

Setting up NetBIOS filters for DI-106 & DI-300 routers.

Introduction

There may be instances when you notice your router is dialling out when there is no apparent traffic on the WAN. This is because there can be protocols running that are not routable. The following filter sets can be configured to prevent the NetBIOS/NetBEUI utilising the ISDN channels.

Configuration

The following filter setup will remove traffic from these ports. Please configure the two filter sets that have 6 and 2 rules respectively based on the following packets in Service Management Terminal (SMT) Menu 21.

Filter Set 1:

- Rule 1-Destination port number 137 with protocol number 6 (TCP)
- Rule 2-Destination port number 137 with protocol number 17 (UDP)
- Rule 3-Destination port number 138 with protocol number 6 (TCP)
- Rule 4-Destination port number 138 with protocol number 17 (UDP)
- Rule 5-Destination port number 139 with protocol number 6 (TCP)
- Rule 6-Destination port number 139 with protocol number 17 (UDP)

Filter Set 2:

- Rule 1-Source port number 137, Destination port number 53 with protocol number 6 (TCP)
- Rule 2-Source port number 137, Destination port number 53 with protocol number 17 (UDP)

Before starting to set the filter rules, please enter a name for each filter set in the 'Comments' field first. Configure the first filter set 'NetBIOS#1' by selecting the Filter Set number 1.

Menu 21 - Filter Set Configuration

Filter Set #	Comments	Filter Set #	Comments
1	NetBIOS#1	7	_____
2	NetBIOS#2	8	_____
3	_____	9	_____
4	_____	10	_____
5	_____	11	_____
6	_____	12	_____

Enter Filter Set Number to Configure=

Edit Comments=

Press ENTER to Confirm or ESC to Cancel:

Rule 1-Destination port number 137 with protocol number 6 (TCP)

```
Menu 21.1.1 - TCP/IP Filter Rule

Filter #: 1,1
Filter Type= TCP/IP Filter Rule
Active= Yes
IP Protocol= 6      IP Source Route= No
Destination: IP Addr= 0.0.0.0
              IP Mask= 0.0.0.0
              Port # = 137
              Port # Comp= Equal
Source: IP Addr= 0.0.0.0
         IP Mask= 0.0.0.0
         Port # = 0
         Port # Comp= None

TCP Estab= No
More= No      Log= None
Action Matched= Drop
Action Not Matched= Check Next Rule

Press ENTER to Confirm or ESC to Cancel:
```

Repeat "IP Protocol" and "Port # = " for all the other filters.

Rule 2-Destination port number 137 with protocol number 17 (UDP)

```
Menu 21.1.2 - TCP/IP Filter Rule

Filter #: 1,2
Filter Type= TCP/IP Filter Rule
Active= Yes
IP Protocol= 17     IP Source Route= No
Destination: IP Addr= 0.0.0.0
              IP Mask= 0.0.0.0
              Port # = 137
              Port # Comp= Equal
Source: IP Addr= 0.0.0.0
        IP Mask= 0.0.0.0
        Port # = 0
        Port # Comp= None

TCP Estab= N/A
More= No      Log= None
Action Matched= Drop
Action Not Matched= Check Next Rule

Press ENTER to Confirm or ESC to Cancel: █
```

Rule 3-Destination port number 138 with protocol number 6 (TCP)

Rule 4-Destination port number 138 with protocol number 17 (UDP)

Rule 5-Destination port number 139 with protocol number 6 (TCP)

Rule 6-Destination port number 139 with protocol number 17 (UDP)

Note for rule 6 Action not matched is "Forward"

After the first filter set is finished, you will get the complete rules summary as below.

Menu 21.1 - Filter Rules Summary

1 Y IP Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=137 N D N

2 Y IP Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=137 N D N
3 Y IP Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=138 N D N
4 Y IP Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=138 N D N
5 Y IP Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=139 N D N
6 Y IP Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=139 N D F

Please apply this first filter set 'NetBIOS#1' in the Menu 11 for the remote node in the 'Call Filter Sets=' field to take active.

```
Menu 11.1 - Remote Node Profile

Rem Node Name= TEST          Route= IP
Active= Yes                 Bridge= No
Call Direction= Outgoing

Incoming:                   Edit PPP Options= No
  Rem Login=                Rem IP Addr= 0.0.0.0
  Rem Password= *****    Edit IP/IPX/Bridge= No
  Rem CLID= N/A            Telco Option:
  Call Back= N/A          Transfer Type= 64K
                          Allocated Budget(min)= 0
                          Period(hr)= 0
Outgoing:                   Session Options:
  My Login= dlink1         Input Filter Sets=
  My Password= *****    Output Filter Sets=
  Authen= CHAP/PAP        Call Filter Sets= 1
  Pri Phone #= 08453501234 Idle Timeout(sec)= 300
  Sec Phone #=

Press ENTER to Confirm or ESC to Cancel: █
```

Press ENTER to Confirm or ESC to Cancel:

**Configure the second filter set 'NetBIOS#2' by selecting the Filter Set number 2.
Rule 1-Source port number 137, Destination port number 53 with protocol number 6 (TCP)**

```
Menu 21.2.1 - TCP/IP Filter Rule

Filter #: 2,1
Filter Type= TCP/IP Filter Rule
Active= Yes
IP Protocol= 6      IP Source Route= No
Destination: IP Addr= 0.0.0.0
              IP Mask= 0.0.0.0
              Port #= 53
              Port # Comp= Equal
Source: IP Addr= 0.0.0.0
        IP Mask= 0.0.0.0
        Port #= 137
        Port # Comp= Equal

TCP Estab= No
More= No      Log= None
Action Matched= Drop
Action Not Matched= Check Next Rule

Press ENTER to Confirm or ESC to Cancel: █
```

Rule 2-Source port number 137, Destination port number 53 with protocol number 17 (UDP)

```
Menu 21.2.2 - TCP/IP Filter Rule

Filter #: 2,2
Filter Type= TCP/IP Filter Rule
Active= Yes
IP Protocol= 17      IP Source Route= No
Destination: IP Addr= 0.0.0.0
              IP Mask= 0.0.0.0
              Port #= 53
              Port # Comp= Equal
Source: IP Addr= 0.0.0.0
        IP Mask= 0.0.0.0
        Port #= 137
        Port # Comp= Equal

TCP Estab= N/A
More= No      Log= None
Action Matched= Drop
Action Not Matched= Forward

Press ENTER to Confirm or ESC to Cancel: █
```

Menu 21.2 - Filter Rules Summary

1 Y IP Pr=6, SA=0.0.0.0, SP=137, DA=0.0.0.0, DP=53 N D N
2 Y IP Pr=17, SA=0.0.0.0, SP=137, DA=0.0.0.0, DP=53 N D F

After the first filter set is finished, you will get the complete rules summary as below.
Please apply this second filter set 'NetBIOS#2' in the Menu 3.1 (General Ethernet Setup) in 'Input Filter Sets =' field for blocking the packets from LAN interface.

Menu 3.1 – General Ethernet Setup

```
Menu 3.1 - General Ethernet Setup

Input Filter Sets= 2
Output Filter Sets=

Press ENTER to Confirm or ESC to Cancel: █
```