

# NETOPIA DSL EQUIPMENT

## NETOPIA SDSL EQUIPMENT

### FRAME-BASED (COPPER MOUNTAIN)

R7100-C	SDSL Router
R7120	SDSL Router w/Integrated V.90 Backup
R7131	SDSL Router w/Integrated ISDN Backup
R7171	SDSL Router IMUX (2X SDSL)
D7100	SDSLDSU
D7171	SDSLDSU, IMUX (2X SDSL)
M7100	SDSLModem

### ATM-BASED (NOKIA, PARADYNE, NORTEL, LUCENT, & OTHERS)

R7200	SDSL Router
R7200-T	SDSL Router for Covad
R7220	SDSL Router w/Integrated V.90 Backup
R7231	SDSL Router w/Integrated ISDN Backup

## NETOPIA IDSL EQUIPMENT

### FRAME-BASED (COPPER MOUNTAIN, NOKIA, NORTEL & OTHERS)

R3100-I	IDSL Router
R3100-T	IDSL Router for Covad
R3232-I	IDSL Router IMUX (4X IDSL)
D3232	IDSLDSU IMUX (4X IDSL)

## NETOPIA ADSL EQUIPMENT

### G.LITE, G.DMT INTEROPERABLE

R6100	ADSL Router
R6120	ADSL Router w/Integrated V.90 Backup
R6131	ADSL Router w/Integrated ISDN Backup

## NETOPIA EQUIPMENT FOR DSL AND CABLE

R9100	Ethernet Router
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## NETOPIA WAN MODULES

TER/20	V.90 WAN Module
TER/31U	ISDN U WAN Module
TER/32U	IDSL 2x IMUX WAN Module
TER/61	ADSL WAN Module
TER/71	SDSL WAN Module, Frame-based
TER/72	SDSL WAN Module, ATM-based

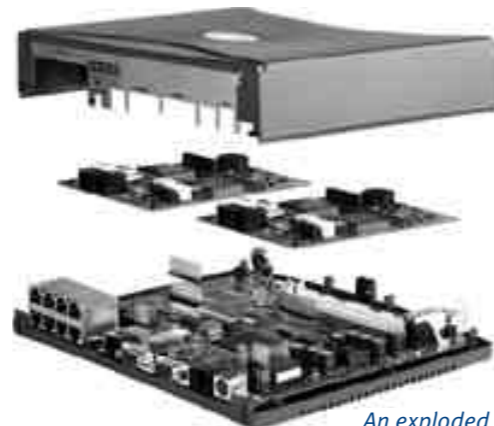
Netopia makes the Internet a reality by delivering powerful, cost-effective, easy-to-use, and business-class DSL Equipment. By combining business-class products with expert support services and strong ISP partnerships, Netopia is the best Internet connectivity value for small and medium size businesses.



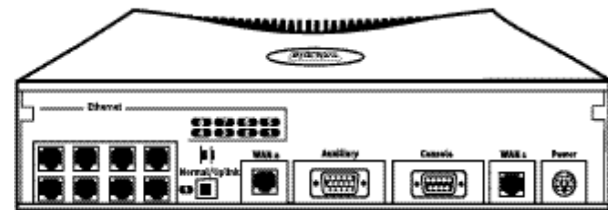
The Netopia R-Series DSL Equipment shares a common motherboard platform and form factor, enabling easy upgrades and WAN connection migration



Netopia WAN modules for connections ranging from 56K analog to DSL.



An exploded view of a Netopia R-Series router highlighting the modular architecture and dual WAN modules.



8-port Ethernet Hub w/uplink switch    Optional V.90, or ISDN Backup Port    Aux Backup Port    Console Port    DSL    Power

# Connecting TELECOMMUTERS using DSL

Use of wide area networks, especially the Internet, is freeing small and medium size businesses from geographic limitations. As a result, the traditional workplace is evolving from a single location into any place where work gets done. To succeed in the new economy, businesses must be able to provide fast remote access to email and other vital network services to workers regardless of location.

Implementing a remote access solution for telecommuters has several advantages for small and medium size businesses: it decreases office costs, increases productivity, improves job satisfaction, and enhances recruiting and retention of talent in this ultra-competitive job market.

In the past providing remote access for telecommuters meant establishing costly and complicated remote access servers (RAS). In addition to being difficult to configure and manage, these servers used analog modem technology that limited users to slow 56 Kbps access.

The advent of DSL (Digital Subscriber Line) and VPN (Virtual Private Networking) enables small businesses to provide remote telecommuters with fast, cost-effective connectivity that is secure and reliable.

Netopia Internet Equipment makes DSL access and VPN for telecommuting simple and straightforward. Small and medium size businesses are freed from costly long distance phone charges due to remote telecommuters dialing into the corporate LAN, and eliminate expensive equipment solutions that require complicated configuration and ongoing management. Telecommuters get fast, reliable and secure connectivity to corporate resources.

Netopia frees business to focus on what matters most—business success!

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INTERNET EQUIPMENT

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# NETOPIA MAKES CONNECTING TELECOMMUTERS USING VPN AND DSL SIMPLE.

Providing telecommuters with fast and secure connectivity to resources on a corporate network is now a reality for small and medium size businesses thanks to DSL and VPN technology from Netopia.

The introduction of these two technologies is providing secure, high speed, always-on connectivity at extremely affordable rates, and only Netopia is connecting telecommuters with DSL and VPN and straightforward.

## CONNECTING TELECOMMUTERS

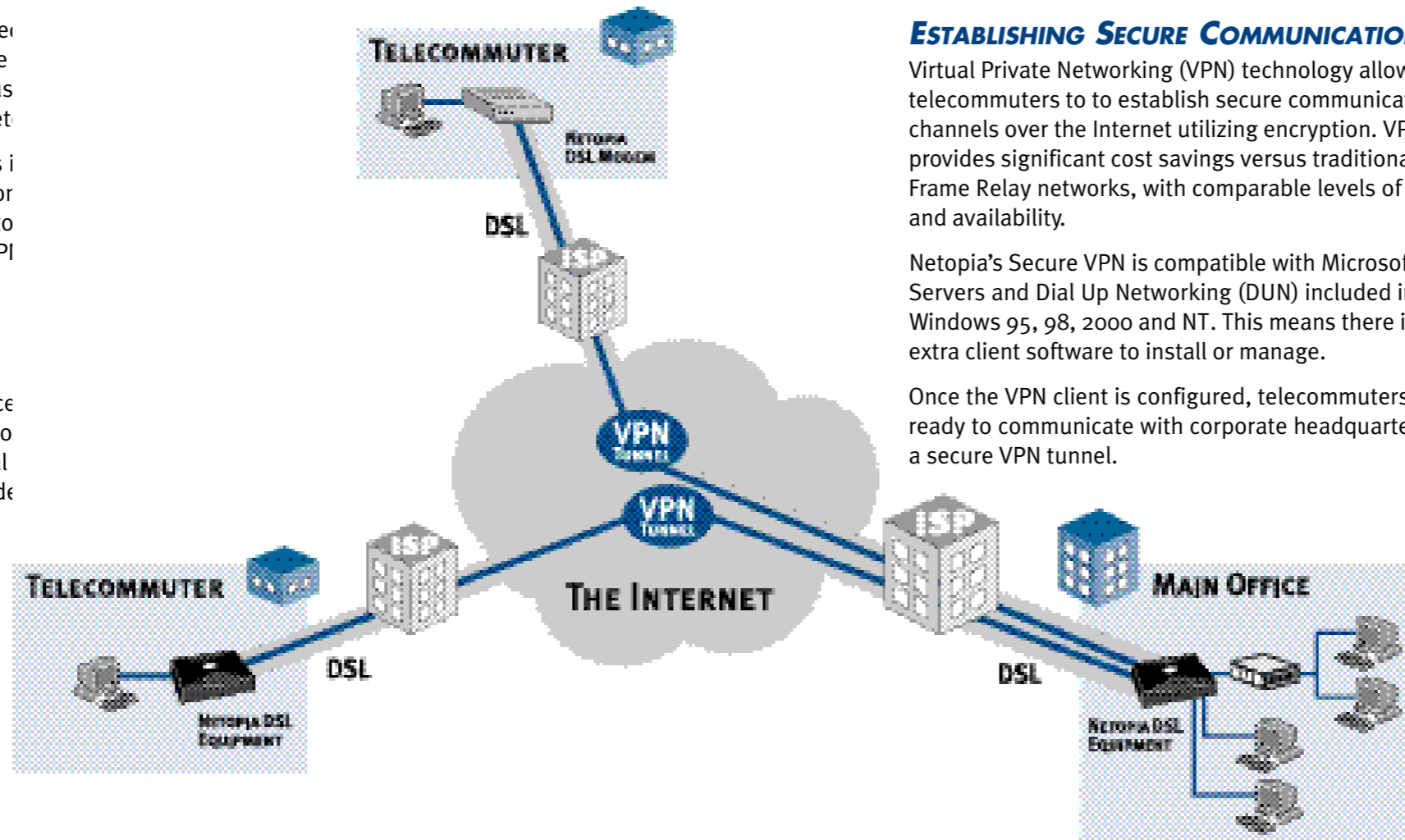
Telecommuters need quick and reliable access to important information located at the main office. A fast and 'always on' DSL connection is ideal for telecommuters because it cost-effectively provides a reliable, dedicated connectivity that can be over 50 times faster than analog modems.

Telecommuters face several key decisions when selecting the best equipment and DSL service to best fit their needs.

There are many types of DSL available to choose from. The most popular three types are ADSL, SDSL and IDSL. Most telecommuting applications require two-way communication, and to accommodate, the DSL line should have upstream bandwidth of at least 144 Kbps. For help in selecting the DSL, check out the Netopia DSL center at [www.dslcenter.netopia.com](http://www.dslcenter.netopia.com).

While most telecommuters are familiar with the idea of a DSL modem, there are several factors that make a router the better choice for DSL connections, the first being security.

With a fast, always on connection to the Internet, any computer that is connected to the DSL line is a potential target for hackers. To prevent security breaches, a firewall should be used to block unauthorized access and thwart potential attacks.



Netopia DSL routers have firewall capability built in that protects against hackers and even denial of service attacks.

Additionally, as more and more households have multiple computers that require Internet access, there needs to be a way for all devices to efficiently share the DSL line. Netopia DSL Routers enable multiple workstations to share a single DSL line.

Once connected to the Internet with a high-speed DSL connection, telecommuters will use VPN to create secure, encrypted communication tunnels with the main corporate office.

## ESTABLISHING SECURE COMMUNICATIONS

Virtual Private Networking (VPN) technology allows telecommuters to establish secure communications channels over the Internet utilizing encryption. VPN provides significant cost savings versus traditional private Frame Relay networks, with comparable levels of security and availability.

Netopia's Secure VPN is compatible with Microsoft's NT Servers and Dial Up Networking (DUN) included in Windows 95, 98, 2000 and NT. This means there is no extra client software to install or manage.

Once the VPN client is configured, telecommuters are ready to communicate with corporate headquarters using a secure VPN tunnel.

## COST-EFFECTIVE VPN

Using VPN with Netopia DSL Equipment is easy and cost-effective. Telecommuters simply use the Dial Up Networking VPN client that is included with Microsoft Windows to securely connect to the corporate LAN over the Internet.



## CONNECTING THE MAIN OFFICE

For telecommuters to securely access resources on the corporate LAN from the Internet, the main office must have Internet Equipment that enables VPN tunnels. Additionally, the main office also needs a fast, dedicated and reliable Internet connection that DSL provides.

Once connected with DSL, the main office needs only run through a few simple setup screens to configure the Netopia DSL Equipment to enable telecommuters to connect to the LAN using VPN.

Netopia DSL Equipment also comes equipped with the features and proven reliability that businesses require. Features like a built-in firewall for local area network security, a built-in 8-port Ethernet hub, dial backup options for increased reliability, and much more.

Netopia Routers provide tremendous flexibility to businesses by allowing migration to faster connection technologies as they become available, preserving initial hardware investment and simplifying setup by retaining LAN configuration.



# Get DSL!

The Netopia DSL Center makes it easy for your business to learn about and get DSL.

Educate yourself about everything your business needs to know about DSL, search for DSL availability, and compare service offerings from business-class Internet Service providers...ALLONLINE!

Check it out today at: [www.dslcenter.netopia.com](http://www.dslcenter.netopia.com)