Using a DG834 Router as a Simple ADSL Modem

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This case study is donated by Netgear Forum Member "GuyAdams" (03-2007)

Summary

For those of you that have ADSL connections but want to deploy a business class router from the Netgear Prosafe range your options are limited as until recently none had in-built ADSL modems.

You can of course put another ADSL router in front of the Prosafe router but you will run into issues with 'double NAT' (network address translation). This is where NAT occurs twice, once at the first ADSL router and then again at the Prosafe router.

To prevent this you can covert a DG834 into a simple ADSL modem.

The benefits of this are that your DG834 becomes transparent and your Prosafe router will obtain your WAN (wide area network) IP address directly. This is useful should you need to port forward or remotely gain access to your network from the internet.

This document applies to all DG834 routers including the wireless options and most of the Netgear Prosafe router range.

Instructions:

Log into your DG834, the default address is http://192.168.0.1. The default username and password is 'admin' and 'password'
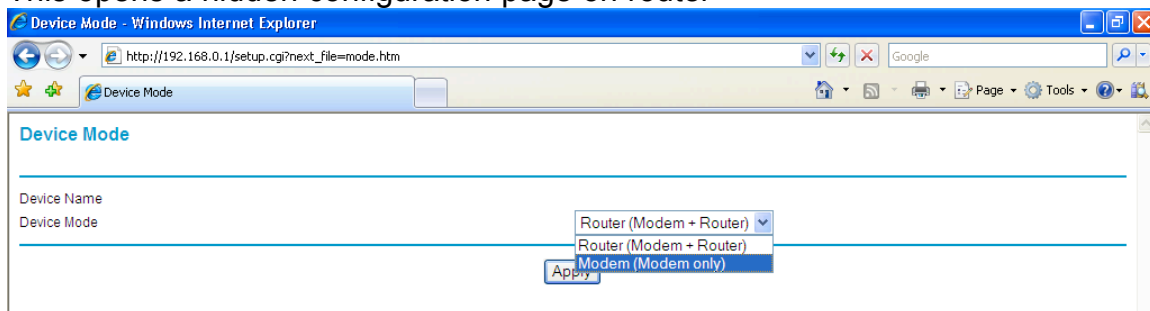
Once logged in change the address URL in the address bar from:

http://192.168.0.1/setup.cgi?next_file=start.htm
to:
http://192.168.0.1/setup.cgi?next_file=mode.htm

This opens a hidden configuration page on router

Select 'Modem (Modem only)' and click apply.

This will convert the router into a simple ADSL mode.

Connect port 1 of your DG834 to the internet port of your Prosafe router.

Then login to your Prosafe router, the default address is http://192.168.0.1. The default username and password is 'admin' and 'password'

On the 'Basic settings' page, select YES under 'Does Your Internet Connection Require A Logon?'

The select 'Other (PPPoE)' under 'Internet Service Provider Name'

Enter your ADSL username and password in full

Click 'APPLY'

Leave the router for two minutes, during this time it should connect to the internet. If the router does not connect, try following the troubleshooting at the end of this document.

Notes

Once in 'Modem only' mode the DG834 will act as a simply modem, its IP address will have no relevance except for connecting to the router to change settings or reconfigure. Remember this IP

address, as DHCP will no longer function and you will need it if you wish to connect to the DG834 in future.

Once configured you can use the DG834 as a simple ADSL modem on its own or in front of any other device which can dial PPPoE connections, this includes software PPPoE dialers.

Troubleshooting

If after configuring your DG834 and Prosafe router, you cannot connect to the internet try the following:

Log into your Prosafe router and try a software reset, to do this navigate to the 'Diagnostics' page and press the 'Reboot' button.

or

Turn the power off to both the DG834 and the Prosafe router, wait for thirty seconds. First reconnect the power to the DG834 and wait for sixty seconds, then reconnect the power to the Prosafe router and wait a further two minutes.

or

Leave the router and modem for ten minutes, usually within this time the Prosafe router will have established a connection using the DG834.

or

In some areas where ADSL services are running over older core networks you may find that the above does not work. To remedy this disconnect the DG834 from the Prosafe router. Connect the DG834 directly to your computer and log into the web configuration as above. In ADSL settings, select LLC from the 'encapsulation' drop down box. Click 'Apply' and reconnect your DG834 to the 'Internet' port of your Prosafe router. Disconnect the power from both and wait for thirty seconds, reconnect the DG834 and wait sixty seconds, then reconnect the power to the Prosafe router and wait a further two minutes. After this your router should connect to the internet.

If you still have problems visit www.vpncasestudy.com or email info@vpncasestudy.com

Alternatively you can post on your issue or any other Netgear related issue at the Netgear User Forums http://forum1.netgear.com/

Disclaimer

This case study is published to guide you on how to configure a DG834 as a simple ADSL modem. www.vpncasestudy.com holds no responsibility for any mistakes or errors.

This document offers no warranty. It is designed with helping you configure a DG834 as a simple ADSL modem using the above hardware and configurations.

Whilst I maintain that all the above information is accurate, I will not be held responsible for any mistakes, errors or data loss.

GuyAdams (rev 0.2, March 2007)

Disclaimer

Both ProSafe VPN/Firewall Routers and ProSafe VPN Client have several ways of setting up and configuring VPN tunnels. The settings may not be the best for your situation and some settings are situation specific.

This case study is published to guides you to setup your VPN Tunnel and VPNCASESTUDY.COM do not held any responsiblity of any mistakes or errors.

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