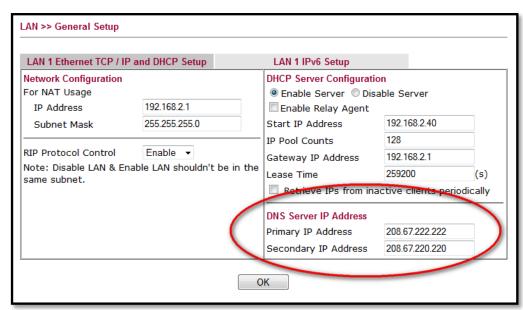
Configuring OpenDNS on a Draytek 2830

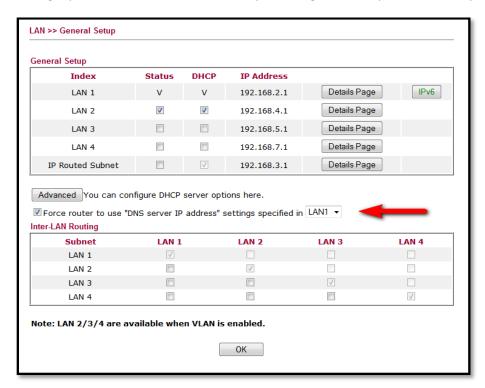
In The LAN, General Setup, click on the [Details Page] for your LAN and set the Primary and Secondary DNS server addresses to the OpenDNS servers as shown below.

- Primary IP address = 208.67.222.222
- Secondary IP address = 208.67.220.220





If you have more than one internal LAN then check the box marked "Force router to use "DNS server IP address" settings specified in" and select the LAN you configured for OpenDNS (usually LAN1).



Setting up DNS to only go to OpenDNS (block all others)

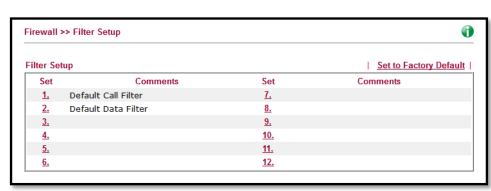
The problem is that if you manually type in DNS settings in your computer network settings it will bypass the Open DNS settings. So what we need to do now is to help your router not to allow any other DNS settings through. To do this go to the firewall settings on your router (not your computer) and block all outgoing TCP and UDP requests on port 53 that are not going to Open DNS.

Add three rules.

- allow DNS lookups that are going to open DNS 208.67.222.222
- allow DNS lookups that are going to open DNS 208.67.220.220
- block any other DNS lookups.

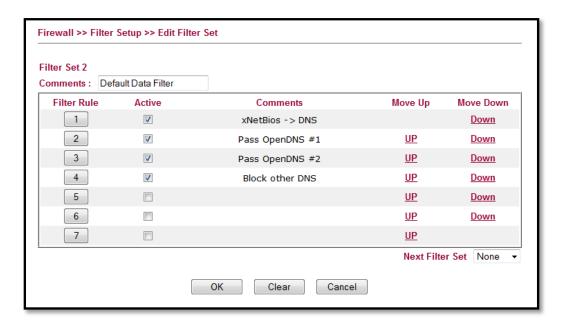
Here's where the rules are added:





On the Draytek modem the firewall settings are set up under default data filter

Here are the three rules to add:



In a default configuration; Rule 1 already exists, so we add rules 2, 3 & 4.

Adding Rule 2

Firewall >> Edit Filter Set >> Edit Filter Rule	
Filter Set 2 Rule 2	
Check to enable the Filter Rule	
Comments:	Pass OpenDNS #1
Index(1-15) in Schedule Setup:	
Clear sessions when schedule ON:	☐ Enable
Direction:	LAN/RT/VPN -> WAN ▼
Source IP:	Any
Destination IP:	208.67.222.222 Edit
Service Type:	TCP/UDP, Port from 53~65535 to 53
Fragments:	Don't Care ▼
Application	Action/Profile Syslog
Filter:	Pass Immediately
Branch to Other Filter Set:	None 🔻
Sessions Control	0 / 60000
MAC Bind IP	Non-Strict ▼
Quality of Service	None ▼
Load-Balance policy	Auto-Select ▼
User Management	None ▼
APP Enforcement:	None •
URL Content Filter:	None •
Web Content Filter:	None □
Advance Setting	Edit
OK Clear Cancel	
Service Type Edit	
Service Type User defin	ned •
Protocol TCP/UDP	
Source Port = ▼ 53	3 ~ 65535
Destination Port = ▼ 53	> 53
Service Group None -	
or Service Object None -	
or Service Object None v	
or Service Object None -	
OK Close	

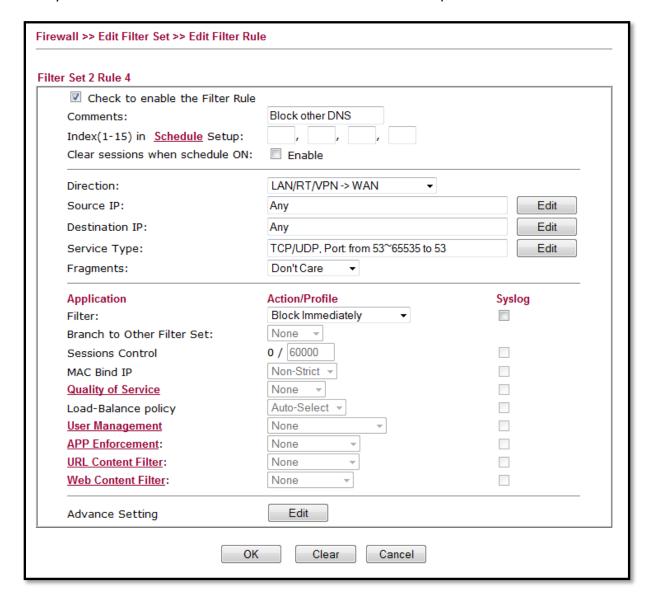
Rule 2 allows any traffic going to the first Open DNS server.

Adding Rule 3

Rule 3 was the same as rule except we use the second DNS number. 208.67.220.220 and we call it "Pass OpenDNS #2"

Adding Rule 4

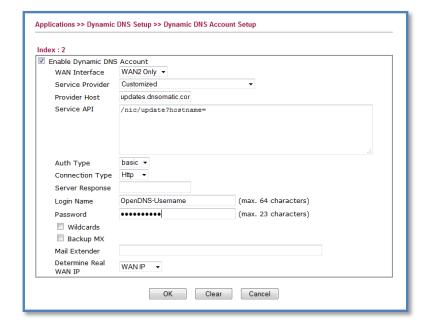
Finally Rule 4 comes after Rule 2 & 3 and blocks all other DNS requests.



Setting Dynamic DNS updates for OpenDNS



Set for the appropriate WAN interface (WAN2 = Fibre)



WAN interface = WAN2 only
Service Provider = Customised
Provider host = updates.dnsomatic.com
Service API = /nic/update?hostname=
Auth Type = basic
Connection type = http
Server response = <empty>
Login Name = OpenDNS Username
Password = OpenDNS Password
Wildcards = <unchecked>
Backup MX = <unchecked>
Mail Extender <empty>
Determine Real WAN IP = WAN IP