

Telkom VPN-Lite router setup User Manual

D-Link DSL-2750U

Version AF_1.01_V01

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Introduction

Welcome to the Telkom VPN-Lite router setup user manual. This manual will provide information on how to setup the Telkom VPN-Lite service on your D-Link

DSL-2750U modem using the Installation Wizard and the router's graphical user interface (GUI)

Before you start



This manual assumes that the D-Link DSL-2750U is in its factory default state. Thus: LAN IP = 10.0.0.2It is recommended that the Installation Wizard is used to setup VPN-Lite on your D-Link DSL-2750U. The routers graphical user interface (GUI) or manual setup method is to be used by experienced users only. Please ensure that your PC is set to obtain an IP address automatically from the router's DHCP server.

Register VPN-Lite service.

To enable you to configure the Telkom VPN-Lite service on your D-Link DSL-2750U router you first need to register for the Telkom VPN-Lite service on the Telkom website (www.telkom.co.za).

On the VPN-Lite registration site you will be able to configure and manage your

VPN-Lite sites as shown in the image below.

he VPN	Sites linked to your pro	file are listed below.			1000
Summa	ary				What would you like to do?
Custome Package Monthly	er: Joe e Size: VPNLite 100 Usage: 34272 MB	3B Plan			Options :: Manage Sites :: View Usage :: eServices
VPN Si	tes				:: Heln
#	Site (Username)	Site Description	LAN Subnet	WAN IP	Developed
1	site10@evpn.neo.0008	3	10.0.10.0/24	172.29.1.10	:: Downloads
2	site11@evpn.neo.0008	3	10.0.11.0/24	172.29.1.11	2
3	site12@evpn.neo.0008	3	10.0.12.0/24	172.29.1.12	
4	site13@evpn.neo.0008	3	10.0.13.0/24	172.29.1.13	
5	site14@evpn.neo.UUU	3	10.0.14.0/24	172.29.1.14	
ь т	site15@evpn.neo.UUU	3	10.0.15.10/32	172.29.1.15	
6	site 16@evpn.neo.UUU	1	10.0.16.0/24	172.29.1.16	
8	site 17@evpn.neo.UUU	5	10.0.17.0/24	172.29.1.17	
9	site 10@evpn.ne0.UUUt	5	10.0.18.0/24	172.29.1.10	
10	site 1 Source proc 0009		192.100.1.0/24	172.29.1.19	
1.1	site i@evpfi.neu.uuuo		10.0.1.0/24	172.29.1.1	

Here you will retrieve vital information like site Usernames, Password and LAN Subnets to configure the VPN-Lite sites. In the below setup sections you will be required to enter these values.

Please ensure that you have all the correct information for each site before you start any of the setup sections mentioned in this document. Below is an image to show you what information is required to enable you to setup VPNLite. You can find this screen in the Manage Sites section.

Modify a Site	
Site (Username) File 15 (Pergin pleo 0008	
Site Description *	
LAN Subnet - Format: IP Address/Subnet Mask (8 - 32) * 10.0.16.0/24	
WAN IP - Format: IP Address * 172.29.1.16	
Password	
Confirm Password	
* Indicates mandatory fields	
Cancel Modify	

VPN-Lite Setup Using the bundled Installation Wizard on the CD

Before you start with this section, please make sure you have registered on the Telkom VPN-Lite service website and that you have received your VPN-Lite account and IP information for the local site (*this will be one of your branches or offices where you will install the VPN-Lite service*). Please refer to page 5 for further information

The Installation Wizard can be found on the bundled CD. When opening the Wizard, click on Services Setup and then on VPN-Lite



By using the information retrieved from the Telkom VPN-Lite setup website (see page 5) enter your site username, site password and site LAN IP range using the IP slash notation as it appears on the Telkom VPN-Lite website. When done, click next.

D-Link	DSL-2750U
WPN Lite Configuration	Telkon
Site Username : e.g. siteA@evpn.lite.0005	
Site Password :	
Site LAN IP / netmask : / e.g. 10.0.1.0/24	
Back Next >	

Review your settings and click on **Submit** when you are happy with your settings



When the router has successfully submitted the settings you will see this screen. Wait for the router to reboot with the new settings. Please log in with your new IP address if you have changed it from the default value (10.0.0.2)



VPN-Lite Setup using router's graphical user interface (GUI)

This section will guide you through the relative steps to setup you VPN-Lite service using the routers graphical user interface browser.

Connection to the router using your web browser

Open a web browser like Internet Explorer or Mozilla Firefox. In the internet address bar type in http://10.0.0.2 and press enter. You will be prompted to supply a password. Enter **admin** as the password (default **admin**) and press login

Product Page: DSL-2750U F	Firmware Version: AF_1.57_T10
D-Link	
LOGIN	
Welcome to DSL-2750U Web Management Username : admin Password : ••••• Remember my login info. Login	
WIRELESS	

Setup your VPN-Lite

After the router's graphical user interface was successfully loaded in your web browser, firstly click on Setup on the top menu and then select Internet Setup on the left menu. The following screen will appear.



Click on add for the Internet Connection Setup page.

You will require your VPN-Lite site username and password that you retrieved from the Telkom VPNLite setup site. In the ATM PVC Configuration section, change the VPI setting to "8" and VCI setting to "35".

ATM PVC CONFIGURATION	
VPI:	8 (0-255)
VCI:	35 (32-65535)
Service Category:	UBR Without PCR 🔻
Peak Cell Rate:	(cells/s)
Sustainable Cell Rate:	(cells/s)
Maximum Burst Size:	(cells)

In the Connection Type section, change the Protocol to PPPoE, Encapsulation Mode to LLC/SNAP Bridging, enable Multiple Vlan Over One Connection, Set the 802.1P priority value and 802.1Q VLAN ID both to -1.

CONNECTION TYPE	
Protocol:	PPP over Ethernet (PPPoE)
Encapsulation Mode:	LLC/SNAP-BRIDGING 🔻
Enable Multiple Vlan Over One Connection:	
802.1P Priority [0-7]:	-1
802.1Q VLAN ID [0-4094]:	-1

In the username and password section you will need to enter your VPN-Lite username and password in corresponding fields. Make sure that your authentication Method is set to Auto and your MTU value is set to 1492

PPP USERNAME AND PASSWORD			
PPP Username: PPP Password: Confirm PPP Password: Authentication Method: Dial On Demand (With Idle Timeout Timer):	site500@evpn.lite000 •••••• •••••• AUTO		
Inactivity Timeout:	(minutes [1-4320])		
Dial On Manual:			
Bridge PPPoE Frames Between WAN and Loc	al Ports:		
MTU Size:	1492 (1370-1492)		
PPP IP Extension:			
IPV4 Setting Use Static IP Addres. IP Address: 0.0.0.0			

In the Network Address translation section you will need to disable NAT and Firewall. Click on next.

NETWORK ADDRESS TRANSLATION SETTINGS
Enable NAT: Enable Firewall: Enable IGMP Multicast: Service Name: pppoe_0_8_35_1
Next Cancel

This will take you to the summary screen to confirm the settings. Click Apply.

VPI / VCI:	8 / 35
Connection Type:	PPPoE
Service Name:	pppoe_0_8_35_1
Service Category:	UBR
IP Address:	Automatically Assigned
Service State:	Enabled
NAT:	Disabled
Firewall:	Disabled
IGMP Multicast:	Disabled
Quality Of Service:	Enabled

In the menu on the top click Advanced and then select Routing on the menu on the left followed by Static Route



You need to setup 3 Static Routes for your VPN-Lite service. You should supply the Destination, Netmask and Interface. The first Destination is 10.0.0.0: the Netmask should be 255.0.0.0 and for Interface select 2nd PPP connection. Select Apply to save the first Static Route.

STATIC ROUTE ADD		
Destination Network Address :	10.0.0.0	
Subnet Mask :	255.0.0.0	
Use Gateway IP Address :		
Use Interface :	pppoe_0_8_35_1/ppp1.1 🔻	
Apply Cancel		

The second Destination is 172.16.0.0: the Netmask should be 255.240.0.0 and for Interface select 2nd PPP connection. Select apply to save the second Static Route.

STATIC ROUTE ADD		
Destination Network Address :	1/2.16.0.0	
Subnet Mask :	255.240.0.0	
lico Catoway ID Addross		
O Se dateway IP Address .		
Our Use Interface :	pppoe_0_8_35_1/ppp1.1 🔻	
Apply Cancel		

The third Destination is 192.168.0.0 and Subnet Mask should be 255.255.255.0 and for Interface select 2nd PPP connection. Select apply to save the third Static Route.

STATIC ROUTE ADD			
Destination Network Address : Subnet Mask :	192.168.0.0 255.255.0.0		
 Use Gateway IP Address : Use Interface : 	pppoe_0_8_35_1/ppp1.1		
Apply Cancel			

After all three Static Routes have been added the screen should look like this

ROUTING STATIC ROUTE					
	Destination	Subnet Mask	Gateway	Interface	
	10.0.0.0	255.0.0.0	Guterray	ppp1.1	
	172.16.0.0	255.240.0.0		ppp1.1	
	192.168.0.0	255.255.0.0		ppp1.1	

Configure your router IP address

On the Telkom VPN-Lite setup site you would have received a LAN Subnet address that could look like this 10.0.10.0/24. Your router's LAN IP would then be 10.0.10.2 and your Subnet Mask will be 255.255.255.0.

In the menu on the top, firstly click on Setup then on the left menu select Local Network. This screen should appear. Change you IP address and Subnet mask to the desired range as per you VPN-Lite configuration and click on Add.

DSL-2750U	SETUP	ADVANCED	MAINTENANCE	STATUS
Wizard	LOCAL NETWORK			
Internet Setup	This section allows you to configure the local network settings of your router. Please note that this section is optional and you should not need to change any of the settings here to get your network up and running.			
3G Internet Setup				
Wireless Connection				
Local Network	ROUTER SETTINGS			
Time and Date	Use this section to configure the local network settings of your router. The Router IP Address that			
Logout	is configured here is the IP Address that you use to access the Web-based management interface. If you change the IP Address here, you may need to adjust your PC's network settings to access the network again.			
	Router IP A	Address : 10.0.10.2		
	Subne	et Mask : 255.255.255.0)	
		Configure the interface	second IP Address and s	Subnet Mask for LAN
	IP /	Address :		
	Subne	et Mask :		

You will see that your DHCP values will change to the correct range automatically.

DHCP SERVER SETTINGS (OPTIONAL)		
Use this section to configure the built-in DHCP Server to assign IP addresses to the computers on your network.		
0	Disable DHCP Server	
Enable DHCP Server		
DHCP IP Address Range :	10.0.10.3 to 10.0.10.254	
DHCP Lease Time :	24 (hours)	

Your routers IP address is now changed to the new IP entered in the previous step. To ensure that your PC can still communicate with your D-link router on it new LAN IP address, you should release and renew your PC's IP address. In XP, Vista or Windows 7 press the Start button. Select All Programs\Accessories\Command Prompt. A Command prompt screen will appear



Type the following and press enter: ipconfig /release. You should now wait for your IP to be released. Then type: ipconfig /renew. Your PC's IP will now be renewed and within the new range to enable you to connect to your D-link router's new LAN IP address. You can now close the Command Prompt screen. To reconnect to your router you need to type the new IP address (10.0.10.2) into your browser navigation bar and press enter.

