

## Configuring the Netopia R3100 for LAN-ISDN Service

### Setup:

To setup your Netopia R3100 router the following cable connections should be made:

1. Connect the Ethernet Cable from the machine's Ethernet card to one of the Netopia R3100's Ethernet hub ports. Connect to the lowest number on the hub, starting with 1.
2. Connect the ISDN cable from the ISDN port on the back of the Netopia R3100 to the ISDN wall jack.
3. Connect the power cord to the power supply. Wait a few minutes for the Netopia R3100 to finish its diagnostics test, then check the front panel for link lights.

**Note:** If your Ethernet cable is connected to an external Hub, be sure to depress the Uplink button.

Hooking up a Console to the Netopia:

To start a console session, you must connect the DB-9 to DB-9 cable from the Netopia R3100 to a communications port on a PC. Be sure your emulation software is set to VT100, 9600 Baud, 8 Bits, 1 Stop Bit, No Parity and Flow Control to Hardware.

### Configuration:

Choose **Easy Setup...** from the Main menu:

**Switch Type...** (Provided by Telco)

**Directory Number 1:** (Your ISDN phone number)

**Directory Number 2:**

**SPID 1:**

**SPID 2:**

**PBX Prefix:** (Enter if necessary)

**Data Link Encapsulation...** PPP

**Note:** After entering Directory Numbers the router will detect and test the SPID's. You should see 'Pass' to the right of the SPID. If not, please contact your telephone company.

Choose **"Next Screen"**:

**Connection Profile Name:** Net

**Number to Dial:** (POP phone number)

**Address Translation Enabled:** No

**IP Addressing:** Unnumbered

**Remote IP Address:** 38.1.1.1

**Remote IP Subnet:** 255.255.255.0

**PPP Authentication...** PAP

**Send User Name:** LIXXXXXX (Your ISDN account number)

**Send Password:** \*\*\*\*\* (Your ISDN account password)

Choose **"Next Screen"**:

**Ethernet IP Address:** A.B.C.x (IP address of your router)

**Ethernet IP Subnet Mask:** 255.255.255.0

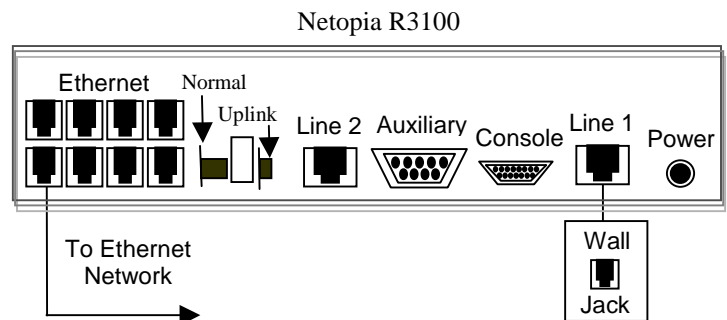
**Domain Name:** (yourdomain.com)

**Primary Domain Name Server:** 38.9.211.2

**Secondary Domain Name Server:** 38.9.212.2

**Default IP Gateway:** 38.1.1.1

**IP Address Serving:** Off



## Configuring the Netopia R3100 for LAN-ISDN (cont'd)

Choose **"Next Screen"**:

On this screen enter a Write Access Name and Write Access Password to protect our router's configuration. Be sure to remember these, since you will be prompted for them each time you access the router.

Choose **Restart Device**:

Next, choose **WAN Configuration...** from the Main menu:

Then select **Add Connection Profile...**

**Profile Name:** Net  
**Profile Enabled:** Yes  
**IP Enabled:** Yes  
IP Profile Parameters...  
**IPX Enabled:** No  
**Data Link Encapsulation...** PPP  
Data Link Options...  
Telco Options...

Select **IP Profile Parameters...** from the Add Connection Profile... menu:

Most of these have been set in the Easy Setup. Be sure Receive and Transmit RIP are set to off. In addition, filter sets can be added or removed from this screen.

**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

Now choose **Data Link Options...** from the Add Connection Profile... menu:

**Data Compression...** None  
**Send Authentication...** PAP  
**Send User Name:** LIXXXXX (Your account id)  
**Send Password:** \*\*\*\*\* (Your account password)  
**Receive User Name:**  
**Receive Password:**  
**Channel Usage...** Dynamic  
**Bandwidth Allocation...** Auto

Press Esc when finished and then choose **Telco Options...**

**Initiate Data Service...** 64 kb/sec (Alternate: 56 kb/sec)  
**Dial...** Dial Out only  
**Number to Dial:** (POP Phone Number)  
**Alternate Site to Dial:** (leave blank)  
**Dial On Demand:** Yes  
**Idle Timeout (seconds):** XXX (Number of seconds)  
**Callback:** No

All changes take effect immediately. Exit your telnet session and your internet connection should be ready to go. With Dial On Demand set to yes, sending an e-mail or calling up a non-chached web page with your browser will have the router automatically dial.