802.11 nIAD

802.11 b/g/n 300Mbps WLAN VDSL2 IAD

Quick Installation Guide

Index

Computer / System requirements

Windows 98SE, Windows Me, Windows 2000, Windows XP, Windows Vista Windows 7, Windows 8, Windows 8.1 and Windows 10.

Package Contents

For Annex-A Integrated Access Device

1. Integrated Access Device
2. CD-ROM
3. Quick Installation Guide
4. 1 x Telephone Cable (RJ-11)
5. 1x Ethernet Cable (RJ-45)
6. 1 x Power Adaptor
7. Annex-A Splitter (Optional, with an extra RJ-11 Telephone cable)

For Annex-B Integrated Access Device

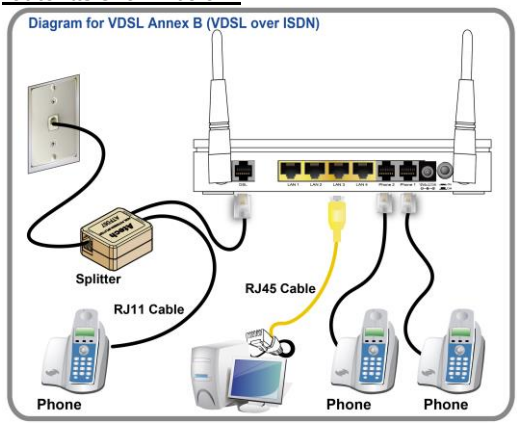
1. Integrated Access Device
2. CD-ROM
3. Quick Installation Guide
4. 1 x Telephone Cable (RJ-11)
5. Ethernet Cable (RJ-45)
6. Power Adaptor
7. Annex-B Splitter (Optional, with an extra RJ-11 Telephone cable)

Installation & Setup

Follow each STEP carefully and only go to the next step once you have completed the previous STEP.

Connection of WLAN VDSL2 Router

If you have an ISDN telephone line connect the modem router as shown below:



1. Connect the supplied RJ45 Ethernet cable from your PC's Ethernet port to any of the 4 Integrated Access Device's LAN Ports.

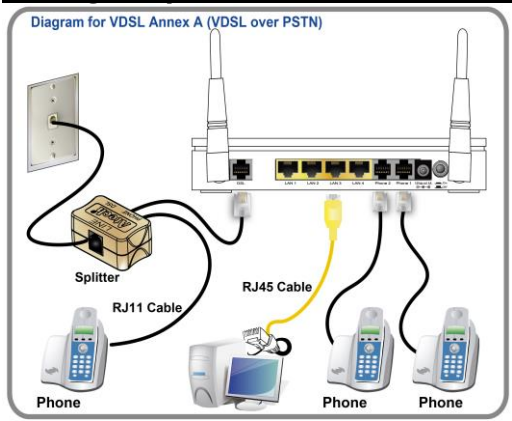
2. Connect the supplied RJ11 telephone cable from your home's telephone jack to the **"LINE"** port of the supplied splitter. Connect another RJ11 telephone cable to the **"MODEM"** port of the splitter and connect the other end of this cable to the **"LINE"** port of your Integrated Access Device.

   Or, direct connects the supplied RJ11 telephone cable from your home's telephone jack to the "**LINE**" port of your Integrated Access Device, in case there is no supplied splitter.

3. Connect a RJ11 telephone cable to the **"PHONE"** port of the splitter and connect the other end to your telephone.

4. Connect a RJ11 telephone cable to the **"PHONE 1"** and/or **"PHONE 2"** port of Integrated Access Device and connect the other end to your telephone.

If you have a PSTN telephone line (normal analog line) connect the modem router as shown below:



1. Connect the supplied RJ45 Ethernet cable from your PC's Ethernet port to any of the 4 Integrated Access Device's LAN Ports.

2. Connect the supplied RJ11 telephone cable from your home's telephone jack to the **"LINE"** port of the supplied splitter. Connect another RJ11 telephone cable to the **"DSL"** port of the splitter and connect the other end of this cable to the **"LINE"** port of your Integrated Access Device.Or, direct connects the supplied RJ11 telephone cable from your home's telephone jack to the "**LINE**" port of your Integrated Access Device, in case there is no supplied splitter.

3. Connect a RJ11 telephone cable to the **"PHONE"** port of the splitter and connect the other end to your telephone.

4. Connect a RJ11 telephone cable to the **"PHONE 1"** and/or **"PHONE 2"** port of Integrated Access Device and connect the other end to your telephone.

5. Connect the power adapter to the power inlet **"POWER"** of the Integrated Access Device and turn the **"ON/OFF SWITCH"** switch of your Integrated Access Device on.

LED meanings & activations

Your Integrated Access Device has indicator lights on the front side. Please see below for an explanation of the function of each indicator light.

POWER Power indicator

1 Ethernet Active indicator

DSL DSL Link indicator

WLAN Wireless Active indicator

INTERNET Internet Active indicator

WPS WPS Active indicator

PHONE 1 The phone is in use and VoIP link indicator

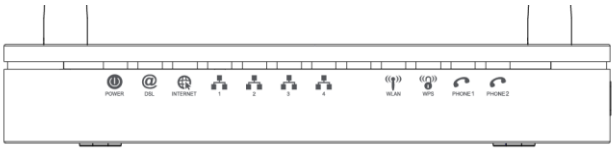


Table1. LED function

Label	Color	On	Flash	Off
POWER	Red	N/A	N/A	N/A
	Green	Ready	Waiting for device ready	Power Off
1	Green	Ethernet Connected	Transmit / Receive Data	Ethernet Disconnected
WLAN	Green	WLAN Ready	Transmit / Receive Data	WLAN Off
DSL	Green	Connect to DSLAM	Disconnect to DSLAM	N/A
INTERNET	Green	The device has a WAN IP address from ISP	Transmit / Receive Data	N/A
	Red	N/A	N/A	N/A
WPS	Green	N/A	Start WPS peer within 2 minutes	WPS Idle
PHONE 1	Green	VoIP link established	The phone is in use	No VoIP link established

The icons appear on the products are for application indication only.

Connectors

Table 2 shows the function of each connector and switch of the device.

Table 2. Function / Description of Connectors

Connector	Description
POWER	Connects to your Integrated Access Device 12Vdc power adaptor
SWITCH	Power Switch
LAN1~4	RJ-45 Jack (Ethernet Cable) connection to your PC, or HUB
PHONE 1 / PHONE 2	Connects the device to a regular telephone
LINE	Connects to your VDSL2 line – for VDSL2 Line input
RESET	Press this button for at least 5 full seconds to start to reset the device to its default settings.
WPS	Press this button for at least 3 full seconds and the WPS LED will flash to start WPS. Now go to the wireless adapter or device and press its WPS button. Make sure to press the button within 120 seconds (2 minutes) after pressing the router's WPS button.
WLAN	Press this button for at least 3 full second to turn off/on wireless signals

Figure1. Rear View of the Integrated Access Device

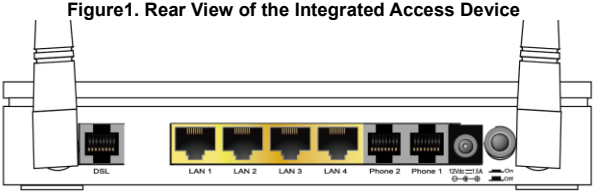


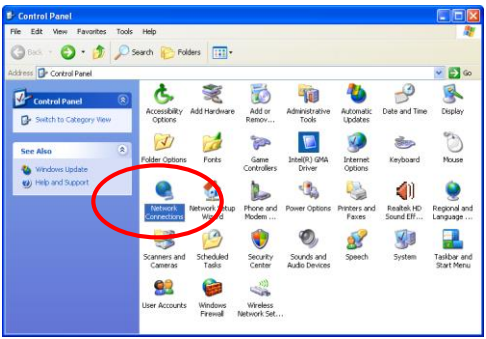
Figure2. WPS and WLAN button

Computer configurations under different OS, to obtain IP address automatically

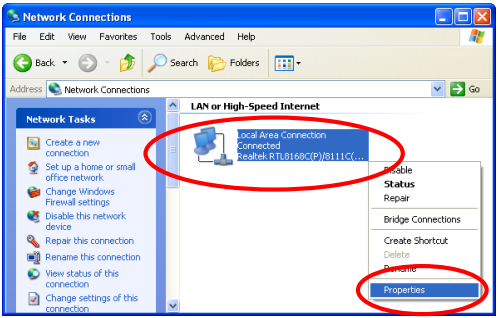
Before starting the Integrated Access Device configuration, please kindly configure the PC computer as below, to have automatic IP address / DNS Server.

For Windows 98SE / ME / 2000 / XP

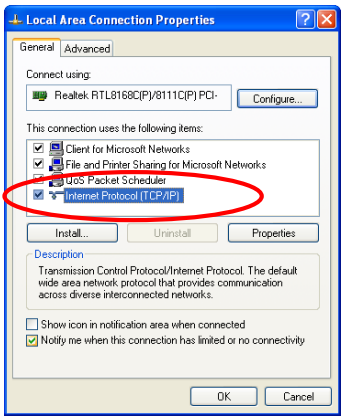
1. Click on "**Start**" -> "**Control Panel**" **(in Classic View)**. In the Control Panel, double click on "**Network Connections**" to continue.



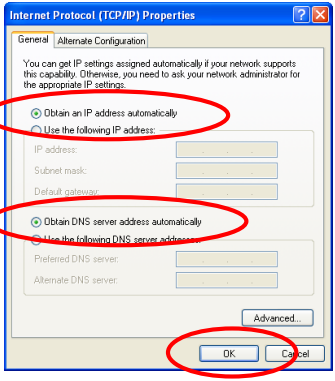
2. Single RIGHT click on "**Local Area connection**", then click "**Properties**".



3. Double click on "**Internet Protocol (TCP/IP)**".



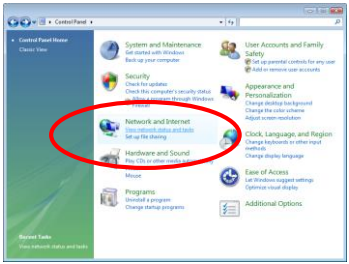
4. Check "**Obtain an IP address automatically**" and "**Obtain DNS server address automatically**" then click on "**OK**" to continue.



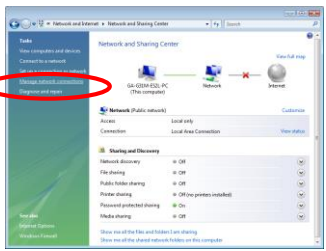
5. Click "**Show icon in notification area when connected**" (see screen image in 3. above) then Click on "**OK**" to complete the setup procedures.

For Windows Vista-32/64

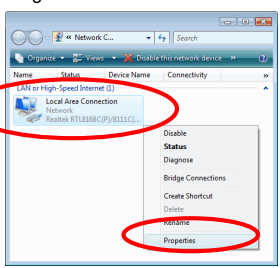
1. Click on "**Start**" -> "**Control Panel**" -> "**View network status and tasks**".



2. In the Manage network connections, click on "**Manage network connections**" to continue.

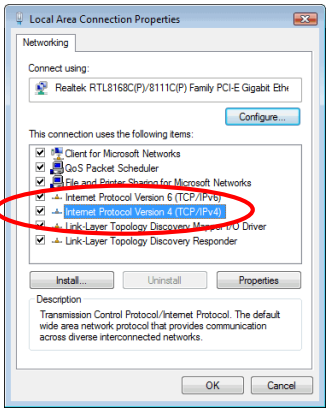


3. Single RIGHT click on "**Local Area connection**", then click "**Properties**".

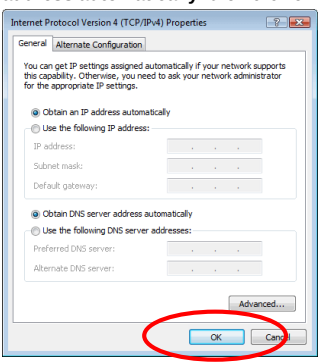


4. The screen will display the information "**User Account Control**" and click "**Continue**" to continue.

5. Double click on "**Internet Protocol Version 4 (TCP/IPv4)**".



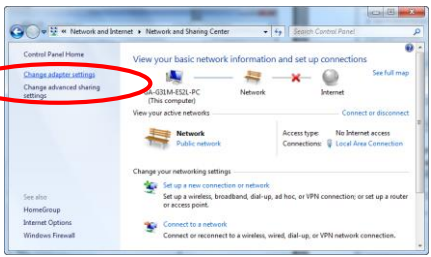
6. Check "**Obtain an IP address automatically**" and "**Obtain DNS server address automatically**" then click on "**OK**" to continue.



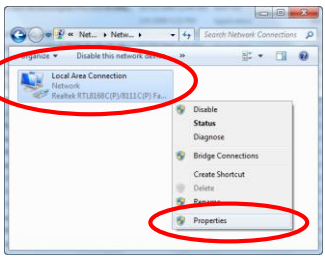
For Windows 7-32/64

1. Click on "**Start**" -> "**Control Panel**" **(in Category View)** -> "**View network status and tasks**".

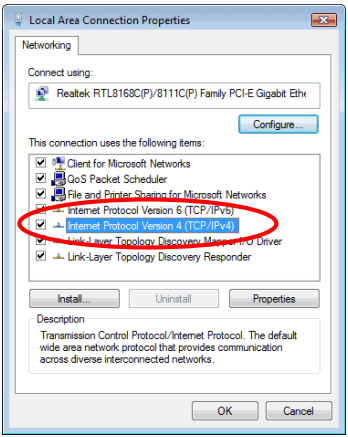
2. In the **Control Panel Home**, click on "**Change adapter settings**" to continue.



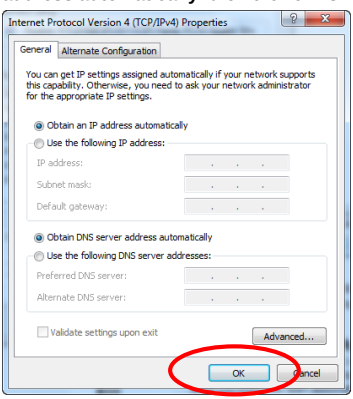
3. Single RIGHT click on "**Local Area connection**", then click "**Properties**".



4. Double click on "**Internet Protocol Version 4 (TCP/IPv4)**".



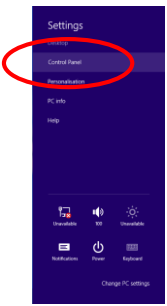
5. Check "**Obtain an IP address automatically**" and "**Obtain DNS server address automatically**" then click on "**OK**" to continue.



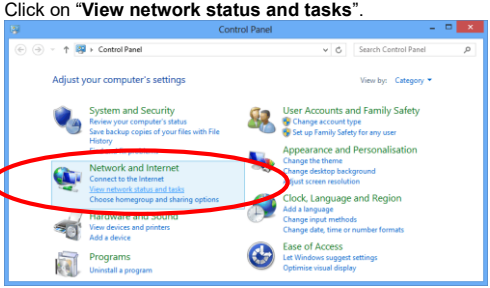
For Windows 8/8.1-32/64

1. Move the mouse or tap to the upper right corner and click on “**Settings**”.

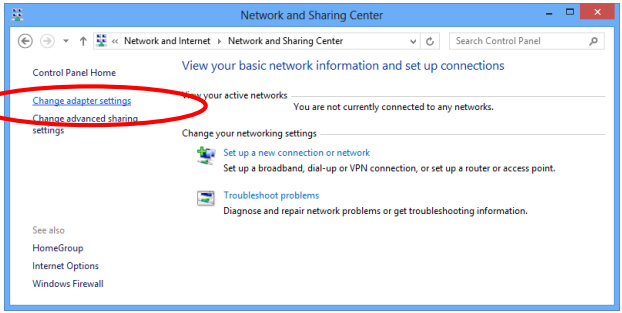
2. Click “**Control Panel**”.



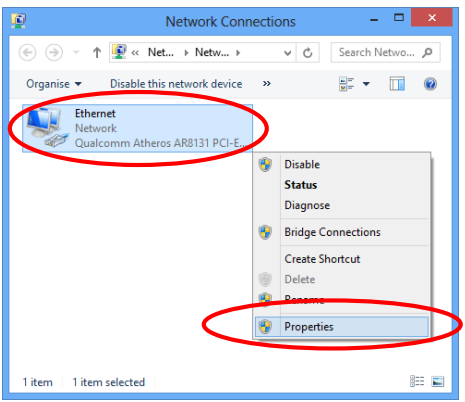
3. Click on “**View network status and tasks**”.



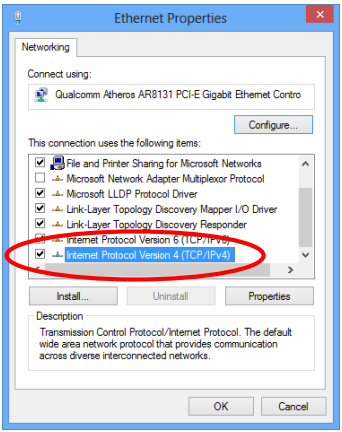
4. In the **Control Panel Home**, click on "**Change adapter settings**" to continue.



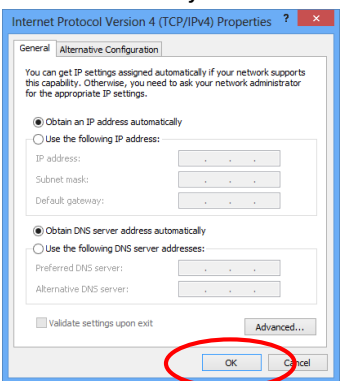
5. Single RIGHT click on "**Ethernet**", then click "**Properties**".



6. Double click on "**Internet Protocol Version 4 (TCP/IPv4)**".

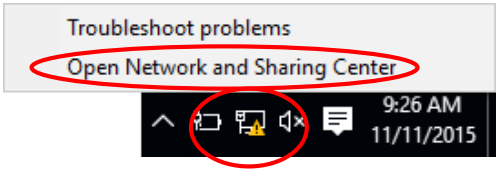


7. Check "**Obtain an IP address automatically**" and "**Obtain DNS server address automatically**" then click on "**OK**" to continue.

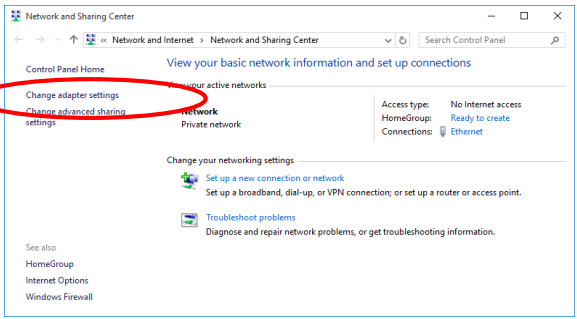


For Windows 10-32/64

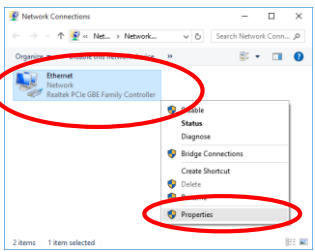
1. Right click on **Network** icon , then click "**Open Network and Sharing Center**" .



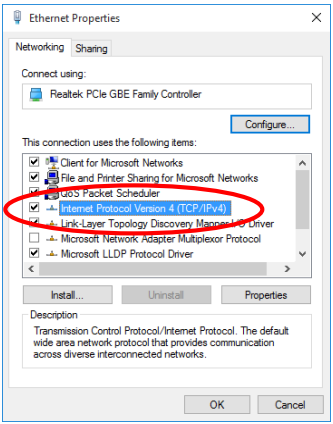
2. In the **Control Panel Home**, click on "**Change adapter settings**" to continue.



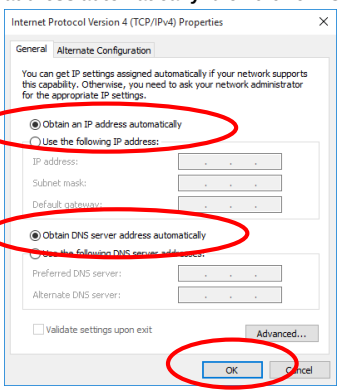
3. Single RIGHT click on "**Ethernet**", then click "**Properties**".



4. Double click on "**Internet Protocol Version 4 (TCP/IPv4)**".



5. Check "**Obtain an IP address automatically**" and "**Obtain DNS server address automatically**" then click on "**OK**" to continue.

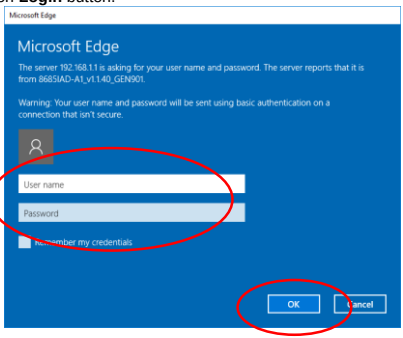


Advanced Configuration

Advanced Configuration

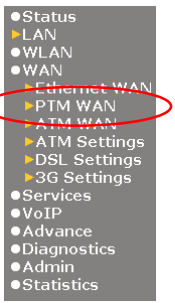
1. From any of the LAN computers connected to , launch your web browser, type the following URL in the web address (or location) box, and press [Enter] on your keyboard:
   http://192.168.1.1

2. Please enter the Login User Name: **admin** and Login Password: **admin**and then click on **Login** button.



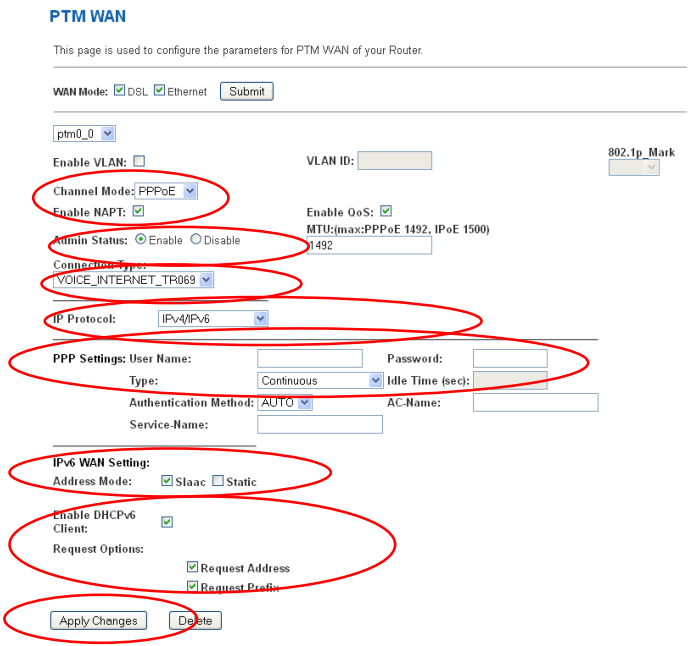
VDSL WAN Configuration (VDSL Line User)

1. From the left-hand menu, click on **WAN -> PTM WAN**.



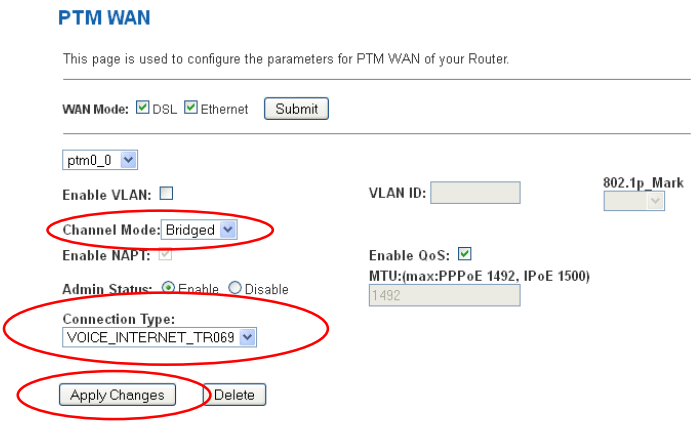
PPPoE

*From the Channel Mode drop-down list, select **PPPoE** setting.*
***Enable** Enable NAPT*
*From the Connection Type drop-down list, select **VOICE_INTERNET_TR069** setting.*
*From the **IP Protocol** drop-down list, select IPv4, IPv6 or dual stacks IPv4/IPv6 determined by your ISP.*
*Enter **User Name**/**Password** provided by your ISP. Type them in the relevant boxes.*
Configure IPv6 WAN setting determined by your ISP if any.
*If you are happy with your settings, click **Apply Changes***



Bridged

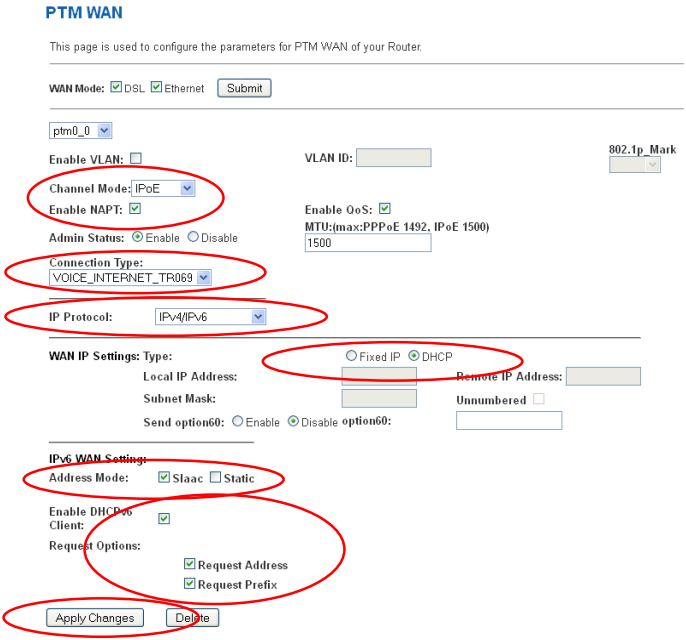
*From the **Channel Mode** drop-down list, select **Bridged** setting.*
*From the Connection Type drop-down list, select **VOICE_INTERNET_TR069** setting.*
*If you are happy with your settings, click **Apply Changes***



Now you can load your PPPoE Client Software onto your PC.
Now you can load your PPPoE Client Software with user name and password which determined by your ISP onto your PC.

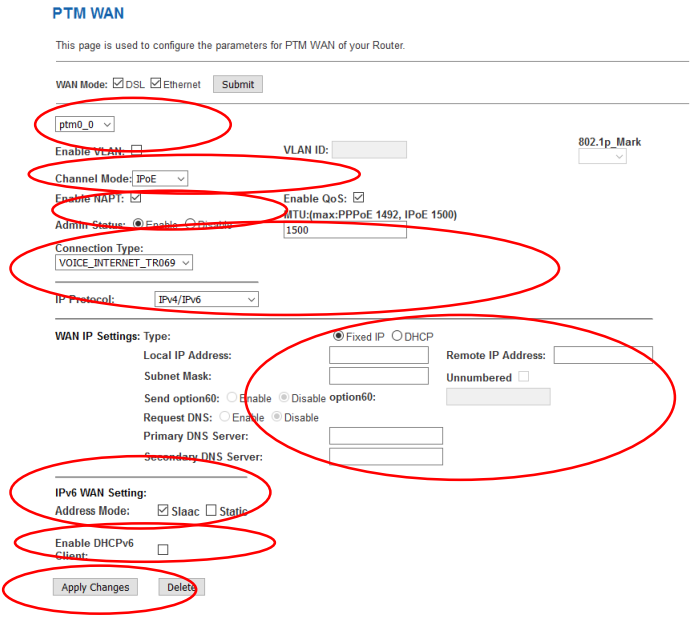
IPoE by DHCP

*From the **Channel Mode** drop-down list, select **IPoE** setting.*
***Enable** Enable NAPT*
*From the Connection Type drop-down list, select **VOICE_INTERNET_TR069** setting.*
*From the **IP Protocol** drop-down list, select IPv4, IPv6 or dual stacks IPv4/IPv6 determined by your ISP.*
*From the Type ratio, click **DHCP**.*
Configure IPv6 WAN setting determined by your ISP if any.
*If you are happy with your settings, click **Apply Changes***



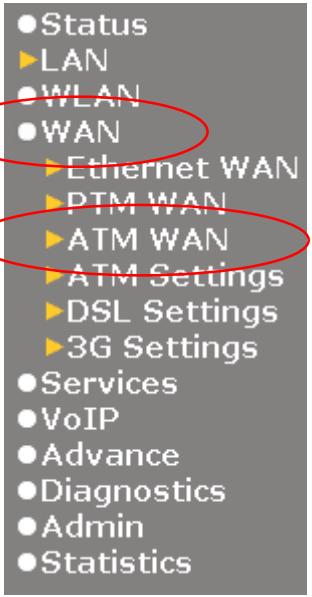
IPoE by Fixed IP

*From the **Channel Mode** drop-down list, select **IPoE** setting.*
***Enable** Enable NAPT*
*From the Connection Type drop-down list, select **VOICE_NTERNET_TR069** setting.*
*From the **IP Protocol** drop-down list, select IPv4, IPv6 or dual stacks IPv4/IPv6 determined by your ISP.*
*From the Type ratio, click **Fixed IP**.*
*Enter **Local IP Address, Subnet Mask, Remote IP Address, Primary DNS Server** and **Secondary DNS Server** which was given by Telecom or by your Internet Service Provider (ISP).*
Configure IPv6 WAN setting determined by your ISP if any.
*If you are happy with your settings, click **Apply Changes***



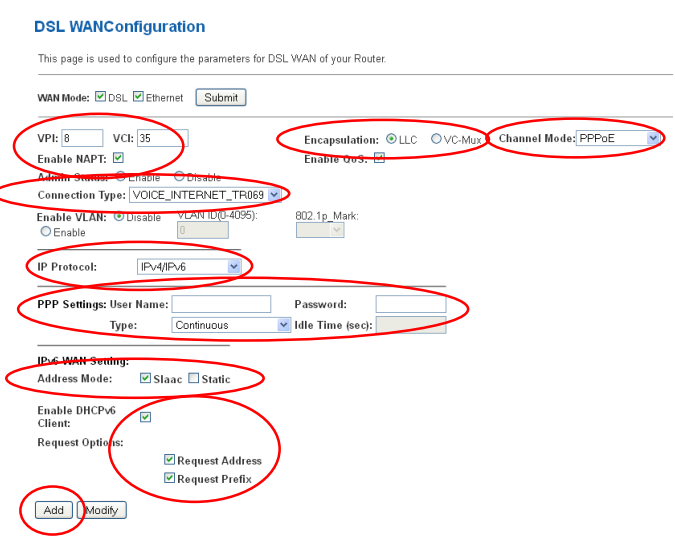
DSL WAN Configuration (ADSL Line User)

1. From the left-hand menu, click on **WAN -> ATM WAN**.



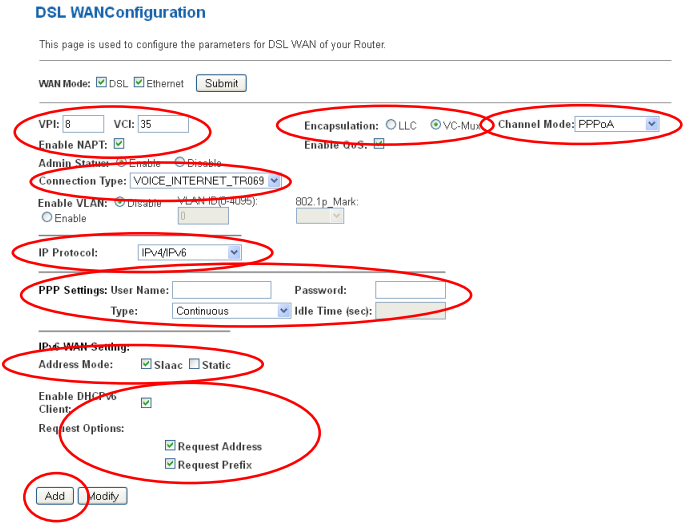
PPPoE

*Enter **VCI** and **VPI** setting determined by your ISP.*
*Select the **Encapsulation** determined by your ISP.*
*From the Channel Mode drop-down list, select **PPPoE** setting.*
***Enable** Enable NAPT*
*From the Connection Type drop-down list, select **VOICE_INTERNET_TR069** setting.*
*From the **IP Protocol** drop-down list, select IPv4, IPv6 or dual stacks IPv4/IPv6 determined by your ISP.*
*Enter **User Name**/**Password** provided by your ISP. Type them in the relevant boxes.*
Configure IPv6 WAN setting determined by your ISP if any.
*If you are happy with your settings, click **Add***



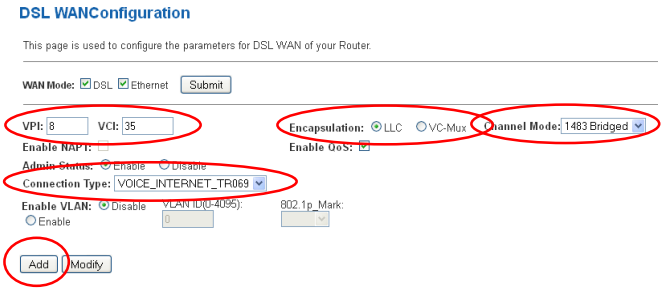
PPPoA

*Enter **VCI** and **VPI** setting determined by your ISP.*
*Select the **Encapsulation** determined by your ISP.*
*From the Channel Mode drop-down list, select **PPPoA** setting.*
***Enable** Enable NAPT*
*From the Connection Type drop-down list, select **VOICE_INTERNET_TR069** setting.*
*From the **IP Protocol** drop-down list, select IPv4, IPv6 or dual stacks IPv4/IPv6 determined by your ISP.*
*Enter **User Name**/**Password** provided by your ISP. Type them in the relevant boxes.*
Configure IPv6 WAN setting determined by your ISP if any.
*If you are happy with your settings, click **Add***



Bridged

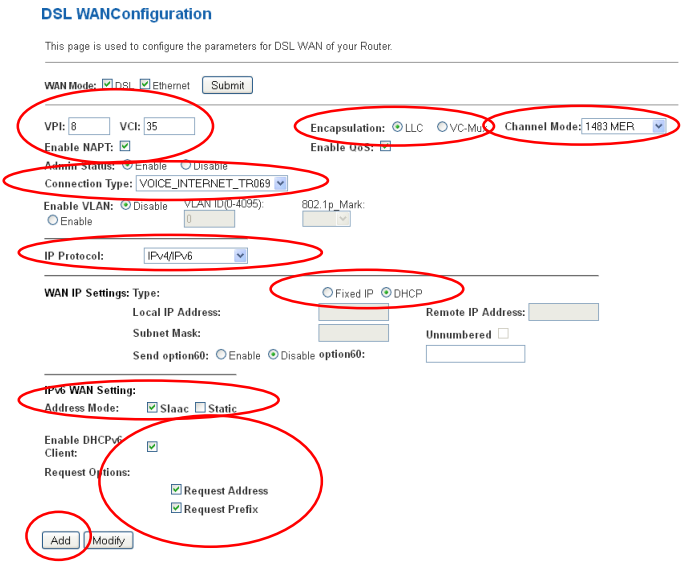
*Enter **VCI** and **VPI** setting determined by your ISP.*
*Select the **Encapsulation** determined by your ISP.*
*From the **Channel Mode** drop-down list, select **1483 Bridged** setting.*
*From the Connection Type drop-down list, select **VOICE_INTERNET_TR069** setting.*
*If you are happy with your settings, click **Add***



Now you can load your PPPoE Client Software onto your PC.
Now you can load your PPPoE Client Software with user name and password which determined by your ISP onto your PC.

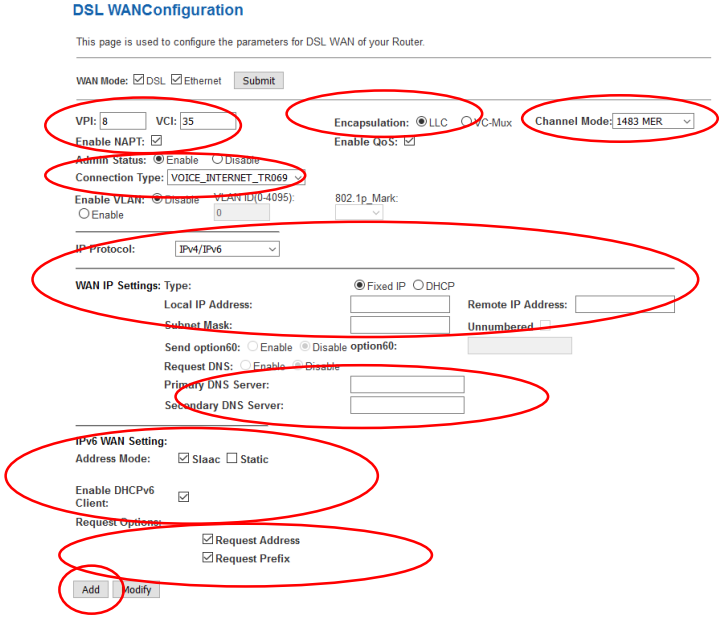
1483 MER by DHCP

*Enter **VCI** and **VPI** setting determined by your ISP.*
*Select the **Encapsulation** determined by your ISP.*
*From the **Channel Mode** drop-down list, select **1483 MER** setting.*
***Enable** Enable NAPT*
*From the Connection Type drop-down list, select **VOICE_INTERNET_TR069** setting.*
*From the **IP Protocol** drop-down list, select IPv4, IPv6 or dual stacks IPv4/IPv6 determined by your ISP.*
*From the Type ratio, click **DHCP**.*
Configure IPv6 WAN setting determined by your ISP if any.
*If you are happy with your settings, click **Add***



1483 MER by Fixed IP

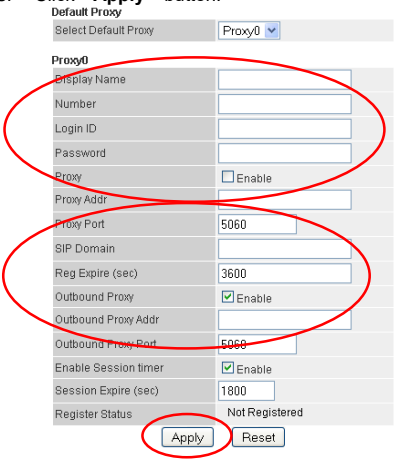
*Enter **VCI** and **VPI** setting determined by your ISP.*
*Select the **Encapsulation** determined by your ISP.*
*From the **Channel Mode** drop-down list, select **1483 MER** setting.*
*From the **IP Protocol** drop-down list, select IPv4, IPv6 or dual stacks IPv4/IPv6 determined by your ISP.*
***Enable** Default Route*
*From the Type ratio, click **Fixed IP**.*
*Enter **IP Address, Subnet Mask, Remote IP Address, Primary DNS Server** and **Secondary DNS Server** which was given by Telecom or by your Internet Service Provider (ISP).*
Configure IPv6 WAN setting determined by your ISP.
*If you are happy with your settings, click **Add***



VoIP PHONE 1 Configuration

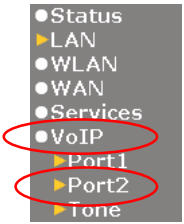
1. From the left-hand menu, click on **VoIP -> Port1**.

2. Enter **Display Name**, **Number**, **Login ID** and **Password**.
3. Enable **Proxy**.
4. Enter **Proxy Server Address** and **Proxy Server Port** of SIP Server for example 192.168.10.101 and 5060.
5. Enter **SIP Domain Address** of SIP Server for example 192.168.10.101.
6. Enable **Outbound Proxy**.
7. Enter **Outbound Proxy Address** and **Outbound Proxy Port** of SIP Server for example 192.168.10.101 and 5060.
8. Click **" Apply "** button.

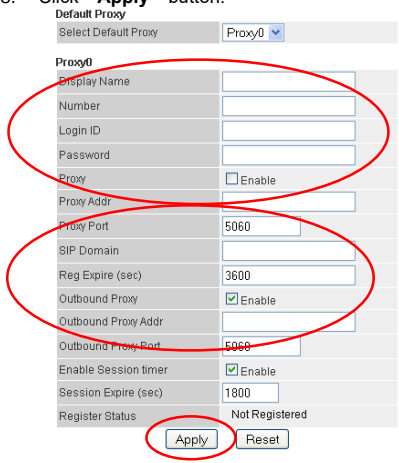


VoIP PHONE 2 Configuration

1. From the left-hand menu, click on **VoIP -> Port2**.

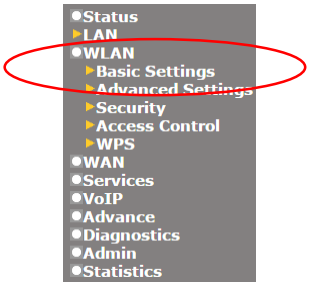


2. Enter **Display Name**, **Number**, **Login ID** and **Password**.
3. Enable **Proxy**.
4. Enter **Proxy Server Address** and **Proxy Server Port** of SIP Server for example 192.168.10.101 and 5060.
5. Enter **SIP Domain Address** of SIP Server for example 192.168.10.101.
6. Enable **Outbound Proxy**.
7. Enter **Outbound Proxy Address** and **Outbound Proxy Port** of SIP Server for example 192.168.10.101 and 5060.
8. Click **" Apply "** button.

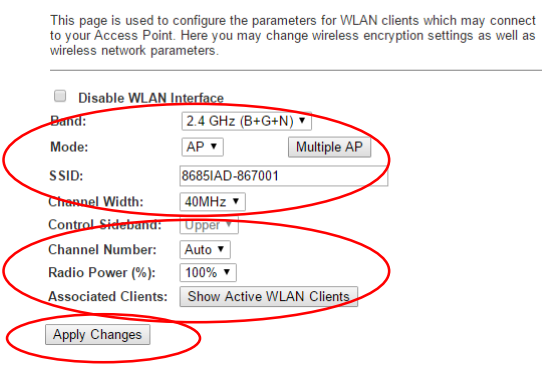


Wireless Configuration

1. From the left-hand menu, click on **WLAN -> Basic Settings**.

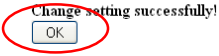


2. From the Band drop-down list, select a Band.
3. From the Mode drop-down list, select AP setting.
4. Enter SSID for example 8685IAD-300800. **(the default settings Radio On/Off = On, Network Name(SSID) = 8685IAD-xxxxxx which could be found on the sticker of the bottom side of the device)**.
5. From the Channel Width drop-down list, select a Channel Width.
6. From the Control Sideband drop-down list, select a Control Sideband.
7. From the Channel Number drop-down list, select a Channel Number.
8. Click **Apply Changes**.



9. Change setting successfully!

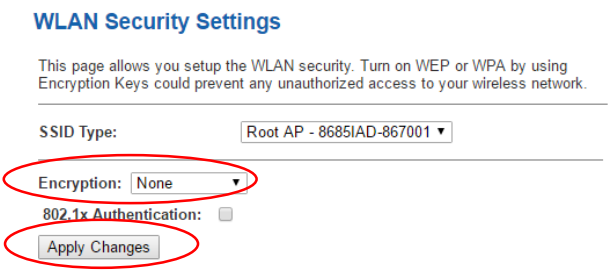
10. Click **OK**.



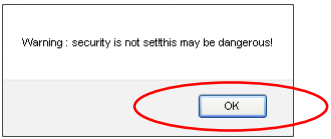
11. From the left-hand menu, click on **WLAN -> Security**.

12. From the Encryption list, choose the Encryption type if necessary, as *None / WEP / WPA/ WPA2* and *WPA2 Mixed Mode* ***(the default settings Security Mode = WPA2 Mixed and passphrase is xxxxxxxx which could be found on the sticker of the bottom side of the device)***. For example, the Encryption you choose is **None**.

13. Click **Apply Changes**.



14. Warning : security is not set! This may be dangerous!
15. Click **OK**.



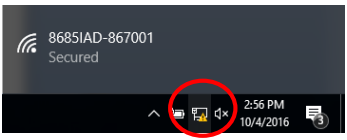
16. Change setting successfully!
17. Click **OK**.

18. Now, the Integrated Access Device has been configured completely, and suitable for Wireless and Internet Connections.

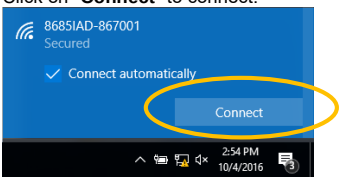
Wireless Connection

For easy installation it is saved to keep the settings. You can later change the wireless settings via the wireless configuration menu.

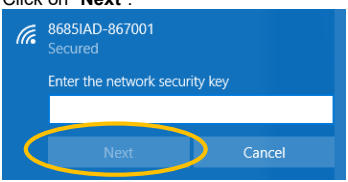
1. Click on the Network icon on your computer and search for the wireless network that you entered SSID name.
2. Click on the wireless network that you entered SSID name **(the default settings, Wireless Network = Enable, Default Channel = Auto, SSID = 8685IAD-xxxxxx which could be found on the bottom side of the device)** to connect.



3. Click on "**Connect**" to connect.



4. If the wireless network is encrypted, enter the network key that belongs to your authentication type and key. **(the default settings Security Mode = WPA2 Mixed and passphrase is xxxxxxxx which could be found on the sticker of the bottom side of the device)**. You can later change this network key via the wireless configuration menu.
5. Click on "**Next**".



6. Now you are ready to use the Wireless Network to Internet or intranet.

WEEE Directive & Product Disposal

At the end of its serviceable life,
This product should not be treated as household or general waste.
It should be handed over to the applicable collection point for
the recycling of electrical and electronics equipment,
Or returned to the supplier for disposal.