netopia®

M A K I N G   B R O A D B A N D   W O R K ™

CAYMAN® 3346-ENT
CAYMAN® 3356-ENT

Quickstart Guide

ADSL
ROUTER

V. 24/07/03
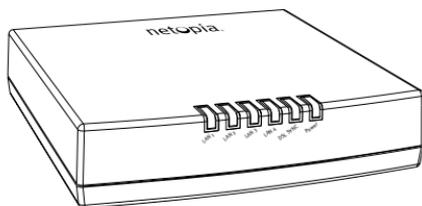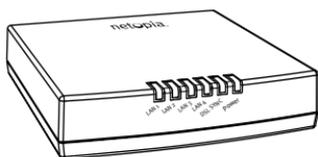
1. UNPACK THE NETOPIA CAYMAN

Check your package contents:

Netopia Router: **Cayman 3346-ENT**
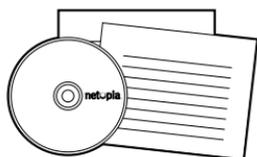or **Cayman 3356-ENT**

Power Supply
and Power Cord

RJ-11 Telephone Cable
(lavender)

RJ-45 Ethernet Cable
(yellow)

CD-ROM and Quickstart Guide

2. SET UP THE NETOPIA CAYMAN

1. **After unpacking your Cayman Router shipping carton, decide where you want to locate the Router.**

   You should install the Netopia Cayman near your computer or another location that permits easy access and visibility. You can lay the Netopia Cayman flat, or mount it on a wall. Make sure any Ethernet cables are kept away from power cords, fluorescent lighting fixtures, and other sources of electrical interference. Put the Netopia Cayman in a location where air can circulate freely around it.

2. **Connect the Power Supply to the power jack on the back panel of the Netopia Cayman. Connect the Power Cord to the Power Supply and plug it into an appropriate electrical outlet.**

   Turn on the power using the power switch. The **Power** light should come on solid green.

3. Connect the Router to the phone wall jack that supports your ADSL service.

Insert one end of the lavender telephone cable in the DSL port on the Cayman Router back panel. Insert the other end of the telephone cable into the telephone jack connected to your ADSL service. The **DSL SYNC** indicator light should blink for up to two minutes and then come on solid green.

4. Connect the Netopia Cayman to create your Ethernet local area network (LAN).

Connect the yellow Ethernet cable to your first computer and to a LAN port on the back of the Cayman Router. The **LAN** light for the port where you connected the cable should blink briefly and come on solid green.

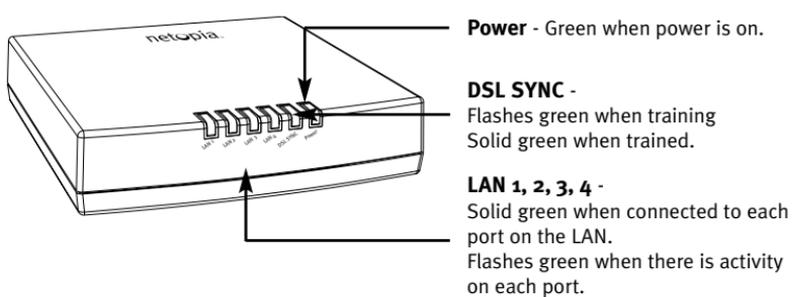**Note about connecting your network:**
After you have connected your first computer, please finish configuring your router and Internet access before connecting any other computer or device.

When your router is configured and your Internet access is up and running, connect each additional computer or device to a switch port on the back of the Cayman Router with an Ethernet cable (maximum length 100 meters). If you need more than four ports, connect a hub or a switch to the Netopia Cayman using a standard Ethernet cable.
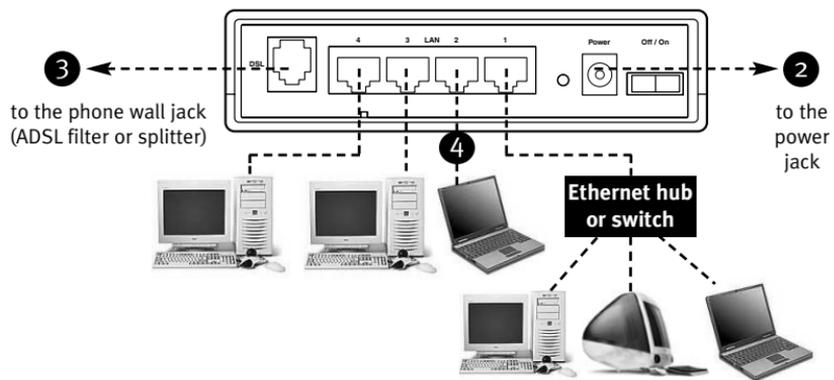
When all of your connections are made, the status LEDs on the front of your Netopia Cayman will light, according to the following diagram:

Cayman 3346-ENT & Cayman 3356-ENT Front Panel

Power - Green when power is on.

DSL SYNC -
Flashes green when training
Solid green when trained.

LAN 1, 2, 3, 4 -
Solid green when connected to each port on the LAN.
Flashes green when there is activity on each port.

The following instructions assume that you want to use the automatic configuration and address sharing features of the Router to provide IP information to devices on your local Ethernet network.

1. Configure your computer to use an IP address on the same TCP/IP network as the Cayman Router:

⋯⋗ Windows 95, 98 and ME

On your computer, go to:

Start ⟶ **Settings** ▸ ⟶ **Control Panel**

Open the network window by double-clicking the **Network Icon.** (Windows ME users: if the network icon is hidden, click on the "View All Control Panel Options" - a link at the left-side of the control panel window)

Network

In the list of network components, highlight the entry that says **"TCP/IP (your Ethernet card here)"**
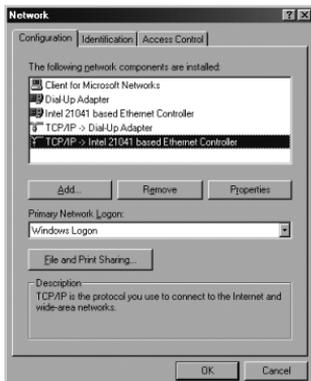
and click **Properties**

In the **TCP/IP Properties** window that pops up,

select ⦿ **Obtain an IP address automatically** and click **OK**

Click the **DNS Configuration** tab, select ⦿ **Disable DNS** and click **OK**

Click the **Gateway** tab, remove any installed Gateways and click **OK**

Click the **OK** button again. When prompted, restart your computer.

Proceed to the next section **"3. Configure the Netopia Cayman"**.

⋯⫸ **Windows 2000 and XP**

- Right click on the **My Network Places** icon on your Windows desktop and select **Properties** from the drop-down menu.
- Right click on your **Local Area Connection** and select **Properties**.
- Select **Internet Protocol [TCP/IP]**.
- Click the **Properties** button.
- Click the **Obtain IP address automatically** radio button and the **Obtain DNS server address automatically** radio button. Click the **OK** button.
- Restart your PC.
- Proceed to the next section **"3. Configure the Netopia Cayman"**.

⋯⫸ **Macintosh Mac OS**

Your Macintosh must be using Mac OS 7.6.1 or higher.

- Select **Control Panels** from the Apple menu.
- Open the **TCP/IP Control Panel.**
- Choose **Connect: Via Ethernet.**
- Choose **Configure: Using DHCP Server.** Save and close the "Control Panels" window. You do not have to restart the Macintosh.
- Proceed to the next section **"3. Configure the Netopia Cayman"**.

⋯⫸ **Mac OS X users**

- Launch **System Preferences** from the Dock or from the Apple Menu.
- Select the **Network** Preference Pane.
- Choose **Show: Built-in Ethernet.**
- Click the **TCP/IP** tab.
- Choose **Configure: Using DHCP.**
- Quit System Preferences. You do not have to restart the Macintosh.
- Proceed to the next section **"3. Configure the Netopia Cayman"**.

2. To connect additional computers that will use the address sharing features of the Netopia Cayman, repeat step 1.
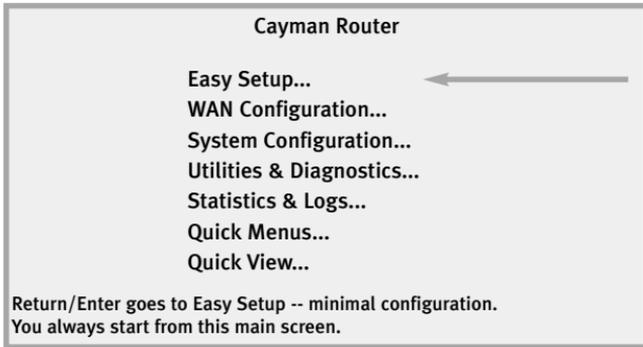
3. Configure the Netopia Cayman

1. Run a Telnet application from the computer on the same network as the Router.

- **Windows users:** click on the **Start** menu, select **Run**, and in the resulting entry box, type **telnet 192.168.1.1**
- **Macintosh OS X users:** launch the **Terminal** application, either from the Dock or from the Utilities folder, and type **telnet 192.168.1.1**
- **Classic Macintosh OS users:** you need to install the NCSA Telnet application, included on the Netopia CD, or freely available from user groups or other freeware sources. Then launch **NCSA Telnet** and type **192.168.1.1**
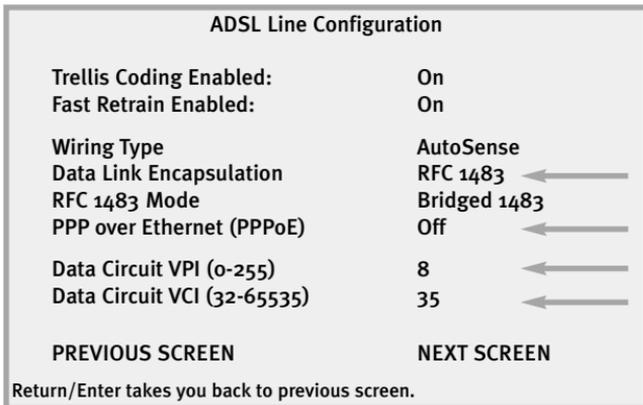
In the Telnet screens, move from field to field with the **arrow keys**. Select/execute items with the **Return** key, and toggle items (Yes/No, On/Off, ...) with the **Tab** key followed by **Return**.

A/ The Telnet window displays the **Main Menu**.

Cayman Router
Easy Setup... ←———————
WAN Configuration...
System Configuration...
Utilities & Diagnostics...
Statistics & Logs...
Quick Menus...
Quick View...
Return/Enter goes to Easy Setup -- minimal configuration.
You always start from this main screen.

Select **Easy Setup** and press **Return.**

B/ The **ADSL Line Configuration** screen appears.

ADSL Line Configuration	
Trellis Coding Enabled:	On
Fast Retrain Enabled:	On
Wiring Type	AutoSense
Data Link Encapsulation	RFC 1483 ←———
RFC 1483 Mode	Bridged 1483
PPP over Ethernet (PPPoE)	Off ←———
Data Circuit VPI (0-255)	8 ←———
Data Circuit VCI (32-65535)	35 ←———
PREVIOUS SCREEN	NEXT SCREEN
Return/Enter takes you back to previous screen.	

Make any changes that your ISP requires.

If necessary, turn on PPPoE or PPPoA.

Select **NEXT SCREEN** and press **Return.**

⋯⟩ If your ISP uses **PPPoE**, toggle **PPP over Ethernet** to **On** with the **Tab** key followed by **Return**. If necessary, change the VPI and VCI to match those used by your ISP.

⋯⟩ If your ISP uses **PPPoA**, toggle **Data Link Encapsulation** to **PPP** and configure the PPPoA default profile.

If your ISP uses PPPoA, follow the instructions (the example below is based on ADSL "Wires Only" in the UK - parameters may change according to your ISP):

```
                    ADSL Line Configuration

    Trellis Coding Enabled:          On
    Fast Retrain Enabled:            On

    Wiring Type                      AutoSense
    Data Link Encapsulation          PPP
    PPP Mode                         VC Multiplexed  ←—

    Data Circuit VPI (0-255)         0          ←——
    Data Circuit VCI (32-65535)      38         ←——

    PREVIOUS SCREEN                  NEXT SCREEN

  Return/Enter takes you back to previous screen.
```

Make any changes that your ISP requires.

Select **NEXT SCREEN** and press **Return.**

If necessary, toggle **PPP Mode** from **VC Multiplexed** to **LLC SNAP** and change the VPI and VCI to match those used by your Internet Service Provider.

Please note:
This example is based on ADSL "Wires Only" in the UK. ADSL "Wires Only" uses PPPoA and different VPI/VCI than those by default. As a result, you need to set **Data Link Encapsulation** to **PPP**, **VPI** to **0** and **VCI** to **38**. PPP Mode remains VC Multiplexed by default. Parameters may change according to your ISP!

Proceed to the next screen.

C/ The **Connection Profile 1: Easy Setup Profile** screen appears.

The example below is based on IP Easy Set Up using NAT by default.

```
               Connection Profile 1: Easy Setup Profile

    Address Translation Enabled:        Yes
    IP Addressing...                    Unnumbered

    Remote IP Address:                  127.0.0.2  ←——
    Remote IP Mask:                     255.255.255.255

    PPP Authentication...               CHAP       ←——
    Send Host Name:        login                   ←——
    Send Secret:           password_               ←——

    PREVIOUS SCREEN                     NEXT SCREEN

  Return/Enter brings you to next screen.
  Enter basic information about your WAN connection with this screen.
```

Make any changes required.

Select **NEXT SCREEN** and press **Return.**

Set the **Remote IP Address** to **127.0.0.2** - this will allow the Netopia Cayman to automatically pick up the IP address of the remote gateway of your Internet Service Provider. If you know this address, you can also enter it here.
Set **PPP Authentication** to the mode used by your ISP. In the BT Wires Only example this would be **CHAP** mode. In the **Send Host Name** and **Send Secret** fields, enter the **login** and **password** supplied by your ISP. Proceed to the next screen.

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D/ The **IP Easy Setup** screen appears. Configure your LAN parameters here. The example below is based on IP Easy Set Up using NAT and DHCP Server.

IP Easy Setup	
Ethernet IP Address:	192.168.1.1
Ethernet Subnet Mask:	255.255.255.0
Domain Name:	_____
Primary Domain Name Server:	0.0.0.0
Secondary Domain Name Server:	0.0.0.0
Default IP Gateway:	127.0.0.2
IP Address Serving:	On
Number of Client IP Addresses:	100
1st Client Adress:	192.168.1.100
PREVIOUS SCREEN	NEXT SCREEN

Enter an IP address in decimal and dot form (xxx. xxx. xxx. xxx).
Set up the basic IP & IPX attributes of your Netopia in this screen.

Make any changes required.

The default IP gateway must match the Remote IP address value that you set on the Connection Profile screen

Select **NEXT SCREEN** and press **Return.**

The **Domain Name** and the IP addresses of your **Primary** and **Secondary Domain Name Server** are dynamically acquired by the router when connecting to the Internet. However, we recommend that you enter manually these information as supplied by your ISP. The other parameters allow you to change, if necessary, the default settings and the DHCP Server features of your Cayman Router.

E/ The **Easy Setup Security Configuration** screen appears.

Easy Setup Security Configuration
It is strongly suggested that you password-protect configuration access to your Netopia. By entering a Name and Password pair here, access via serial, Telnet and Web server will be password protected. Be sure to remember what you have typed here, because you will be prompted for it each time you configure this Netopia.
Write Access Name: _____
Write Access Password: _____
PREVIOUS SCREEN   TO MAIN MENU   RESTART DEVICE

Configure a Configuration Access Name and Password here.

Enter a **Name** and **Password** to limit access to the Router's configuration screens. Be sure to remember what you have typed because you will be prompted for it each time you configure your Router. Select **RESTART DEVICE** and press **Return.**

2. The Cayman Router will then restart and your settings will take effect. Congratulations! Your installation is complete. You can now surf to your favourite Web sites. If you have any questions or encounter problems, refer to the detailed documentation on the Netopia CD, or contact our technical support. Answers to many frequently asked product-related questions are also available on-line at: http://www. netopia.com/support

Netopia Europe

2, rue du Docteur Lombard
92130 Issy-Les-Moulineaux
FRANCE
tel: +33 1 45 29 91 00
fax: +33 1 45 29 91 09
info@netopia.fr

Netopia UK

c/o M. Nathan-Amissah
58 Poulton Avenue
Sutton
Surrey SM1 3PY
UNITED KINGDOM
info@netopia.co.uk

Netopia Deutschland

Am Fuchsberg 4
D-21423 WINSEN
DEUTSCHLAND
info@netopia.de

Netopia Nederland

Becanusstraat 13
Suite B04
6216 BX Maastricht
NEDERLAND
tb2europe@netopia.com

Internet

www.netopia.com
www.netopia-europe.com
www.netopia.co.uk
www.netopia.fr
www.netopia.de
www.netopiaAG.ch
www.netopia.it

HOTLINE

⋯⟩ **in English**
+44 (0)20 7295 00 36
support@netopia.co.uk

⋯⟩ **en français** (0,15 Euros HT/min)
N° local France : 0825 06 2424
DOM TOM : +33 (0)1 41 83 44 71
support@netopia.fr

⋯⟩ **auf Deutsch (für Swisscom &
Bluewin Kunden)**
+41 (0)900 000 106 (2,5 CHF/min)
support@netopiaAG.ch