

## DSL-524T NO NAT SETUP

Follow the steps in this document if you acquired a range of public IP addresses from your ISP and have all the required details like IP Range, Subnet Mask, Router IP and DNS Server.

To use the public IP range on the LAN, you need to setup the DSL-524T in NO NAT mode. This means that functions like Network Address Translation and Firewall are disabled. In this mode the router and all machines connected to the LAN are fully accessible from the Internet.

1) Go to Status – Device Info and verify the firmware of your DSL-524T. In this example it's dated 20060209. Firmware files are available for download from D-Link website and ftp site.

<http://www.dlink.co.uk>

<ftp://ftp.dlink.co.uk>

The screenshot displays the web management interface of a D-Link DSL-524T ADSL Router. The interface has a blue header with the D-Link logo and the model name. A navigation bar at the top includes tabs for Home, Advanced, Tools, Status (which is highlighted in yellow), and Help. On the left side, there is a vertical menu with buttons for Device Info, DHCP Clients, Log, Statistics, ADSL, and Logout. The main content area is titled 'Device Information' and shows the 'Firmware Version : V3.00B01T02.UK-A.20060209'. Below this, there are two sections: 'LAN' and 'WAN'. The LAN section lists MAC Address (00:13:46:9a:e3:d5), IP Address (192.168.1.1), Subnet Mask (255.255.255.0), DHCP Server (Enabled), and NAT (Enabled). The WAN section lists Virtual Circuit (Pvc0), Status (Not Connected), Connection Type (pppoe), IP Address (N/A), Subnet Mask (N/A), Default Gateway (N/A), and DNS Server (N/A). A 'Connect' button is located next to the Status field in the WAN section. A red plus icon and the word 'Help' are in the bottom right corner of the main content area.

Device Information	
Firmware Version : V3.00B01T02.UK-A.20060209	
<b>LAN</b>	
MAC Address	00:13:46:9a:e3:d5
IP Address	192.168.1.1
Subnet Mask	255.255.255.0
DHCP Server	Enabled
NAT	Enabled
<b>WAN</b>	
Virtual Circuit	Pvc0
Status	Not Connected
Connection Type	pppoe
IP Address	N/A
Subnet Mask	N/A
Default Gateway	N/A
DNS Server	N/A

*DSL-524T Status*

2) Go to Home – WAN to setup the DSL-524T with your ADSL account settings. Set NAT and Firewall to Disable. Set IP Control to Unnumbered IP.

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**DSL-524T**  
ADSL Router

Home Advanced Tools Status Help

Wizard  
WAN  
LAN  
DHCP  
DNS  
Dynamic DNS  
Logout

**ATM VC Setting**

PVC Pvc0  
VPI 0  
VCI 38  
Virtual Circuit Enabled  
WAN Setting PPPoE/PPPoA

**PPPoE/PPPoA**

User Name user@isp  
Password .....  
Connection Type PPPoA VC-Mux  
MTU 1400 bytes  
MRU 1492 bytes  
Default Route Enabled  
NAT Disabled  
Firewall Disabled  
IP Control Unnumbered IP  
Static IP 0.0.0.0

*DSL-524T WAN Setup*

By default, Connection Setting is set to Always ON. Keep that setting to allow access to the Internet continuously. Click Apply.

The screenshot displays the 'DSL-524T WAN Setup (continue)' window. The 'Connection Setting' section is at the top, with 'Always ON' selected and highlighted by a red rectangle. To its right, the word 'Recommended' is displayed. Below 'Always ON' are two other options: 'Connection On Demand' and 'Manual'. To the right of these options, there is a text area that says 'Connection will close if idle for' followed by a text box containing '0' and the word 'minutes'. Below this, it says 'Use Connect/Disconnect button in Status/Device Info page only'. The 'ATM' section is below the connection settings. It has a 'Service Category' label and a dropdown menu showing 'UBR'. Below this are four rows of configuration: 'PCR' with a text box and 'kbps', 'SCR' with a text box and 'kbps', 'CDVT' with a text box and 'uSeconds', and 'MBS' with a text box and 'Cells'. At the bottom right of the window are three buttons: 'Apply' with a green checkmark icon, 'Cancel' with a yellow 'X' icon, and 'Help' with a red plus icon.

**Connection Setting**

☒ Always ON **Recommended**

☐ Connection On Demand

☐ Manual

Connection will close if idle for  minutes

Use Connect/Disconnect button in Status/Device Info page only

**ATM**

Service Category  ▼

PCR  kbps

SCR  kbps

CDVT  uSeconds

MBS  Cells

Apply Cancel Help

*DSL-524T WAN Setup (continue)*

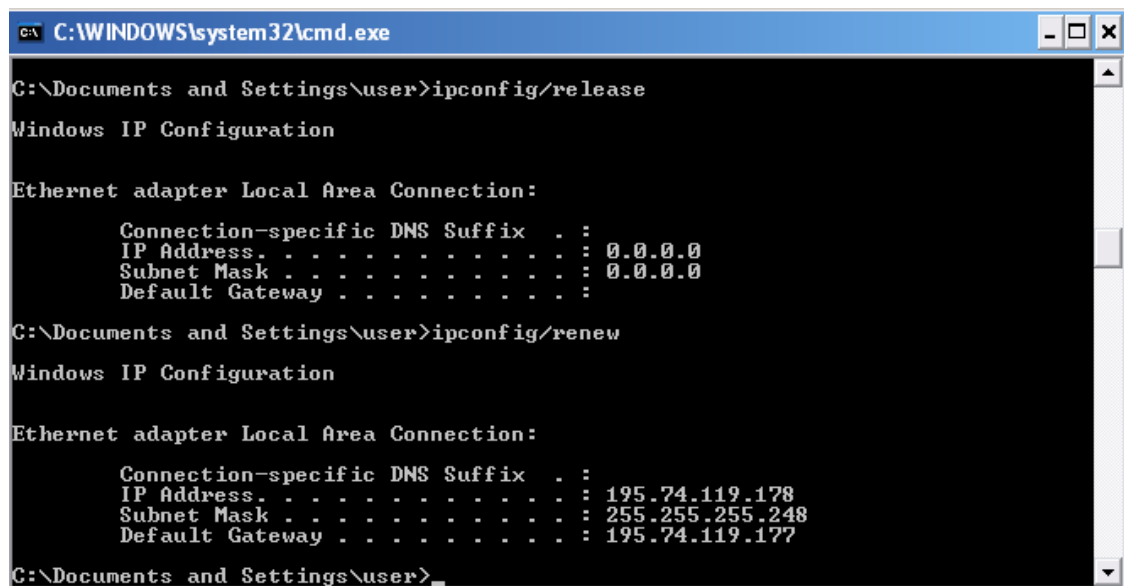
3) Go to Home – LAN. Set IP Address and Subnet Mask to ISP specifications. Click Apply.



The screenshot shows the D-Link DSL-524T ADSL Router web interface. The top header features the D-Link logo and the text "Building Networks for People" on the left, and "DSL-524T ADSL Router" on the right. Below the header is a navigation bar with tabs: "Home" (highlighted in yellow), "Advanced", "Tools", "Status", and "Help". On the left side, there is a vertical menu with buttons: "Wizard", "WAN", "LAN" (highlighted in yellow), "DHCP", "DNS", "Dynamic DNS", and "Logout". The main content area is titled "Management IP" and contains the following text: "These are the IP settings of the LAN interface for the DSL-524T. These setting may be referred to as Private settings. You may change the LAN IP address if needed." Below this text are two input fields: "IP Address" with the value "195.74.119.177" and "Subnet Mask" with the value "255.255.255.240". At the bottom right of the main content area, there are three icons: a green checkmark labeled "Apply", an orange 'X' labeled "Cancel", and a red plus sign labeled "Help".

*DSL-524T LAN Setup*

4) As you changed the DSL-524T IP address, it will not longer respond on the default IP address. You can either release & renew the IP address of your network card, or assign a static IP, from the range specified by your ISP.



```
C:\WINDOWS\system32\cmd.exe

C:\Documents and Settings\user>ipconfig/release

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    IP Address . . . . . : 0.0.0.0
    Subnet Mask . . . . . : 0.0.0.0
    Default Gateway . . . . . : 

C:\Documents and Settings\user>ipconfig/renew

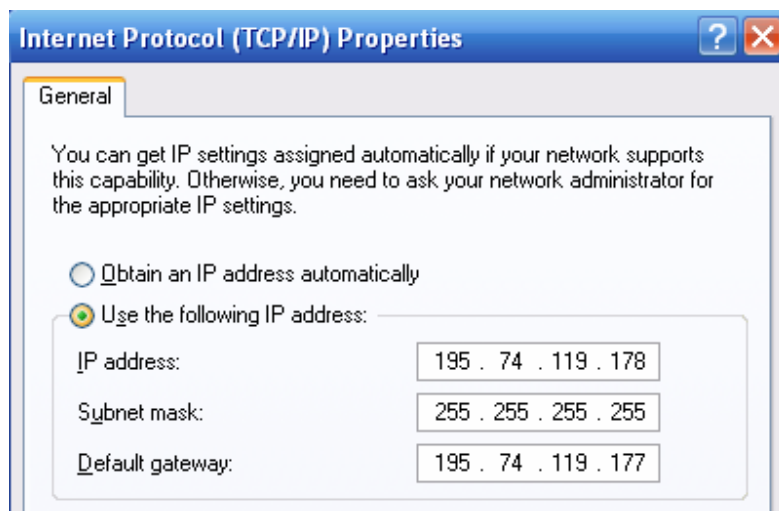
Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    IP Address . . . . . : 195.74.119.178
    Subnet Mask . . . . . : 255.255.255.248
    Default Gateway . . . . . : 195.74.119.177

C:\Documents and Settings\user>
```

*Release & renew IP address, MS-DOS prompt*



*Set static IP address, Windows XP*

5) Access the DSL-524T configuration again by opening (in internet explorer) http:// followed by the IP address you assigned the router in step 3.

6) Plug in the ADSL line to the DSL-524T, wait until the ADSL LED has a solid light. Go to Status – Device Info. Verify that WAN Status shows Connected.

The screenshot shows the D-Link DSL-524T ADSL Router web interface. The top navigation bar includes 'Home', 'Advanced', 'Tools', 'Status' (highlighted), and 'Help'. The left sidebar contains buttons for 'Device Info' (highlighted), 'DHCP Clients', 'Log', 'Statistics', 'ADSL', and 'Logout'. The main content area is titled 'Device Information' and shows the 'Firmware Version : V3.00B01T02.UK-A.20060209'. Below this, there are two sections: 'LAN' and 'WAN'. The 'LAN' section lists: MAC Address (00:13:46:9a:e3:d5), IP Address (195.74.119.177), Subnet Mask (255.255.248.0), DHCP Server (Enabled), and NAT (Disabled). The 'WAN' section lists: Virtual Circuit (Pvc0), Status (Connected), Connection Type (pppoa), IP Address (0.0.0.0), Subnet Mask (255.255.255.255), Default Gateway (62.249.255.140), and DNS Server (195.74.113.58). A 'Disconnect' button is visible next to the Status field. A red plus icon and 'Help' link are at the bottom right.

LAN	
MAC Address	00:13:46:9a:e3:d5
IP Address	195.74.119.177
Subnet Mask	255.255.248.0
DHCP Server	Enabled
NAT	Disabled

WAN	
Virtual Circuit	Pvc0
Status	Connected
Connection Type	pppoa
IP Address	0.0.0.0
Subnet Mask	255.255.255.255
Default Gateway	62.249.255.140
DNS Server	195.74.113.58

*DSL-524T Connected in NO NAT mode*

Your DSL-524T is now correctly setup for NO NAT.  
Save and Reboot the device to complete setup.



*DSL-524T Save and Reboot*

## DSL-524T NO NAT TROUBLESHOOTING

### Tools – Misc – Ping Test

PING external domain names or IP addresses. If the DSL-524T can reach to these external addresses, with the correct setup so should your machines on the LAN.

The screenshot displays the D-Link DSL-524T ADSL Router web interface. The top navigation bar includes 'Home', 'Advanced', 'Tools' (highlighted), 'Status', and 'Help'. On the left sidebar, there are buttons for 'Admin', 'Time', 'Remote Log', 'System', 'Firmware', 'Miscellaneous' (highlighted), 'Test', and 'Logout'. The main content area is titled 'Miscellaneous Configuration' and contains a 'Ping Test' section. The 'Ping IP Address' field is set to 'bbc.co.uk', and the 'Ping' button has been clicked. The 'Ping Result' section shows the following output:

```
PING bbc.co.uk (212.58.228.155): 64 data bytes
72 bytes from 212.58.228.155: icmp_seq=0 ttl=247 time=30.0 ms
72 bytes from 212.58.228.155: icmp_seq=1 ttl=247 time=40.0 ms
72 bytes from 212.58.228.155: icmp_seq=2 ttl=247 time=30.0 ms
--- bbc.co.uk ping statistics ---
3 packets transmitted, 3 packets received, 0% packet loss
round-trip min/avg/max = 30.0/33.3/40.0 ms
```

At the bottom right of the interface, there are three buttons: 'Apply' (with a green checkmark icon), 'Cancel' (with an orange 'X' icon), and 'Help' (with a red plus icon).



### Home – DHCP.

If you decide to use DHCP, set the range accordingly to your ISP specifications. Don't include the routers' IP address in the range. Click Apply, save and reboot the DSL-524T then renew the IP addresses on all affected network cards.



The image shows the web interface of a D-Link DSL-524T ADSL Router. The top header features the D-Link logo and the model name. A navigation bar includes tabs for Home, Advanced, Tools, Status, and Help. On the left, a sidebar contains buttons for Wizard, WAN, LAN, DHCP (highlighted in yellow), and DNS. The main content area is titled 'DHCP Settings' and explains that the device can be configured as a DHCP server. Two radio buttons are present: 'No DHCP' and 'DHCP Server' (which is selected). Below this, the 'DHCP Server' section contains two input fields: 'Starting IP Address' with the value '195.74.119.178' and 'Ending IP Address' with the value '195.74.119.190'. These fields are enclosed in a red rectangular border. At the bottom right, there are three buttons: 'Apply' (with a green checkmark icon), 'Cancel' (with an orange 'X' icon), and 'Help' (with a red plus icon).

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ADSL Router

Home Advanced Tools Status Help

Wizard  
WAN  
LAN  
DHCP  
DNS

### DHCP Settings

The device can be setup as a DHCP Server to distribute IP addresses to the LAN network.

☐ No DHCP Choose this option. The IP address must be manually assigned at each device connected to DSL-524T.

☒ DHCP Server Choose this option to setup as a DHCP server to distribute IP addresses to the LAN network.

### DHCP Server

Starting IP Address	195.74.119.178
Ending IP Address	195.74.119.190

Apply Cancel Help

### Status – Log.

The DSL-524T logs events about ADSL sync, connection, authentication etc.

The screenshot shows the web interface of a D-Link DSL-524T ADSL Router. The top header features the D-Link logo and the product name 'DSL-524T ADSL Router'. Below the header is a navigation bar with tabs for 'Home', 'Advanced', 'Tools', 'Status' (which is highlighted in yellow), and 'Help'. On the left side, there is a vertical menu with buttons for 'Device Info', 'DHCP Clients', 'Log' (highlighted in yellow), 'Statistics', 'ADSL', and 'Logout'. The main content area is titled 'View Log' and includes a description: 'View Log displays the activities occurring on the DSL-524T .'. Below this description are navigation buttons: 'FirstPage', 'LastPage', 'Previous', 'Next', 'Clear Log', and 'Save Log'. A red circular icon with a white plus sign and the word 'Help' is located on the right side of the log area. The log itself shows 'page 7 of 7' and a table with two columns: 'Time' and 'Message'. The log entries are as follows:

Time	Message
Jan 1 12:56:02>	PPPoA Connection Successfully Established
Jan 1 12:56:02>	PPPoA Connect with Gateway IP Address: 62.249.255.140
Jan 1 12:56:02>	WAN IP address 195.74.119.177
Jan 1 12:56:02>	WAN gateway 62.249.255.140
Jan 1 12:56:02>	primary DNS address 195.74.113.58
Jan 1 12:56:02>	secondary DNS address 195.74.113.62
Jan 1 12:56:02>	ppp0
Jan 1 12:56:02>	Successful exit for GW Route