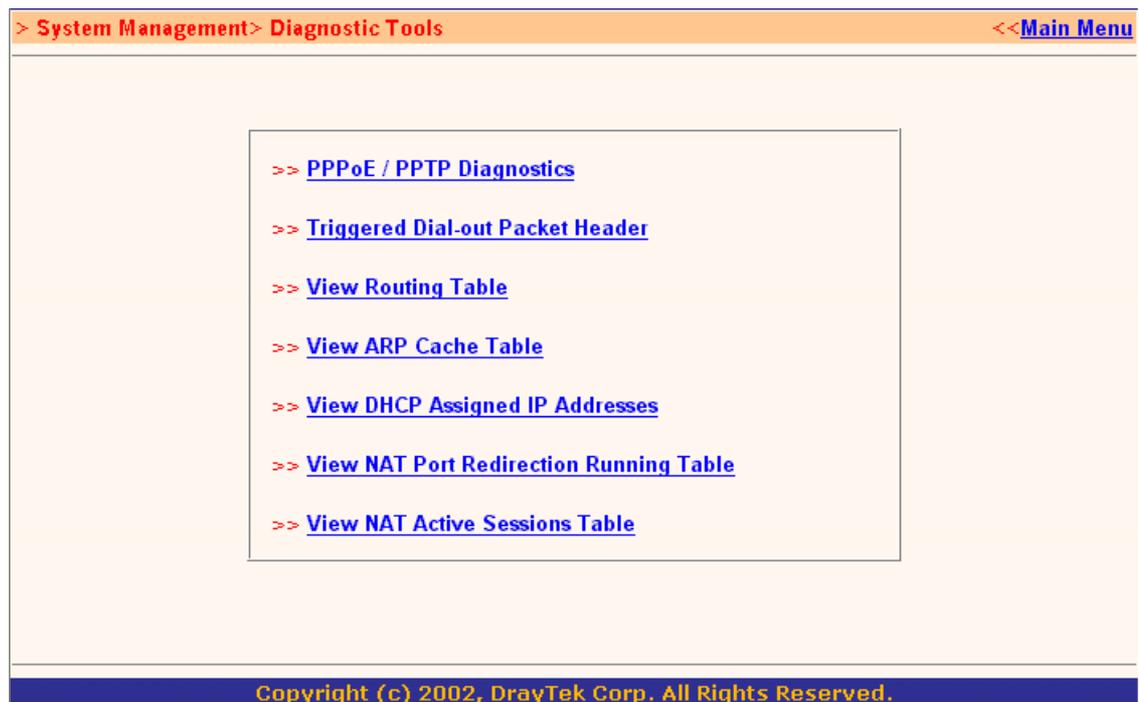# Diagnostic Tools

Introduction

Diagnostic Tools provide useful tools for viewing or diagnosing the router. Click **Diagnostic Tools** to enter the following page. Following sections will explain details for each tool.

Configuration

- PPPoE / PPTP Diagnostics

Click here to open the following page. The page shown here is for reference only; individual networks will show different results.
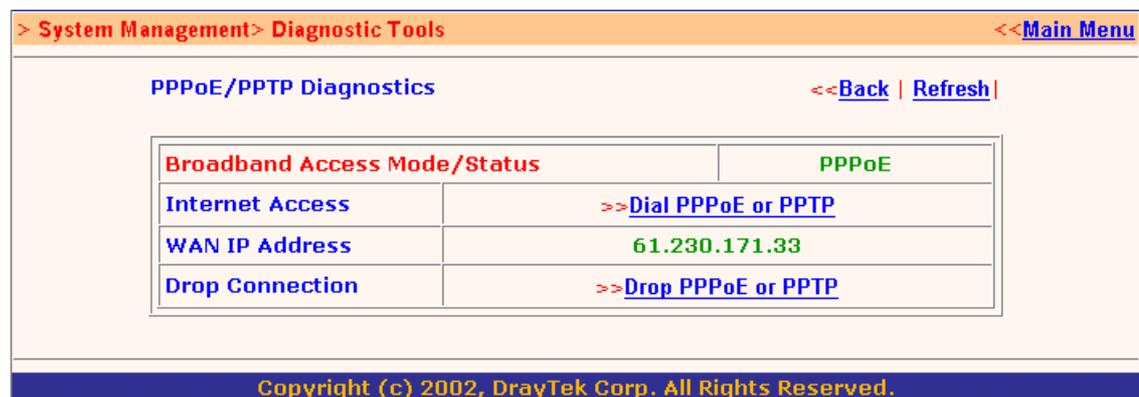
Refresh: To obtain the latest information, click here to reload the page.

Broadband Access Mode/Status: Display the broadband access mode and status. If

the broadband connection is active, it will show **PPPoE**, **PPTP**, **Static IP,** or **DHCP Client** depending on which access mode is enabled. If the connection is idle, it will show "**---**".

WAN IP Address: The WAN IP address for the active connection.

Dial PPPoE or PPTP: Click to force the router to establish a PPPoE or PPTP connection.

Drop PPPoE or PPTP: Click to force the router to disconnect the current active PPPoE or PPTP connection.

- Triggered Dial-out Packet Header

Triggered Dial-out Packet Header shows the last IP packet header that triggered the router to dial out.
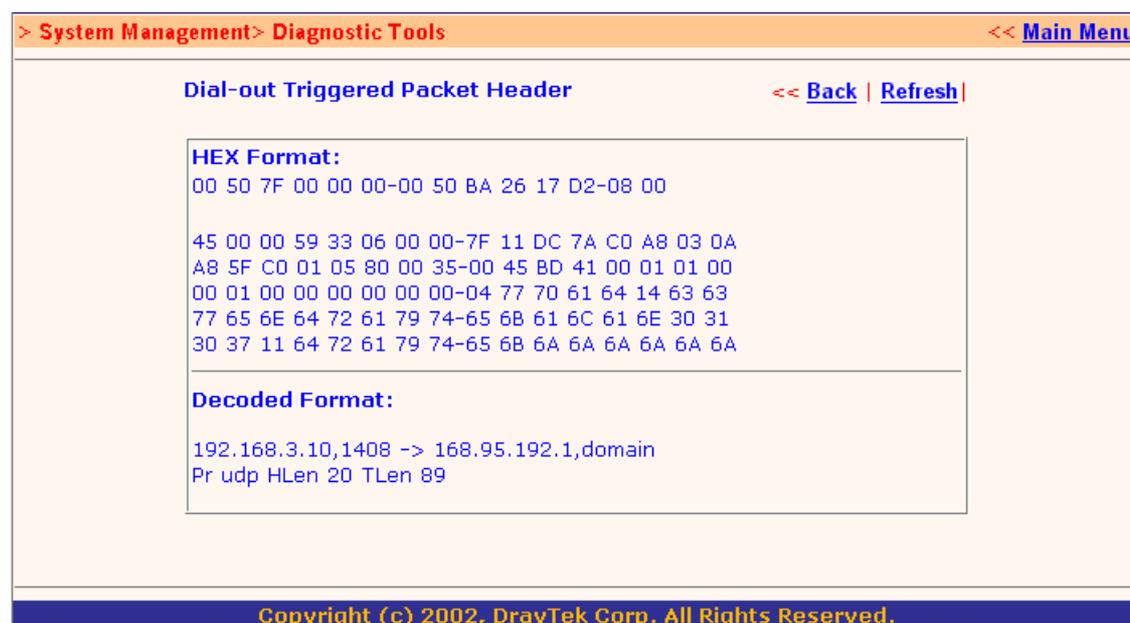
Refresh: Click to reload the page.

- View Routing Table

Click **View Routing Table** to view the router's routing table.

The table provides current IP routing information held in the router. To the left of each routing rule you will see a key. These keys are defined as:

        C --- Directly connected.
        S --- Static route.
        R --- RIP.
        * --- Default route.
        ~ --- Routes for private routing domain.

To the right of each routing rule you will see an interface identifier:

        IF0 --- Local LAN interface.
        IF3 --- WAN interface.

Refresh: Click to reload the page.

- View ARP Cache Table

Click **View ARP Cache Table** to view the ARP (Address Resolution Protocol) cache held in the router. The table shows a mapping between an Ethernet hardware address (MAC Address) and an IP address.

Refresh: Click to reload the page.

- View DHCP Assigned IP Addresses

View DHCP Assigned IP Addresses provides information on IP address assignments. This information is helpful in diagnosing network problems, such as IP address conflicts, etc.
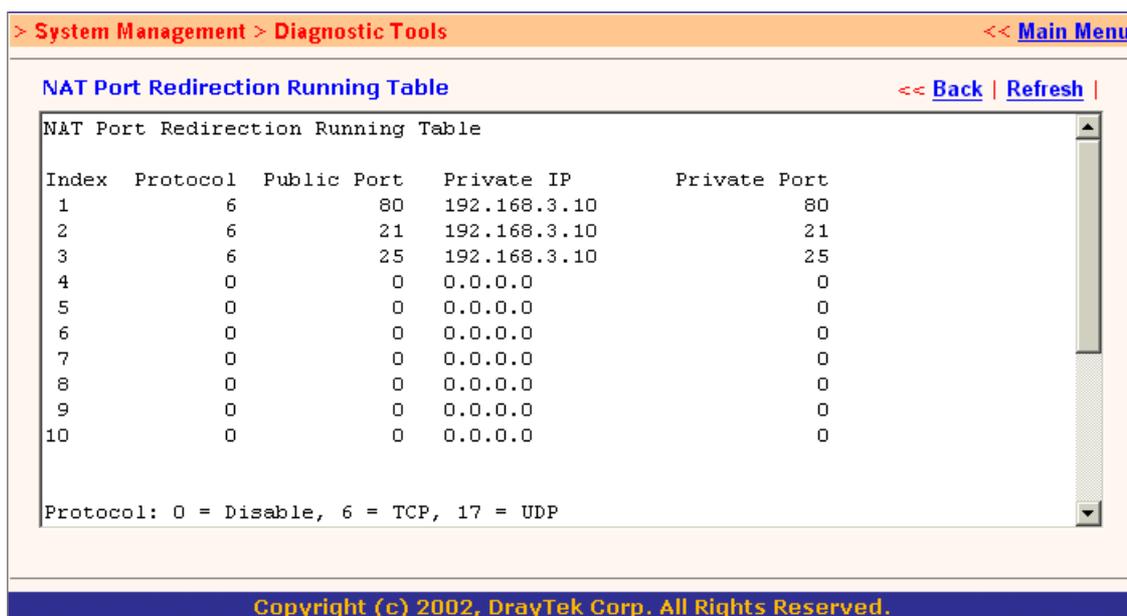
- View NAT Port Redirection Running Table

If you have configured **Port Redirection** (under **NAT Setup**), click to verify that your settings are correct for redirecting specific port numbers to specified internal users.

- View NAT Active Sessions Table

As the router accesses the Internet through the built-in NAT engine, click **View NAT Active Sessions Table** to see which active outgoing sessions are online.
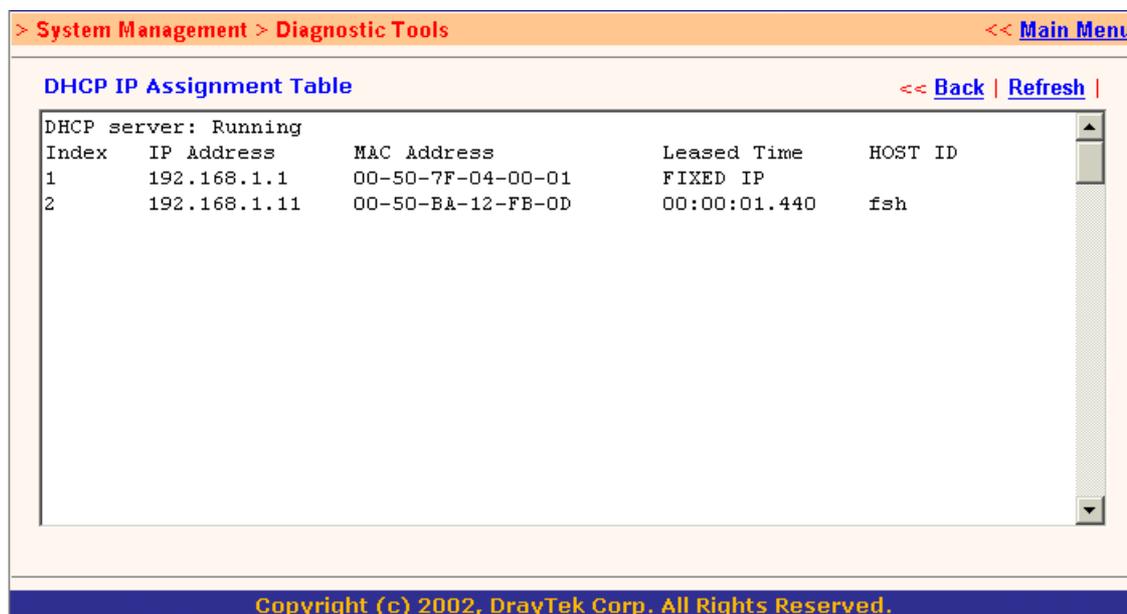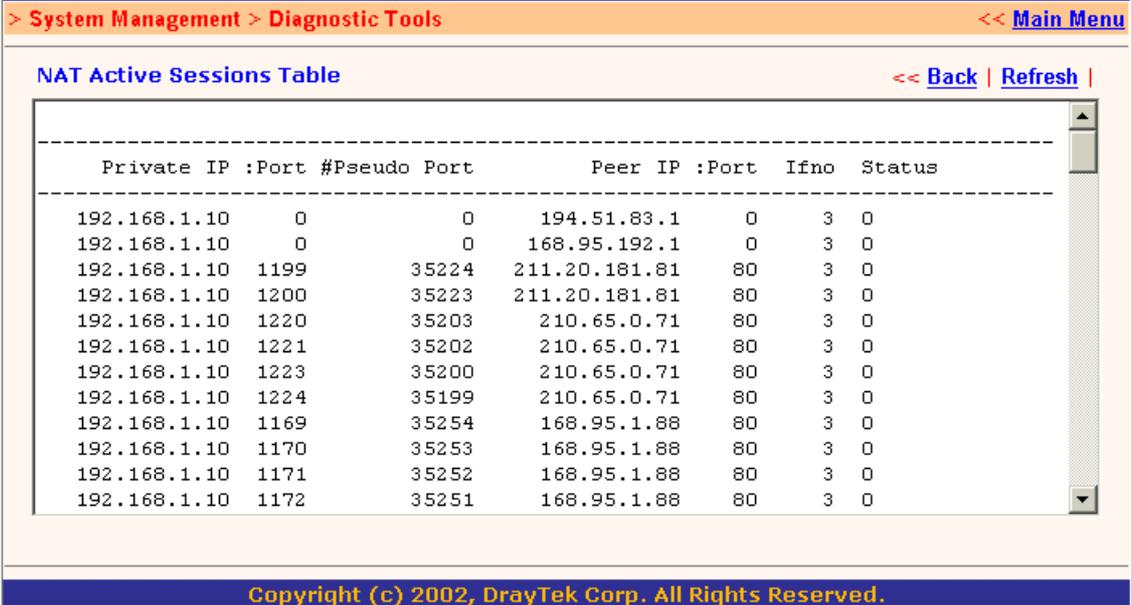
```
> System Management > Diagnostic Tools                              << Main Menu

NAT Active Sessions Table                                      << Back | Refresh |

---------------------------------------------------------------------------------
    Private IP :Port #Pseudo Port          Peer IP :Port  Ifno  Status
---------------------------------------------------------------------------------
    192.168.1.10      0              0     194.51.83.1      0     3    0
    192.168.1.10      0              0     168.95.192.1     0     3    0
    192.168.1.10   1199          35224     211.20.181.81   80     3    0
    192.168.1.10   1200          35223     211.20.181.81   80     3    0
    192.168.1.10   1220          35203     210.65.0.71     80     3    0
    192.168.1.10   1221          35202     210.65.0.71     80     3    0
    192.168.1.10   1223          35200     210.65.0.71     80     3    0
    192.168.1.10   1224          35199     210.65.0.71     80     3    0
    192.168.1.10   1169          35254     168.95.1.88     80     3    0
    192.168.1.10   1170          35253     168.95.1.88     80     3    0
    192.168.1.10   1171          35252     168.95.1.88     80     3    0
    192.168.1.10   1172          35251     168.95.1.88     80     3    0

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```

Each line across the screen indicates an active session. The following information is displayed:

Private IP, Port: The internal user's (PC's) IP address and port number.
#Pseudo Port: The public port number.
Peer IP, Port: The peer user's (PC's) IP address and port number.
Ifno: Stands for interface number. The definition is listed below:
0 --- LAN interface.
3 --- WAN interface.