

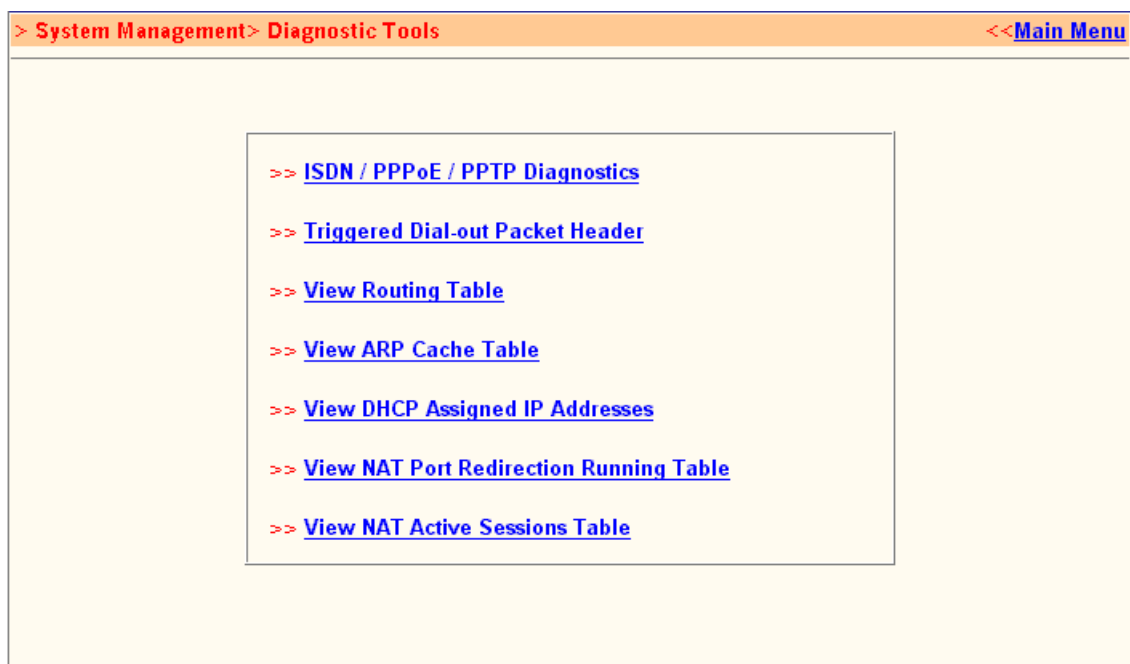
---

# 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.



## Descriptions

### - ISDN / PPPoE / PPTP Diagnostics

Click here to open the following page. The page shown here is for reference only; individual networks will show different results.

The page has been grouped into two subgroups, the upper is for ISDN link status, the lower is for broadband access status.

> System Management> Diagnostic Tools

<<Main Menu

ISDN/PPPoE/PPTP Diagnostics

<<Back | Refresh |

|                  |             |           |
|------------------|-------------|-----------|
| ISDN Link Status |             | DOWN      |
| Internet Access  | >>Dial ISDN |           |
| B Channel        | B1          | B2        |
| Activity         | Idle        | Idle      |
| Drop Connection  | >>Drop B1   | >>Drop B2 |

|                              |                      |             |
|------------------------------|----------------------|-------------|
| Broadband Access Mode/Status |                      | DHCP Client |
| Internet Access              | >>Dial PPPoE or PPTP |             |
| WAN IP Address               | 172.16.2.57          |             |
| Drop Connection              | >>Drop PPPoE or PPTP |             |

**Refresh:** To obtain the latest information, click here to reload the page.

**ISDN Link Status:** If the link is active, this field will show **UP**. Otherwise, it shows **DOWN**.

**Dial ISDN:** Clicking here causes the router to dial to the preset ISP. Click **Internet Access Setup > Dial to a Single ISP** to configure dial-up settings.

**Activity:** Displays the connection name for each B channel. If the B channel is idle, it will show **Idle**.

**Drop B1:** Click to disconnect the B1 channel.

**Drop B2:** Click to disconnect the B2 channel.

**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 "---".

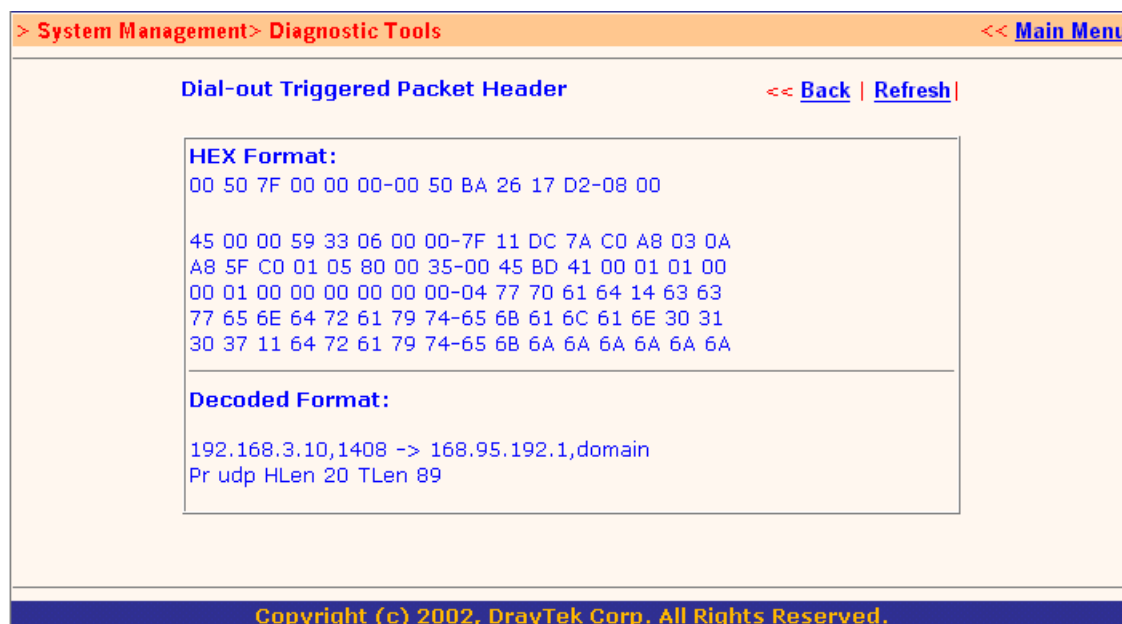
**WAN IP Address:** The WAN IP address for the active connection.

**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

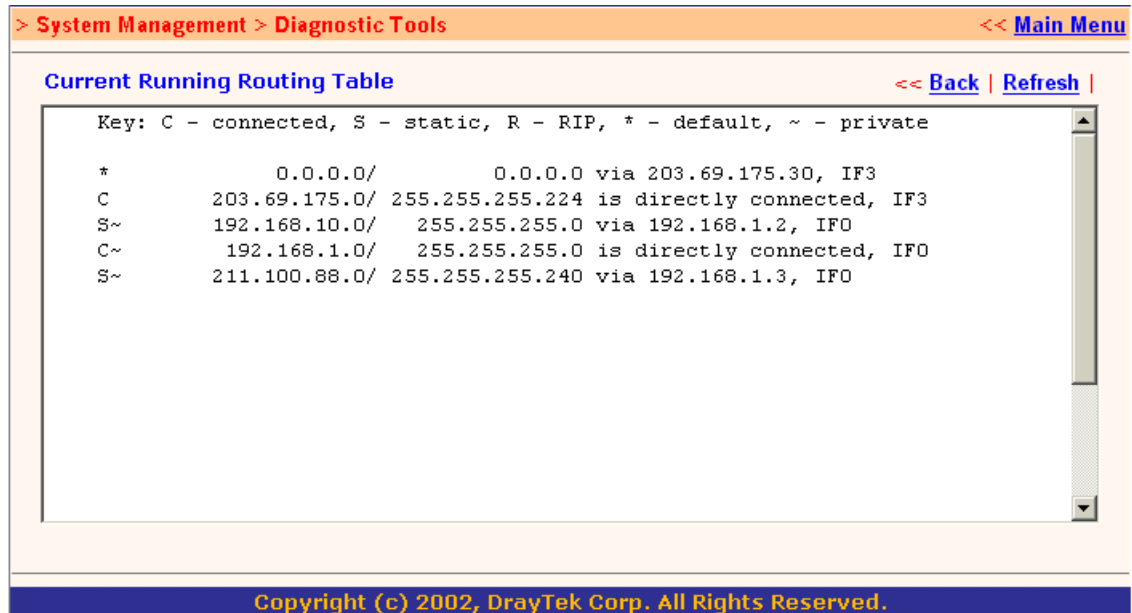
Click **View Routing Table** to view the router's routing table.

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:

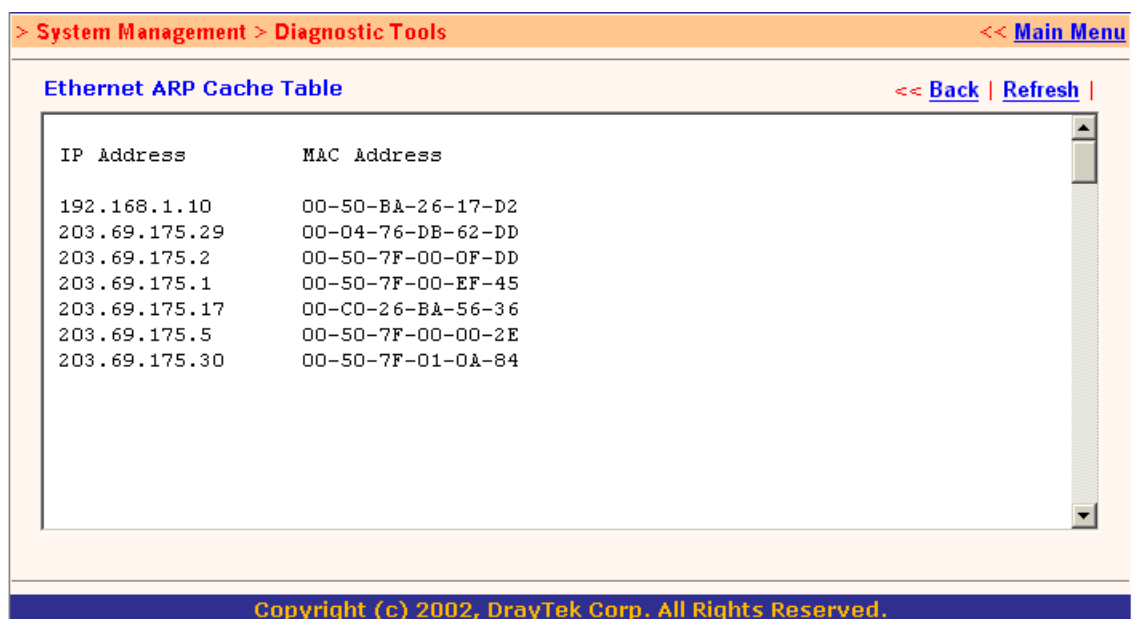
- IF0** --- Local LAN interface.
- IF1** --- ISDN B1 channel.
- IF2** --- ISDN B2 channel.
- IF3** --- WAN interface.



**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.

> System Management > Diagnostic Tools

<< Main Menu

DHCP IP Assignment Table

<< Back | Refresh |

DHCP server: Running

| 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 | fsh     |

Copyright (c) 2002, DrayTek Corp. All Rights Reserved.

## - 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.

> System Management > Diagnostic Tools

<< Main Menu

NAT Port Redirection Running Table

<< Back | Refresh |

NAT Port Redirection Running Table

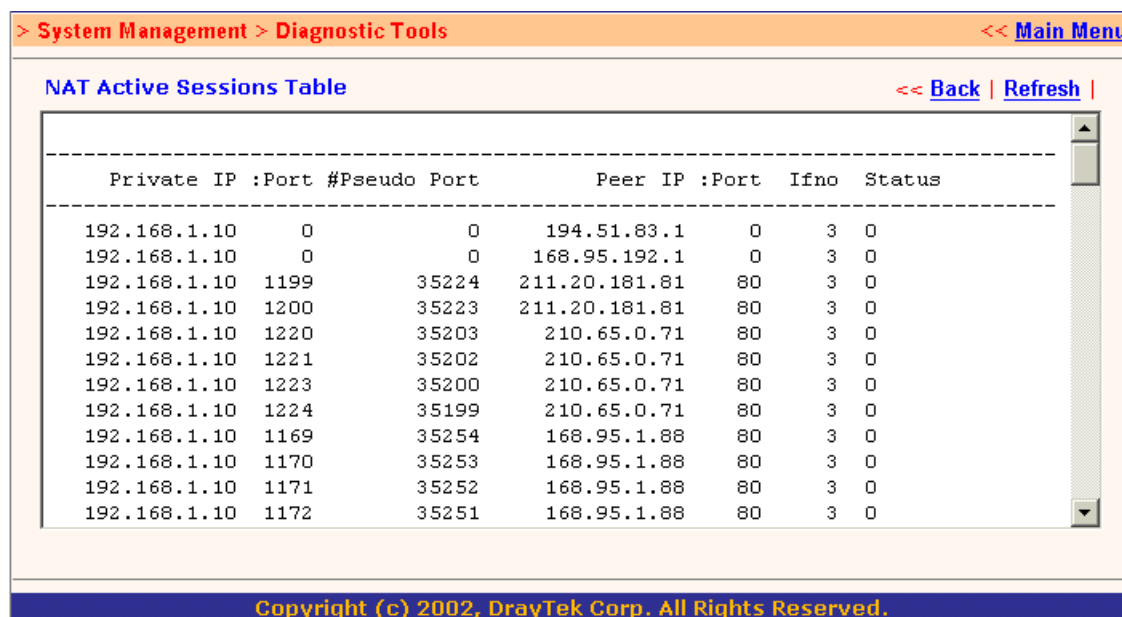
| Index | Protocol | Public Port | Private IP   | Private Port |
|-------|----------|-------------|--------------|--------------|
| 1     | 6        | 80          | 192.168.3.10 | 80           |
| 2     | 6        | 21          | 192.168.3.10 | 21           |
| 3     | 6        | 25          | 192.168.3.10 | 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

Copyright (c) 2002, DrayTek Corp. All Rights Reserved.

## - 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 navigation bar at the top containing "> System Management > Diagnostic Tools" and "<< Main Menu". Below the navigation bar is the title "NAT Active Sessions Table" with links "<< Back | Refresh |". The main content area displays a table with the following data:

| 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      |

At the bottom of the interface, a blue bar contains the text "Copyright (c) 2002, DrayTek Corp. All Rights Reserved."

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.

1 --- B1 interface

2 --- B2 interface.

3 --- WAN interface.