OV501GF User Manual

VER: 1.0

OvisLink (Canada) INC

Contents

1	Safety Precautions	1
2	Overview	2
2.1	Application	2
2.2	Features	2
2.3	Standards Compatibility and Compliance	3
3	Hardware Description and Installation	3
3.1	Hardware Description	4
3.1.1	Front Panel	4
3.1.2	Rear Panel	5
3.2	Hardware Installation	6
3.2.1	Connecting the Device	6
4	PC Network Configuration and Login	7
4.1	PC Network Configuration	7
4.2	Logging In to the DSL Router	8
5	Web-Based Management	9
5.1	Device Information	9
5.1.1	Summary	9
5.1.2	WAN	10
5.1.3	Statistics	10
5.1.4	LAN	10
5.1.5	WAN Service	11
5.1.6	xTM	11
5.1.7	xDSL	12
5.1.8	Route	14
5.1.9	ARP	14
5.1.10	DHCP	14
5.2	Advanced Setup	15
5.2.1	Layer2 Interface	15
5.2.2	WAN Service	19
5.2.3	LAN Configuration	37
5.2.4	NAT	41
5.2.5	Security	45

OV501GF User Manual

5.2.6	Parental Control	48
5.2.7	Quality of Service	50
5.2.8	Routing	54
5.2.9	DNS	57
5.2.10	DSL	58
5.2.11	UPnP	59
5.2.12	DNS Proxy	60
5.2.13	Interface Grouping	60
5.2.14	IP Tunnel	61
5.2.15	IPSec	63
5.2.16	Certificate	64
5.2.17	Power Management	68
5.2.18	Multicast	69
5.3	Diagnostics	70
5.3.1	Diagnostics	70
5.4	Management	71
5.4.1	Settings	71
5.4.2	System Log	72
5.4.3	Security Log	74
5.4.4	TR-69 Client	74
5.4.5	Internet Time	75
5.4.6	Access Control	76
5.4.7	Update Software	77
5.4.8	Reboot	78
6	Q&A	79

1 Safety Precautions

Read the following information carefully before operating the device. Please follow the following precaution items to protect the device from risks and damage caused by fire and electric power:

- Use volume labels to mark the type of power.
- Use the power adapter that is packed within the device package.
- Pay attention to the power load of the outlet or prolonged lines. An
 overburden power outlet or damaged lines and plugs may cause electric
 shock or fire accident. Check the power cords regularly. If you find any
 damage, replace it at once.
- Proper space left for heat dissipation is necessary to avoid any damage caused by overheating to the device. The holes on the device are designed for heat dissipation to ensure that the device works normally. Do not cover these heat dissipation holes.
- Do not put this device close to a place where a heat source exits or high temperature occurs. Avoid the device from direct sunshine.
- Do not put this device close to a place where is over damp or watery. Do not spill any fluid on this device.
- Do not connect this device to any PC or electronic product, unless our customer engineer or your broadband provider instructs you to do this, because any wrong connection may cause any power or fire risk.
- Do not place this device on an unstable surface or support.

2 Overview

The OV501GF is a VDSL modem, which provides a fast Internet access over plain telephone wire.

It also supports Universal Plug and Play (UPnP) where UPnP devices can dynamically join the OV501GF network.

You can use the Web Configurator to view traffic statistics, upload firmware and allow external management of the OV501GF.

Network and Router management is done through the web-based management interface that can be accessed through the local Ethernet using any web browser. You may also enable remote management to enable configuration of the Router via the WAN interface.

2.1 Application

- Home gateway
- SOHOs
- Small enterprises
- Higher data rate broadband sharing
- Audio and video streaming and transfer
- Network and online gaming

2.2 Features

- User-friendly GUI for web configuration
- Several pre-configured popular games. Just enable the game and the port settings are automatically configured.
- Compatible with all standard Internet applications
- Industry standard and interoperable xDSL interface
- Simple web-based status page displays a snapshot of system configuration, and links to the configuration pages

- Downloadable flash software updates
- Support for up to 8 permanent virtual circuits (PVC)
- Support for up to 8 PPPoE sessions
- Support RIP v1 & RIP v2
- IP routing and bridging
- Asynchronous transfer mode (ATM) and digital subscriber line (DSL) support
- Point-to-point protocol (PPP)
- Network/port address translation (NAT/PAT)
- Quality of service (QoS)
- Universal plug-and-play(UPnP)
- Web filtering
- Management and control
- Web-based management (WBM)
- Command line interface (CLI)
- TR-069 WAN management protocol
- Remote update
- System statistics and monitoring

2.3 Standards Compatibility and Compliance

- Support application level gateway (ALG)
- ITU G.992.1 (G.dmt)
- ITU G.992.2 (G.lite)
- ITU G.994.1 (G.hs)
- ITU G.992.3 (ADSL2)
- ITU G.992.5 (ADSL2+)
- ITU G.993.2 (VDSL)
- ITU-T G.9700/ G.9701(G.fast)
- ANSI T1.413 Issue 2
- IEEE 802.3
- IEEE 802.3u

3 Hardware Description and Installation

Note:

The figures in this document are for reference only.

3.1 Hardware Description

3.1.1 Front Panel



Figure 1 Front panel

The following table describes the indicators on the front panel.

Indicator	Color	Status	Description
		On	The device is powered on and the device operates
	0	On	normally.
D	Green	Blink	The software is upgrading.
Power		Off	The device is powered off.
	Red	On	The device is initiating.
		Blink	The software is upgrading.
		On	DSL link has established.
DSL	Green	Blink	The DSL line is training.
		Off	Device is powered off.
		On	Internet is synchronized successfully in the route mode.
	Green	Blink	Internet data is being transmitted.
Internet		Off	Ethernet interface is disconnected.
	Red	On	Authentication has failed.
		On	The Ethernet interface is connected.
		Blink	Data is being transmitted through the Ethernet interface.
LAN	Green		
		Off	The Ethernet interface is disconnected.

3.1.2 Rear Panel



Figure 2 Rear panel

The following table describes the interfaces or the buttons.

Interface	Description							
DSL	RJ-11 port: Connect the router to DSL connector or splitter through telephone							
DOL	cable.							
LAN	RJ-45 port, for connecting the router to a PC or another network device.							
Doort	Press the button for at least 1 second and then release it. System restores the							
Reset	factory default settings.							
Power	Power interface, for connecting the power adapter.							
On/Off	Power switch.							

⚠ Warning:

Do not press the **Reset** button unless you want to clear the current settings. The **Reset** button is in a small circular hole on the rear panel. If you want to restore the default settings, please press the **Reset** button gently for 1 second with a fine needle inserted into the hole and then release the button. The system reboots and returns to the factory defaults.

3.2 Hardware Installation

3.2.1 Connecting the Device

- Step 1 Connect the DSL port of the router
 - The spliiter has 3 ports:
 - Line: Connect to a wall phone jack (RJ-11 jack)
 - Modem: Connect to the Line interface of the router
- Step 2 Connect the LAN port of the router to the network card of the PC through an Ethernet cable.
- Step 3 Plug the power adapter to the wall outlet and then connect the other end of it to the Power port of the router.
- Step 4 Note:

The following figure displays the connection of the DSL router, PC,

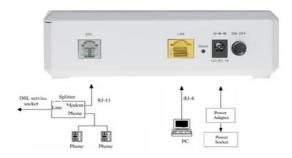


Figure 3 Connecting the DSL router

4 PC Network Configuration and Login

4.1 PC Network Configuration

Each network interface on the PC should either be configured with a statically defined IP address and DNS address, or be instructed to automatically obtain an IP address using the network DHCP server. DSL router provides a DHCP server on its LAN and it is recommended to configure your LAN to automatically obtain its IP address and DNS server IP address.

The configuration principle is identical but should be carried out differently on each operating system.

The following displays the **TCP/IP Properties** dialog box on Windows 10.

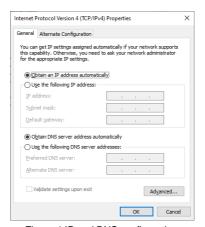


Figure 4 IP and DNS configuration

TCP/IP configuration steps for Windows XP are as follows:

Choose Start > Settings > Network & Internet > Ethernet > Change Adapter
Options > Local Area Connection.

Right-click the Ethernet connection icon and choose Properties.

On the **General** tab, select the **Internet Protocol (TCP/IP)** component and click **Properties**.

The Internet Protocol (TCP/IP) Properties window appears.

Select the **Obtain an IP address automatically** radio button.

Select the **Obtain DNS server address automatically** radio button.

Click **OK** to save the settings.

4.2 Logging In to the DSL Router

To log in to the DSL router, do as follows:

Open a Web browser on your computer.

Enter *http://192.168.1.1* (the default IP address of the DSL router) in the address bar. The login page appears.

Enter the user name and the password. The default username and password of the super user are **admin** and **admin**. The username and password of the common user are **user** and **user**. You need not enter the username and the password again if you select the option **Remember my password**. It is recommended to change these default values after logging in to the DSL router for the first time.

Click **Login** to log in to the Web page.



Figure 5

After logging in to the DSL router as a super user, you can query, configure, and modify all the settings, and diagnose the system.

5 Web-Based Management

This chapter describes how to use Web-based management of the DSL router, which allows you to configure and control all of DSL router features and system parameters in a user-friendly GUI.

5.1 Device Information

Choose Device Info, and the submenus of Device Info are shown as below:



5.1.1 Summary

Choose **Device Info > Summary**, and the following page appears.



This page displays the device information such as the board ID, software version, and the information of your WAN connection such as the upstream rate and the LAN address.

5.1.2 WAN

Choose **Device Info > WAN** and the following page appears.

WAN Info													
Interface	Description	Туре	VlanMuxId	IPv6	Igmp Pxy	Igmp Src Enbl	MLD Pxy	MLD Src Enbl	NAT	Firewall	Status	IPv4 Address	IPv6 Address
atm0.1	ipoe_0_0_35	IPoE	Disabled	Enabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Unconfigured	0.0.0.0	

This page displays the information of the WAN interface, such as the connection status, and the IP address.

5.1.3 Statistics

5.1.4 LAN

Choose **Device Info > Statistics > LAN** and the following page appears.



In this page, you can view the statistical information about the received and transmitted data packets of the Ethernet and wireless interfaces.

Click Reset Statistics to restore the values to zero and recount them.

5.1.5 WAN Service

Choose **Device Info > Statistics > WAN Service** and the following page appears.



In this page, you can view the statistical information about the recevied and transmitted data packets of the WAN interface.

Click **Reset Statistics** to restore the values to zero and recount them.

5.1.6 xTM

Choose **Device Info > Statistics > xTM** and the following page appears.

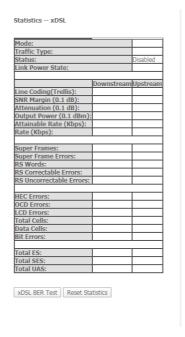


In this page, you can view the statistical information about the recevied and transmitted data packets at the xTM interfaces.

Click the **Reset** button to restore the values to zero and recount them.

5.1.7 xDSL

Choose **Device Info > Statistics > xDSL** and the following page appears.



In this page, you can view the statistical information about the recevied and transmitted data packets of the xDSL interfaces.

Click xDSL BER Test to test the xDSL Bit Error Rate.

Click Reset Statistics to restore the values to zero and recount them.

xDSL BER Test

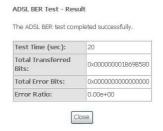
Click **xDSL BER Test** to perform a bit error rate (BER) test on the DSL line. The test page is as follows:



The **Tested Time (sec)** can be 1, 5, 10, 20, 60, 120, 180, 240, 300, or 360. Select a time in the drop-down list and click **Start**. The following pages appear.



When the ADSL BER test completes, the following page appears.



Note:

If the BER reaches e-5, you cannot access the Internet.

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5.1.8 Route

Choose **Device Info > Route** and the following page appears.



In this page, you can view the route table information.

5.1.9 ARP

Choose **Device Info > ARP** and the following page appears.



In this page, you can view the MAC address and IP address information of the device connected to the router.

5.1.10 DHCP

Choose **Device Info > DHCP** and the following page appears.



In this page, you can view the host name, the IP address assigned by the DHCP server, the MAC address this is corresponding to the IP address, and the DHCP lease time.

5.2 Advanced Setup

Choose **Advanced Setup** and the submenus of **Advanced Setup** are shown as below:



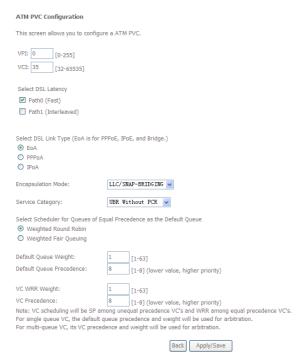
5.2.1 Layer2 Interface

5.2.1.1 ATM Interface

Choose Advanced Setup > Layer2 Interface > ATM Interface . In this page, you can add or remove to configure DSL ATM Interfaces.



Click Add to add ATM Interface and the following page appears.



In this page, you can enter this PVC (VPI and VCI) value, and select DSL link type (EoA is for PPPoE, IPoE, and Bridge.), encapsulation mode, service category.

- VPI (Virtual Path Identifier): The virtual path between two points in an ATM network, and its valid value is from 0 to 255.
- VCI (Virtual Channel Identifier): The virtual channel between two points in an ATM network, ranging from 32 to 65535 (1 to 31 are reserved for known protocols).
- DSL Link Type: EoA (it is for PPPoE, IPoE, and Bridge), PPPoA, or IPoA

- Encapsulation Mode: LLC/SNAP-BRIDGING, or VC/MUX
- Service Category: UBR Without PCR, UBR With PCR, CBR, Non Realtime VBR, Realtime VBR.
- Select Scheduler for Queues of Equal Precedence as the Default Queue: Weighted Round Robin or Weighted Fair Queuing.

Click **Apply/Save** to save the configuration, and return the following page:



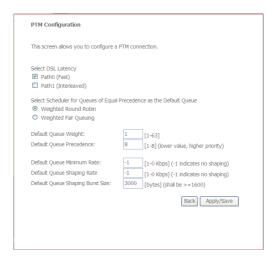
If you want to remove this Interface, please select the **Remove** check box and click **Remove**.

5.2.1.2 PTM Interface

Choose Advanced Setup > Layer2 Interface > PTM Interface . In this page, you can add or remove to configure DSL PTM Interfaces.



Click **Add** to add PTM Interface and the following page appears.



In this page, you can configuration the PTM interface Click Apply/Save.

Click **Apply/Save** to save the configuration, and return the following page:



If you want to remove this Interface, please select the **Remove** check box and click **Remove**.

5.2.2 WAN Service

Choose **Advanced Setup** > **WAN Service**, and the following page appears.

Wide Area Network (WAN) Service Setup

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

Interface	Description	Type	Vlan8021p	VlanMuxId	VlanTpid	Igmp Proxy	Igmp Source	NAT	Firewall	IPv6	Mld Proxy	Mld Source	Remove	Edit
atm0.1	ipoe_0_0_35	IPoE	N/A	N/A	N/A	Disabled	Disabled	Disabled	Disabled	Enabled	Disabled	Disabled		Edit

Add Remove

In this page, you are allowed to add, remove, or edit a WAN service.

5.2.2.1 Adding a PPPoE WAN Service

This section describes the steps for adding the PPPoE WAN service.

Step1 In the Wide Area Network (WAN) Service Setup page, click the Add button to display the following page. (At first, you must add a proper ATM interface for this WAN service.)

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
portId=1 --> DSL Latency PATH0
portId=4 --> DSL Latency PATH08.1
low =0 --> Low PTM Priority not set
low =1 --> Low PTM Priority set
high =0 --> High PTM Priority not set
lioh =1 --> High PTM Priority set

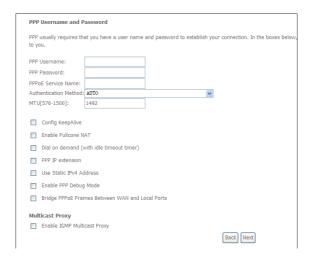


Back Next

Step2 In this page, you can select a ATM Interface for the WAN service. After selecting the ATM interface, click Next to display the following page.

WAN Service Configuration	
Select WAN service type: ② PPP over Ethernet (PPPoE) ③ IP over Ethernet ③ Brdging	
Enter Service Description: pppoe_0_1_1	
For tagged service, enter valid 802.1P Priority and 8 For untagged service, set -1 to both 802.1P Priority	
Enter 802.1P Priority [0-7]:	-1
Enter 802.1Q VLAN ID [0-4094]:	-1
Network Protocal Selection: IPW4 Only	
	Back Next

Step3 In this page, select the WAN service type to be PPP over Ethernet (PPPoE). Click Next to display the following page.



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Step4 In this page, you can modify the PPP username, PPP password, PPPoE service name and authentication method.

- PPP Username: The correct user name provided by your ISP.
- PPP Password: The correct password provided by your ISP.
- PPPoE Service Name: If your ISP provides it to you, please enter it. If not, do not enter any information.
- Authentication Method: The value can be AUTO, PAP, CHAP, or MSCHAP. Usually, you can select AUTO.
- Enable Fullcone NAT: NAT is one where all requests from the same internal IP address and port are mapped to the same external IP address and port. Furthermore, any external host can send a packet to the internal host, by sending a packet to the mapped external address.
- Dial on demand (with idle timeout timer): If this function is enabled, you need to enter the idle timeout time. Within the preset minutes, if the modem does not detect the flow of the user continuously, the modem automatically stops the PPPoE connection. Once it detects the flow (like access to a webpage), the modem restarts the PPPoE dialup. If this function is disabled, the modem performs PPPoE dial-up all the time. The PPPoE connection does not stop, unless the modem is powered off and DSLAM or uplink equipment is abnormal.
- PPP IP extension: If you want to configure DMZ Host, you should enable
 it first.
- Use Static IPv4 Address: If this function is disabled, the modem obtains an IP address assigned by an uplink equipment such as BAS, through PPPoE dial-up. If this function is enabled, the modem uses this IP address as the WAN IP address.
- Enable PPP Debug Mode: Enable or disable this function.
- Bridge PPPoE Frames Between WAN and Local Ports: Enable or disable this function.
- Enable IGMP Multicast Proxy: If you want PPPoE mode to support IPTV, enable it.

Step5 After setting the parameters, click **Next** to display the following page.

Routing -- 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 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.

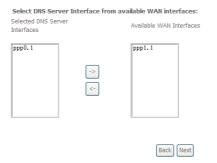


Step6 In this page, select a preferred WAN interface as the system default gateway and then click **Next** to display the following page.

DNS Server Configuration

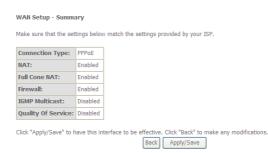
Select DNS Server Interface from available WAN interfaces OR enter static DNS server IP addresses for the system. In ATM mode, if only a single PVC with IPOA or static IPOE protocol is configured, Static DNS server IP addresses must be entered.

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.



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Step7 In this page, you can obtain the DNS server addresses from the selected WAN interface. Click **Next**, and the following page appears.



Step8 In this page, it displays the information about the PPPoE settngs. Click **Apply/Save** to save and apply the settings.

5.2.2.2 Adding a MER (IPoE) WAN service

This section describes the steps for adding the MER WAN service.

Step1 In the Wide Area Network (WAN) Service Setup page, click the Add button to display the following page. (At first, you must add a ATM interface for this WAN service.)

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

portId=1 --> DSL Latency PATH1

portId=4 --> DSL Latency PATH0&1

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



Step2 Select an ATM Interface, and then click **Next** to display the following page.



Step3 In this page, select the WAN service type to be IP over Ethernet, enter the service description for this service. After finishing setting, click Next to display the following page.



Step4 In this page, you may modify the WAN IP settings. You may select obtain an IP address automatically or manually enter the IP address provided by your ISP. Click **Next** and the following page appears.

Note:

If selecting **Obtain an IP address automatically**, DHCP will be enabled for PVC in MER mode.

If selecting **Use the following Static IP address**, please enter the WAN IP address, subnet mask and gateway IP address.

Network Address Translation Settings Network Address Translation (NAT) allows you to share one Wide Area Network (WAN) IP address for multiple computers on your Local Area Network (LAN). □ Enable NAT ONLY IF REQUIRED -- DISABLES NETWORK ACCELERATION AND SOME SECURITY □ Enable Firewall IGMP Multicast □ Enable IGMP Multicast

Step5 In this page, you can set the network address translation settings,for example, enabling NAT, enabling firewall, and enabling IGMP multicast. After finishing setting, click Next and the following page appears.

Routing -- 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 WANI interface is connected. Priority order can be changed by removing all and adding them back in again.



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Step6 In this page, select a preferred WAN interface as the system default gateway and then click **Next** to display the following page.

DNS Server Configuration

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.

Step7 In this page, you can obtain the DNS server addresses from the selected WAN interface. After finishing setting, click Next to display the following page.

WAN Setup - Summary

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

Connection Type:	IPoE
NAT:	Disabled
Full Cone NAT:	Enabled
Firewall:	Enabled
IGMP Multicast:	Disabled
Quality Of Service:	Disabled

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

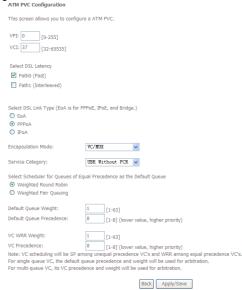


Step8 In this page, it displays the information about the IPoE settngs.Click **Apply/Save** to save and apply the settings.

5.2.2.3 Adding a PPPoA WAN service

This section describes the steps for adding the PPPoA WAN service.

Step1 Choose Advanced Setup > Layer2 Interface > ATM Interface to dsipaly the DSL ATM Interface Configuration page. In this page, you need to add a PVC for PPPoA mode. Click the Add button in the DSL ATM Interface Configuration page to display the following page.



Step2 Select the DSL link type to be PPPoA, and select the encapsulation mode to be VC/MUX (according to the uplink equipment). After finishing setting, click the Apply/Save button to apply the setings.

Step3 Choose WAN Service and click Add to display the following page. 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
portId=1 --> DSL Latency PATH1
portId=4 --> DSL Latency PATH0&1
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

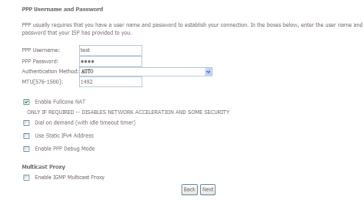


Step4 Select the proper interface for the WAN service, and then click **Next** to display the following page.

Enter Service Description: pppoa_0_0_3	7	
Network Protocal Selection:(IPV6 Only not only only only only only only only only	ot support)	
	Back Next	t

WAN Service Configuration

Step5 In this page, you may modify the service description. Click **Next** to display the following page.



- PPP Username: The correct user name provided by your ISP.
- PPP Password: The correct password provided by your ISP.
- Authentication Method: The value can be AUTO, PAP, CHAP, or MSCHAP. Usually, you can select AUTO.
- Enable Fullcone NAT: NAT is one where all requests from the same internal IP address and port are mapped to the same external IP address and port. Furthermore, any external host can send a packet to the internal host, by sending a packet to the mapped external address.
- Dial on demand (with idle timeout timer): If this function is enabled, you need to enter the idle timeout time. Within the preset minutes, if the modem does not detect the flow of the user continuously, the modem automatically stops the PPPoA connection. Once it detects the flow (like access to a webpage), the modem restarts the PPPoA dialup. If this function is disabled, the modem performs PPPoA dial-up all the time. The PPPoA connection does not stop, unless the modem is powered off and DSLAM or uplink equipment is abnormal.
- PPP IP extension: If you want to configure DMZ Host, you should enable
 it first.
- Use Static IPv4 Address: If this function is disabled, the modem obtains an IP address assigned by an uplink equipment such as BAS, through

PPPoA dial-up. If this function is enabled, the modem uses this IP address as the WAN IP address.

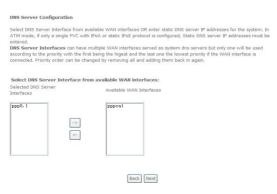
Enable PPP Debug Mode: Enable or disable this function.

Routing -- Default Gateway

- Enable IGMP Multicast Proxy: If you want PPPoE mode to support IPTV, enable it.
- Step6 In this page, you can enter the PPP username and PPP password provided by your ISP. Select the authentication method according to your requirement. After finishing setting, click Next to display the following page.



Step7 In this page, select a preferred WAN interface as the system default gateway and then click **Next** to display the following page.



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Step8 In this page, you can obtain the DNS server addresses from the selected WAN interface. After finishing setting, click **Next** to display the following page.

WAN Setup - Summary

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



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



Step9 In this page, it displays the information about the PPPoA settings. Click Apply/Save to apply the settings. You can modify the settings by clicking the Back button if necessary.

5.2.2.4 Adding an IPoA WAN service

This section describes the steps for adding the IPoA WAN service.

Step1 Choose Advanced Setup > Layer2 Interface > ATM Interface to dsipaly the DSL ATM Interface Configuration page. In this page, you need to add a PVC for IPoA mode. Click the Add button in the DSL ATM Interface Configuration page to display the following page.

ATM PVC Configuration	
This screen allows you to configur	re a ATM PVC.
VPI: 0 [0-255] VCI: 38 [32-65535]	
Select DSL Latency	
Path0 (Fast)	
Path1 (Interleaved)	
- runi (Incircures)	
Select DSL Link Type (EoA is for P EoA PPPoA PoA	PPOE, IPOE, and Bridge.)
Encapsulation Mode:	LLC/SNAP-ROUTING V
Service Category:	UBR Without PCR 🗸
Select Scheduler for Queues of Ed • Weighted Round Robin • Weighted Fair Queuing	qual Precedence as the Default Queue
Default Queue Weight:	1 [1-63]
Default Queue Precedence:	8 [1-8] (lower value, higher priority)
VC WRR Weight:	1 [1-63]
VC Precedence:	8 [1-8] (lower value, higher priority)
For single queue VC, the default q	nong unequal precedence VC's and WRR among equal precedence VC's. queue precedence and weight will be used for arbitration. fence and weight will be used for arbitration.
To more quode voy its ve preced	and reign rin of discertifications
	Back Apply/Save

Step2 Select the DSL link type to be IPoA, and select the encapsulation mode to be LLC/SNAP-ROUTING (according to the uplink equipment). After finishing setting, click the Apply/Save button to save the settings.

Step3 Choose **WAN Service** and click **Add** to display the following page.

WAN Service Interface Configuration

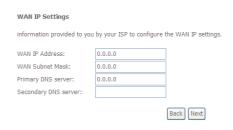
Select a layer 2 interface for this service Note: For ATM interface, the descriptor string is (portId_vpi_vci) For PTM interface, the descriptor string is (portId_high_low) Where portId=0 --> DSL Latency PATH0 portId=1 --> DSL Latency PATH1 portId=4 --> DSL Latency PATH0&1 low =0 --> Low PTM Priority not set low =1 --> Low PTM Priority set high =0 --> High PTM Priority not set high =1 --> High PTM Priority set

Step4 Select the proper interface for the WAN service ,and then click **Next** to display the following page.

Next

WAN Service Configuration	
Enter Service Description: ipoa_0_0_38	
	Back Next

Step5 In this page, you may modify the service description. Click **Next** to display the following page.



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Step6 In this page, enter the WAN IP address, the WAN subnet mask, and primary DNS server provided by your ISP and then click **Next** to display the following page.



In this page, Network Address Translation (NAT) allows you to share one Wide Area Network (WAN) IP address for multiple computers on your Local Area Network (LAN).

If you do not want to enable NAT, and wish the user of modem to access the Internet normally, you need to add a route on the uplink equipment. Otherwise, the access to the Internet fails. Normally, please enable the NAT function.

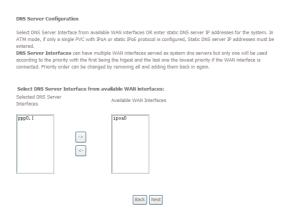
Step7 After finishing setting, click **Next** to display the following page.

Routing -- Default Gateway



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Step8 In this page, select a preferred WAN interface as the system default gateway and then click **Next** to display the following page.



Step9 In this page, you can obtain the DNS server addresses from the selected WAN interface. After finishing setting, click **Next** to display the following page.

WAN Setup - Summary

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



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

Back Apply/Save

Step10 In this page, it displays the information about the IPoA settings. Click Apply/Save to save and apply the settings. You can modify the settings by clicking the Back button if necessary.

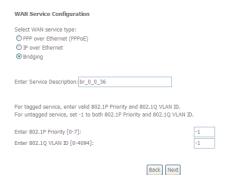
5.2.2.5 Adding a Bridge WAN service

This section describes the steps for adding the Bridge WAN service.

Step1 In the Wide Area Network (WAN) Service Setup page, click the Add button to display the following page. (At first, you must add a proper ATM interface for this WAN service.) Click the Add button to display the following page.



Step2 Select the proper ATM Interface and then click **Next** to display the following page.



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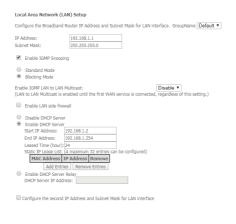
Step3 In this page, you can select the WAN service type, and modify the service description for this service. After finishing setting, click Next to display the following page.



Step4 In this page, it displays the information about the bridge settings. Click Apply/Save to save and apply the settings. You can modify the settings by clicking the Back button if necessary.

5.2.3 LAN Configuration

Choose Advanced Setup > LAN, and the following page appears.



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Apply/Save

In this page, you can configure an IP address for the DSL router, enable IGMP snooping, enable or disable the DHCP server, edit the DHCP option, configure the DHCP advanced setup and set the binding between a MAC address and an IP address.

Configuring the Private IP Address for the DSL Router

IP Address: 192.168.1.1
Subnet Mask: 255.255.255.0

In this page, you can modify the IP address of the device. The preset IP address is 192.168.1.1.

Enabling IGMP Snooping

IGMP snooping enables the router to forward multicast traffic intelligently, instead of flooding all ports in the VLAN. With IGMP snooping, the router listens to IGMP membership reports, queries and leave messages to identify the switch ports that are members of multicast groups. Multicast traffic will only be forwarded to ports identified as members of the specific multicast group or groups.

Enable IGMP SnoopingStandard ModeBlocking Mode

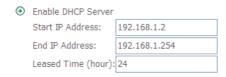
Enabling the LAN Side Firewall

Firewall can prevent unexpected traffic on the Internet from your host in the LAN.

Enable LAN side firewall

In this page, you can enable or disable the LAN side firewall.

Configuring the DHCP Server



If you enable the DHCP sever, the clients will automatically acquire the IP address from the DHCP server. If the DHCP server is disabled, you need to manually set the start IP address, end IP address and the lease time for the clients in the LAN.

Configuring the DHCP Static IP Lease List

The lease list of static IP address can reserve the static IP addresses for the hosts with the specific MAC addresses. When a host whose MAC address is in the lease list of static IP address requests the DHCP server for an IP address, the DHCP server assigns the reserved IP address to the host.



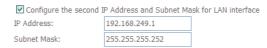
Click the Add Entries button in the Local Area Network (LAN) Setup page to display the DHCP Static IP Lease page.



In this page, enter the MAC address of the LAN host and the static IP address that is reserved for the host, and then click the **Apply/Save** button to apply the settings.

Configuring the Second IP Address and Subnet Mask for a LAN Interface

In the **Local Area Network (LAN) Setup** page, you are allowed to set the second IP address and the subnet mask for a LAN interface.

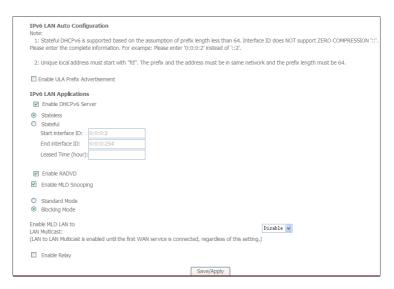


After enabling Configure the second IP Address and Subnet Mask for LAN interface, enter an IP address and a subnet mask for the LAN interface.

After finishing setting, click the Apply/Save button to apply the settings.

5.2.3.1 IPv6 Auto-configuration

Click **Advanced Setup > LAN >IPv6 Autoconfig**, and the following page appears.



In this page, you can set an IP address for the DSL IPv6 router, enable the DHCPv6 server, enable RADVD and enable the MLD snooping function.

- Enable DHCPv6 Server: WIDE-DHCPv6 is an open-source implementation of dynamic host configuration protocol for IPv6 (DHCPv6) originally developed by the KAME project. The implementation mainly complies with the following standards: RFC3315, RFC3319, RFC3633, RFC3646, RFC4075, RFC 4272 etc.
- Enable RADVD: The router advertisement daemon (RADVD) is run by Linux or BSD systems acting as IPv6 routers. It sends router advertisement messages, specified by RFC2461, to a local Ethernet LAN periodically and when requested by a node sending a router solicitation message. These messages are required for IPv6 stateless auto-configuration.
- Enable MLD Snooping: Multicast Listener Discovery Snooping (MLD Snooping) is an IPv6 multicast constraining mechanism that runs on Layer 2 devices to manage and control IPv6 multicast groups. By analyzing received MLD messages, a Layer 2 device running MLD Snooping establishes mappings between ports and multicast MAC addresses and forwards IPv6 multicast data based on these mappings.

After finishing setting, click the **Save/Apply** button to apply the settings.

5.2.4 NAT

5.2.4.1 Virtual Servers

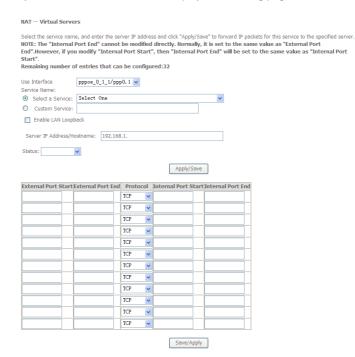
Firewall can prevent unexpected traffic on the Internet from your host on the LAN. The virtual server can create a channel that can pass through the firewall. In that case, the host on the Internet can communicate with a host on your LAN within certain port range.

Choose **Advanced Setup > NAT > Virtual Servers**, and the following page appears.



In this page, you are allowed to add or remove a virtual server entry. To add a virtual server, do as follows:

Step 1 Click the **Add** button to display the following page.



- Use interface: Select an interface that you want to configure.
- Select a Service: Select a proper service in the drop-down list.

- Custom Server: Enter a new service name to establish a user service type.
- Server IP Address: Assign an IP address to virtual server.
- External Port Start: When selecting a service, the port number will automatically be displayed. You can modify it if necessary.
- External Port End: When selecting a service, the port number will automatically be displayed. You can modify it if necessary.
- Protocol: You may select TCP/UDP, TCP, or UDP in the drop-down list.
- Internal Port Start: When selecting a service, the port number will automatically be displayed. You can modify it if necessary.
- Internal Port End: When selecting a service, the port number will automatically be displayed. You can modify it if necessary.
- **Step 2** After finishing setting, click **Save/Apply** to save and apply the settings.

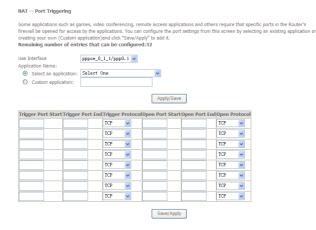
5.2.4.2 Port Triggering

Some applications need some ports to be opened in the firewall for the remote access. When an application initializes a TCP/UDP to connect to a remote user, port triggering dynamically opens the open ports of the firewall.

Choose **Advanced Settings > NAT > Port Triggering**, and the following page appears.



In this page, you may add or remove an entry of port triggering. Click the **Add** button to display the following page.



- Use interface: Select an interface that you want to configure.
- Select an application: Select a proper application in the drop-down list.
- Custom application: Manually define an application.
- Trigger port Start: The start port number that LAN uses to trigger the open port.
- Trigger port End: The end port number that LAN uses to trigger the open port.
- Trigger Protocol: Select the application protocol. You may select TCP/UDP, TCP, or UDP.
- Open Port Start: The start port number that is opened to WAN.
- Open Port End: The end port number that is opened to WAN.
- Open Protocol: Select the proper protocol that is opened to WAN. You may select TCP/UDP, TCP, or UDP.

After finishing setting, click **Save/Apply** to apply the settings.

Note:

You can use a single port number, several port numbers separated by commas, port blocks consisting of two port numbers separated by a dash, or any combination of these, for example 80, 90-140, 180.

5.2.4.3 DMZ Host

DMZ allows all the ports of a PC on your LAN to be exposed to the Internet. Set the IP address of the PC to be DMZ host, so that the DMZ host will not be blocked by firewall.

Choose Advanced Setup > NAT > DMZ host to display the following page.



In this page, enter the IP address of the DMZ host.

After finishing the settings, click the **Apply/Save** button to apply the settings. If you want to clear the DMZ function of the host, please delete the IP address of the host in the field of **DMZ Host IP Address**, and then click the **Apply/Save** button.

5.2.5 Security

Firewall

Choose **Security** > **IP Filtering** and the following page appears.



Click **Modify Firewall** or **Remove Firewall** to modify or remove the firewall. And click **Modify Rule** or **Remove Rule** to modify or remove the rule. Click **Add Firewall**, and the following page appears.



- name: The name of firewall.
- interface: You can select LAN or WAN from the drop-down list.
- type: You can select IN or OUT from the drop-down list.
- defaultaction: You can select Permit or Drop from the drop-down list.

MAC Filtering Setup

In some cases, you may want to manage Layer2 MAC address to block or permit a computer within the home network. When you enable MAC filter rules, the DSL router serves as a firewall that works at layer 2.

Note:

MAC filtering is only effective on ATM PVCs configured in bridge mode.

Choose **Security** > **MAC Filtering** and the following page appears.

MAC Filtering Setup

"MAC Filtering is only effective on ATM PVCs configured in Bridge mode. FORWARDED means that all MAC layer frames will be FORWARDED except those matching with any of the specified rules in the following table. BLOCKED means that all MAC layer frames will be BLOCKED except those matching with any of the specified rules in the following table.

MAC Filtering Policy For Each Interface(maxinum 32 entries):

WARNUING: Changing from one policy to another of an interface will cause all defined rules for that interface to be REMOVED AUTOMATICALLY! You will need to create new rules for the new policy.



In this page, you can add or remove the MAC filtering rule. You may change the MAC filtering policy from **FORWARDED** to **BLOCKED** by clicking the **Change Policy** button.

Click the **Add** button to display the following page.

Add MAC Filter Create a filter to identify the MAC layer frames by specifying at least one condition below. If multiple conditions are specified, all of them take effect. Click 'Apply' to save and activate the filter. Protocol Type: Destination MAC Address: Source MAC Address: Frame Direction: LANC=>WAN | V WAN Interfaces (Configured in Bridge mode only) | br_0_0_39/atm3 | V | Apply/Save

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- Protocol Type: Select the proper protocol type.
- Destination MAC Address: Enter the destination MAC address.
- Source MAC Address: Enter the source MAC address.
- Frame Direction: The direction of transmission frame.
- WAN Interface (Configured in bridge mode only): Select the proper WAN interface in the drop-down list.

After finishing setting, click **Apply/Save** to save and apply the filtering rule.

5.2.6 Parental Control

Time Restriction

Access Time Restriction

Choose Advanced Setup > Parental Control > Time Restriction, and the following page appears.

Access Time Restriction -- A maximum 16 entries can be configured.



Click the Add button to display the following page.

This page adds time of day restriction to a special LAN device connected to the Router. The 'Browser's MAC Address' automatically displays the MAC address of the LAN device where the browser 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 'ipconfig /ail'.

User Name

Browser's MAC Address

OCHEM MAC Addre

This page is used to control the time restriction to a special LAN device that connects to the DSL router. In this page, se the user name and configure the time settings.

Apply/Save

After finishing setting, click the Apply/Save button to save and apply the settings.

Url Filter

Click **Advanced Setup > Parental Control > Url Filter**, and the following page appears.



Thisp age is used to prevent the LAN users from accessing some Websites in the WAN.

In this page, you may select the **Exclude** URL list type or the **Include** URL list type. If you select the **Exclude** URL list type, it means that the URLs in the list are not accessible. If you select the select the **Include** URL list type, you are allowed to access the the URLs in the list.

Click the Add button to display the following page.



In this page, enter the URL address and its corresponding port number. For example, enter the URL address *http://www.google.com* and the port number **80**, and then click the **Apply/Save** button. See the following figure:

URL List Type:

Exclude

Include

Address

http://www.google.com 80

Add Remove

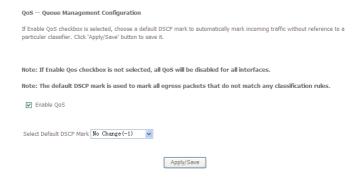
5.2.7 Quality of Service

Enabling QoS

Choose Advance Setup > Quality of Service and the following page appears.



Select Enable QoS to enable QoS and configure the default DSCP mark.



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In this page, enable the QoS function and select the default DSCP mark. After finishing setting, click **Apply/Save** to save and apply the settings.

Note:

If the Enable Qos checkbox is not selected, all QoS will be disabled for all interfaces. The default DSCP mark is used to mark all egress packets that do not match any classification rules.

Queue Configuration

Choose Advanced Setup > Quality of Service > QoS Queue, and the following page appears.

QoS Queue Setup

- In ATM mode, maximum 16 queues can be configured.
- For each Ethernet interface, maximum 8 queues can be configured.
- For each Ethernet WAN interface, maximum 8 gueues can be configured.
- To add a queue, click the Add button.
- ove queues, check their remove-checkboxes, then click theRemovebutton
- The Enablebutton will scan through every queues in the table-Queues with enable-checkbox checked will be enabled. Queues with enable-checkbox un-
- checked will be disabled.
- The enable-checkbox also shows status of the queue after page reload.

Note: Ethernet LAN gueue configuration only takes effect when all the gueues of the interface have been configured.

Name	Key	Interface	Qid	Prec/Aig/Wght	DSL Latency	PTM Priority	Shaping Rate (bps)	Min Bit Rate(bps)	Burst Size (bytes)	Enable	Remove
LAN Q8	1	eth1	8	1/SP						₽	
LAN Q7	2	eth1	7	2/SP						V	
LAN Q6	3	eth1	6	3/SP						₽	
LAN Q5	4	eth1	5	4/SP						₩.	
LAN Q4	5	eth1	4	5/SP						₽	
LAN Q3	6	eth1	3	6/SP						₩	
LAN Q2	7	eth1	2	7/SP						₽	
LAN Q1	8	eth1	1	8/SP						2	
LAN OR	0	ath7	: 2	1/00						-	

In this page, you can enable, add or remove a QoS rule.

Note:

The lower integer value for precedence indicates the higher priority.

Click the Add button to display the following page.



- Name: Enter the name of QoS queue.
- Enable: Enable or disable the QoS queue.
- Interface: Select the proper interface for the QoS queue.

After finishing setting, click Apply/Save to save and apply the settings.

QoS Classification

Choose **Advanced Setup** > **Quality of Service** > **Qos Classification** and the following page appears.



In this page, you can enable, add or remove a QoS classification rule. Click the **Add** button to display the following page.

OV501GF User Manual

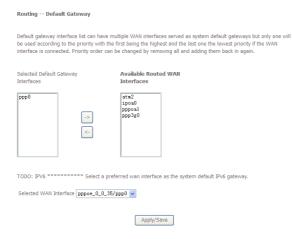
Add Network Traffic Class Rule

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. Traffic Class Name: Rule Order: Rule Status: Disable 🗸 Specify Classification Criteria (A blank criterion indicates it is not used for classification.) Class Interface: LAN Ether Type: Source MAC Address Source MAC Mask: Destination MAC Address: Destination MAC Mask: Specify Classification Results (A blank value indicates no operation.) Specify Class Queue (Required): - Packets classified into a queue that exit through an interface for which the queue is not specified to exist, will instead egress to the default queue on the interface. Mark 802.1p priority: - Class non-vlan packets egress to a non-vlan interface will be tagged with VID 0 and the class rule p-bits - Class vian packets egress to a non-vian interface will have the packet p-bits re-marked by the class rule p-bits. No additional vian tag is added. - Class non-vian packets egress to a vian interface will be tagged with the interface VID and the class rule p-bits - Class vian packets egress to a vian interface will be additionally tagged with the packet VID, and the class rule p-bits. Set Rate Limit: [Kbits/s] Apply/Save

5.2.8 Routing

Default Gateway

Choose Advanced Setup > Routing > Default Gateway, and the following page appears.



In this page, you can modify the default gateway settings.

Select a proper WAN interface in the drop-down list of **Selected WAN Interface** as the system default gateway.

After finishing setting, click **Apply/Save** to save and apply the settings.

Static Route

Choose Advanced Setup > Routing > Static Route and the following page appears.

Routing -- Static Route (A maximum 32 entries can be configured)



In this page, you can add or remove a static routing rule. Click the **Add** button to display the following page.



- IP Version: Select the IP version.
- **Destination IP address/prefix length:** Enter the destination IP address.
- Interface: select the proper interface for the rule.
- Gateway IP Address: The next-hop IP address.
- Metric: The metric value of routing.

After finishing setting, click Apply/Save to save and apply the settings.

Policy Routing

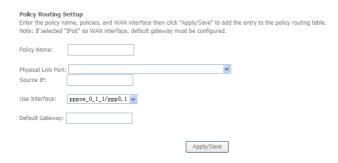
Choose **Advanced Setup > Routing > Policy Routing** and the following page appears.

Policy Routing Setting -- A maximum 8 entries can be configured.

Policy Name | Source IP | LAN Port | WAN | Default GW | Remove |

Add | Remove |

In this page, you can add or remove a static policy rule. Click the **Add** button to display the following page.



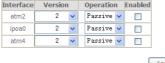
In this page, enter the policy name, source IP and default gateway, and select the physical LAN port and interface.

After finishing setting, click **Apply/Save** to save and apply the settings.

RIP

Choose Advanced Setup > Routing > RIP and the following page appears.





Apply/Save

In this page, if you want to configure an individual interface, select the desired RIP version and operation, and then select the **Enabled** checkbox for the interface.

After finishing setting, click Apply/Save to save and apply the settings.

5.2.9 DNS

DNS Server

Choose Advanced Setup > DNS > DNS Server and the following page appears.



In this page, you can select a DNS server interface from the available interfaces, manually enter the DNS server addresses, or obtain the DNS address from a WAN interface.

After finishing setting, click Apply/Save to save and apply the settings.

Dynamic DNS

Choose Advanced Setup > DNS > Dynamic DNS and the following page appears.



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In this page, you are allowed to modify the DDNS settings. Click the **Add** button to display the following page.

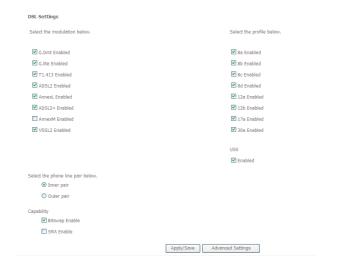
Add Dynamic DNS This page allows you to add a Dynamic DNS address from DynDNS.org or TZO. D-DNS provider DynDNS.org Hostname Interface DynDNS Settings Username Password Apply/Save

- D-DNS provider: Select a proper DDNS server in the drop-down list.
- Hostname: It is the domain name and it can be modified.
- Interface: The interface that the packets pass through on the DSL router.
- Username: Enter the username for accessing the DDNS management interface.
- Password: Enter the password for accessing the DDNS management interface.

After finishing setting, click **Apply/Save** to save and apply the settings.

5.2.10 DSL

Choose **Advanced Setup > DSL** and the following page appears. In this page, you can view the DSL settings. Usually, you can keep this factory default setting. The modem negotiates the modulation mode with the DSLAM.



In this page, you can set the DSL settings. Usually, you do not need to modify the factory default settings.

After finishing setting, click **Apply/Save** to save and apply the settings.

5.2.11 UPnP

Choose **Advanced Setup > UPnP** and the following page appears.



In this page, you can enable or disable the UPnP function.

After finishing setting, click **Apply/Save** to save and apply the settings.

5.2.12 DNS Proxy

Choose Advanced Setup > DNS Proxy and the following page appears.



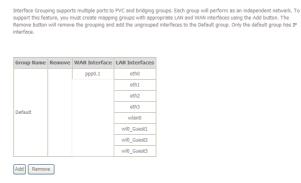
In this page, you can enable or disable the DNS proxy function.

After enabling the DNS proxy function, enter the host name of the broadband router and the domain name of the LAN network, and then click **Apply/Save** to save and apply the settings.

5.2.13 Interface Grouping

Interface Grouping -- A maximum 16 entries can be configured

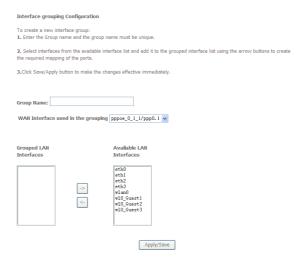
Choose Advanced Setup > Interface Grouping and the following page appears.



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Interface grouping 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 the 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 the **Add** button to display the following page.



In this page, please follow the on-screen configuration steps to configure the parameters of the interface grouping.

After finishing setting, click **Apply/Save** to save and apply the settings.

5.2.14 IP Tunnel

5.2.14.1 IPv6 in IPv4

Choose **Advanced Setup > IP Tunnel > IPv6inIPv4** and the following page appears. The default value is IPv6 in IPv4 information.

Click **Add** and the following page appears. In this page, you can add a new tunnel.



5.2.14.2 IPv4 in IPv6

Choose Advanced Setup > IP Tunnel > IPv4inIPv6 and the following page appears.



Click **Add** and the following page appears. In this page, you can add a new tunnel of IPv4 in IPv6.

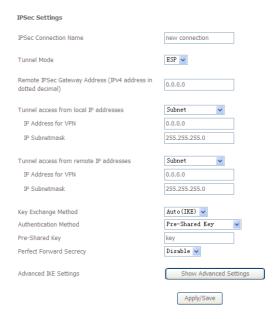


5.2.15 IPSec

Choose Advanced Setup > IPSec and the following page appears.



In this page, you can add or remove the IPSec tunnel connections. Click the **Add** button to display the following page.



In this page, set the parameters such as the IPSec connection name, tunnel mode, and remote IPSec gateway address.

If you need to configure the advanced settings of this IPSec tunnel connection, please click the **Show Advanced Settings** button to display the other parameters.

After finishing setting, click **Apply/Save** to save and apply the settings.

5.2.16 Certificate

Local

Choose Advanced Setup > Certificate > local and the following page appears.



In this page, you can acquire the local certificate by creating a certificate request or importing a certificate. You may also create or remove a certificate.

Creating a New Certificate Request
 Click the Create Certificate Request button to display the following page.



In this page, please set the following parameters.

- Certificate name: Set the certificate name.
- Common Name: The common name is the "fully qualified domain name," (or FQDN) used for DNS lookups of your server (for example, www.mydomain.com). Browsers use this information to identify your Web site. Some browsers will refuse to establish a secure connection with your site if the server name does not match the common name in the certificate. Please do not include the protocol symbol "http://" or any port numbers or pathnames in the common name. Do not use wildcard characters such as * or ?, and do not use an IP address.
- Organization Name: The name of the organization to which the entity belongs (such as the name of a company).

- State/Province Name: This is the name of the state or province where your organization's head office is located. Please enter the full name of the state or province.
- Country/Region Name: This is the two-letter ISO abbreviation for your country (for example, GB for the United Kingdom).

After finishing setting, click the **Apply** button to apply the settings.



The certificate request needs to be submitted to a certificate authority, which will sign the request. Then the signed certificate needs to be loaded to the DSL router. Click **Load Signed Certificate** in this page, and the following page appears.



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In this page, paste the signed certificate, and then click the **Apply** button. A new certificate is created.

• Importing an Existing Local Certificate

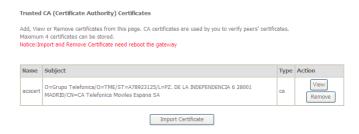
To import an existing certificate, click the **Import Certificate** button to display the following page.



In this page, paste the certificate and the private key. Finally, click the **Apply** button to import the certificate.

Trusted CA

Choose Advanced Setup > Certificate > Trusted CA and the following page appears.



In this page, you may import or remove a CA certificate.

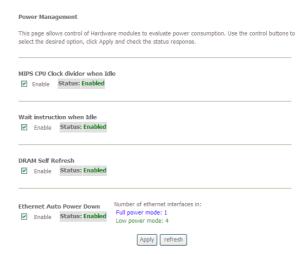
Click the **Import Certificate** button to display the following page.



In this page, enter the certificate name and paste the certificate content. Finally, click the **Apply** button to import the certificate.

5.2.17 Power Management

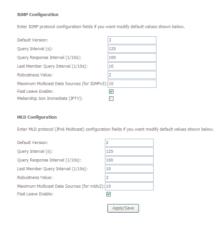
Choose **Advanced Setup > Power Management** and the following page appears. This page allows control of Hardware modules to evaluate power consumption. Use the control buttons to select the desired option.



After proper configurations, click Apply to take the configurations effect

5.2.18 Multicast

Choose Advanced Setup > Multicast and the following page appears.



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In this page, you can configure the multicast parameters.

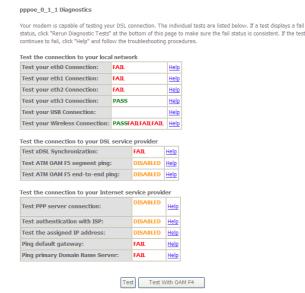
After finishing setting, click **Apply/Save** to save and apply the settings.

5.3 Diagnostics

5.3.1 Diagnostics

Click **Diagnostics** > **Diagnostics**, and the following page appears.

This page is used to test the connection to your local network, the connection to your DSL service provider, and the connection to your Internet service provider. You may diagnose the connection by clicking the **Test** button or click the **Test With OAM F4** button. If the test continues to fail, click **Help** and follow the troubleshooting procedures.



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5.4 Management

Choose **Management** and the submenus of **Management** are shown as below:



5.4.1 Settings

Backup

Choose **Management > Settings > Backup** to display the following page.



In this page, click the **Backup Settings** button to save your router's settings to your local PC.

Update

Choose **Management** > **Settings** > **Update**, and the following page appears.



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In this page, click the **Browse...** button to select the correct new settings file, and then click the **Update Settings** button to update the router's settings.

Restore Default

Choose **Management > Settings > Restore Default** to display the following page.



In this page, click the **Restore default settings** button, and then system returns to the default settings.

5.4.2 System Log

Choose **Management > System Log** to display the following page.



In this page, you are allowed to configure the system log and view the security log.

 Configuring the System Log: Click the Configure System Log button to display the following page.



In this page, you can set 3 types of system log modes, including **Local**, **Remote**, and **Both**.

- Local: When selecting Local, the events are recorded in the local memory.
- Remote: When selecting Remote, the events are sent to the specified IP address and UDP port of the remote system log server.
- Both: When selecting Both, the events are recorded in the local memory or sent to the specified IP address and UDP port of the remote system log server.

After finishing setting, click the **Apply/Save** button to save and apply the settings. **Note:**

If you want to log all the events, you need to select the **Debugging** log level.

 View System Log: Click the View System Log button to display the following page.



In this page, you can view the system log.

Click the **Refresh** button to refresh the system log. Click the **Close** button to exit.

5.4.3 Security Log

Choose **Management > Security Log** to display the following page.

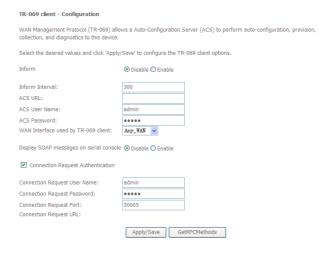


In this page, you are allowed to configure the system log and view the security log.

- View: Click the view button to view the Security Log.
- Reset: Click the Reset button to clean the log

5.4.4 TR-69 Client

Choose Management > TR-069Client to display the following page.



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WAN Management Protocol (TR-069) allows an Auto-Configuration Server (ACS) to perform auto-configuration, provision, collection, and diagnostics to this device.

In this page, you may configure the parameters such as the ACS URL, ACS password, and connection request user name.

After finishing setting, click the **Apply/Save** button to save and apply the settings.

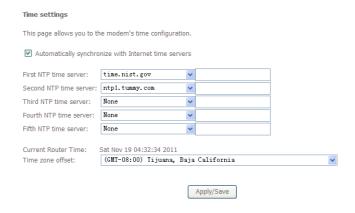
5.4.5 Internet Time

Choose Management > Internet Time to display the following page.



In this page, you may configure the router to synchronize its time with the Internet time servers.

After enabling **Automatically synchronize with Internet time servers**, the following page appears.



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In this page, set the proper time servers, and then click the **Apply/Save** button to save and apply the settings.

5.4.6 Access Control

Passwords

Choose **Management > Access Control > Passwords**, and the following page appears.

Access Control Passwords										
Access to your DSL 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 DSL Router.										
The user name "support" is used to allow an ISP technician to access your DSL Router for maintenance and to run diagnostics.										
The user name "user" can access the DSL Router, view configuration settings and statistics, as well as, update the router's software.										
Use the fields below to enter up to 15 characters and click 'Apply/Save' to change or create passwords. Note: Password cannot contain a space.										
Username:										
New Username:										
Old Password:										
New Password:										
Confirm Password:										
Apply/Save										

In the page, you can modify the username and password of different users. After finishing setting, click the **Apply/Save** button to save and apply the settings.

Services

Choose **Management** > **Access Control** > **Services Control** and the following page appears.

Access Control -- Services

Services access control list (SCL) enable or disable the running services.



Apply/Save

In this page, you can enable or disable the different types of services.

After finishing setting, click the **Apply/Save** button to save and apply the settings.

5.4.7 Update Software

Choose Management > Update Software, and the following page appears.



If you want to upload the software, click the **Browse...** button to choose the new software, and then click the **Update Software** button.

Note:

When software update is in progress, do not shut down the router. After software update completes, the router automatically reboots.

Please make sure that the new software for updating is correct, and do not use other software to update the router.

5.4.8 Reboot

Choose Management > Reboot and the following page appears.

Click the button below to reboot the router.



In this page, click the **Reboot** button, and then the router reboots.

6 Q&A

- (1) Q: Why all the indicators are off?
 - A: Check the following:
 - The connection between the power adaptor and the power socket.
 - The status of the power switch.
- (2) Q: Why the LAN indicator is off?
 - A: Check the following:
 - The connection between the ADSL router and your computer, hub, or switch
 - The running status of your PC, hub, or switch.
- (3) Q: Why the DSL indicator is off?
 - A: Check the connection between the "DSL" port of router and the wall jack.
- (4) Q: Why Internet access fails while the DSL indicator is on?
 - A: Check whether the VPI, VCI, user name, and password are correctly entered.
- (5) Q: Why I fail to access the web configuration page of the DSL router?
 - A: Choose Start > Run from the desktop, and ping 192.168.1.1 (IP address of the DSL router). If the DSL router is not reachable, check the type of the network cable, the connection between the DSL router and the PC, and the TCP/IP configuration of the PC.
- (6) **Q**: How to load the default settings after incorrect configuration?
 - A: To restore the factory default settings, turn on the device, and press the reset button for about 1 second, and then release it. The default IP address and the subnet mask of the DSL router are 192.168.1.1 and 255.255.255.0, respectively.
 - User/password of super user: admin/admin
 - User/password of common user: user/user