

Netgear Router Configuration for Internet Access to an Alien DVR, or similar IP addressable device.

Disclaimer: System Q does not endorse nor sell or support Netgear products. This Technical Tip was written for the DG834 model modem/router. Products are continually changing so users are advised to approach their Netgear vendor for support on this or the specific product purchased.

Accessing the Router's Configuration Screen

Most routers support configuration via a browser such as Internet Explorer, NetGear products do as well.

To log on, type the IP address **192.168.0.1** into the address bar of Internet Explorer.

- username = **admin**
- password = **password**



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The NetGear Configuration Screen

NETGEAR ADSL Firewall Router **DG834**

settings

- Setup Wizard
- Setup
- Basic Settings
- ADSL Settings
- Security
- Logs
- Block Sites
- Firewall Rules
- Services
- Schedule
- E-mail
- Maintenance
- Router Status
- Attached Devices
- Backup Settings
- Set Password
- Diagnostics
- Router Upgrade
- Advanced
- WAN Setup
- Dynamic DNS
- LAN IP Setup
- Remote Management
- Static Routes
- UPnP
- Advanced : VPN
- VPN Wizard
- VPN Policies
- VPN Status
- Web Support

Router Status

Account Name	
Firmware Version	V2.10.22
ADSL Port	
MAC Address	00:09:5b:b0:b0:79
IP Address	82.163.157.133
Network Type	PPPoA
IP Subnet Mask	255.255.255.255
Gateway IP Address	213.130.145.48
Domain Name Server	213.130.128.32
LAN Port	
MAC Address	00:09:5b:b0:b0:78
IP Address	192.168.1.1
DHCP	Off
IP Subnet Mask	255.255.255.0
Modem	
ADSL Firmware Version	3.02.06.00
Modem Status	Connected
DownStream Connection Speed	1152 kbps
UpStream Connection Speed	288 kbps
VPI	0
VCI	38

Router Status Help

You can use the *Router Status* page to check the current settings and statistics for your Router. This page shows you the current settings. If something needs to be changed, you'll have to change it on the relevant page.

Account Name: This is the Account Name that you entered in the *Setup Wizard* or *Basic Settings*.

Firmware Version: This is the current software the Router is using. This will change if you upgrade your Router.

ADSL Port: These are the current settings that you set in the *Setup Wizard* or *Basic Settings* pages.

- MAC Address - the physical address of the DG834, as seen from the Internet.
- IP Address - current Internet IP address. If assigned dynamically, and no Internet connection exists, this will be blank or 0.0.0.0
- Network Type - indicates either *Client* (IP address is obtained dynamically) or *None*.
- IP Subnet Mask - the subnet mask associated with the Internet IP address.
- Gateway IP Address - the Gateway associated with the Internet IP address.
- Domain Name Server - displays the address of the current DNS.

LAN Port: These are the current settings, as set in the *LAN IP Setup* page.

- MAC Address - the physical address of the DG834, as seen from the local LAN.
- IP Address - LAN IP address of the Router.
- DHCP - indicates if the DG834 is acting as a DHCP Server for devices on your LAN.
- IP Subnet Mask - subnet mask associated with the LAN IP address.

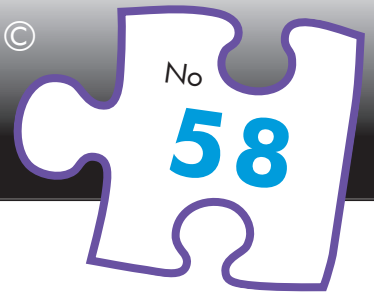
Modem: The current Modem status and settings are shown in this section.

- ADSL Firmware Version - This is the version number of the low-level ADSL firmware. This is contained within the Router Firmware.
- Modem Status - the current state of the ADSL connection to your phone company.

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Remote Access: Port Forwarding

This is the preferred method allowing remote access to 'one or more' devices on your network.

Many applications such browsers, email readers, news readers and our own DVR viewer software use specified ports so you must determine the port to be opened by looking in the documentation supplied with the application.

Many default ports have been assigned to these programs or services over the years. Often applications have a configuration option so that you can change the port manually to avoid conflicts as only one application can use a port any one time, ie: they are mutually exclusive.

Application	TCP/IP Port	Service Name
Internet Browser	80	HTTP
All Alien DVRs	8000	Server
Alien Max	554	(RTSP) Real-time Streaming Protocol

Defining a Service for your Viewer Software

DVR Client software is quite a specialist piece of software and as such only sells in low volumes – because of this it hasn't reached industry acceptance levels to justify it having a port or service name allocated to it. That doesn't mean that we can't define it manually for use by our router.

So for example – The Alien DVR viewer software uses port 8000 and we can formulate our name for this service using something meaningful and descriptive – e.g. DVR8000

So,

- Click on **Services**, then **Add Custom Service**
- Define the Service name = DVR8000 as Type = TCP with start & end point 8000
- Now add the new service to the **Firewall Rules**, under Inbound Services, click on **Add**, and enter the DVRs Local IP address in the 'Send to LAN Server' entry.
- Click on **Apply**

See Page 6 for the Alien DVR Ports

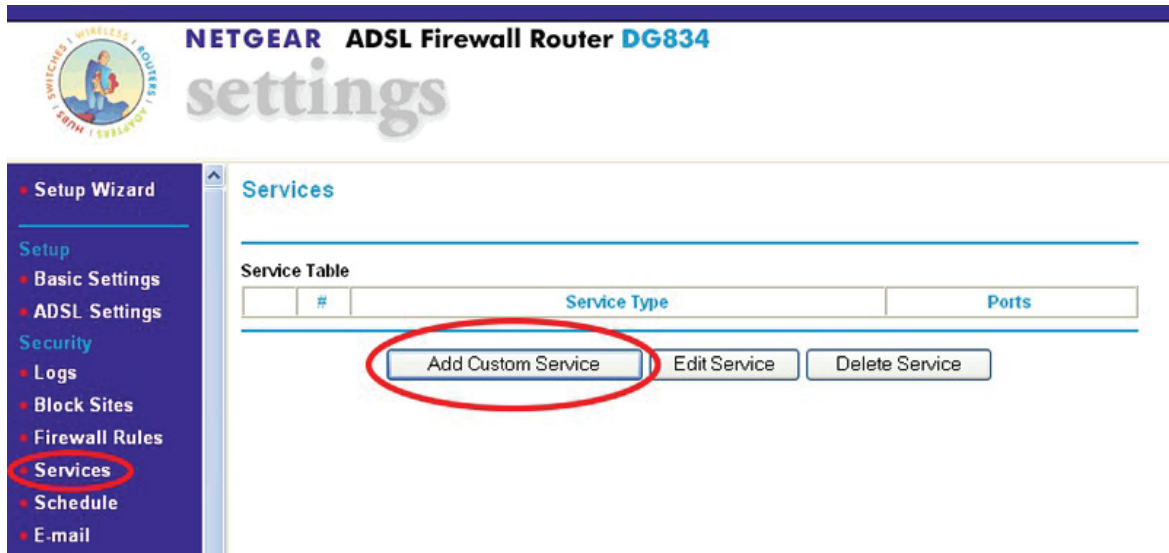
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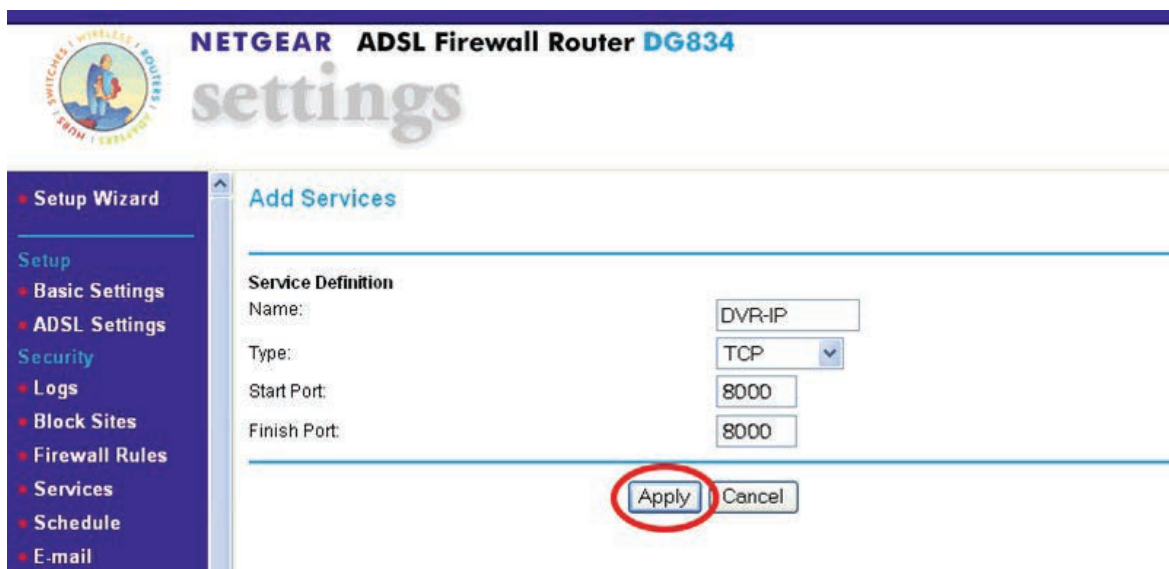
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If allowing access on a port-by-port basis then don't forget to open port **80** (http) as well – this will be needed if browser access is required to the DVR.



Add a service called DVR8000, selecting Type = TCP and Start & Finish point = 8000, then click on Apply

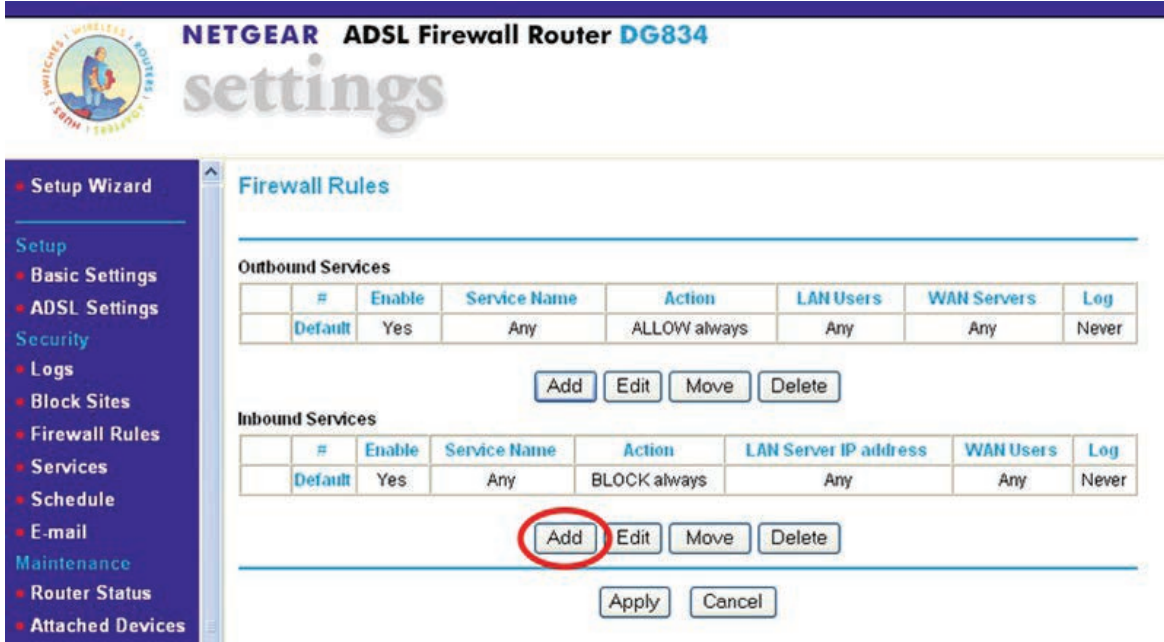


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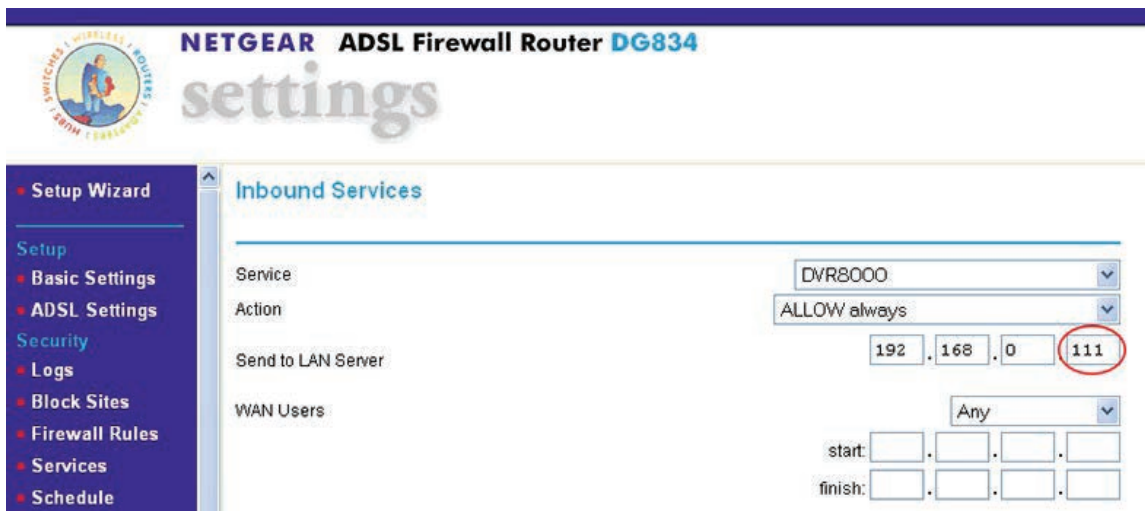
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To add the new service to the Firewall, under the Inbound Services section, click on Add



Select the new service from the drop down, and enter the DVRs IP address in the 'Send to LAN Server' entry.

Note : the diagram below shows '111' as an example – enter *your* DVRs address here.



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Repeat this for port 80 (DVR80) so that you can access the DVR from Internet Explorer, Apply the Changes.
 *if networking an Alien Machine using an RTSP port repeat for port 554 (DVR554)

NETGEAR ADSL Firewall Router DG834

settings

Firewall Rules

Outbound Services

#	Enable	Service Name	Action	LAN Users	WAN Servers	Log
Default	Yes	Any	ALLOW always	Any	Any	Never

Add Edit Move Delete

Inbound Services

#	Enable	Service Name	Action	LAN Server IP address	WAN Users	Log
<input type="radio"/> 1	<input checked="" type="checkbox"/>	DVR80	ALLOW always	192.168.1.111	Any	Always
<input type="radio"/> 2	<input checked="" type="checkbox"/>	DVR8000	ALLOW always	192.168.1.111	Any	Always
<input type="radio"/> 3	<input checked="" type="checkbox"/>	DVR554	ALLOW always	192.168.1.111	Any	Always
Default	Yes	Any	BLOCK always	Any	Any	Never

Add Edit Move Delete

Apply Cancel

Gaining Access from the Internet

When your router connects to the internet, it is assigned an IP address by the service provider. It is this 'external' address that remote user enters into the viewer software supplied with the DVR or, in many cases Internet Explorer if it's supported.

The internal addresses that you have on your local area network are hidden from the remote user by the firewall built into the router and the network addresses are translated, hence NAT: Network Address Translation.

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