

OPEN



OPEN824RLW/RL Router

Configuring PPP And SIP

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Revision Number: 2.1

Date Released: 19 May 2006

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Introduction

Purpose

This Application Note provides step-by-step instructions for configuring advanced functions on the OPEN824.

The following key areas are addressed:

- Logging into the OPEN824;
- Setting up PPP session;
- Configuring VoIP;
- Saving configuration.

Audience

This Application Note is intended for a technical audience. It is assumed that the reader is familiar with IP Networking and LAN/WAN technologies.

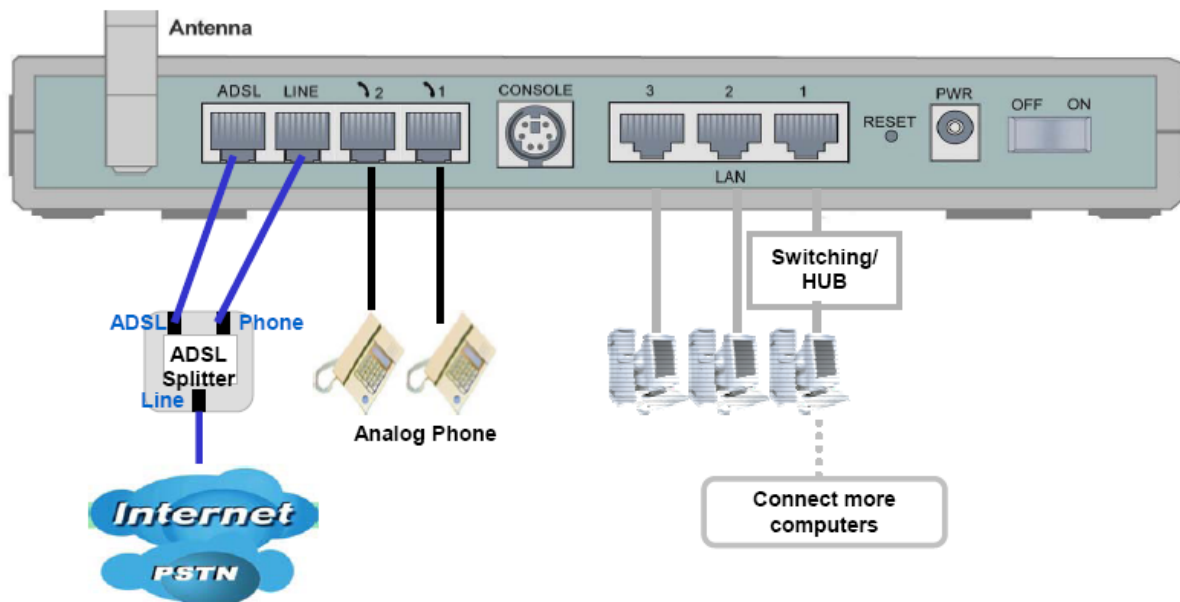
Requirements

You will need the following:

- 1 An OPEN824.
- 2 A computer connected to the OPEN824 via the LAN or wireless port with an operational Internet browser.
- 3 An Analogue Phone connected to one of the phone ports.

Hardware Set Up

- Connect the power to the OPEN824;
- Connect your OPEN824 LAN port to the Ethernet port of your computer using an Ethernet Cable or connect wirelessly;
- Connect the analogue phone to Phone Port 1 on the OPEN824;
- Connect your ADSL telephone line to the OPEN824 ADSL port;
- Ensure that your computer is set to *Obtain an IP Address Automatically*.



Logging Into The OPEN824 And Setting Up PPP Connection

step 1 Access the OPEN824 by opening your computer's web browser and typing the following in the *Address* bar: <http://192.168.1.254>

Note: If you have changed the LAN IP address from the default you will need to connect to the new address.

step 2 At the *Connect to..* screen, in the *Username* field, enter `admin`, and in the *Password* field enter `admin`, then click **OK**.



The following appears:

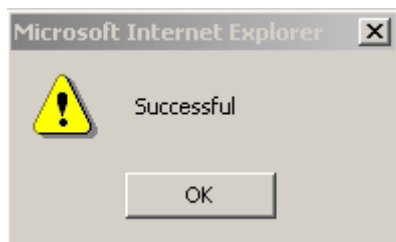
Status	
Device Information	
Model Name	OPEN824RLW VoIP/ADSL2+ Wireless Router (Lifeline)
Host Name	home.gateway
System Up-Time	00:21:39s
Current Time	Thu, 01 Jan 1970 - 00:21:39 Sync Now
Hardware Version	Argon 432 ADSL-A2/G/VO v1.00
Software Version	5.04h
MAC Address	00:04:ED:42:0A:AD
Home URL	OPEN Networks Pty Ltd
LAN	
IP Address	192.168.1.254
SubNetmask	255.255.255.0
DHCP Server	Enabled
WAN	
ipwan	
VPI / VCI	8 / 35
PPPoE Connection	Attempting to Connect Disconnect
Connected time so far	00:00:00s
IP Address	0.0.0.0

step 3 Click **Quick Start** from the menu list. The following appears:

Quick Start	
Connection	
Encapsulation	PPPoE <input type="button" value="Auto Scan"/>
VPI	8
VCI	35
NAT	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Optional Settings	
IP Address	0.0.0.0 <small>(0.0.0.0 means 'Obtain an IP address automatically')</small>
SubNetmask	0.0.0.0
Default Gateway	
DNS	
Obtain DNS automatically	<input checked="" type="checkbox"/> Enable
Primary DNS	
Secondary DNS	
PPP	
Username	myISPlogin@isp.com
Password	*****
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

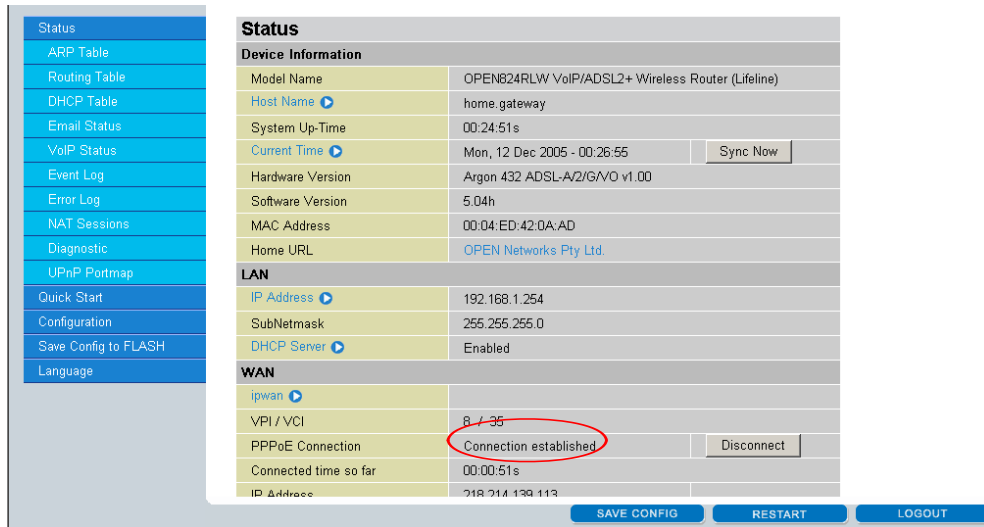
In the *Quick Start* screen:

- In the *Connection* area of the screen, from the *Encapsulation* drop-down list, highlight *PPPoE*;
- Leave the *VPI*, *VCI* and *NAT* settings as the default;
- If using a static IP address complete the following *Optional Settings* area of the screen, enter a static IP, subnet and default gateway in the *IP Address*, *SubNetmask* and *Default Gateway* fields;
- In the *DNS* area of the screen, select Obtain DNS automatically. If using a static IP address you may need to enter the primary and secondary DNS addresses in the *Primary DNS* and *Secondary DNS* fields;
- In the *PPP* area of the screen, enter your username and password as provided by your ISP in the *Username* and *Password* fields;
- Click **Apply** and **OK** to Successful dialog box.



OPEN824RLW/RL Router Configuring PPP And SIP

The following screen displays indicating the connection status.



The screenshot shows the 'Status' page of the router. The left sidebar contains navigation links: Status, ARP Table, Routing Table, DHCP Table, Email Status, VoIP Status, Event Log, Error Log, NAT Sessions, Diagnostic, UPnP Portmap, Quick Start, Configuration, Save Config to FLASH, and Language. The main content area is titled 'Status' and is divided into sections: 'Device Information', 'LAN', and 'WAN'. The 'WAN' section shows the 'ipwan' status as 'Connection established', which is circled in red. Other WAN details include VPI/VCI (8 / 35), Connected time so far (00:00:51s), and IP Address (218.214.130.113). At the bottom of the page are buttons for 'SAVE CONFIG', 'RESTART', and 'LOGOUT'.

Device Information	
Model Name	OPEN824RLW VoIP/ADSL2+ Wireless Router (Lifeline)
Host Name	home.gateway
System Up-Time	00:24:51s
Current Time	Mon, 12 Dec 2005 - 00:26:55 <input type="button" value="Sync Now"/>
Hardware Version	Argon 432 ADSL-A2/G/VO v1.00
Software Version	5.04h
MAC Address	00:04:ED:42:0A:AD
Home URL	OPEN Networks Pty Ltd

LAN	
IP Address	192.168.1.254
SubNetmask	255.255.255.0
DHCP Server	Enabled

WAN	
ipwan	<input type="button" value="ipwan"/>
VPI / VCI	8 / 35
PPPoE Connection	Connection established <input type="button" value="Disconnect"/>
Connected time so far	00:00:51s
IP Address	218.214.130.113

Congratulations! You are now ready to browse the Internet!

Setting Up The VoIP Connection

From the *Status* screen,

step 1 Click **Configuration**, then **VoIP**, then **General Settings** from the menu list. The following appears:

General Settings

SIP Device Parameters

SIP	<input type="checkbox"/> Enable <input type="checkbox"/> Disable
Silence Suppression (VAD)	<input type="checkbox"/> Enable <input type="checkbox"/> Disable
Echo Cancellation	<input type="checkbox"/> Enable <input type="checkbox"/> Disable
RTP Port	5100
Region	Australia
Voice QoS	Premium

Setting for Phone Port 1

Registrar Address(or Hostname)	sip.syd.switel.com.au
Registrar Port	5060
Expire	240 seconds
User Domain/Realm	(if empty, it is the same as Registrar Address.)
Outbound Proxy Address	(if empty, it is the same as Registrar Address.)
Outbound Proxy Port	5060

Setting for Phone Port 2

Registrar Address(or Hostname)	fwd.pulver.com
Registrar Port	5060
Expire	3600 seconds
User Domain/Realm	fwd.pulver.com (if empty, it is the same as Registrar Address.)
Outbound Proxy Address	fwdnat.pulver.com (if empty, it is the same as Registrar Address.)
Outbound Proxy Port	5082

⚠ Please note: VoIP configuration changes will only take effect when you use apply changes and select **Sync Now** for the relevant line, or when you apply changes, save configuration and restart the device.

step 2 Complete the following:

- In The *SIP Device Parameters* area of the screen, set the *region* to Australia from the *Region* drop-down list;
- In the *Setting for Phone Port 1* area of the screen, enter the Registrar IP Address or hostname in the *Registrar Address (or Hostname)* field;
- Leave the *Registrar Port* at the default unless instructed otherwise by your service provider;



NOTE:

If the User Domain/Realm and Outbound Proxy fields are empty, these fields are the same as the Registrar Address.

- In the *User Domain/Realm* field, enter the domain only if different from the Registrar Address;
- In the *Outbound Proxy* field, enter a proxy server only if different from the Registrar Address;
- Click **Apply**.

step 3 Click **Wizard**, under the **VoIP** heading. The following appears:

step 4 Complete the following In The *Settings for Phone Port 1*:

- Select your SIP Service (setup in the previous screen) from the drop down list;
- In the *Phone Number* field, enter your Phone Number;
- In the *Authentication Username* field, enter your Username if different to the Phone Number;
- In the *Authentication Password* field, enter your SIP password;
- Click **Apply**, the screen returns to the *General Settings* screen;

step 5 In the *General Settings* screen, click **Sync Now** next to the configured Phone port to activate the VoIP connection.



NOTE:

Your VoIP LED will light up if successfully connected.

step 6 To verify your VoIP service is ready, click **Phone Port** from the **VoIP** menu.

Phone Configuration

Phone Port

Index	Phone Number	Display Name	Registered	
1	61262444783		registered	Edit
2			unknown	Edit

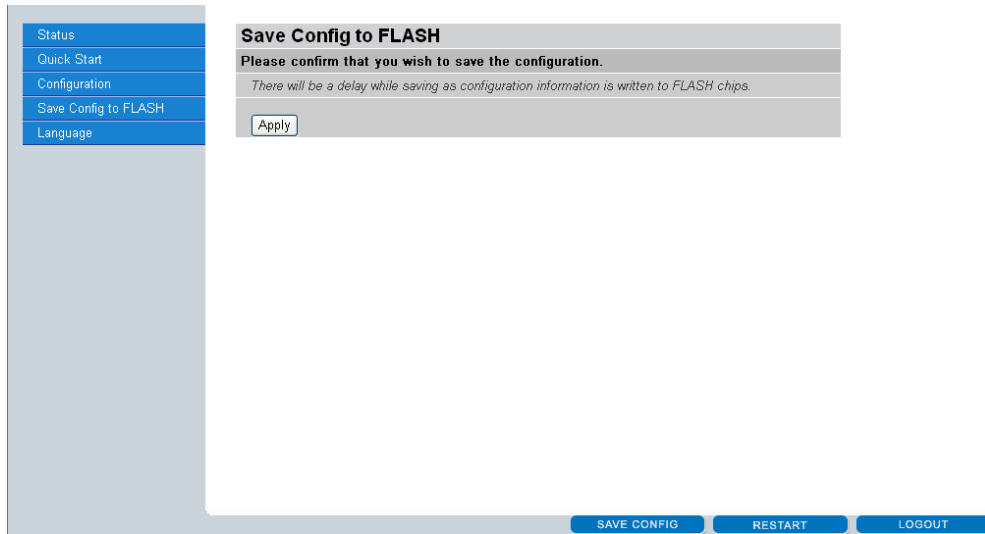
Caution! The VoIP configuration will take effect only when you apply the changes, save configuration and restart the device.

[SAVE CONFIG](#) [RESTART](#) [LOGOUT](#)

- Check the Phone port is registered.

Saving Your Configuration

step 1 Click **Save Config**. The following appears:



step 2 Click **Apply** to confirm and save the settings to Flash. The following confirmation message appears:



step 3 Click **OK**

Congratulations! You can now make VoIP calls!