

## Setting Up NetBIOS Filter for DI-206 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 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 -

```
IP Filter
*****
1.  [ ]
2.  [ ]
3.  [ ]
4.  [ ]
5.  [ ]
6.  [ ]
7.  [ ]
8.  [ ]
9.  [ ]
10. [ ]
11. [ ]
12. [ ]
```

Select number 1.

## TCP Filter settings

```
Name      [TCP137      ]
Direction <In >
State     <Drop >
Interface <LAN >

Protocol Type [6 ]
Src IP      [0.0.0.0   ]
Src Netmask [0.0.0.0   ]
Src Port    [0 ]
Src Port Operation <None>

Dst IP      [0.0.0.0   ]
Dst Netmask [0.0.0.0   ]
Dst Port    [137 ]
Dst Port Operation <EQ >

ICMP Type   [1 ]
ICMP Code   [0 ]
TCP Flag    0x[0]
```

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

```
Name      [TCP137      ]
Direction <In >
State     <Drop >
Interface <LAN >

Protocol Type [17 ]
Src IP      [0.0.0.0   ]
Src Netmask [0.0.0.0   ]
Src Port    [0 ]
Src Port Operation <None>

Dst IP      [0.0.0.0   ]
Dst Netmask [0.0.0.0   ]
Dst Port    [137 ]
Dst Port Operation <EQ >

ICMP Type   [1 ]
ICMP Code   [0 ]
TCP Flag    0x[0]
```

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.

```

Name      [src137tcp  ]
Direction <In >
State    <Drop  >
Interface <LAN  >

Protocol Type      [6  ]
Src IP             [0.0.0.0  ]
Src Netmask       [0.0.0.0  ]
Src Port          [137  ]
Src Port Operation <EQ >

Dst IP            [0.0.0.0  ]
Dst Netmask      [0.0.0.0  ]
Dst Port         [0  ]
Dst Port Operation <None>

ICMP Type        [1  ]
ICMP Code        [0  ]
TCP Flag         0x[0  ]

```

```

Name      [src137udp ]
Direction <In >
State    <Drop  >
Interface <LAN  >

Protocol Type      [17 ]
Src IP             [0.0.0.0  ]
Src Netmask       [0.0.0.0  ]
Src Port          [137  ]
Src Port Operation <EQ >

Dst IP            [0.0.0.0  ]
Dst Netmask      [0.0.0.0  ]
Dst Port         [0  ]
Dst Port Operation <None>

ICMP Type        [1  ]
ICMP Code        [0  ]
TCP Flag         0x[0  ]

```

#### IP Filters

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

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

## Filter State of Interface

	<u>Layer 2 Filter</u>	<u>IP Filter</u>
LAN	<Disable>	<Forward>