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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 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 -

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

Select number 1.

TCP Filter settings

```
[TCP137
<In >
Name
Direction
State (Droj
Interface (LAN
             <Drop
Protocol Type
Src IP
Src Hetmask
Src Port Operation
                         [0.0.0.0
[0.0.0.0
[137
Dst IP
Dst Netmask
Dst Port
Dst Port Operation
                        ₹EQ >
ICHP Type
ICHP Code
TCP Flag
                                                                  SAUE
                                                                             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
<In >
Name
                            1
Direction
State
            < Drop
Interface <LAN
Protocol Type
                       [17 ]
[0.0.0.0
Src IP
Src Netmask
                       [0.0.0.0
[0
Src Port
Src Port Operation
                       <Hone>
Dst Hetmask
                       [0.0.0.0
Dst Port
                       [137
Dst Port Operation
                       ₹EQ >
ICMP Type
ICMP Code
TCP Flag
                                                             SAUE
                                                                        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 [src | 137udp | |
|---|--------------|-----|
| Direction (In | | |
| State <dro< td=""><td>p ></td><td></td></dro<> | p > | |
| Interface <lan< td=""><td>· ></td><td></td></lan<> | · > | |
| Protocol Type | [17] | |
| Src IP | [0.0.0.0 | 1 |
| Src Netmask | [0.0.0.0 | Ĩ |
| Src Port | [137] | - |
| Src Port Opera | | |
| Dst IP | [0.0.0.0 | 1 |
| Dst Netmask | [0.0.0.0 | î |
| Dst Port | ř 0 î | - 5 |
| Dst Port Opera | tion (None) | |
| ICMP Type | [1] | |
| ICMP Code | [1]
[0] | |
| TCP Flag | 0x[0]x0 | |

IP Filters

TCP137 1. 2. TCP138 TCP139 3. 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

| | Layer 2 Filter | IP Filter |
|-----|----------------|-----------|
| | | |
| LAN | (Disable) | (Forward) |