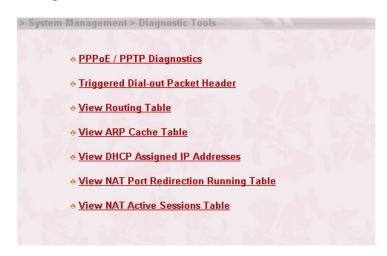# CHAPTER 19

Diagnostic Tools

19.1　Introduction

Diagnostic Tools provide useful tools to view or diagnose the router. Click **Diagnostic Tools** to enter the following page. More details for each tool will be explained below.
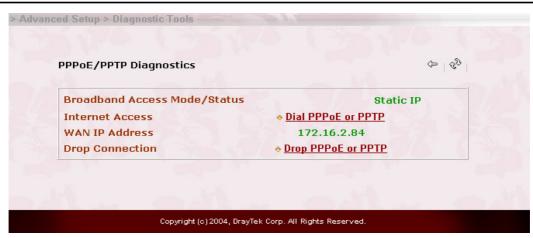

19.2　Descriptions

19.2.1 PPPoE / PPTP Diagnostics

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

> Advanced Setup > Diagnostic Tools

PPPoE/PPTP Diagnostics

Broadband Access Mode/Status	Static IP
Internet Access	Dial PPPoE or PPTP
WAN IP Address	172.16.2.84
Drop Connection	Drop PPPoE or PPTP

Copyright (c) 2004, DrayTek Corp. All Rights Reserved.

(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 "**---**".

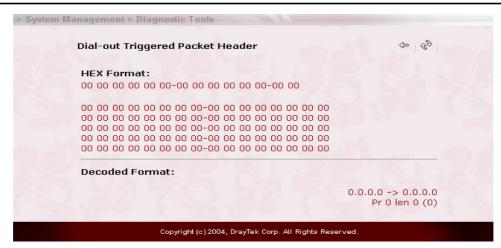**WAN IP Address:** The WAN IP address for the active connection.

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

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

19.2.2   Triggered Dial-out Packet Header

Triggered Dial-out Packet Header shows the last IP packet header that triggered the router to dial out.

> System Management > Diagnostic Tools

Dial-out Triggered Packet Header

HEX Format:
00 00 00 00 00 00-00 00 00 00 00 00-00 00

00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00

Decoded Format:

0.0.0.0 -> 0.0.0.0
Pr 0 len 0 (0)

Copyright (c) 2004, DrayTek Corp. All Rights Reserved.

(Refresh): Click to reload the page.

19.2.3 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. In the left of each routing rule, you will see a key. These keys are defined as:

C --- Directly connected.

S --- Static route.
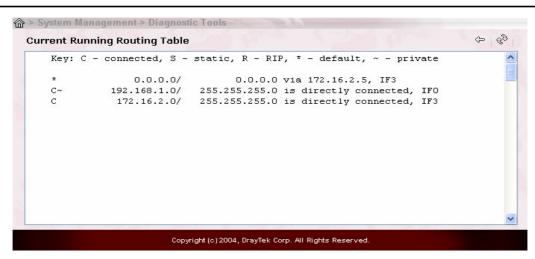
R --- RIP.

* --- Default route.

~ --- Routes for private routing domain.

In the right of each routing rule, you will see an interface identifier which are defined as follows.

IF0 --- Local LAN interface.

IF3 --- WAN interface.

Refresh: Click it to reload the page.

19.2.4 View ARP Cache Table

Click **View ARP Cache Table** to view the content of 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 it to reload the page.

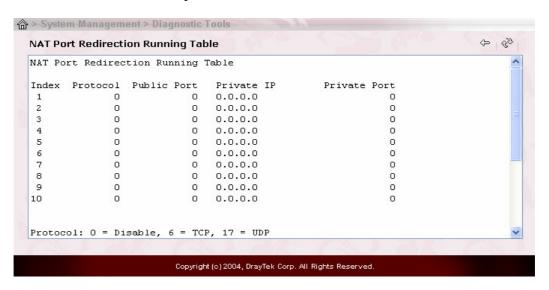### 19.2.5 View DHCP Assigned IP Addresses

The facility of **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

DHCP IP Assignment Table                                    ⇦ | ⮂

DHCP server: Running
Index    IP Address        MAC Address              Leased Time      HOST ID
1        192.168.1.1       00-50-7F-63-11-02        ROUTER IP
2        192.168.1.10      00-40-95-10-14-2A        0:00:05.910      cchu





Copyright (c) 2004, DrayTek Corp. All Rights Reserved.
```

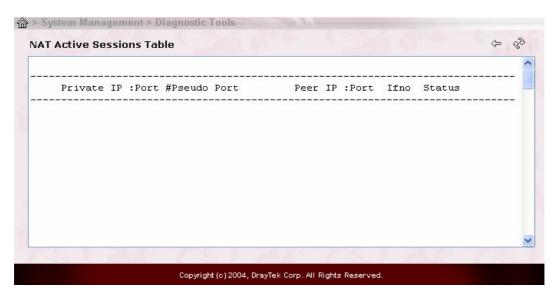### 19.2.6   View NAT Port Redirection Running Table

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

```
☖ > System Management > Diagnostic Tools

NAT Port Redirection Running Table                          ⇦ | ⮂

NAT Port Redirection Running Table

Index   Protocol   Public Port    Private IP         Private Port
 1         0            0         0.0.0.0                  0
 2         0            0         0.0.0.0                  0
 3         0            0         0.0.0.0                  0
 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) 2004, DrayTek Corp. All Rights Reserved.
```

19.2.7   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.

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.