

Configuring the Netopia R5200/R5300 for Leased Line

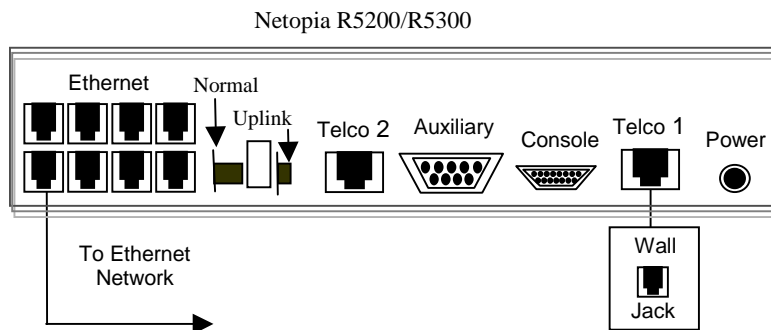
Setup:

The Netopia R5200 for 56k and R5300 for T1 has an internal CSU/DSU along with an auxiliary port to connect a modem for backup service. To access the internet your router requires only 3 connections:

1. Connect the Ethernet Cable (RJ45) from one of the Ethernet ports on the back of the router to your LAN. Use a straight through RJ45 cable if you're connecting to a hub or a cross over RJ45 if you're connecting directly to an Ethernet card in your PC.
2. Connect your 10BaseT cable (RJ45/RJ48) from the Telco port on the back of the router to the wall jack.
3. Connect the power cord and wait a few minutes while the router completes it's bootup process. Then check the link lights on the front panel.

Hooking up a Console to the Netopia:

To connect a terminal to the Netopia, use the mini-DIN-8 to DB-9 cable, connecting one end to the Netopia's Console port and the other end to a machine's serial port or modem port, whichever is applicable. A converter may be required if the only available COM port is DB25. Be sure to set the emulation software to VT100, 9600 Baud, 8 Bits, 1 Stop Bit, No Parity and Flow Control to None.



Configuration: (select Next Screen, Previous Screen or Esc for menu navigation)

Telnet to the Netopia and choose **Easy Setup...**

For full T1 or fractional T1 service complete the following Line Configuration information including the appropriate number of DSO Channels for your service (256k = 4 channels, full T1 = 24 channels):

Netopia R5300

Line Encoding...	B8ZS	
Framing Mode...	ESF	
Number of DSO Channels...	6	(6 x 64 = 384k service)
First DSO Channel...	1	
Contiguous Channels...	Yes	
Channel Data Rate...	Nx64k	
Data Link Encapsulation...	Frame Relay	

For 56k service complete the following Line Configuration information:

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Netopia R5200

Data Rate (kbps)...	56
Data Link Encapsulation...	Frame Relay
First DSO Channel:	1

Choose "**Next Screen**": Connection Profile 1: Internet

Connection Profile Name:	Internet	
Address Translation Enabled:	No	
IP Addressing...	Numbered	
Local WAN IP Address:	38.xxx.yyy.zzz	(Serial IP Address)
Local WAN IP Mask:	255.255.255.0	
Frame Relay Management Type...	ANSI (Annex D)	

Choose "**Next Screen**": IP Easy Setup

Ethernet IP Address:	38.aaa.bbb.1	(from assigned network)
Ethernet IP Subnet Mask:	255.255.255.0	(use assigned mask)
Default Gateway IP Address:	38.xxx.yyy.1	
Domain Name Server IP Address:	38.9.211.2	
IP Address Serving:	Off	

Choose "**Next Screen**": Easy Setup Security Configuration

Enter a user name and password for future access to your router configuration.

Write Access Name:	
Write Access Password:	

Select "**Restart Device**" to save the configuration. You will be prompted with the option to cancel or continue with the restart. Select **Continue**.

Telnet back into the router and choose **Advanced Configuration...**

Choose **WAN (Wide Area Network) Setup...**

Select **Frame Relay DLCI Configuration...**

Choose **Add DLCI...**

DLCI Name:	Internet	
DLCI Enabled:	Yes	
DLCI Number (16-991):	xxx	(assigned DLCI number)
Remote IP Address:	38.xxx.yyy.1	(from assigned network)

Choose **ADD DLCI NOW**

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Add the Backup Configuration:

Select **Add Connection Profile...**

Profile Name:	Backup
Profile Enabled:	Yes
IP Enabled:	Yes
IP Profile Parameters...	
IPX Enabled:	No
Data Link Encapsulation...	PPP
Data Link Options...	
Interface Group...	Backup
Telco Options...	

Choose **ADD PROFILE NOW**

Select **Data Link Options...**

Data Compression...	None
Send Authentication:	PAP
Send User Name:	username
Send Password:	*****
Receive User Name:	-

Esc back to **Add Connection Profile** Menu and select **Telco Options...**

Dial...	Dial Out Only
Number to Dial:	Access Number
Alternate Site to Dial:	
Dial on Demand:	Yes
Idle Timeout (seconds):	300

Esc back to **Add Connection Profile** Menu and select **IP Profile Parameters...**

Address Translation Enabled:	No
IP Addressing...	Unnumbered
Remote IP Address	38.1.1.1
Remote IP Mask	255.255.255.0
Receive RIP	Off
Transmit RIP	Off

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Press Escape to return to the **Add Connection Profile** Menu then select **Add Profile Now**.
The **WAN Configuration** Menu will appear. Select **Backup Configuration**.

Backup Parameters:	
Backup to Auxiliary Port...	Automatic
Requires Data Link Failure of...	2 Min
Ping Host Name or IP Address:	
Recovery to DDS...	Automatic
Requires Recovery of...	1 Min
Auto-Recovery on loss of Layer 2:	No
Auxiliary Port Setup:	
Data Rate (kbps)...	115.2
Modem Initialization String:	User Defined
Modem Dialing Prefix:	ATDT
Exported Services...	
Data Link Encapsulation is	Asynch PPP

Esc to **Main Menu** and select **Statistics, Utilities, Tests...** and **Restart System...**