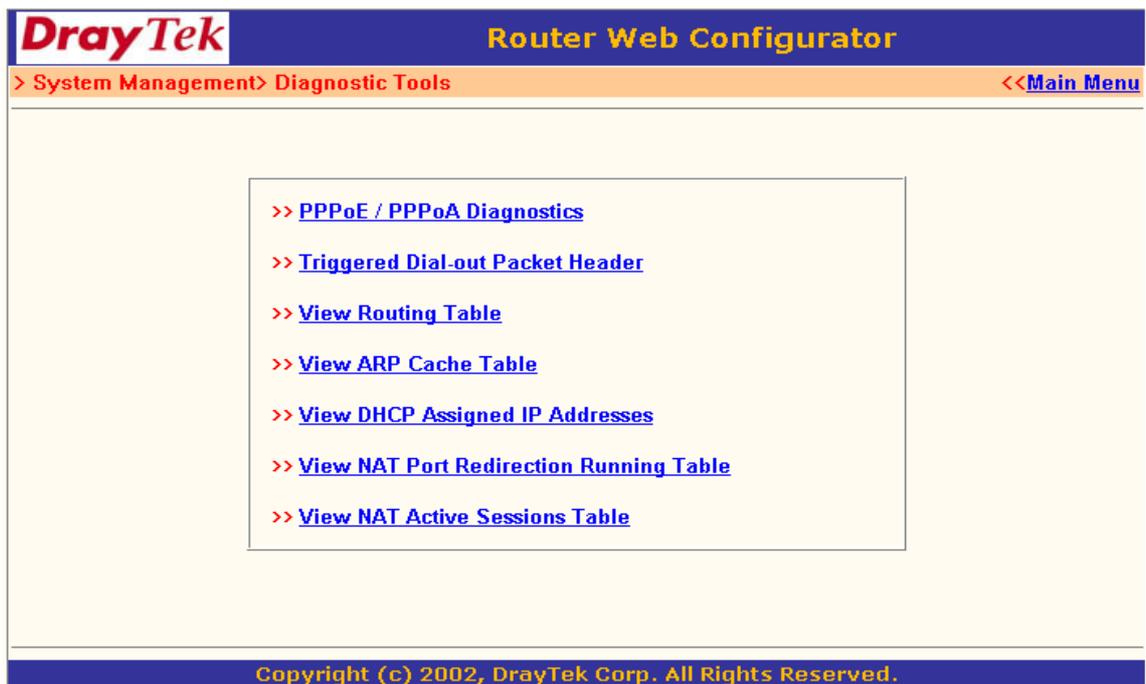


Diagnostic Tools

Introduction

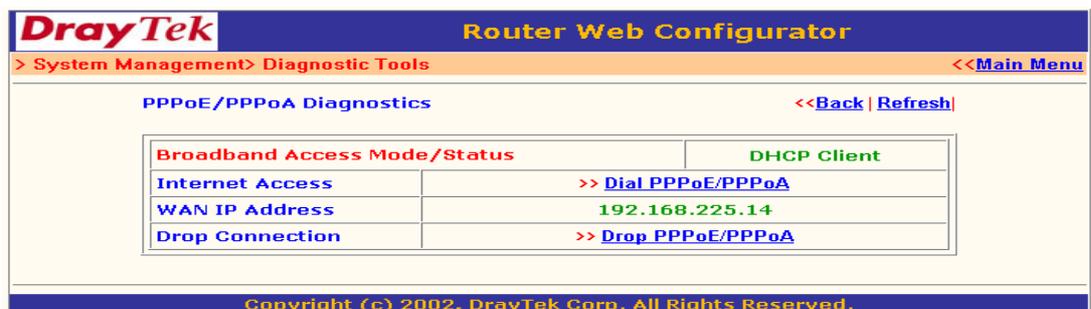
Diagnostic Tools provide useful tools for viewing or diagnosing the router. Click **Diagnostic Tools** to enter the following page. Following sections will explain details for each tool.



Configuration

- PPPoE / PPPoA 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**, **PPPoA**, **Static IP**, or **DHCP Client** depending on which access mode is enabled. If the connection is idle, it will show “---”.

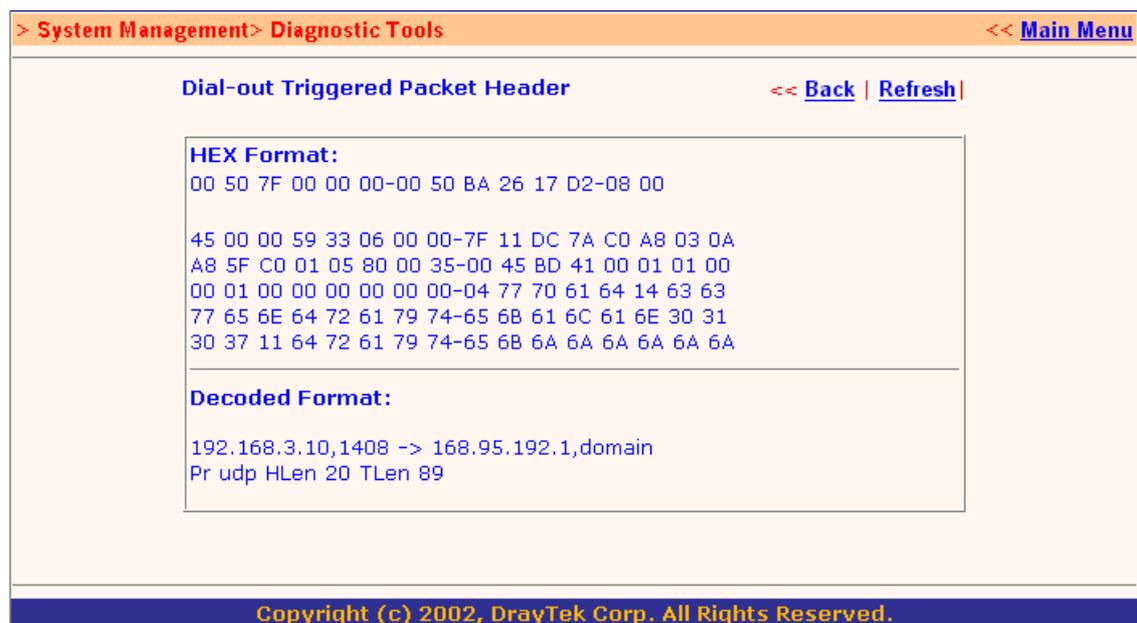
WAN IP Address: The WAN IP address for the active connection.

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

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

> System Management > Diagnostic Tools << Main Menu

Current Running Routing Table << Back | Refresh |

```

Key: C - connected, S - static, R - RIP, * - default, ~ - private

*          0.0.0.0/          0.0.0.0 via 203.69.175.30, IF3
C    203.69.175.0/ 255.255.255.224 is directly connected, IF3
S~   192.168.10.0/ 255.255.255.0 via 192.168.1.2, IF0
C~   192.168.1.0/ 255.255.255.0 is directly connected, IF0
S~   211.100.88.0/ 255.255.255.240 via 192.168.1.3, IF0

```

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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.

> System Management > Diagnostic Tools << Main Menu

Ethernet ARP Cache Table << Back | Refresh |

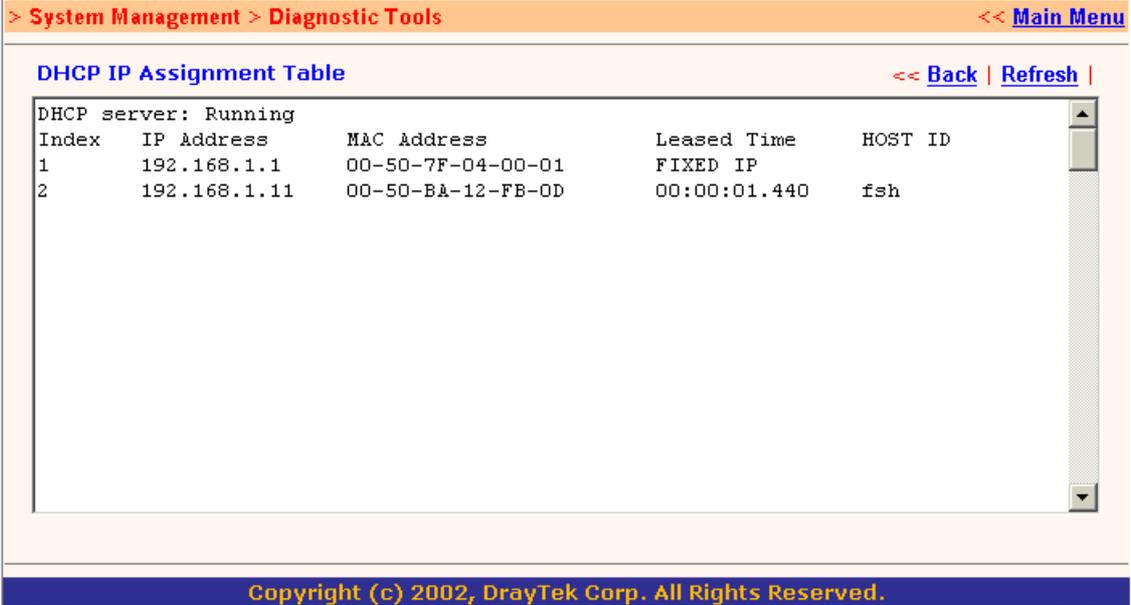
IP Address	MAC Address
192.168.1.10	00-50-BA-26-17-D2
203.69.175.29	00-04-76-DB-62-DD
203.69.175.2	00-50-7F-00-0F-DD
203.69.175.1	00-50-7F-00-EF-45
203.69.175.17	00-C0-26-BA-56-36
203.69.175.5	00-50-7F-00-00-2E
203.69.175.30	00-50-7F-01-0A-84

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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.



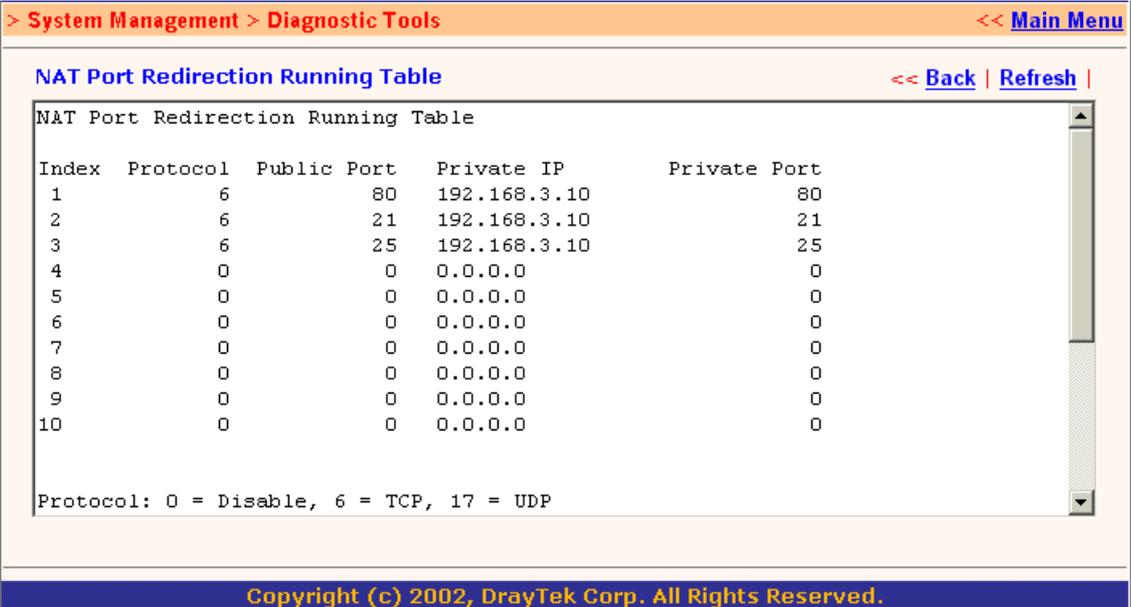
The screenshot shows a web interface for "System Management > Diagnostic Tools". The title is "DHCP IP Assignment Table" with navigation links for "Back" and "Refresh". The DHCP server status is "Running". The table lists two IP assignments:

Index	IP Address	MAC Address	Leased Time	HOST ID
1	192.168.1.1	00-50-7F-04-00-01	FIXED IP	
2	192.168.1.11	00-50-BA-12-FB-0D	00:00:01.440	fish

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- 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.



The screenshot shows a web interface for "System Management > Diagnostic Tools". The title is "NAT Port Redirection Running Table" with navigation links for "Back" and "Refresh". The table lists NAT port redirection settings:

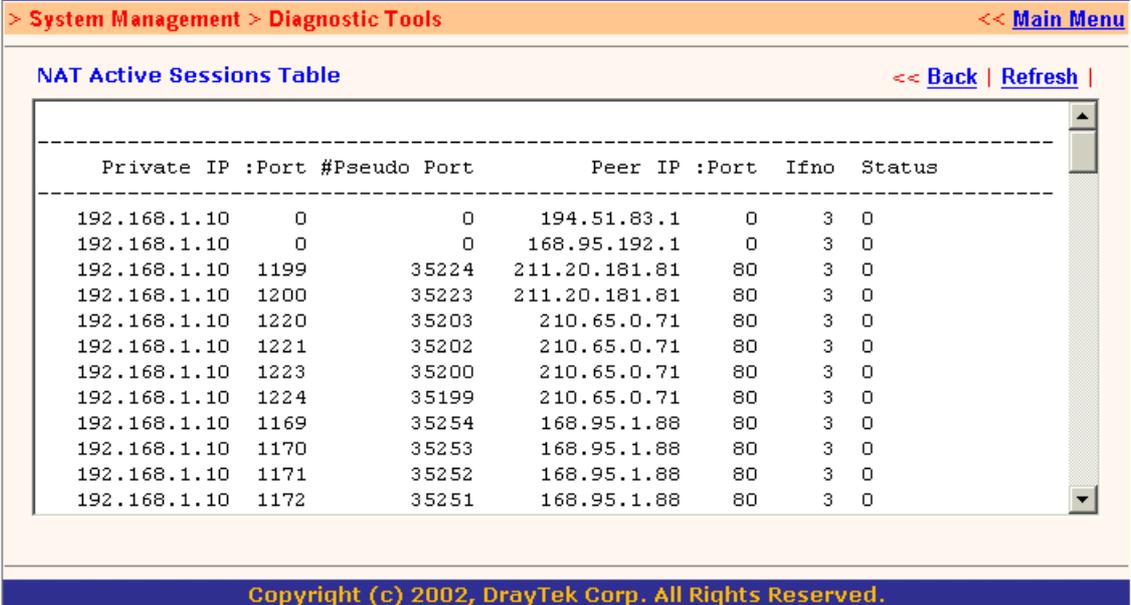
Index	Protocol	Public Port	Private IP	Private Port
1	6	80	192.168.3.10	80
2	6	21	192.168.3.10	21
3	6	25	192.168.3.10	25
4	0	0	0.0.0.0	0
5	0	0	0.0.0.0	0
6	0	0	0.0.0.0	0
7	0	0	0.0.0.0	0
8	0	0	0.0.0.0	0
9	0	0	0.0.0.0	0
10	0	0	0.0.0.0	0

Protocol: 0 = Disable, 6 = TCP, 17 = UDP

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- 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.



The screenshot shows a web interface with a breadcrumb trail: > System Management > Diagnostic Tools. In the top right corner, there is a link for << Main Menu. The main content area is titled "NAT Active Sessions Table" and includes links for << Back and Refresh. Below the title is a table with the following columns: Private IP :Port, #Pseudo Port, Peer IP :Port, Ifno, and Status. The table contains 13 rows of data. At the bottom of the interface, there is a copyright notice: Copyright (c) 2002, DrayTek Corp. All Rights Reserved.

Private IP :Port	#Pseudo Port	Peer IP :Port	Ifno	Status
192.168.1.10	0	194.51.83.1	0	3 0
192.168.1.10	0	168.95.192.1	0	3 0
192.168.1.10	1199	211.20.181.81	80	3 0
192.168.1.10	1200	211.20.181.81	80	3 0
192.168.1.10	1220	210.65.0.71	80	3 0
192.168.1.10	1221	210.65.0.71	80	3 0
192.168.1.10	1223	210.65.0.71	80	3 0
192.168.1.10	1224	210.65.0.71	80	3 0
192.168.1.10	1169	168.95.1.88	80	3 0
192.168.1.10	1170	168.95.1.88	80	3 0
192.168.1.10	1171	168.95.1.88	80	3 0
192.168.1.10	1172	168.95.1.88	80	3 0

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.