowledge know what effect the	
Basic Settings	changes will have on you	r Access Point.			
Security					
Access Control	Authentication Type:	Open System Shared Key Auto			
	Fragment Threshold:	2346	(256-2346)		
WAN	RTS Threshold:	2347	(0-2347)		
Services	Beacon Interval:	100	(20-1024 ms)		
Diagnostic	Data Rate:	Auto 👻			
Admin	Preamble Type:	Long Preamble Short Preamble			
Statistics	Broadcast SSID:	Enabled	Disabled		
	Relay Blocking:	Enabled	Oisabled		
	Protection:	Enabled	Oisabled		
	Aggregation:	Enabled	Disabled		
	Short GI:	Enabled	Oisabled		
	Apply Changes	1			
	Apply changes	J			
Done		😝 Internet Pro	tected Mode: On	📲 👻 🔍 100% 🔻 💡	

Authentication Type: There has 3 types – Open System, Shared Key, and Auto

Fragment Threshold: Fragmentation Threshold sets the frame size of incoming messages (ranging from 256 to 2346 bytes) used as fragmentation boundary. If the frame size is too big, the heavy interference affects transmission reliability. If the frame size is too small, it decreases transmission efficiency. Default setting is 2346.

RTS Threshold: Lower the signal RTS (Request To Send) to promote the transmission efficiency in condition of noisy environment or too many clients. Default setting is 2347.

Beacon Interval: Beacon Interval means the period of time between one beacon and the next

one. The default value is 100 (the unit is millisecond, or 1/1000 second). Lower the Beacon Interval to improve transmission performance in unstable environment or for roaming clients, but it will be power consuming.

Data Rate: Set the wireless data transfer rate to a certain value. Since most of wireless devices will negotiate with each other and pick a proper data transfer rate automatically, it's not necessary to change this value unless you know what will happen after change the value. [Auto] is recommended to maximize performance.

Preamble type: Preamble is the first sub field of PPDU, which is the appropriate frame format for transmission to PHY (Physical layer). There are two options, Short Preamble and Long Preamble.

Short GI: Using a short (400ns) guard interval can increase throughput. However, it can also increase error rate in some installations, due to increased sensitivity to radio-frequency reflections

4.4.3 Security

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

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ADSL Router Webserver		🟠 🔻 🔝 👻 🖃 🖶 👻 <u>P</u> age 🕶 <u>S</u> a	fety ▼ T <u>o</u> ols ▼
Site contents: Status LAN Basic Settings Advanced Settings Security Access Control WPS MBSSID WAN Services Advance Diagnostic Admin Statistics	Wireless Security This page allows you setup the win could prevent any unauthorized ac SSID TYPE: Encryption: None Use 802.1x Authentication WPA Authentication Mode: Pre-Shared Key Format: Pre-Shared Key: Authentication RADIUS Server: Note: When encryption WEP is set	Setup reless security. Turn on WEP or WPA by using Encr cess to your wireless network. Root VAP0 VAP1 VAP2 VAP SetWEP Key WEP 64bits WEP 128bits Enterprise (RADIUS) Personal (Pre-Shared Passphrase * Port 1812 IP address 0.0.0 Passw lected, you must set WEP key value.	yption Keys 3 Key) vord
		miternet Protectea Wode: On	100 % ·

Encryption: There have 4 encryption options – WEP, WAP (TKIP), WPA2(AES), and WPA2 Mixed.

WPA authentication mode: WPA operates in either WPA-PSK mode (Pre-Shared Key or WPA-Personal) or WPA-802.1x mode (RADIUS or WPA-Enterprise). In the Personal mode, a pre-shared key or passphrase is used for authentication. In the Enterprise mode, which is more difficult to configure, the 802.1 x RADIUS servers and an Extensible Authentication Protocol (EAP) are used for authentication.

Pre-Shared Key Format: select Passphrase mode or Hex mode for the Pre-Shared Key.

Pre-Shared Key: Enter the Pre-Shared via using the Passphrase mode or Hex mode.

Authentication RADIUS server: fill the port, IP address and the password of the RADIUS server.

4.4.4 Access Control

If you know choose "**Allowed Listed**" from Wireless Access Control mode, only chose clients whose wireless MAC address are in the access control list will be able to connect to your Access Point. When "**Deny Listed**" is selected, these wireless clients on the list will not be able to connect the AP.

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ADSL Router Webserver	🔓 🔻 🖻 👻 🖶 🖉 Age 🗸	r <u>S</u> afety ▼ T <u>o</u> ols ▼ @ ▼
Site contents: Status LAN Wireless Advanced Settings Security Access Control WPS WAN Services Advance Diagnostic Admin Statistics	Wireless Access Control If you choose 'Allowed Listed', only those clients whose wireless MAC addresses access control list will be able to connect to your Access Point. When 'Deny Liste selected, these wireless clients on the list will not be able to connect the Access Point. When 'Deny Liste selected, these wireless Clients on the list will not be able to connect the Access Point. When 'Deny Liste selected, these wireless Clients on the list will not be able to connect the Access Point. When 'Deny Liste selected, these wireless Clients on the list will not be able to connect the Access Point. When 'Deny Liste selected is wireless Clients on the list will not be able to connect the Access Point. When 'Deny Liste selected (ex. 00E086710502) MAC Address: (ex. 00E086710502) Add Reset Current Access Control List: NAC Address Delete Selected Delete All	s are in the ed' is 'oint. es
Done	😜 Internet Protected Mode: On	🖓 🔻 🔍 100% 👻 🔡

4.4.5 WPS

This page allows you to change the setting for WPS (Wi-Fi Protected Setup). Using this feature could let your wireless client automatically synchronize its setting and connect to the Access Point in a minute without any hassle.

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ADSL Router Webserver		🟠 🔻 🖾 👻 🚍 🖶 👻 <u>P</u> age 🕇	' <u>S</u> afety ▼ T <u>o</u> ols ▼ @▼
 Site contents: Status LAN Wireless Basic Settings Advanced Settings Access Control WPS MBSSID WAN Services Advance Diagnostic Admin Statistics 	Wi-Fi Protected S This page allows you to change t feature could let your wireless cli Access Point in a minute without Disable WPS WPS Status: Self-PIN Number: Push Button Configuration: Apply Changes Re Client PIN Number:	Setup the setting for WPS (Wi-Fi Protected Setup). ent automically syncronize its setting and co any hassle. Configured © UnConfigured 12345670 Regenerate Start PBC eset Start PIN	Using this nnect to the PIN
Done	•	Internet Protected Mode: On	🖓 🔻 🔍 100% 👻 🔡

In PIN method (PIN-Personal Identification Number), When your 11n router acts as a Registrar, your must enter "Self-PIN Number" on WPS config section, this Enrollee PIN code should be provided by the Enrollee. If your 11n router acts as a Enrollee, in WPS config section, the "Regenerate PIN" will automatically generate for you. The purpose of PIN code is to provide the security key to Registrar (AP/Server). Therefore, WPS (Wi-Fi Protected Setup) can be established completely.

In PBC Method (PBC-Push Button Communication), while the AP router acts as Registrar or Enrollee, and click "**Start PBC**" button, the WPS (Wi-Fi Protected Setup) will establish the connection automatically.

4.4.6 MBSSID

This page allows you to setup wireless multiple BSSID configuration. The Base Service Set Identifier (BSSID) is typically the MAC address if the radio. This Wireless LAN ADSL2+ Router also supports multiple BSSIDs (MBSSID) on a single AP.



4.5 WAN

There are three sub-menus for WAN configuration: **Channel Config**, **ATM Settings**, and **ADSL Settings**.

4.5.1 Channel Configuration

ADSL router comes with 8 ATM Permanent Virtual Channels (PVCs) at the most. There are mainly three operations for each of the PVC channels: add, delete, and modify. And there are several channel modes to be selected for each PVC channel. For each of the channel modes,

the setting is quite different accordingly.

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ADSL Router Webserver	🔄 + 🔯 + 🖾 🖶 - Bage + Safety + Tgols + 🖗	•
Site contents: Situs LAN Wireless Wireless Wann ATM Settings Sevices Advance Diagnostic Advanin Statistics	WAN Configuration This page is used to configure the parameters for the channel operation modes of your ADSL Modem Route. VPE VCE Encaperalacion: PIE VCE Encaperalacion: Table NAFT: Admin States: Encable Enable IGMP: Admin States: Enable QoS: PPP Settings: User Name: Paswoord: Type: Confinuous Mile Time (min): WAN IP Settings: Type: Confinuous VEL Lecal IP Address: Remote IP Address: Subset Mask: Usammbered Default Roset: Disable Subset Mask: Usammbered Default Roset: Disable Subset Mask: Usammbered Default Roset: Disable Subset Mask: Usambered Default Roset: Disable Subset Mask: Usambered Subset Mask: Usambered Default Roset: Disable Subset Mask: Usambered Default Roset: Disable Subset Mask Aus-PYC Search Adp Deice VEL Add<	
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Add -- Click Add to complete the channel setup and add this PVC channel into configuration. **Modify** -- Select an existing PVC channel by clicking the radio button at the Select column of the **Current ATM VC Table** before we can modify the PVC channel. After selecting a PVC channel, we can modify the channel configuration at this page. Click **Modify** to complete the channel modification and apply to the configuration.

Delete -- Select an existing PVC channel to be deleted by clicking the radio button at the Select column of the **Current ATM VC Table**. Click **Delet**e to delete this PVC channel from configuration.

4.5.2 ATM Settings

This page is for ATM PVC QoS parameters setting. The DSL device supports 4 QoS modes – *CBR*, *rt-VBR*, *nrt-VBR*, and *UBR*.

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Site contents: Status LAN Wireless WAN Channel Config ATM Settings ADSL Settings Advance Diagnostic Admin Statistics	ATM Settings This page is used to configure the parameters for the ATM of your ADSL Router. Here you may change the setting for VPI, VCI, QoS etc VPI: VCI: QoS: UBR PCR: CDVT: SCR: MBS: Apply Changes Undo Current ATM VC Table: Select VPI VCI QoS PCR CDVT SCR MBS 0 35 UBR 6000 0	u
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VPI -- Virtual Path Identifier. This is read-only field and is selected on the **Select** column in the Current ATM VC Table.

VCI -- Virtual Channel Identifier. This is read-only field and is selected on the **Select** column in the Current ATM VC Table. The VCI, together with VPI, is used to identify the next destination of a cell as it passes through to the ATM switch.

QoS -- Quality of Server, a characteristic of data transmission that measures how accurately and how quickly a message or data is transferred from a source host to a destination host over a network. The four QoS options are:

- UBR (Unspecified Bit Rate): When UBR is selected, the SCR and MBS fields are disabled.

- CBR (Constant Bit Rate): When CBR is selected, the SCR and MBS fields are disabled.

nrt-VBR (non-real-time Variable Bit Rate): When nrt-VBR is selected, the SCR and MBS fields are enabled.

- *rt-VBR* (real-time Variable Bit Rate): When rt-VBR is selected, the SCR and MBS fields are enabled.

PCR -- Peak Cell Rate, measured in cells/sec., is the cell rate which the source may never exceed.

SCR -- Sustained Cell Rate, measured in cells/sec., is the average cell rate over the duration of the connection.