

D-Link (Europe) Ltd.

D-Link House 6 Garland Road Stanmore London HA7 1DP U.K.

Tel: +44-208-235555 Fax: +44-208-2355500

Setting Up NetBIOS Filter for DI-206 / DI-308 Router

Introduction

In a local area network you may have protocols configured which may adversely effect the performance of a router such as the DI-206. These protocols are non routable, when they arrive at the router, they may cause the router to a dial a remote network or the internet, if its configured, unnecessarily increasing line usage resulting in wasteful phone calls. By adding a series of simple filters, the router will ignore the non routable protocols such as NetBIOS/NetBEUI, and only dial when a remote connection is required.

Filters Required

Ports

- 137 TCP & UDP NetBIOS Name Service
- 138 TCP & UDP NetBIOS Datagram Service
- 139 TCP & UDP NetBIOS Session Service

The above ports should be filtered out. See the filter setting below to add filters in the router to stop the router dialling out.

- Main Menu - Advanced Functions - Filter Configuration - IP Filter -



Select number 1.

Web Site: www.dlink.co.uk FTP: ftp.dlink.co.uk

TCP Filter settings

```
Name [TCP137
Direction <In >
                                    1
                <Drop</pre>
State
Interface <LAN
                               [6 ]
[0.0.0.0
Protocol Type
Src IP
Src Netmask
                                                        ]
                               [0.0.0.0
[0
Src Port
                                            1
Src Port Operation (None)
Dst IP
Dst Netmask
Dst Port
Dst Netmask [0.0.0.0 |
Dst Port [137
Dst Port Operation <EQ >
ICMP Type
ICMP Code
TCP Flag
                                                                                 SAVE
                                                                                                EXIT
```

The name is just an appropriate name for this filter. The protocol type is 6 indicating a TCP packet. Set the other settings as shown and save the configuration.

Repeat this for the other ports 138 and 139.

UDP Filter Settings

```
[TCP137
                           1
Direction
           <In >
State
           <Drop
Interface <LAN
                      [17 ]
[0.0.0.0
Protocol Type
Src IP
Src Netmask
                      [0.0.0.0
                      [0]
Src Port
Src Port Operation
                      <None>
Dst IP
                      [0.0.0.0
                      [0.0.0.0
Dst Netmask
Dst Port
                      137
                                ]
Dst Port Operation (EQ >
ICMP Type
ICMP Code
                      [1 ]
[0_ ]
TCP Flag
                                                            SAVE
                                                                      EXIT
```

The name is just an appropriate name for this filter. The protocol type is now 17 indicating a UDP User datagram. Set the other settings as shown and save the configuration.

Repeat this for the other ports 138 and 139.

```
[src137tcp
Name
                         1
Direction (In >
State
           <Drop
Interface <LAN
                     [6 ]
[0.0.0.0
Protocol Type
Src IP
                                       ]
Src Netmask
                     [0.0.0.0
Src Port
                     [137
                               1
Src Port Operation <EQ >
Dst IP
                     [0.0.0.0
                                       ]
Dst Netmask
                     [0.0.0.0
Dst Port
                     [0]
                               ]
Dst Port Operation (None)
                   [1 ]
[0 ]
0x[0]
ICMP Type
ICMP Code
TCP Flag
```

Name	src137ud	1p]		
Direction	<in></in>	-		
State	(Drop)	>		
Interface		>		
Protocol	Туре	[17]		
Src IP	5.16	[0.0.0.0		1
Src Netma:	sk	[0.0.0.0		Ĩ
Src Port		[137	1	_
Src Port	Operation	₹EQ >	-	
Dst IP		[0.0.0.0		1
Dst Netma:	sk	[0.0.0.0		ĵ
Dst Port		ΓØ	Ĩ	- 5
Dst Port	Operation	<none></none>	2	
ICMP Type		[1]		
ICMP Code		[0]		
TCP Flag	(f)	([0])		

IP Filters

TCP137 1. 2. TCP138 3. TCP139 4. UDP137 5. UDP138 6. **UDP139** src137udp 7. src137tcp 8.

The router will need powering down for filters to take effect.

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Filter State of Interface

	Layer 2 Filter	IP Filter
LAN	<disable></disable>	(Forward)