DSL-500/DSL-504 Advanced Filtering & Firewall Setup Example
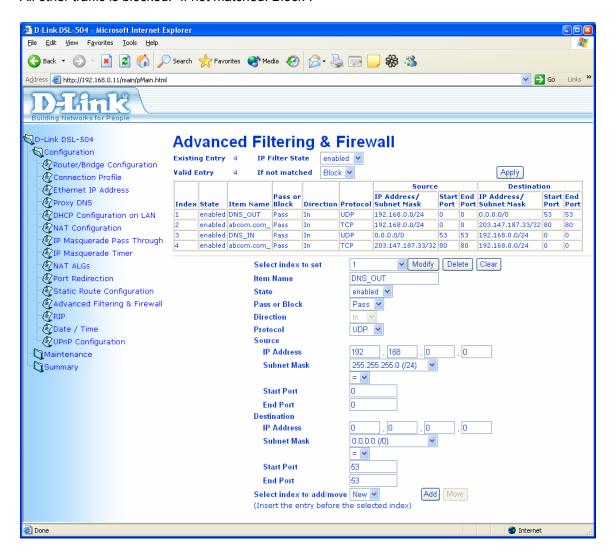## Firmware ver. 2.21 and above

Please note that the router with its default configuration blocks any unauthorised access to your network. In most cases no additional filter settings are required.

If you wish to limit access to certain sites or only allow users to visit some sites you will need to setup filters.

In the below example filters are set up to allow access to certain WEB site (www.abcom.com.au).

Filters DNS_IN and DNS_OUT allow DNS (name resolution) requests to go through.
Filters abcom.com_IN and abcom_OUT allow http traffic to go to and from this WEB site (203.147.187.33).

All other traffic is blocked: "If not matched: Block".

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D-Link DSL-504
Configuration
  Router/Bridge Configuration
  Connection Profile
  Ethernet IP Address
  Proxy DNS
  DHCP Configuration on LAN
  NAT Configuration
  IP Masquerade Pass Through
  IP Masquerade Timer
  NAT ALGs
  Port Redirection
  Static Route Configuration
  Advanced Filtering & Firewall
  RIP
  Date / Time
  UPnP Configuration
Maintenance
Summary

Advanced Filtering & Firewall

Existing Entry   4   IP Filter State   enabled ▾

Valid Entry   4   If not matched   Block ▾   Apply

Index	State	Item Name	Pass or Block	Direction	Protocol	Source IP Address/ Subnet Mask	Start Port	End Port	Destination IP Address/ Subnet Mask	Start Port	End Port
1	enabled	DNS_OUT	Pass	In	UDP	192.168.0.0/24	0	0	0.0.0.0/0	53	53
2	enabled	abcom.com_	Pass	In	TCP	192.168.0.0/24	0	0	203.147.187.33/32	80	80
3	enabled	DNS_IN	Pass	In	UDP	0.0.0.0/0	53	53	192.168.0.0/24	0	0
4	enabled	abcom.com_	Pass	In	TCP	203.147.187.33/32	80	80	192.168.0.0/24	0	0

Select index to set   2 ▾   Modify   Delete   Clear

Item Name   abcom.com_OUT

State   enabled ▾

Pass or Block   Pass ▾

Direction   In ▾

Protocol   TCP ▾

Source

  IP Address   192 . 168 . 0 . 0

  Subnet Mask   255.255.255.0 (/24) ▾
  = ▾

  Start Port   0

  End Port   0

Destination

  IP Address   203 . 147 . 187 . 33

  Subnet Mask   255.255.255.255 (/32) ▾
  = ▾

  Start Port   80

  End Port   80

Select index to add/move   New ▾   Add   Move
(Insert the entry before the selected index)

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Advanced Filtering & Firewall

| Existing Entry | 4 | IP Filter State | enabled ▾ |
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Index	State	Item Name	Pass or Block	Direction	Protocol	Source IP Address/ Subnet Mask	Source Start Port	Source End Port	Destination IP Address/ Subnet Mask	Destination Start Port	Destination End Port
1	enabled	DNS_OUT	Pass	In	UDP	192.168.0.0/24	0	0	0.0.0.0/0	53	53
2	enabled	abcom.com_	Pass	In	TCP	192.168.0.0/24	0	0	203.147.187.33/32	80	80
3	enabled	DNS_IN	Pass	In	UDP	0.0.0.0/0	53	53	192.168.0.0/24	0	0
4	enabled	abcom.com_	Pass	In	TCP	203.147.187.33/32	80	80	192.168.0.0/24	0	0

Select index to set	3 ▾	Modify	Delete	Clear
Item Name	DNS_IN
State	enabled ▾
Pass or Block	Pass ▾
Direction	In ▾
Protocol	UDP ▾

Source

IP Address	0 . 0 . 0 . 0
Subnet Mask	0.0.0.0 (/0) ▾
	= ▾
Start Port	53
End Port	53

Destination

IP Address	192 . 168 . 0 . 0
Subnet Mask	255.255.255.0 (/24) ▾
	= ▾
Start Port	0
End Port	0

Select index to add/move   New ▾   Add   Move
(Insert the entry before the selected index)

Done   Internet

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🔲 D-Link DSL-504
🔲 Configuration
  📄 Router/Bridge Configuration
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Advanced Filtering & Firewall

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Apply

Index	State	Item Name	Pass or Block	Direction	Protocol	Source IP Address/ Subnet Mask	Source Start Port	Source End Port	Destination IP Address/ Subnet Mask	Destination Start Port	Destination End Port
1	enabled	DNS_OUT	Pass	In	UDP	192.168.0.0/24	0	0	0.0.0.0/0	53	53
2	enabled	abcom.com_	Pass	In	TCP	192.168.0.0/24	0	0	203.147.187.33/32	80	80
3	enabled	DNS_IN	Pass	In	UDP	0.0.0.0/0	53	53	192.168.0.0/24	0	0
4	enabled	abcom.com_	Pass	In	TCP	203.147.187.33/32	80	80	192.168.0.0/24	0	0

Select index to set   [4 ▾] Modify   Delete   Clear

Item Name   abcom.com_IN

State   enabled ▾

Pass or Block   Pass ▾

Direction   In ▾

Protocol   TCP ▾

Source

  IP Address   203 . 147 . 187 . 33

  Subnet Mask   255.255.255.255 (/32) ▾
                 = ▾

  Start Port   80

  End Port   80

Destination

  IP Address   192 . 168 . 0 . 0

  Subnet Mask   255.255.255.0 (/24) ▾
                 = ▾

  Start Port   0

  End Port   0

Select index to add/move New ▾   Add   Move
(Insert the entry before the selected index)

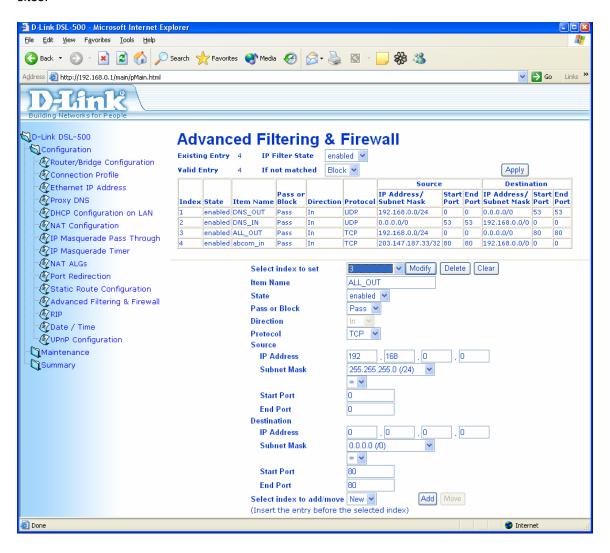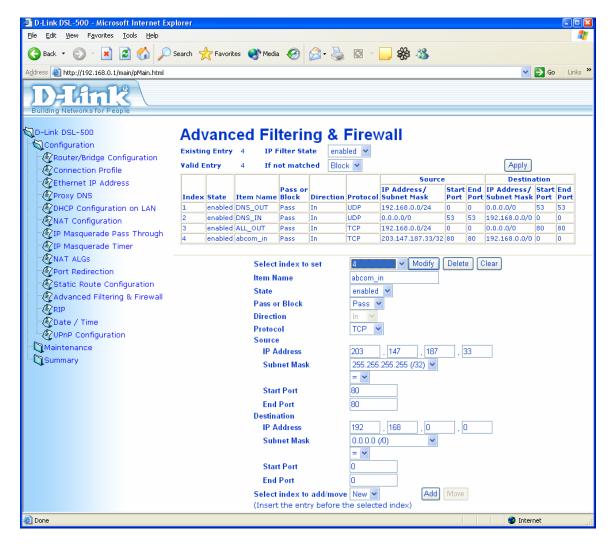🔲 Done   🌐 Internet

Alternative example.

This example gives you a shorter version of filter setup. Instead of specifying two separate rules for each WEB site (one "IN" and one "OUT"), you can create one "unversal" rule which will allow all HTTP traffic out ("ALL_OUT"). The "IN" rules will still only allow traffic from specified WEB sites.

Screenshot content:

D-Link DSL-500 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://192.168.0.1/main/pMain.html

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Advanced Filtering & Firewall

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Valid Entry 4   If not matched   Block   Apply

Index	State	Item Name	Pass or Block	Direction	Protocol	Source IP Address/ Subnet Mask	Start Port	End Port	Destination IP Address/ Subnet Mask	Start Port	End Port
1	enabled	DNS_OUT	Pass	In	UDP	192.168.0.0/24	0	0	0.0.0.0/0	53	53
2	enabled	DNS_IN	Pass	In	UDP	0.0.0.0/0	53	53	192.168.0.0/0	0	0
3	enabled	ALL_OUT	Pass	In	TCP	192.168.0.0/24	0	0	0.0.0.0/0	80	80
4	enabled	abcom_in	Pass	In	TCP	203.147.187.33/32	80	80	192.168.0.0/0	0	0

Select index to set   3   Modify   Delete   Clear

Item Name   ALL_OUT
State   enabled
Pass or Block   Pass
Direction   In
Protocol   TCP
Source
  IP Address   192 . 168 . 0 . 0
  Subnet Mask   255.255.255.0 (/24)
                   =
  Start Port   0
  End Port   0
Destination
  IP Address   0 . 0 . 0 . 0
  Subnet Mask   0.0.0.0 (/0)
                   =
  Start Port   80
  End Port   80
Select index to add/move New   Add   Move
(Insert the entry before the selected index)

Done   Internet

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