
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/PPPoA 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		---
Internet Access	>>Dial PPPoE/PPPoA	
WAN IP Address	---	
Drop Connection	>>Drop PPPoE/PPPoA	

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

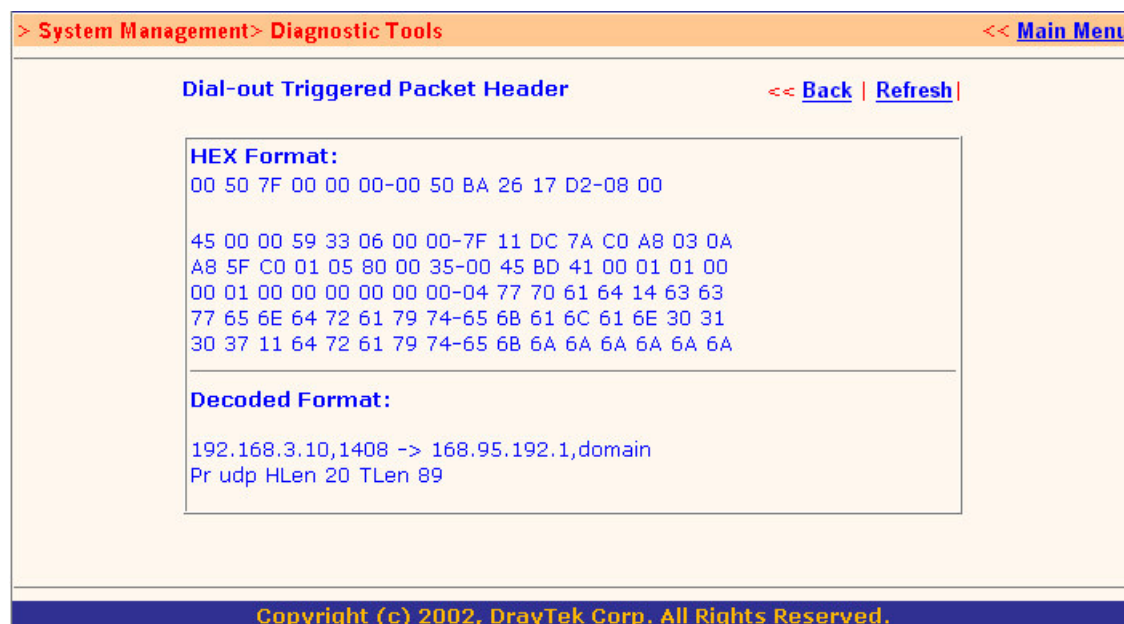
WAN IP Address: The WAN IP address for the active connection.

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

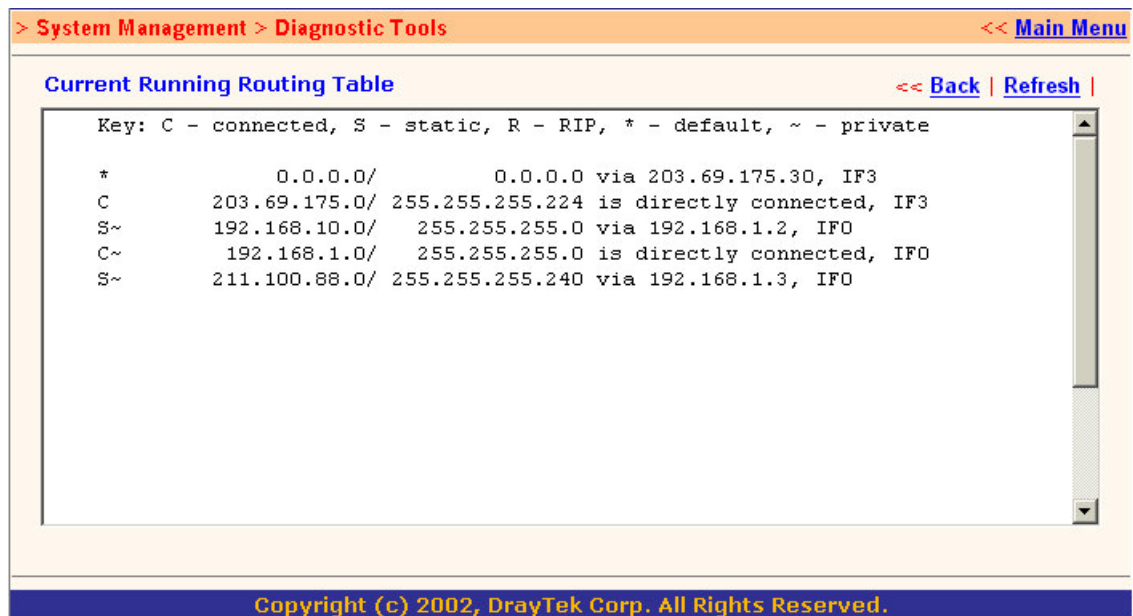
Click **View Routing Table** to view the router's routing table.

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:

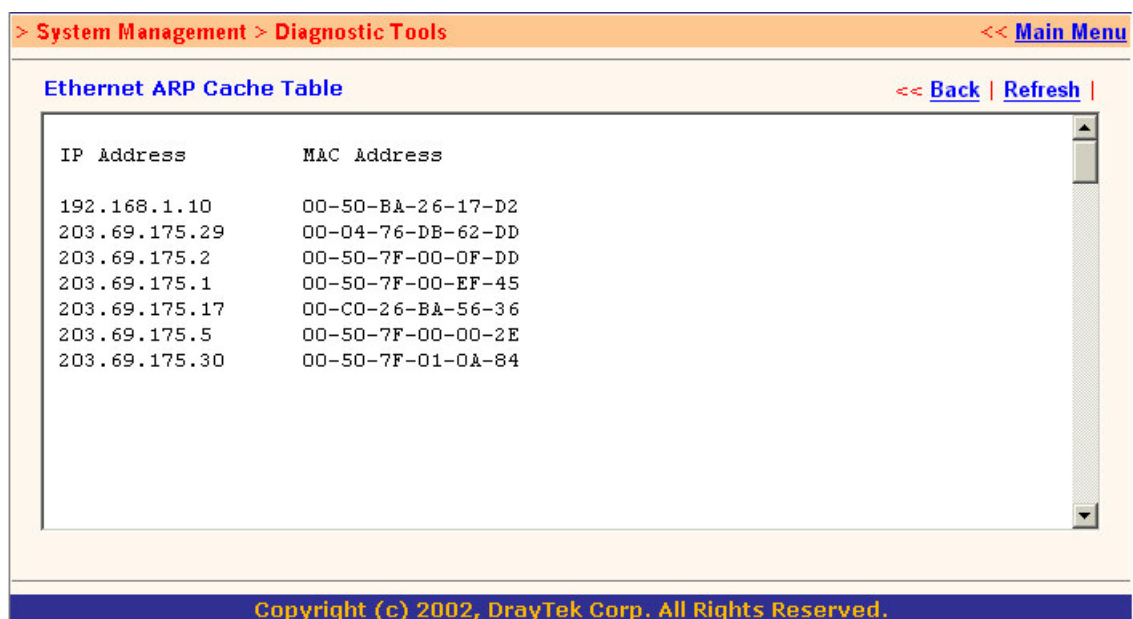
- IF0** --- Local LAN interface.
- IF1** --- ISDN B1 channel.
- IF2** --- ISDN B2 channel.
- IF3** --- WAN interface.



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

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DHCP IP Assignment Table

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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

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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.

> System Management > Diagnostic Tools

<< Main Menu

NAT Port Redirection Running Table

<< Back | Refresh |

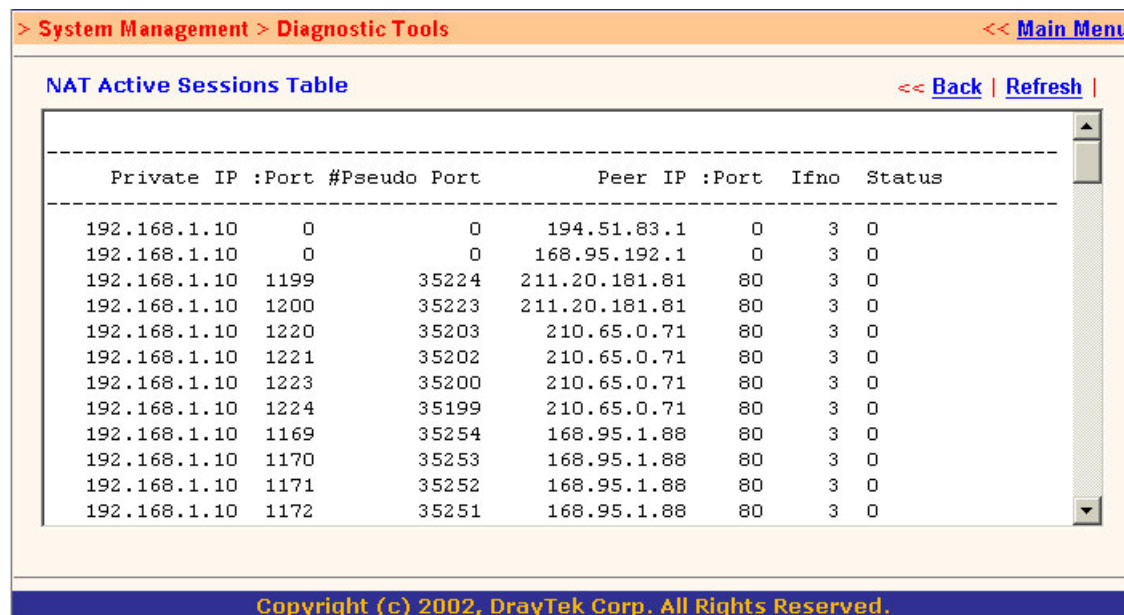
Index	Protocol	Public Port	Private IP	Private Port
1	6	80	192.168.3.10	80
2	6	21	192.168.3.10	21
3	6	25	192.168.3.10	25
4	0	0	0.0.0.0	0
5	0	0	0.0.0.0	0
6	0	0	0.0.0.0	0
7	0	0	0.0.0.0	0
8	0	0	0.0.0.0	0
9	0	0	0.0.0.0	0
10	0	0	0.0.0.0	0

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" and a "<< Main Menu" link. The title "NAT Active Sessions Table" is displayed with "<< Back | Refresh |" links. The table contains 11 rows of session data. The footer states "Copyright (c) 2002, DrayTek Corp. All Rights Reserved."

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

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.

- ADSL Spectrum Analysis (V2600 only)

ADSL uses 249 channels(DMT modulation) for data transmission. It will show bits, Gain, SNR spectrum analysis for every Bin.

