CONTENTS

Click a title in this table of contents to access the corresponding section

1.	YC	OUR HERCULES WIRELESS N ROUTER	3
	1.1.	Recommendations	3
	1.2.	Specifications	3
	1.3.	Minimum system requirements	4
	1.4.	Box contents	5
	1.5.	Front face overview	6
	1.6.	Connectivity overview	7
2.	INS	STALLING YOUR HERCULES WIRELESS N ROUTER	8
	2.1.	How to position your Hercules Wireless N Router	8
	2.2.	Uninstalling your modem or disabling the automatic connection to your modem	9
	2.3.	Launching the Hercules Wireless N Router installation Assistant	10
	2.4.	Installing the Hercules Wireless N Router	11
	2.5.	Connecting to a network with Wi-Fi Protected Setup™	17
3.	WI	FI MANAGER N, THE VERSATILE UTILITY	19
	3.1.	Opening the doors of WiFi Manager N	19
	3.2.	Changing the WiFi Manager N password	20
	3.3.	Navigating within the WiFi Manager N interface	21
	3.4.	Easily managing your router's WiFi signal	22
		3.4.1. Disabling/re-enabling WiFi in a fraction of a second	22
		3.4.2. Limiting broadcasting of your WiFi network to your home	22
		3.4.3. Planning the WiFi operation periods	23
	3.5.	Sharing your Internet connection via the router	24
		3.5.1. Selecting your Internet connection	24
	~ ~	3.5.2. Testing your Internet connection	26
	3.6.	Mastering your WiFi network at your fingertips	27
		3.6.1. Personalizing your WiFi network	27
		3.6.2. Securing your WIFI network	28
		3.6.3. Limiting access to your WiFi network to certain WiFi computers or devices	31
		3.6.4. Disabiling your WiFi network in WiFi Manager N.	33
	27	3.0.0. Re-enabling your wiFi network in wiFi Manager N	33
	3.7.		34
4.	WE	ELCOME TO THE WIRELESS ATTITUDE™!	35
	4.1.	A few important points to bear in mind before getting started	35
	4.2.	Computers running windows vista: Sharing tolders, a printer or an ADSL connection	35
		4.2.1. Enabling sharing	30
		4.2.2. Williows Visia. Sharing public of personal folders	30
		4.2.3. Computers rumming vymoows visia. Accessing snared loders	40
		4.2.4. VIII JOWS VISICI. Shall II y d pill ILEI	40
		4.2.5. Computers running windows visid. Accessing the stated printer	4Z
	4 2	T.2.0. willows visia. Sharing an ADSL connection in an initiastructure type fieldwork	
	4.J.	4.3.1 Windows XP: Using the Network Setup Wizerd in an Infrastructure petwork	40
		4.3.2 Windows XP: Sharing the Network Setup Wizard in an Initiasu dolute fielwork	 50
		433 Windows XP: Δrcessing shared folders	
		43.4 Windows XP: Sharing a printer	51
		435 Windows XP: Modifying a workgroup name	53

		4.3.6.	Windows XP: Manually enabling or disabling your adapter's WiFi connection (advanced users)	54
5.	w	FI MANA	GER N FOR ADVANCED USERS	55
	5.1.	Configu	uring your WiFi network's advanced options	55
	5.2.	Configu	uring your Internet firewall	56
		5.2.1. [°]	Opening doors in your firewall to put your camera online or authorize access for	
			a computer to certain Internet services	56
		5.2.2.	Limiting access of one of your network computers to Internet services	58
		5.2.3.	Redirecting Internet requests to a specific computer	59
		5.2.4.	Protecting yourself from Internet attacks with the DoS (Denial of Service)	
			function	60
	5.3.	A toolb	ox with multiple facets	60
		5.3.1.	Restoring your original settings	60
		5.3.2.	Loading and saving a configuration	61
		5.3.3.	Updating firmware	62
	5.4.	Other a	advanced options	63
		5.4.1.	Assigning priority to a type of data in the event of an overloaded network	63
		5.4.2.	Configuring the DHCP server	63
		5.4.3.	Facilitating connection of devices with the UPnP protocol	64
		5.4.4.	Linking an IP address to a dynamic domain name server	64
		5.4.5.	Selecting router or access point mode	65
	5.5.	Produc	t information	66
6.	GL	.OSSARY	,	67
7.	TE	CHNICAL	_ SUPPORT	71
8.	W	ARRANT	ſ	71
9.	EN	IVIRONM	ENTAL PROTECTION RECOMMENDATION	72

1. YOUR HERCULES WIRELESS N ROUTER

Your Hercules N router opens up the doors to a new world of WiFi for you: one of high-speed wireless communications and extended coverage. In keeping with the trend of Web 2.0, your Hercules N router takes interactivity with users even further and allows you to share your Internet access to watch high-definition videos or transfer large files without any worries. It also allows you to share your devices and your data between several computers, while at the same time doing away with the need for kilometers worth of cables.

Moreover, Hercules has equipped your Hercules N router with a new functionality, **WiFi signal management**, which offers three novel functions adapted to each user. Firstly, a button located on the router allows you to immediately **switch the WiFi function off or on** whenever you like, in order to save energy. Next, using WiFi Manager N, the settings configuration software included with the Hercules Wireless N Router, you can **adjust the WiFi signal strength** to only cover the boundaries of your home. Finally, you can **plan the WiFi operation periods** based on an hourly/daily/weekly schedule, according to your habits. These functions will be described in detail later on in this manual.

Great care has been taken in designing your product. Both simple to operate and user-friendly, it is well suited to beginners and advanced users alike.

And now, it's time to learn about your new product and join in the Wireless Attitude™!

1.1. Recommendations

- Never open up your Hercules Wireless N Router, as you risk damaging its internal components.
- In order to avoid the risk of fire or electrical discharge, keep your router away from:
 - rain or humidity, as well as all fluids (water, chemical products and any other liquids),
 - sources of heat such as heaters, stoves and any other heat-producing devices (including amplifiers),
 - direct sunlight.
- Do not cover your router.

- Unplug the router's power cable if you do not plan on using it again for an extended period of time. To unplug the power cable, take hold of and pull on the plug. Never pull on the cable itself.

- Disconnect the router before cleaning. Use a soft cloth for cleaning and avoid using aerosol cleaners.

1.2. Specifications

Your Hercules Wireless N Router is equipped with several functionalities: 802.11n wireless WiFi router, 10/100 LAN switch and Internet firewall.

- Compatible with the following WiFi protocols:
 - 802.11b: 1, 2, 5.5 and 11Mbits/s data rates in the 2.4GHz band
 - 802.11g: 6, 9, 12, 18, 24, 36, 48 and 54Mbits/s data rates in the 2.4GHz band
 - 802.11n: data rates in the 2.4GHz band, varying depending on the bandwidth of the channel used (20 or 40MHz). Values are classified from MCS0 to MCS15 and vary from 7.2 to 144.44Mbits/s for 20MHz and from 15 to 300Mbits/s for 40MHz
- Supports MIMO 2T2R technology (improved data rates and coverage)
- DSSS/CCK frequency range and OFDM modulation from 2.412GHz to 2.484GHz (13 channels)
- Compatible with the following security protocols:
 - WEP with 64 and 128-bit key length

- WPA-PSK with TKIP or AES encryption (802.11i security protocol)
- WPA2 and WPA2-PSK with TKIP and AES encryption (802.11i security protocol)
- Supports NAT/NAPT IP sharing
- Filtering by MAC address/IP address, URL blocking
- Anti-DoS firewall
- WMM mode support (Wi-Fi MultiMedia[™])
- WPS (Wi-Fi Protected Setup™)
- WAN mode support (PPPoE, automatic DHCP, static IP)
- LAN mode support
- Router mode support
- Supports virtual server and DMZ
- Supports WDS mode
- Supports special applications (Port Triggers)
- Supports DDNS (DynDNS, TZO) and QoS
- Supports VPN pass-through (IPSec/PPTP)
- 802.11n wireless access point
- RF specification: frequency band = 2.4GHz 2.484GHz
- Maximum transmission power: 100mW
- 2 integrated antennas
- 4 RJ-45 connectors for a Fast Ethernet 10/100Mbps connection
- Auto-MDIX support (automatic detection of crossed cabling)
- Conforms to the IEEE 802.3u specification
- IEEE 802.3x flow control support in Full Duplex mode
- External DC power supply. Input: 200~240V, 50/60 Hz; output: 9V DC/1 A



- WiFi on/off button
- WPS button (Wi-Fi Protected Setup[™])
- Restore factory settings button
- White LEDs on the unit's front face, visible only when the router is powered on
- Software update via Ethernet port
- Router configuration software
- System status and security information

1.3. Minimum system requirements

To access configuration settings:

- Intel® Pentium® III 1GHz processor or higher
- 512MB RAM
- Ethernet 10/100 RJ45 network card
- CD-ROM drive
- Operating system: Windows XP with Service Pack 2, Windows XP Tablet PC Edition or Windows Vista® Home Premium Edition, Ultimate, Business or Enterprise Edition, including 64-bit editions, Microsoft® Windows® 7

To access the Internet:

- Active Internet line
- Internet Explorer 6.0, Netscape Navigator 4.7 or Mozilla Firefox 1.0 or higher
- ADSL Ethernet modem, cable modem, Internet "Box" (Livebox[®], Freebox[®], SFR Neufbox[®]...)

1.4. Box contents

Please verify that the following elements are present in your Hercules router box:

- Hercules Wireless N Router
- CD-ROM containing the installation Assistant and User Manual in PDF format
- Quick Start Guide in English
- Ethernet cable
- Power adapter
- Hercules Wireless N USB mini Key (optional)

1.5. Front face overview



The LEDs are only visible when the router is powered on.

U : Power LED: flashes when using the restoration function.



: WiFi on/off button: lit up only if the WiFi function is enabled; flashes if the WPS function is working .

Note: The WiFi settings (planning the operation periods, for example) are not lost if you switch off the WiFi function with this button.



: WiFi LED: lit up when the WiFi connection is active. Flashes during WPS connection process.



1 : 4 LEDs corresponding to the 4 Ethernet ports: the LED is lit up when a device is connected to the

🕹 : Internet LED: lit up when the Ethernet cable is connected to the 💰 WAN connector. Flashes during data transfer

1.6. Connectivity overview



D Power plug to connect the power adapter.

Pour Ethernet ports allowing your Hercules router to be connected to 4 desktop computers and/or laptop computers and/or game consoles equipped with Ethernet (RJ-45) ports and/or devices (webcam...) in order to create a network.

③ RJ-45 WAN port allowing you to connect an ADSL modem, cable modem or Internet "Box" to your Hercules router.

 $\textcircled{\sc bar}$ Restore factory settings button/WPS button (Wi-Fi Protected Setup^m)

Pressing this button for **5 seconds** enables the **WPS function**. The WiFi on/off button flashes to indicate the start of the initialization sequence.

Pressing the button for **more than 10 seconds** enables the **restoration** function. During this sequence, the WiFi on/off button and the power LED flash.

2. INSTALLING YOUR HERCULES WIRELESS N ROUTER

Your Hercules Wireless N Router has been designed to be simple to use and install. If you are new to working with wireless products, we invite you to first follow the advice presented in chapters **2.1 to 2.3**. Otherwise, you can proceed directly to chapter **2.3**. Launching the Hercules Wireless N Router installation Assistant, which explains how to install your Hercules Wireless N Router step by step.

2.1. How to position your Hercules Wireless N Router

Remove the router and the power adapter from the box.

To help you select the best spot to position your Hercules router, we are pleased to offer you the following tips, which you may adapt according to your environment (the number of rooms, computers, floors in your home, the presence of any obstacles, the locations of power and telephone plugs...).

- Position the router near your modem (ADSL, cable or Internet "Box") and a power outlet.
- Try to place your router in a room centrally located in relation to your other computers and WiFi devices.
- Keep a minimum distance of 2m between the router and any computers and WiFi devices.
- If you have several computers or WiFi devices on different floors in your home (on the ground floor and the second floor, for example), you should ideally try to place your Hercules router on the ground floor.

Your router's WiFi performance may be greatly affected by certain obstacles, such as the presence of paper (a bookcase), metal, water (an aquarium) or a wall made of reinforced concrete between the Hercules router and any WiFi adapters.

2.2. Uninstalling your modem or disabling the automatic connection to your modem

If you already have an Internet "Box" or Ethernet modem connected to your computer, we recommend that you **uninstall** it or **disable the automatic connection** to this modem. The objective in doing so is to establish the Internet connection via the TCP/IP local area network created by the Hercules router, and no longer directly via your ADSL modem.

This procedure only applies if you connect to the Internet via an Ethernet modem. If you have a USB modern, you cannot connect the USB modern to your Hercules router and access the Internet.

If you decide to uninstall the modem's drivers:

- Switch off and then disconnect your modem from your computer's Ethernet port.
- Uninstall the software supplied by your service provider, as well as the modem's drivers. For more information, please refer to your modem's user manual.
- Now connect your modem to the Internet port on your Hercules router.

If you decide to disable the automatic connection to the modem:

In order to avoid software conflicts, please follow the procedure described below:

- Open your Internet Explorer browser.
- Click Tools/Internet Options.
- The Internet Options window is displayed.
- Select the Connections tab.



Scenario 1: your ISP appears in the Internet Options window.

- Disable the automatic connection to your modem by selecting the **Never dial a connection** option.
- Click OK.



Scenario 2: your ISP does not appear in the Internet Options window.

The automatic connection is managed directly by the software furnished by your ISP.

 Refer to the user manual for your ADSL modem or for the software furnished by your ISP for details on how to disable the automatic connection and/or for the Internet connection to be established via a local area network (TCP/IP).

Reminder: it is the Hercules router that will create a local area network through which the computers will access the Internet.

You can also find information on our website (FAQs etc.): www.hercules.com.

2.3. Launching the Hercules Wireless N Router installation Assistant

The Assistant, available on the CD-ROM included with the router, will guide you through the different steps of the installation. To help you with the installation, each of the steps is described below.

- Insert the included CD-ROM into your CD-ROM drive.

The installation Assistant appears automatically.

If the installation menu is not launched automatically:

- Double-click My Computer (Windows 2000/XP) or Computer (Windows Vista).

- Double-click

- Double-click Setup.exe, if necessary.

The Welcome page appears. Click Setup.

The Assistant will launch the installation procedure for your router, as well as for the associated software, WiFi Manager N, using Adobe® AIR™. If Adobe® AIR™ is not installed on your computer, follow the on-screen instructions once you have clicked the **Setup** button.



2.4. Installing the Hercules Wireless N Router

Step 1 - Connecting

- Connect the Ethernet cable, included with your modem, to the Internet port on your router, and connect the other end of the cable to one of the Ethernet ports on your modem, Internet "box" or modem router.



If you are unable to connect your router to the modem and to the computer at the same time (if, for example, the router is located in a different room), click \Rightarrow . At the end of the installation, you will be prompted to connect your router to the modem.

The WiFi LED stays lit up. The Internet (WAN) LED lights up and flashes during data transfers.

- Click 🔶.

Step 2 - Connecting

- Connect one end of the included Ethernet cable to one of the four Ethernet ports on your Hercules Wireless N Router, and connect the other end to your computer's Ethernet port.

The LED corresponding to the number of the Ethernet port you have selected lights up.



- Click 🔶

Step 3 - Connecting

- Connect your Hercules router's power cord to the power connector, and plug the power adapter into an electrical outlet.



- Click 🔶

Step 4 - Configuring

During this step, the installation Assistant proposes to carry out the Internet configuration. After having verified the proper connection to the router, the Assistant will automatically search for your Internet connection settings.

	company course		
4	Please wait; the router will now automatica Internet connection settings.	illy search for any availal	ble
	Connecting to the router	0	
	Verifying the Internet connection	0	
	Connecting 2%	-	
5			=

- If the procedure is successful, click 📂.

- If the verification fails, you must manually enter the connection information: select the connection type from the list offered, and all of the other items of information (DHCP, static IP...) referring to the information supplied by your Internet service provider.

Your connection's se required to input s	ttings could not be detected a ome settings manually. To do	utomatically. You may be so, please select your
connection type in th he Internet, you can	e list above. If your modem is skip this configuration step by cl	not currently connected to icking the button below.
	DHCP	
	Static IP	
	PPPoE	
	РРТР	
	L2TP	

- Click is to proceed to the next screen.

At the end of the procedure, a screen indicating the connection status should appear.

- Click 🔶.

The following screen displayed hereafter appears if the installation Assistant has detected the IP address of a modem router. This means that the router/access point is connected to another router which already has the routing and DHCP server functions. You can keep the router/access point as your router, or set it as an access point (**recommended**).



- Click 🔶 to continue.

Step 5 - Defining the router access settings

- Enter the router access password (by default, 123456).

		Sum Creater			A State State
	5 Plea	ase define a password to a	access your router's setti	ngs.	
		Pas	sword: 123458		
<	•				->

Step 6 - Defining the router access settings

- Enter the name of your network (by default, Hercules).

Connecting	Configuring	Settings	Status	
6 Ph	ease provide a name for y	rour WiFi network.		
_				
	WiFi network	K name : Hercules		
L -				4
				2.4



Step 7- Defining the router access settings

- Enter the security level for your network and the corresponding key. In order to get a good idea of the differences between the different levels of security, we invite you to consult section **3.6.2 Securing your WiFi** network.



- Click 🔶

Step 8 - Connecting to the Internet via WPS



Installation of your **Hercules Wireless N Router** is now complete. Before moving on to installation of **WiFi Manager N**, the software allowing you to configure and view your router's settings, you can discover through the screen shown above how to very easily connect via **WPS** using the WPS quick connection button.

For more information on connection via WPS, please refer to section 2.5. Connecting to a network with Wi-Fi Protected Setup™.

- Click 🔶.

Step 9 - Connection status

All of the information relating to the connection of your Hercules Wireless N Router is displayed in this screen.

Congratulations! The setup is displayed below:	s now finished. Your router's status is
Internet connection status	Cannact
Internet connection status:	Connietz
WiFi network name :	Hercules
WiFi security key:	12345670
Router access password:	123456



End of installation

The Assistant will now install WiFi Manager N, the software allowing you to configure and view your Hercules Wireless N Router's settings.

- Click is to start the installation.
- Follow the on-screen instructions.

To learn more about the advanced functionalities available in WiFi Manager N, please refer to section 3. WiFi Manager N, the versatile utility.

To learn about practical applications for your WiFi devices, please refer to section 4. Welcome to the Wireless Attitude of this manual.

2.5. Connecting to a network with Wi-Fi Protected Setup™

If connecting to a WiFi network and configuring it seems like too much trouble to you, you can use the integrated **WPS (Wi-Fi Protected Setup™)** functionality, indicated on the product or packaging by one of the following logos:



What is WPS (Wi-Fi Protected Setup™) ?

WPS is a technology which simplifies the connection procedure to a wireless network between a WPScompatible device (your Hercules Wireless N Key, for example) and your Hercules Wireless N Router. Different connection methods are available to you: simply click a button located on the router or in WiFi Manager N, or enter the PIN code of the device to be connected (your Hercules Wireless N Router or your Hercules Wireless N Key, for example) in the WiFi Manager N interface.

1st option: use the WPS button located on the router



- On your WiFi router: press the WPS button ④ located on the back of the router.

You now have two minutes to connect your Hercules Wireless N USB Key to the router. You will not have to repeat this step the next time you connect.



- Press the WPS button located on the side of the Hercules Wireless N mini Key or the WPS button on a WPS-compatible device.

2nd option: use the WPS button accessible in WiFi Manager N





- On the WiFi Manager N home page, press the Automatic WiFi client connection (WPS) button.

Push-Button Configuration method (PBC) is selected by default.

- Click the 😟 connection button.

Alternatively:

- Select Personal Identification Number method (PIN code).
- Enter the **PIN** code of the WPS device you wish to connect.
- Click the 😟 connection button.

To find out the **PIN code** for your WPS device, please refer to section **Connecting to a network** with a **PIN code** in the user manual of your **Hercules Wireless N USB mini Key**, or refer to the manual supplied by the manufacturer of your WPS device.

You now have two minutes to connect your Hercules Wireless N USB Key or your device via WPS.

If the connection is not secure, a WPA or WPA2 type security key (depending on the client's capabilities) is generated automatically.

For more information on connecting your device via WPS, please refer to the PDF user manual of your **Hercules Wireless N USB mini Key** or to the manual supplied by the manufacturer of your WPS device.

3. WIFI MANAGER N, THE VERSATILE UTILITY

With WiFi Manager N, nothing could be easier than combining your high-speed Internet modem with the Hercules router, thereby sharing your Internet access with all of the computers in your home or small business, or simply creating a wireless network.

WiFi Manager N is the interface which allows you to communicate with your Hercules router and configure your wireless network or Internet firewall.

3.1. Opening the doors of WiFi Manager N

The Installation Assistant you have launched from the CD-ROM has installed a shortcut to WiFi Manager N. This utility will bring you straight to the door (locked with a key, for the moment) to WiFi Manager N.



- To access the door to enter WiFi Manager N, simply double-click the icon on your Desktop.

The connection window to the router appears.

WiFi Manager N English 1	
Connect to router	
To establish the connection to your router, please enter the connection password. If you are establishing the connection for the first time, the default password is 123456	
Password:	
Note: We strongly recommend that you change the password when entering this menu for the first time. To change the password, dick the "Change password" button.	
(Change password)	
0	Hencules"

You are now at the door to enter WiFi Manager N, which you must open using a password.

- To open the door, enter the default password or enter your own password if you have already defined one (for information on how to define your own password, please refer to chapter 3.2. Changing the WiFi Manager N password!).

- Click OK.

The password ensures that you are the only one who can access your WiFi Manager N interface, and therefore your Hercules router's settings. For this reason, it is important that you change the password when using WiFi Manager N for the first time (see below).

3.2. Changing the WiFi Manager N password

When opening the door to WiFi Manager N for the first time, we strongly recommend that you change the default password, **123456**, during your first use directly via the **Connect to router** window (if you have not already carried out this procedure in the installation Assistant).



- Click the Change password button.
- Enter the old password (123456, if you are doing this for the first time), the new password, which you will select, and then confirm the new password.
- Click **Confirm and Connect** to store your new password and connect.

The door to WiFi Manager N opens to the **Home page** depicted below. You can now explore all of your Hercules router's functionalities.

iFi Manager N		
Home Toolbox	Product information English :	Expert mo
WiFi settings	n Internet	Transmission
Planning your WiFi network	Internet	power
	Automatic WiFi client onnection (WPS)	
Connection status:	WiFi network status:	Connected devices:
Connection status: Connected	WiFi network: Enabled	192.168.2.100
Internet IP address: 192.168.1.2	MAC address filtering: Enabled	

3.3. Navigating within the WiFi Manager N interface

The **WiFi Manager N** interface has been designed to simplify navigation through the different menus. Nevertheless, should you ever feel a bit lost, you can always click the **Home** tab at any time to return to the Home page, the starting point for all of your Hercules router's functionalities. The following table sets out the main functions of WiFi Manager N.

lcon/button	Function
	Select the interface language .
	Button allowing you to adjust the transmission power of the WiFi signal, from 0 (no signal) to 100% (maximum power).
Toolbox Product information	These tabs allow you to access, respectively, the home page (to select the Internet connection, adjust the firewall, customize your WiFi network, set the operation periods of the WiFi network), the toolbox (to restore the original configuration, update the firmware) and information about the router .
3	Access the connection mode of the router to the Internet (PPPoE, PPTP).
S	Access the customization mode for your WiFi network (settings for connection, security, enabling/disabling your WiFi network).
J	Access the configuration mode for the firewall (port forwarding, IP filtering and website blocking).
3	Access the configuration mode for the DHCP server.
3	Access planning of the operation periods for functioning of the WiFi signal.
5	Quick connection button to WPS devices.
Expert mode	Access the configuration mode for advanced options for the WiFi network (expert WiFi settings, filtering by MAC address, DDNS, Denial of Service).
Connection Information (1997) and/water Strategies Connected Advances Connection addaes Connected (1997) With Connected Connection (1997) Advances (1997) Adva	Table summarizing the status of the Internet connection, the status of the WiFi network and the list of connected devices.

3.4. Easily managing your router's WiFi signal

In the Hercules Wireless N Router, Hercules has implemented functions for **managing the WiFi signal** which are both simple and useful, and which respond to the needs of a growing number of users. In the following sections, you will find out how to enable or disable the WiFi network in a fraction of a second, limit the broadcasting of your WiFi network to the boundaries of your home, and plan the operation periods for the WiFi signal.

3.4.1. Disabling/re-enabling WiFi in a fraction of a second

If you are conscious about saving energy or don't see the use of always having your Hercules Wireless N

Router's WiFi function switched on, press the button. The the LED switches off, indicating that WiFi is disabled.

To **re-enable WiFi**, press the button again. The ten button button again. The ten button button again.

When WiFi is disabled, you will only be able to access the Internet by connecting your computer to one of the Ethernet ports on the router using the included cable.

3.4.2. Limiting broadcasting of your WiFi network to your home

By default, your router's WiFi signal is adjusted to the maximum power in order to provide optimal comfort of use; however, you may not want one of your neighbors to be able to detect your WiFi network and attempt to access it. In addition to the protective features offered by your router (security key, MAC address filtering...), Hercules helps you to limit broadcasting of your WiFi network by adjusting the strength of the WiFi signal to cover only your home.

Let's imagine that you live in an apartment, or a house with a garden; in these two instances, your needs will be different. Practically speaking, the greater the area of your home to be covered, the more powerful the signal must be, and the smaller the area, the less powerful the signal. We therefore invite you to access WiFi Manager N and test out the different power settings to determine the power required to cover your home.

- Open WiFi Manager N.

- On the home page, adjust the transmission power by positioning the button on a power level less than 100% (the default setting): from 0 (no signal) to 100 % (maximum power).



- Test your WiFi connection by accessing the Internet with your computer in different locations in your home, and verify the signal quality.

- Adjust the signal strength until you find the setting best adapted to your home (not too strong, and not too weak).

Depending on the surface area to be covered and any obstacles (the presence of a bookcase, metal, an aquarium or a wall made of reinforced concrete), you may want to keep the power of the WiFi signal at its maximum level.

3.4.3. Planning the WiFi operation periods

Do you only surf the Internet at the end of the day or on the weekend? In that case, there's no point in always keeping the WiFi function enabled. The **WiFi planning** function allows you to manage the periods during which WiFi is enabled.

- Open WiFi Manager N.

- On the home page, click the Planning your WiFi network button

English English Expert model Internet Internet Internet Internet WFi settings WFi settings Internet frewall Planning your WFi Internet frewall Internet frewall Automatic WFi Commetion with out with intervork will be active: Internet frewall Router's IP configuration Connection status: WFI network status: Connected devices: Connection status: WFI network: Enabled 192.168.2.100	Home	Toolbox	Product information	(Friefah 14)	- State of the local division of the			
Planning your WiFi MiFi settings Internet frewall Planning your WiFi Router's IP connection status: Connection status: Connection status: Connection status: WiFi network: Enderson status: Connection type: MiFi network: Enabled Connection status: WiFi network: Connection type: WiFi network: MiFi network: Enabled				English +	Expert mo			
Internet internet internet internet internet internet frewall (GMTGreenwich Mean Time: Dublin, Ednhurgh, Lisbon, London (*) View of the stand define your with internet frewall Planning your WiFi Automatic WiFi deet connection futures Planning your WiFi Define the time period during which your WiFi network will be active: 00(*) h 00(*) Current date and time: 20(7) 2009 hour 17 minute 30 Current date and time: 20(7) 2009 hour 17 minute 30 Home Router's IP configuration ViFi network status: Connection status: Connection status: WiFi network status: Connection type: WiFi network: Connection type: UPCP Clent Connection type: WiFi network: Enabled WiFi network: 192.166.2.100		Diana						
Internet settings (GMT)Greenwich Mean Time: Dublin, Edinburgh, Libbon, London [:) Vefine your own settings. WiFi settings Please select a program [:) WiFi settings Please select a program [:) Planning your WiFi advortantic WiFi dent connection flavorta Entire weak Monday Tuesday Wednesday Thursday Friday Saturday Sunday [::] Planning your WiFi dent connection flavorta Define the time period during which your WiFi network will be active: 00 [:] h 00 [:] h 00 [:] h 00 [:] h 00 [:] Current date and time: [:] 9 [:] 2009 hour [17] minute [:] 0 Router's IP configuration WiFi network status: Connection status: Connection status: WiFi network: status: Connection type: MiG address filtering: UNA2 Mixed WiFi network:		CHOOSE YO	a dire conc.	network				
Verifiestings You can choose predefined schedules, or select the "Custom" option in the list and define your own settings. Wrifiestings Intermet freewall Planning your Wifi network Entire week: Monday Tuesday Wednesday Thursday Friday Saturday Sunday Planning your Wifi network Define the time period during which your WiFi network will be active: Automatic Wifi network Image: Saturday Sunday Router's IP configuration Connection status: Connection status: WiFi network: Enabled Connection type: Difference Untermet. IP address: 192.168.2.100	Internet	0	GMT)Greenwich Mean Time	e: Dublin, Edinburgh, Lis	bon, London 🛟			
WiFi settings Internet frewall Internet frewall Entire week. Monday Tuesday Wednesday Thursday Finday Saturday Sunday Planning your WiFi network Entire week. Monday Tuesday Wednesday Thursday Finday Saturday Sunday Planning your WiFi network Define the time period during which your WiFi network will be active: 002 h 002 to 002 h 002 h 003 h Home Apply	settings	You can ch define you	oose predefined schedule r own settings.	s, or select the "Custon	" option in the list and			
WiFi settings Entire week Monday Tuesday Wednesday Thursday Friday Saturday Sunday Internet firewall Entire week Monday Tuesday Wednesday Thursday Friday Saturday Sunday Planning your WiFi network Define the time period during which your WiFi network will be active: Automatic WiFi dent connection (WF) configuration Define the time period during which your WiFi network will be active: Router's IP configuration Current date and time: 29 7 2009 hour 17 minute 30 Router's IP configuration WiFi network status: Connection status: WiFi network: Enabled WiFi network: Enabled Connection type: UVEF inetwork: Enabled WiFi security: WiFi network: 192.168.2.100	1		Please	select a program				
Internet firewall Entre week. Monday Tuesday Wednesday Thursday Friday Saturday Sunday Planning your WFi Define the time period during which your WFi network will be active: Automatic WiFi 00 2 h 00 2 to 00 2 h 00 2 Router's IP Current date and time: 29 7 2009 hour 17 minute 30 Router's IP WiFi network status: Connection status: WiFi network status: Connection status: WiFi network: Enabled Ornenction type: WiFi network: Enabled Internet IP address: 192.168.1.2 McC address filtering: Disabled	WiFi settings							
Incernet interval Image: Connection status: Define the time period during which your WiFi network will be active: Planning your WiFi Automatic WiFi OOI 2 h OOI 2 to OOI 2 h OOI 2 Automatic WiFi OOI 2 h OOI 2 to OOI 2 h OOI 2 OOI 2 h OOI 2 Router's IP Current date and time: 29 7 2009 hour 17 minute 30 Router's IP Home Automatic WiFi Connection status: WiFi network status: Connected devices: Connection type: DHCP Client WiFi network: Enabled 192.166.2.100 Internet IP address: 192.168.1.2 MAC address filtering: Disabled 192.166.2.100		Entire we	ek Mondav Tuesdav We	dnesday Thursday Fr	iday Saturday Sunday			
Planning your WiFi Automatic WiFi Automatic WiFi dept commetion Router's IP connection status: Connection status: WiFi network: status: Connection type: Define the time period during which your WiFi network will be active: Outrent date and time: 29 7 2009 hour 17 minute 30 Connection status: WiFi network: Enabled Operation type: Diff network: Enabled WiFi network: MiXe address MiXe address MiXe address	Internet firewail							
network Define the time period during which your WiFi network will be active: Automatic WiFi dent connection (WPS) OO(2) h OO(2) to OO(2) h OO(2) current date and time: 29 7 2009 hour 17 minute 30 Routar's IP configuration Current date and time: 29 7 2009 hour 17 minute 30 Connection status: WiFi network status: Connection status: WiFi network: Enabled Connection status: WiFi network: Enabled 192.166.2.100	Planning your WiFi							
Automatic WiFi dent connection (WFS) Image: Connection (WFS) Current date and time: 29 7 2009 hour 17 minute 30 Router's IP configuration Current date and time: 29 7 2009 hour 17 minute 30 Connection status: WiFi network status: Connection status: WiFi network status: Connection status: WiFi network: Enabled MAC address filtering: Disabled	network	Define the	time period during which	your WiFi network will b	e active:			
Connection (WPS) Current date and time: 29 7 2009 hour 127 minute 30 Router's IP configuration Current date and time: 29 7 2009 hour 127 minute 30 Connection status: WiFi network status: Connected devices: Connection type: DHCP Client WiFi network: Enabled 192.166.2.100 Internet IP address: 192.168.2.12 McC address filtering: Disabled 192.168.2.100	Automatic WiFi		00 \$ h 00 \$	to (00 \$ h 0				
Connection status: Connected devices: UV/Fi network status: Connected devices: Connection status: Connected devices: Connection status: Connected devices: Connection status: Connected devices: Connection status: Status: Connected devices: Connection status: Connected devices: Connected Connect	client connection							
Router's IP Mome Apply Connection status: WiFi network status: Connected devices: Connection status: WiFi network: Enabled Connection status: WiFi security: WiFi security: UP2 diress: J92.168.2.100 MAC address filtering: Disabled	(Current date and time: 29 7 2009 hour 17						
Connection status: WiFi network status: Connected devices: Connection status: WiFi network: Enabled Connection wife: Enabled 192.168.2.100 Internet IP address: 192.168.1.2 MAC address filtering: Disabled	Router's IP							
Connection status: WiFi network status: Connected devices: Connection status: Gonnection status: Enabled 192.166.2.100 Connection type: DHCP Client: WiFi security: WPA2 Mixed 192.166.2.100 Internet: IP address: 192.166.1.2 MAC address filtering: Disabled 192.166.2.100	configuration	Home			(Apply)			
Connection status: Connected WiFi network: Enabled 192.166.2.100 Connection type: DHCP Client WiFi security: WPA2 Mixed Intermet IP address: 192.166.1.2 MAC address filtering: Disabled	Connection st	atus:	WiFi net	work status:	Connected devices:			
Connection type: DHCP Client WiFi security: WPA2 Mixed Internet IP address: 192.168.1.2 MAC address filtering: Disabled	Connection status: Conn	ected	WiFi network:	Enabled	192.168.2.100			
Internet IP address: 192.168.1.2 MAC address filtering: Disabled	Connection type: DHC	P Client	WiFi security:	WPA2 Mixed				
	Internet ID address: 102	168.1.2	MAC address filtering	Poleshlod				

To select a preset program

((GMT)Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London (*)
Please select a program (*)
Entre week Monday Tuesday Wednesday Thursday Friday Saturday Sunday

- Select the time zone corresponding to your country.
- In the drop-down list (opposite), select one of the preset programs.
- If the settings displayed in the table are good for you, click **Connect**.
- If not, select another preset program or define a personalized program.

To define a personalized program

(GMT)Gre	enwich	Mean Ti	me: Dublin	, Edinbur	gh, Lis	bon, Lor	don 🛟	•
		Pleas	e select a j	program	:			-
Entire week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
								-

- Select the time zone corresponding to your country.
- In the drop-down list (opposite), select the **Custom** option.
- In the table, indicate the days to enable your WiFi network and enter the time period.
- To validate your planning, click **Connect**.

3.5. Sharing your Internet connection via the router

You can easily pair your Hercules router with your modem, thereby sharing your Internet connection with your other computers and/or game consoles.

Once installation of your router is complete, your WiFi connection and firewall are enabled. However, you must still select your type of Internet connection (via Ethernet modem, "Box" or other method) and enter the required information. To do so, simply consult the items of information supplied by your ISP, typically found in the membership details sent to you (connection username (login), connection password...).

3.5.1. Selecting your Internet connection

With WiFi Manager N, you don't have to be a computer expert to share your Internet connection via WiFi with your router: just get together the information sent to you by your service provider.



- On the home page, click Internet settings.

- Select the Internet connection mode: ADSL Ethernet modem (PPPoE connection) or Internet "Box", Cable Modem or Router, and click Next.

If you select ADSL Ethernet modem (PPPoE connection)



If you select the Internet "Box", Cable Modem or Router mode

i Manager N		
	Toolbox Product information	Expert
	nemet settings> Internet "Itux", Cable Mo	alem or Hauter
settings	Assign IN: Static IN Automatic D	нар
witi settings	IP address:	192 189 1 1
0	Submet mask:	255 255 0 0
The Automation	Default gateway:	192 159 1 . 254
and area and and and and and and and and and an	Primary DNS server:	0 0 0 0
Flanning year Wife	Secondary ONS server:	0 0 0 0
Automatic WFI dect connection	Clone my PC's NAC address	00000000000000000000000000000000000000
(WPS)	(Prestows)	(Connected)
Router's IP configuration		
Connection statu	s: WIFI network sta	atus: Connected devices
ornettion status: Connett Ionnettion type: CHCP Ci Itemet IP address: 192.159	ed Will network: Erable ent Will security: W942 1.2 MAC address filtering: Dashie	d 102.168.2.100 Mixed ed

If you select another connection type:

- If you select the PPTP connection type:

- Enter your connection username (login) and password.

This information can be found in the membership details sent to you by your ISP.

- Also enter a valid MTU value.

The **MTU** value corresponds to the maximum value, in bytes, of transmitted data packets (for example, 1500 bytes on an ADSL WiFi network).

- If you wish, you can always stay connected, thereby leaving your Internet connection enabled all the time; you can also choose to disconnect automatically after a certain length of time.
- Select the Assign IP type: Static IP or Automatic DHCP.
- If you select **Automatic DHCP**, the DHCP server will be responsible for assigning the IP address.
- Select **Static IP** if you have subscribed to an Internet line with a fixed IP address.

This information can be found in the membership details sent to you by your ISP.

- Enter the IP address, subnet mask, and default gateway.

WiFi Manager N								JX.
нете	Tocibox	Product information	English	n (†			Expert	mode
				•			V	-
Internet		Connection by			1\$			
	IP address:		Lesie .	0.00	50	. 0		
WE attend	Subnet mask:			0,0	. 0.	. 0	10000	
S wersenings	Default gatew	ayı		0 . 0	. 0	1.0		
A DEC	Primary DNS s	erver:		0.0	30	. 0		
Internet firewall	Secondary DN	s server.		0.0	10	. 0	1	
144	Clene my PC a	MAC address		0000000	000000	_	Clone	
Placning your with network	Your connection	on togins					No. of Street	
~	Your connection	n password:						
Automatic WPi cient connection	NTU (Maximum Transmission unit)			1412				
(WPS)		(c) always stay carrie	ated (2) Di	ecocoect a	utomat	ville		
Router's ID			WWWWWWW					
Configuration		Previous	Con	sected				2
Connection st	itus:	Wi) i roet	work statu	15:		Cunnec	ted devices	
Connection status: Conn Connection type: DHOP Internet IP address: 192.1	clent 68.1.2	WiFi notwork: WiFi security: MAC address filtering	Enabled WPA2 Mit	Ked		192.	156.2.100	
0							-	5723

- If you select the L2TP connection type:



- Select PPTP in the drop-down list.
- Enter the **host name** supplied when subscribing to the service.
- If necessary, click the **Clone** button to clone your PC's MAC address.
- Enter your connection username (login) and password.
- Also enter the **PPTP gateway** and, if you wish, a connection ID for this gateway.

This information can be found in the membership details sent to you by your ISP.

- Enter a valid MTU value.

The **MTU** value corresponds to the maximum value, in bytes, of transmitted data packets (for example, 1500 bytes on an ADSL WiFi network).

- Select L2TP in the drop-down list.
- Enter the **host name** supplied when subscribing to the service.
- If necessary, click the **Clone** button to clone your PC's MAC address.
- Enter your connection username (login) and password.
- Also enter the L2TP gateway and, if you wish, a connection ID for this gateway.

This information can be found in the membership details sent to you by your ISP.

- Enter a valid MTU value.

The **MTU** value corresponds to the maximum value, in bytes, of transmitted data packets (for example, 1500 bytes on an ADSL WiFi network).

Once you have selected your connection mode, don't forget to click the **Apply and Save** button to save your settings.

3.5.2. Testing your Internet connection

Once you have selected your Internet connection mode for your Hercules router, you can carry out a first test and verify that you are able to access the Internet.



to see your status: green (router

On the **General settings** page, you can also view the Earth icon connected), or red (router not connected).

During this test, leave the Ethernet cable connected to your Hercules router.

File	Edit	View	Fav	orites	Too	ls He	lp
G	Back	- 6) -	×	2		🔎 Search
Address www.hercules.com							

- Launch an Internet browser (Internet Explorer, Netscape Navigator or Mozilla Firefox) on your computer.

- Enter the address www.hercules.com.

The Hercules website homepage should appear.

If your Internet connection is working properly:

It is now time for you to learn how to master your WiFi network (please see section 3.6. Mastering your WiFi network at your fingertips).

Do not disconnect your Ethernet cable just yet, so long as your WiFi network has not been created; you will need it in order to communicate with your router.

3.6. Mastering your WiFi network at your fingertips

In this chapter, you will learn how to personalize your WiFi network and secure it against unwelcome intrusion attempts.

Configuration of your network is carried out via the Ethernet cable connecting your router to your computer. Once you have finished, you can disconnect this cable and explore all the subtleties of WiFi, described in chapter 4. Welcome to the Wireless AttitudeTM!

3.6.1. Personalizing your WiFi network

When the wireless access point (your Hercules router's WiFi function) is enabled, WiFi Manager N displays the name of your network, the Radio Frequency (RF) channel and security type used. These settings may be modified, subject to certain conditions.

Should you decide to modify certain settings, we recommend that you take care to follow the recommendations below.

To personalize your WiFi network:



- On the home page, select WiFi settings.

Various items of information are displayed, such as the name of your network and the RF channel used.

- Before personalizing your WiFi network, verify that the **WiFi network enabled** box is ticked.

- If you wish, you may personalize the **Network** name (SSID) (Hercules, by default).

	Toolsox Prod	ct intermation	ingish 11	
				Dxpert
	WiFi setting	IS		
6	WFi settings			M Enable WiFi netwo
settings	WiFi network:			
-	Network name	(55ID):	Herculas	
WiH settings	Radio Frequeni	y (RF) channel used	Auto :	
	Wife security:			
Internet firewal	Security level: (_W	PA WPA2 security) High to vary high	h adaptive security level
Planning your Willingtwork		ткар Б	Z ABS Z	
	Will security 12	45670	Password	(1)
client connection (WPS)	Enter a password	composed of 8 to 63	alphanumeric char	acters
Router's IP configuration	Home			Chop
Connection st.	atusi	WIFI network	i statusi	Connected devices
mection status - Com	ested will	ietwork: Env	abled	192.168.2.100
Mathem Lorent Attributed 1114 (Child	Cieffic Will (recurity: WF	A2 Mixed	

The SSID (Service Set Identifier) is the unique name shared by the WiFi adapters and the access point in a wireless network. **Make sure that you do not lose or forget this name**, as you will need it to connect your WiFi devices.

- If necessary, change the **Radio Frequency** (**RF**) channel used by the local area WiFi network to communicate (from 1 to 13).

By default, the radio channel is automatically selected according to the least-congested channel. Change this setting **only if** another transmitter is using the same channel, which may result in a drop in your router's WiFi performance.

Don't forget to protect your network by selecting a security key; otherwise, any user, whether with bad intentions or not, will be able to connect to it.

For details on how to protect your network, please refer to section **3.6.2. Securing your WiFi** network.

- Click the Apply button to validate your settings.

The access point restarts. All computers or devices connected via WiFi are disconnected. The ADSL connection, however, remains active.

3.6.2. Securing your WiFi network

Creating a WiFi network is very useful if you have several wireless computers or devices, but how can you avoid having someone on the outside connect to your network without permission or intercept your unencrypted data exchanges? Thanks to the WiFi Manager N, you can define your own security choices. To help you select the best level of security for your network, we invite you to consult the table below, which sums up the **5 types of security** supported by WiFi Manager N.

Туре	Level of security	Key used	Authentication
WEAK (WEP 64)	The lowest level of security, whereby simple encryption is carried out on exchanged data. Each wireless client in the network must use the same key to decode the transmission.	64-bit key in hexadecimal format (10 characters), or in alphanumeric format with 5 ASCII characters (e.g.: hello). A hexadecimal key is composed of numbers 0 to 9 and letters A to F (example: A123BCD45E for a 64-bit key).	Open (no authentication), Shared (authentication method via shared key) or Auto (authentication when requested by the device).

		An alphanumeric character corresponds either to a number (0-9), or to a letter (a-z or A-Z).	
MEDIUM (WEP 128)	Level of security identical to that of WEP 64. Only the key length is different.	 128-bit key in hexadecimal format (26 characters), or in alphanumeric format with 13 ASCII characters. A hexadecimal key is composed of numbers 0 to 9 and letters A to F. An alphanumeric character corresponds either to a number (0-9), or to a letter (a-z or A-Z). 	Open (no authentication), Shared (authentication method via shared key) or Auto (authentication when requested by the device).
Туре	Level of security	Key used	Authentication
HIGH (WPA- PSK)	Latest-generation heightened level of security, specially designed for environments such as a small office or the home, based on a pre-shared key.	Password with a minimum of 8 alphanumeric characters. An alphanumeric character corresponds either to a number (0-9), or to a letter (a-z or A-Z).	ТКІР
VERY HIGH (WPA2)	Latest-generation very heightened level of security, specially designed for environments such as a small office or the home, based on a pre-shared key.	Password with a minimum of 8 alphanumeric characters. An alphanumeric character corresponds either to a number (0-9), or to a letter (a-z or A-Z).	AES
HIGH TO VERY HIGH WPA or WPA2	Level of security selected by the router depending on the maximum level of security supported by the devices on the network.	Password with a minimum of 8 alphanumeric characters. An alphanumeric character corresponds either to a number (0-9), or to a letter (a-z or A-Z).	TKIP or AES

You must not select a level of security in WiFi Manager N more advanced than that supported by your computers or other WiFi devices. For example, if your computers or other devices only support the WEAK (WEP 64) or MEDIUM (WEP 128) levels, you should not select the HIGH (WPA-PSK) or VERY HIGH (WPA2) level.

If you have used the WPS function to connect, a WPA or WPA2 type security key has automatically been generated.

To secure your WiFi network:

- Before enabling security for your WiFi network, verify that the Enable WiFi network box is ticked.



- Select your level of security: MEDIUM (WEP 128), HIGH (WPA) or VERY HIGH (WPA2).

If you select the "VERY HIGH (WPA2)" security type:

- Select the level of security: WPA2 (AES).

- Enter a password (8 alphanumeric characters minimum) or a key with 64 hexadecimal characters.

An alphanumeric character corresponds either to a number (0-9), or to a letter (a-z or A-Z).

A hexadecimal key is composed of numbers 0 to 9 and letters A to F (example: A123BCD45E for a 64-bit key).

In the status zone, you can consult the overview of your WiFi settings. Make a note of the network name, security type and key used.

- Click Apply to validate the new settings.

If you select the "HIGH TO VERY HIGH (WPA-WPA2)" security type:

- Select the level of security: WPA-WPA2.

- Enter a password (8 alphanumeric characters minimum) or a key with 64 hexadecimal characters.

An alphanumeric character corresponds either to a number (0-9), or to a letter (a-z or A-Z).

A hexadecimal key is composed of numbers 0 to 9 and letters A to F (example: A123BCD45E for a 64-bit key).

In the status zone, you can consult the overview of your WiFi settings. Make a note of the network name, security type and key used.

- Click Modify to validate the new settings.

If you select the "HIGH (WPA)" security type:

- Enter a **password** with 8 alphanumeric characters minimum, or a **key** with 64 hexadecimal characters of your choice.

An alphanumeric character corresponds either to a number (0-9), or to a letter (a-z or A-Z).

A hexadecimal key is composed of numbers 0 to 9 and letters A to F (example: A123BCD45E for a 64-bit key).

In the status zone, you can consult the overview of your WiFi settings. Make a note of the network name, security type and key used.

- Click Modify to validate the new settings.

If you select the "MEDIUM (WEP 64-WEP 128)" security type:

- Enter a key with 10 hexadecimal characters or a password with 5 alphanumeric characters for WEP 64 security, or a key with 26 hexadecimal characters or a password with 13 alphanumeric characters for WEP 128 security.

A hexadecimal key is composed of numbers 0 to 9 and letters A to F (example: A123BCD45E for a 64-bit key).

An alphanumeric character corresponds either to a number (0-9), or to a letter (a-z or A-Z).

In the status zone, you can consult the overview of your WiFi settings. Make a note of the network name, security type and key used.

- Click Modify to validate the new settings.

If you select NO (Disabled) security (not recommended):

If you don't apply any security, your network will not be protected. Any user, whether with bad intentions or not, will be able to connect to it.

In the status zone, you can consult the overview of your WiFi settings. Make a note of the network name, security type and key used.

Click **Modify** to validate the new settings.

The WEP, WPA-PSK (TKIP) and WPA2-PSK (TKIP) security levels are not supported by the 802.11n-2009 standard. If you select one of these security levels, data rates for the connection with WiFi clients will be limited to 54Mbps.

3.6.3.Limiting access to your WiFi network to certain WiFi computers or devices

Filtering by **MAC address** is a complement to your security settings, allowing you to select the wireless computers and devices authorized to connect to your local area WiFi network.

A **MAC address** is a unique address created by the builder of the network device (WiFi or Ethernet), serving to identify this element within a network.

 $m \Delta$ Before enabling filtering, we recommend that you connect via WiFi all computers you wish to authorize.

To add a WiFi computer or device (webcam, game console or other) to the list:

102.108.2.10



Expert mode

If you are using this function for the first time:

- On the home page, click the **Expert mode** button located in the upper right-hand corner.

- In the WiFi network tab, click the MAC address filtering option.

- In the MAC address filtering drop-down list, select Enable access to the addresses in the list.

Any new computer or device must be added manually.

- Manually enter its MAC address (in AAAAAAAAAAA format, without separators) and, if you wish, the name of the device in the **Comment** field.

- Click the Add button.

This address has been added to the list of WiFi computers and devices authorized to connect.

- Click the **Apply** button to validate your settings, or **Cancel** to cancel the settings you have entered.

at 10 a

Once you have enabled the filtering by MAC address function, **only** the computers and devices appearing in this list will be authorized to connect to your Hercules router.

If your friends visit you with their WiFi computer or device, or if you wish to connect new WiFi devices, don't forget to **add their MAC address** to the filtering list, or else they will never be able to connect.

To remove a WiFi computer or device (webcam, game console or other) from the list:

- In the Remove column, click 🤎 next to the computers or devices you wish to remove from the filtering list.
- Confirm the removal in the dialog box which appears.
- Click the Modify button to validate your settings, or Cancel to cancel the settings you have entered.

3.6.4. Disabling your WiFi network in WiFi Manager N

If you wish to use your Hercules router as a wired router only (that is to say, connected to the computer via the

Ethernet port, and not by WiFi), you can disable your WiFi network by pressing the button on the router, as indicated in section **3.4.1. Disabling/re-enabling WiFi in a fraction of a second**. You can also do the same thing in WiFi Manager N.



- On the home page, select WiFi settings.

- In the WiFi settings page, deselect the Enable WiFi network box.

- Confirm that you wish to disable your WiFi network.

3.6.5. Re-enabling your WiFi network in WiFi Manager N

If you wish to re-enable your WiFi network, press the with button on the router again (the WiFi LED lights up) or proceed as follows:

- On the WiFi Manager N home page, select WiFi settings.



- In the WiFi settings page, select the Enable WiFi network box.

- Confirm that you wish to re-enable your WiFi network.

3.7. The firewall: your ultimate protection against Internet attacks

Like a secure fortress, your network is protected by a drawbridge and ramparts that are impossible to scale. On top of this, all of your defenses are in a state of alert to repel any intrusion attempts. It is possible, however, to lower these defenses from time to time, in order to authorize your computers to access specific Internet services (P2P, web/FTP servers, IP or WiFi camera...), to simply limit access on a specific computer to certain Internet services, or to redirect all Internet requests to a designated computer. For more information, please refer to chapters **5.2.1**. **Opening doors in your firewall to put your camera online or authorize access for a computer to certain Internet services**, **5.2.2**. Limiting access of one of your **network computers to Internet services** and **5.2.3**. **Redirecting Internet requests to a specific computer**.

If your computer is equipped with a **software firewall** (Norton Personal Firewall, Windows Service Pack 2 Firewall, McAfee Personal Firewall...), **disable it** when you connect to the router, as your router's firewall is sufficiently strong on its own, or adopt the same configuration settings as those established for your router in order to avoid any possible conflicts. If you go somewhere else with your computer, however, and have to connect to other networks, you can **re-enable** your software firewall.

Be careful not to confuse a firewall with an antivirus program!

An **antivirus program** analyzes the contents of your computer, your emails, files you have downloaded from the Internet, etc., and detects, blocks and/or removes any viruses, worms and Trojans in order to ensure that your computer functions properly.

Your **firewall** hides your computer on the network, monitors the Internet data arriving at your computer and blocks intrusion attempts to stop computer hackers from stealing your personal information.

4. WELCOME TO THE WIRELESS ATTITUDE™!

Now that you have mastered the main functionalities of WiFi Manager N, it is time to move on to a few practical applications. In the following chapters, we will show you how wireless computing is closely linked to user-friendliness and ease of use. Sharing your folders, your printer, or letting friends use your ADSL connection for online gaming are some examples of the things we will help you to do. Enter the world of wireless and join in the **Wireless AttitudeTM**!

4.1. A few important points to bear in mind before getting started

We advise you to follow the instructions provided hereinafter for each of your computers:

- The procedures described in this chapter differ according to the various operating systems discussed. Please ensure that you refer to the chapters corresponding to your operating system.

- These procedures also apply to the computers or devices directly connected to your router via an Ethernet cable.

- To share an ADSL connection, your Hercules router and your modem (ADSL Ethernet, cable or Internet "Box") must be switched on and your ADSL line must be active.

Reminder: the WiFi network you have just finished setting up is an **Infrastructure** type network (as opposed to **Ad hoc** mode), as it is composed of an **access point** and one or more computers.

4.2. Computers running Windows Vista: Sharing folders, a printer or an ADSL connection

To create a network of computers, share data, a printer or an **ADSL** connection between computers running **Windows Vista**, it is not imperative that the computers belong to the same **workgroup**. However, if you wish to share between **Windows Vista** and an earlier operating system, make sure to define the same workgroup on all computers. For information on how to create a workgroup, please refer to the manual of your Hercules product.

Note: The access paths described hereafter may vary slightly if you have modified the default display in Windows Vista (that is to say, the Start menu properties and the Control Panel display).

You have connected your computer to a **private network** (as opposed to a **public network**). Therefore, the **discovery** options (namely, the ability to view outside devices and computers and to be seen by other networks) are enabled, but **sharing** options are not. You must therefore enable them manually before you can share your folders, your Internet connection or your printer.

4.2.1. Enabling sharing

Before setting up sharing for your folders, your printer or your Internet connection, you must enable sharing in the **Network and Sharing Center**.



Note: To open the Network and Sharing Center, click the network icon in the Windows taskbar, then the Network and Sharing Center link.

Control Panel	Network and Sharing Center	Search	
Tasks View computers and devices Connect to a network Manage wireless networks Set up a connection or network Manage network connections	Network and Sharing Ce PC-WIFI (This computer)	enter	View full map
Diagnose and repair	Hercules (Private network	0	Customize
	Access	Local only	
	Connection	Wireless Network Connection (Hercules)	View status
		at Signal strength: Good	Disconnect
	Sharing and Discovery		
	Network discovery	On On	\odot
			~
	File sharing	● Off	$\overline{\mathbf{e}}$
	File sharing Public folder sharing	● Off ● Off	 ✓ ✓ ✓
	File sharing Public folder sharing Printer sharing	© Off © Off © Off	
See also	File sharing Public folder sharing Printer sharing Password protected sharing	 Off Off Off Off On 	> > > >

Enabling file sharing

- In the Sharing and Discovery zone, click the Off link or the Sharing button located opposite File sharing.
- Select the Turn on file sharing radio button.

File sharing	● Off	٢
When file sharing is accessed by people Turn on file share Turn off file share	on, files and printers that you have share on the network. ing	ed from this computer can be

- Click Apply. In the Windows Vista confirmation window, click Continue.

Enabling public folder sharing

Note: A public folder is a folder which can be shared by other users of the same computer or of the same network.
- In the Sharing and Discovery zone, click the Off link or the Soutton located opposite Public folder sharing.

 Select the Turn on sharing so anyone with network access can open files radio button (they will only be able to consult files) or select Turn on sharing so anyone with network access can open, change, and create files (there will be no limitations on the contents of these folders in terms of viewing, making changes and additions or other actions).

Public folder sharing	◎ Off	\odot
-----------------------	-------	---------

When Public folder sharing is on, people on the network can access files in the Public folder. <u>What is the Public folder</u>?

Turn on sharing so anyone with network access can open files

Turn on sharing so anyone with network access can open, change, and create files

Turn off sharing (people logged on to this computer can still access this folder)

Apply

- Click Apply. In the Windows Vista confirmation window, click Continue.

Enabling printer sharing

Note: To enable printer sharing, you must first have installed a printer.

- In the Sharing and Discovery zone, click the Off link or the Sharing button located opposite Printer sharing.
- Select the Turn on printer sharing radio button.

Printer sharing	● Off	\odot
When printer sharing attached to this com Turn on printer sh Turn off printer sh	is on, people with network access can con auter aring aring	nnect to and use printers

- Click Apply. In the Windows Vista confirmation window, click Continue.

Enabling media file sharing

Note: This option allows you to enable sharing of your music, videos and images.

- In the Sharing and Discovery zone, click the Off link or the Sharing button located opposite Media sharing.
- Click Change...

When media sharing is on, people and devices on the network can access shared music, pictures, and videos on this computer, and this computer can find those types of shared files on the network.



- In the Media Sharing window that appears, tick the Share my media box.

ihare my media to:	Settings
er users of	ootanige
er users of	
er users of	
riis FC	
Allow Deny Customize	
Your network (belkin54g) is a private network. Devices that you allow can find your shared media.	Networking
NAME TO AN A STATE OF A DESCRIPTION OF A STATE OF A DESCRIPTION OF A DESCRIPANTA DESCRIPTION OF A DESCRIPTION OF A DESCRIPTIO	01100

- Click OK. In the Windows Vista confirmation window, click Continue.

- In the following window, you can define the different **settings**, such as: authorize or refuse groups of users, set parental controls, select media types to be shared, and so on.

- When you're done, click Apply, then OK.

4.2.2. Windows Vista: Sharing public or personal folders

Reminder: In Windows Vista, there are two types of folders: personal or local folders and public folders. A personal folder is a folder belonging to a specific user created on the computer, whereas a public folder is a folder that can be shared by any other user of the same computer or the same network. In essence, a public folder is shared, and therefore available to everyone for viewing (minimum authorization level). For sharing personal folders (your folder of your own images, for example), you must select the users who will be able to access their contents and set the authorization level, as indicated in the following procedure.

Folders	~	1. Select the fol opening it H	lder that you wish to ere your Pictures fo	share, without
Desktop Contacts Dimensional provided and a second s	ts is	2. Right-click the	e folder. Select Shar	e.
Pictu Savec Searc Searc	Expand Explore			
Public	Open			
🖌 🌉 Compu	Search			
D 🛃 Flopp	Share			
Den Local	Add to "Pictures.rar"			
D Cal Local	Compress and email			
🛛 👝 Local 🖉	Compress to "Pictures.rar" and email			
DVD	Restore previous versions			
Networ	Send To •			
D 🔣 Contro	Cut			
Recycle	Сору			
9	Delete			
	Rename			
	New			
100	Properties			
	File Sharing Choose people to share with People must have a user account and password fo change this setting, use the <u>Network and Sharing</u> .	or this computer to access <u>Center</u> .	s files you have shared. To	X
			Add	
	john		Lavel	
	Everyone (All users in this list)		Leve	
	Create a new user			
	Tell me about different ways to share in Windows	-		
			Share Cancel	

3. In the File Sharing window, select the user(s) who will be able to access this folder, then click Add.

Note: You can provide access to all users with no restrictions (Everyone option) or select specific users previously created on your PC. You can also create new users by clicking Create a new user... in the drop-down list.

- Select the Permission Level you wish to assign by clicking on the line for that user: Reader (authorization to view only), Contributor (authorization to view, add and delete) or Co-owner (authorization to view, modify, add and delete).
- Click Share. Be sure to note the path indicated, which will allow for access to the shared folder on the network from another computer. For example: \\PC-WIFI\Users\My documents\Shared Pictures Folders.

6. Click Done.

The folder is now shared. You can now display all shared folders and files on the computer or the shared files on the network by clicking the links in the **Network and Sharing Center**.



4.2.3. Computers running Windows Vista: Accessing shared folders

1. In the file explorer, accessible via Start/Computer, double-click Network.

You access the list of the computers on the same network. Use the path indicated by Windows when setting up sharing (for example: \\PC-WIFI\Users\My documents\Shared Pictures Folders).

- 2. Double-click the computer sharing the folders you wish to access.
- 3. If a password has been defined, enter your **user name** and your **password**.

All shared folders appear. Depending on your authorization level, you can display, modify, add and/or delete shared folders and files.

4.2.4. Windows Vista: Sharing a printer

You can put a printer on the network and thereby share it with all computers in your home equipped with a WiFi adapter.

To access a printer on the network, sharing for the printer must first be set up in the **Network and Sharing Center** (please refer to chapter **4.2.1 Enabling sharing**). The printer must then be set up for sharing on the computer to which is connected and on which it is installed.

On the computer connected to the printer:

- 1. Click Start/Control Panel.
- 2. Under the Hardware and Sound heading, click the Printer link.





The list of installed printers is displayed.

3. Right-click the printer and select the **Sharing...** option.

printer which will be

	Security	About		onange onanny op	
General Sharing	Ports	Advanced	5.	In the Windows Vis	sta confirmation window,
byou share this printer. termine and password more and password more availag three settings, use the base Change sharing options Share this printer Share name: P. Render print jobs on client (only users on your netwo for this computer can p ke when the computer s letwork and Sharing Cer computers	vrk with a init to it. The leeps. To change nteri			
- Drivers If this printer is shared with u Windows, you may want to	users running different vr	ersions of so that the			
users do not have to find the the shared printer.	e print driver when they Additiona	connect to			
	OK Cancel	Apply	6	Tick the Share this	printer box
Microsoft Office Document In	nage Writer Propertie	s 🔽	7	Coloct the name	of the printer which wil
Color Management	Security	About	1.	displayed on the ne	twork under Share name
If you share this printer, or usemame and password printer will not be availab these settings, use the	rorts only users on your netwo I for this computer can p ole when the computer sl Vetwork and Sharing Cer	Advanced who with a nint to it. The leeps. To change nter.	8.	Click Apply , then O	К.
Share this printer					
Share name: Shared Printer					
	computers				
V Render print jobs on client o					
IV Render print jobs on client ← Drivers					
☑ Render print jobs on client (Drivers If this printer is shared with u Windows, you may want to i users do not have to find the the shared printer.	users running different ve install additional drivers, e print driver when they o Additional	rsions of so that the connect to Drivers			

- es window, click the button.
- firmation window, click

4.2.5. Computers running Windows Vista : Accessing the shared printer

On the computers that will use the shared printer:

- 1. Click Start/Control Panel.
- 2. Under the Hardware and Sound heading, click the Printer link.





+	Add a local printer
	Use this option only if you don't have a USB printer. (Windows automatically installs USB printers when you plug them in.)
+	Add a network, wireless or Bluetooth printer
	Make sure that your computer is connected to the network, or that your bluetoo or wireless printer is turned on.

3. Click the Add a printer button.

The Add a printer assistant appears.

4. Click Add a network, wireless or Bluetooth printer.



4.2.6. Windows Vista: Sharing an ADSL connection in an Infrastructure type network

Reminder: If you have a Livebox, a modem router or a router connected to a modem and one or more computers, your network will be in Infrastructure mode by default. In this mode, the WiFi adapters are connected to your access point, which might be your Livebox, your Hercules modem router or your Hercules router connected to a modem. Infrastructure mode is ideal for exchanging data, online gaming, and also for sharing an Internet connection and/or printer among several computers. Follow the instructions below to finally free yourself from the cable that connects you to your modem... without cutting the links to your ADSL connection. Viva the Wireless Attitude!

Proceed as follows for each computer that will use the shared Internet connection:



- 1. Connect to your wireless network (Hercules or Livebox_AAAA, for example).
- Access the Network and Sharing Center. To do so, click the network icon on the Windows taskbar, then click the Network and Sharing Center link.
- 3. Click the View status link.

Wireless Network Connection Status	X	4.	In the Wireless Network Conn window, click Properties.
eneral		E	In the Mindows Vista confirmation
Connection		5.	
IPv4 Connectivity:	Local		Continue.
IPv6 Connectivity:	Limited		
Media State:	Enabled		
SSID:	Hercules		
Duration:	04:40:27		
Speed:	54.0 Mbps		
Signal Quality:	llee		
Details Wireless Properties			
Activity			
Sent — 💐 —	Received		
Bytes: 0	42		
	-		
Properties Diagnose Diagnose			
	Close		
		J	
Wireless Network Connection Properties	X	6.	In the Wireless Network Connect
Wireless Network Connection Properties	X	6.	In the Wireless Network Connect tab, select Internet Protoco
Wireless Network Connection Properties	×	6.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4).
Wireless Network Connection Properties letworking Sharing Connect using:	×	6.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4). Click Properties
Wireless Network Connection Properties etworking Sharing Connect using:		6. 7.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4). Click Properties.
Wireless Network Connection Properties etworking Sharing Connect using:	Configure	6. 7.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4). Click Properties.
Wireless Network Connection Properties etworking Sharing Connect using: Percules Wireless G USB This connection uses the following items:	Configure	6. 7.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4). Click Properties.
Wireless Network Connection Properties letworking Sharing Connect using:	Configure	6. 7.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4). Click Properties.
Wireless Network Connection Properties etworking Sharing Connect using:	Configure	6. 7.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4). Click Properties.
Wireless Network Connection Properties etworking Sharing Connect using:	Configure	6. 7.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4). Click Properties.
Wireless Network Connection Properties etworking Sharing Connect using:	Configure	6. 7.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4). Click Properties.
Wireless Network Connection Properties etworking Sharing Connect using:	Configure	6. 7.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4). Click Properties.
Wireless Network Connection Properties etworking Sharing Connect using:	Configure	6. 7.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4). Click Properties.
Wireless Network Connection Properties etworking Sharing Connect using:	Configure	6. 7.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4). Click Properties.
Wireless Network Connection Properties etworking Sharing Connect using: Hercules Wireless G USB This connection uses the following items: GoS Packet Scheduler GoS Packet Scheduler GoS Packet Scheduler Grienet Protocol Version 6 (TCP/IPv6) Intermet Protocol Version 4 (TCP/IPv6) Intermet Protocol Ver	Configure rks Driver	6. 7.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4). Click Properties.
Wireless Network Connection Properties etworking Sharing Connect using: Hercules Wireless G USB This connection uses the following items: GoS Packet Scheduler GoS P	Configure rks Driver Properties	6. 7.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4). Click Properties.
Wireless Network Connection Properties etworking Sharing Connect using:	Configure rks Driver Properties	6. 7.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4). Click Properties.
Wireless Network Connection Properties etworking Sharing Connect using: Hercules Wireless G USB	Configure rks Driver Properties	6.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4). Click Properties.
Wireless Network Connection Properties etworking Sharing Connect using: Hercules Wireless G USB This connection uses the following items:	Configure rks Driver Properties The default lication	6.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4). Click Properties.
Wireless Network Connection Properties etworking Sharing Connect using:	Configure rks Driver Properties The default ication	6.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4). Click Properties.
Wireless Network Connection Properties etworking Sharing Connect using: Hercules Wireless G USB This connection uses the following items:	Configure rks Driver Properties The default ication	6.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4). Click Properties.
Wireless Network Connection Properties etworking Sharing Connect using: Hercules Wireless G USB This connection uses the following items:	Configure rks Driver Properties The default ication Cancel	6.	In the Wireless Network Connect tab, select Internet Protoco (TCP/IPv4). Click Properties.

- ection Status
- window, click

ion Properties I version 4

neral Alternate Configu	uration				
ou can get IP settings as his capability. Otherwise, or the appropriate IP set	ssigned autom , you need to ttings.	atically if ask your	your n networ	etwork k admir	supports histrator
Obtain an IP address	s automatically				
OUse the following IP	address:				
IP address:		e	10		
Subnet mask:		1.1		3	
Default gateway:		÷.	- 42	- 2	
Obtain DNS server a	address autom	atically	Ĩ.		
OUse the following DN	NS server addr	esses:			
Preferred DNS server:					
Alternate DNS server:				9	
				_	
				Adv	anced
		_			

- 8. In the Internet Protocol version 4 (TCP/IPv4) window, select Obtain an IP address automatically and Obtain DNS server address automatically.
- 9. Click OK to validate.
- 10. Do the same for Internet Protocol version 6 (TCP/IPv6).

To access the Internet, simply launch your Internet browser.

4.3. Computers running Windows XP: Sharing folders, a printer or an ADSL connection

A simple solution for sharing folders, a printer or an **ADSL** connection in Windows XP is to use the **Network Setup Wizard**. This Wizard will help you create a real home network.

Note: the access paths mentioned below may vary slightly if you have modified the default display configuration in Windows XP (meaning the Start menu properties and Control Panel display).

4.3.1. Windows XP: Using the Network Setup Wizard in an <u>Infrastructure</u> network

Proceed as follows for each computer:

- HyperTerminal
 Network Connections
 Network Setup Wizard
 New Connection Wizard
 Remote Desktop Connection
- 1. Click Start/All Programs/Accessories/ Communications/ Network Setup Wizard.

The Network Setup Wizard is launched.

2. Click Next twice.





<Back Next> Cancel

Learn more about home or small office network configurations.

The window opposite may appear if **The Wizard** found disconnected network hardware.

3. If your Hercules Wireless Adapter wireless network connection is not displayed in the list, tick the Ignore disconnected network hardware box, then click Next. Otherwise, exit the Wizard by clicking Cancel and establish the connection from your network device to your router (if you use a Hercules Wireless G PCI, USB or PCMCIA adapter, please refer to the "The WiFi Station utility" chapter of your User Manual).

The window opposite may appear if **The Wizard** found a shared Internet connection on the computer.

4. Select No, let me choose another way to connect to the Internet, then click Next.

5. In the Select a connection method window, select the Other option.

 In the following window, select This computer connects to the Internet directly or through a network hub, then click Next.

Network Setup Wizard
Select your Internet connection.
Select your Internet connection from the following list. Connections: Viveless Network: Connection 2 (201211)/EEE 802.11b+g USB Adapter Viveless Network: Connection Hercules Viveless 6 Local Area Connection D-Link DFE-S301X PCI Fast Ethemet Adapter (rev.A)
Learn more about how to determine your Internet connection.
<back next=""> Cancel</back>
Network Setup Wizard
This network configuration is not recommended.
The network configuration you selected is not recommended because more than one computer connects directly to the internet. There is no reliable way to share files between computer while protecting you computer from internet security threats. Microsoft recommends a residential gateway: This wicard will enable the internet Connection Fitewall (ICF) on this computer. ICF will protect this computer from internet Security threats, but it might also prevent this computer. ICF will protect this occupiter from internet Security threats, but it might also prevent this computer. ICF will protect the other computers on your network. To learn about better network, configurations or advanced networking techniques applicable to your current configuration, see <u>learnetwork configurations</u> in Help and Support Center.
< Back Next> Cancel
Network Setup Wizard
Your computer has multiple connections.
You have more than one connection on this computer. The wizard can "bridge" these connections, so that other computers using them can communicate. The wizard needs to know which connections are for your network. ③ Determine the appropriate connections for me (Recommended) ○ Let me choose the connections to my network.
Learn more about <u>network bridging</u> .

<Back Next>

Cancel

7. If the window opposite appears, select the Hercules Wireless network connection, then click **Next**.

8. When this warning screen appears, ignore it by clicking **Next**.

If you are using the Hercules router, your computers are already protected by the integrated firewall.

- If your computer has at least three connections (or network devices), the window opposite appears. In this case, let the Wizard determine the appropriate connections.
- 10. Click Next.





<Back Next> Cancel

11. Enter the computer name and a description, if required.

Give the computer a name that is unique and sufficiently distinctive, making it easy to recognize on your network (my-computer, wifi-computer or julie, for example).

12. Click Next.

 Enter the workgroup name (HOME, OFFICE or HERCULES, for example) and a description, if required.

The workgroup name must be identical (be sure to respect the case of letters) for all computers you wish to link together in a network.

- 14. Click Next.
- Verify the configuration settings you have entered in the window that appears, then click Next.

The Wizard configures the computer for the home network. This may take a few minutes.

16. Before completing the procedure, you may select the Create a Network Setup Disk option. This consists of copying this Wizard onto a storage medium (your choice of floppy disk or USB key) so that it can be launched on computers equipped with operating systems other than Windows XP.

This operation is carried out automatically, once you have selected a medium for saving the Wizard.

Network Setup Wizard	
	Completing the Network Setup Wizard
KARON -	office networking.
HI M	For help with home or small office networking, see the following topics in Help and Support Center:
	Using the Shared Documents folder Sharing files and folders
	To see other computers on your network, click Start, and then click My Network Places.
	To close this wizard, click Finish.
	< Back Finish Cancel

17. Click Finish to exit the Wizard.

Once the procedure is finished, Windows XP may prompt you to restart your computer.

The procedures described in this chapter are specific to Windows XP. For all other questions related to sharing folders, a printer or an Internet connection, or on using Windows, please refer to the Windows online help utility.

4.3.2. Windows XP: Sharing folders

After having configured all of your computers using the Network Setup Wizard, you can now share data located on different disk drives, as long as the user has authorized access.

ieneral	Sharing	
Local	sharing and secu	unity
5	To share this f only, drag it to	older with other users of this computer the <u>Shared Documents</u> folder.
	To make this f only you have	older and its subfolders private so that access, select the following check box.
	🔲 Make this I	folder private
9-9	and type a sha Share this Share name:	are name. folder on the network My Music
	Share name:	My Music
	Allow netw	ork users to change my files

1. Select the folder you wish to share, without opening it.



- 2. Right-click the folder. Select Sharing and Security.
- 3. In the Network sharing and security section of the Sharing tab, tick the Share this folder on the network box.
- On the Share name line, enter the folder name as it will be displayed on the network (12 characters maximum to ensure compatibility with other operating systems).

You can also tick the **Allow network users to change my files** box. In this case, the user will be able to read files and save any changes. If this box is not ticked, the shared files can only be read, and not changed. The [Shared folder name] Properties window is divided into two sections. Local sharing and security only allows for the sharing of files among several users on the same PC. The files are then placed in a Shared Documents folder. Network sharing and security, however, allows for the sharing of files among more than one computer.



5. Click **Apply** to validate your choices, then click **OK** to close the window.

An icon representing a hand beneath the folder indicates that the folder is now shared.

You can only share the contents of a folder, and not an individual file. We therefore recommend that you create a folder specifically for this purpose where you will put files to be shared.

4.3.3. Windows XP: Accessing shared folders

To easily access folders set up for sharing by several computers, it is preferable that the computers belong to the same workgroup. In Windows XP, the workgroup name has been defined using the Network Setup Wizard.



- 1. Click Start/My Computer.
- 2. Click My Network Places, then click View workgroup computers.

You directly access the list of computers in your workgroup.

- 3. Double-click the computer that is sharing the folders you wish to access.
- All shared folders appear.

4.3.4. Windows XP: Sharing a printer

It is possible to put a printer on the network and share it with all computers in the house equipped with a WiFi adapter.

To access a printer on the network, the printer must be set up for sharing on the computer where it is connected and installed.

On the computer connected to the printer:



 Click Start/Control Panel/Printers and Other Hardware/ Printers and Faxes.
 Right-click the printer and select Sharing.

3. In the **Sharing** tab, select the **Share this printer** radio button and enter a name for your printer.

Give the printer a name that is unique and sufficiently distinctive, making it easy to recognize (my-printer or home laser printer, for example). If one of your computers is running Windows 98 SE, we recommend that the sharing name not exceed 12 characters (without spaces) in order to ensure its compatibility with this operating system.

4. Click Apply, then OK.

On the computers that will use the shared printer:

Princer Tasks		۲
Add a print	er	
land .		
log Set up faxi	ng	
Printer Wizard		
.ocal or Network Printer The wizard needs to know which type of	printer to set up.	
Select the option that describes the printe	e you want to use:	
O Local printer attached to this computer	1	
Automatically detect and install my	Plug and Play printer	
	(Back Next)	Cancel
Printer Wizard		
Trowse for Printer When the list of printers appears, select the	he one you want to use.	Ì
Nowse for Printer When the list of printers appears, select the Printer: Laser printer	he one you want to use.	Ŷ
trowse for Printer When the list of printers appears, select the Printer: Laser printer Shared printers:	he one you want to use.	Ì
trowse for Printer When the list of printers appears, select th Printer: Laser printer Shared printer: Talk. Hollow: Network.	he one you want to use.	Ŷ
Itowse for Printer When the list of printers appears, select it Printe: Laster printer Shared printer: The American Mindows Network HOME Calify June 1990	he one you want to use.	A
Inower for Printer When the list of printers appears, select II Printer: 24 Microsoft Windows Network: 25 MME 26 Microsoft Windows Network: 26 Microsoft Windows Network: 27 Microsoft Windows Network: 27 Microsoft Windows Network: 28 Microsoft Windows Network: 29 Microsoft Windows Network: 20 Microsof	he one you want to use.	9
Interest for Parket When the list of printers appears, select th Printer: Laco printer System Strategy HOME Printer: Electronic Virtuaria Printer information Printer information	he one you want to use.	
Interest for Parket When the list of privers appears, select th Parket. Loss privets Parket Scool Windows Network. Parket Scool Windows Network. Parket Scool Windows Network. Parket Scool Windows Network. Parket Scool Windows Network. Status: Ready	he one you want to use.	0

- Click Start/Control Panel/Printers and Other Hardware/ Printers and Faxes. In the Printer Tasks section, select Add a printer.
- 2. The Add Printer Wizard is launched. Click Next.
- 3. Select the A network printer, or a printer attached to another computer option, then click Next.
- 4. In the window that appears, click **Next** to launch the search for shared printers.

- 5. In the list displayed, double-click the computer connected to the printer.
- 6. Select the shared printer, then click Next.
- If you wish, set the shared printer as the default printer, then click Next.



8. Click Finish to exit the Wizard.

You can now use the network printer thanks to your WiFi connection. For more information on sharing a printer, please refer to your printer's manual.

4.3.5. Windows XP: Modifying a workgroup name

It may happen that you need to change the name of your workgroup (advanced users only). To do so, proceed as follows:



- 1. Click Start/Control Panel/Performance and Maintenance/System.
- 2. In the System Properties window, select the Computer Name tab.
- 3. Click the Change... button.
- In the Computer Name zone, enter a name sufficiently distinctive that it can easily be recognized in the list of computers for the workgroup (my-computer, wificomputer or julie, for example).
- 5. In the **Workgroup** zone, enter a name for the group (HOME, OFFICE or HERCULES, for example).

The workgroup name must be identical (be sure to respect the case of letters) for all computers you wish to link together in a network.

- A Windows message indicates that the task has been carried out successfully and that you must restart the computer.
- 7. Repeat this procedure for each computer.

4.3.6. Windows XP: Manually enabling or disabling your adapter's WiFi connection (advanced users)

You can manually enable or disable your adapter's WiFi connection for a variety of reasons: to temporarily avoid connecting to networks, save battery power, etc.

Name		Туре	Status
LAN or High-Speed In	ternet		
Local Area Connection		LAN or High-Speed Inter	Enabled
¥ Wireless Network Cone	Enable Status	AN or High-Speed Inter	Disabled
	Create Shortcut Delete Rename		
	Properties		

- Click Start/Connections/Show All Connections.

Verify that your Hercules Wireless network connection is listed.

- If its status is **Disabled**, right-click your **Wireless Network** Connection and select Enable.
- If its status is Enabled, right-click your Wireless Network Connection and select Disable.

5. WIFI MANAGER N FOR ADVANCED USERS

WiFi Manager N has been designed to respond to the needs of the widest cross-section of the public. Thus, after having explained the most useful functionalities in the previous chapters, we dedicate this chapter to users who wish to take advantage of the subtleties of WiFi, and explore their router's more advanced functionalities. **But be careful!** Modifying certain settings may have a negative impact on the proper functioning of your network, and therefore on your router. You should bear in mind, however, that nothing is irreversible, and that you can always return to the original configuration or reload a personalized configuration.

 Δ In certain cases, your settings will only be taken into account after WiFi Manager N has restarted.

5.1. Configuring your WiFi network's advanced options

This window contains the settings which affect the functioning of your Hercules router. If you do not know their functions, we recommend that you keep the default settings.

Expert mode

					-
12000			English (Ho
iF network	Exper	t WiFi settir	igs		
Export WiPi settings	Warning	these settings are res	erved for advanced	users with sufficient	t knowledge
MAC address filtering	have a go	od idea of the effects th	is will have on the re	build not be changes outer.	d unless you
ternet firewall		Fragmentation t	hreshold: 2346		
DM/		RTS threshold:	2347		
Denial of Service		Beacon Period:	100		
Universal Plug and Play		0	ata rate: 🚺 Auto		
65		Channel bandwidth	- M Auto 20/408442	201012	
utar/Access Point (AP) mo	te	Preamble type: Proadcast PSSID: CTS protect:	Long presettle	Short preamble Disabled None	
	Cancel				Apply
Connection st	atus:	WiFis	etwork status:	Connected	devices:
Connection status: Conn Connection type: DHCF Internat IP address: 192.1	octod Clent 68.1.2	WiFi nstwork: WiFi security: NAC address hiter	Enabled WPI/2 Mixed	192.184	3.2.100

- On the WiFi Manager N home page, click the **Expert mode** button.

- In the WiFi network tab, click the Expert WiFi settings option.

- The **Fragmentation threshold** consists of defining the size at which data packets are fragmented. If the size is less than the predefined amount, the packet is not fragmented. By contrast, if the size is greater, the packet is fragmented before being transmitted, then reconstituted at the access point.

Fragmentation lets you improve the success of transmissions.

- When an **RTS threshold** is defined, the wireless device asks the **access point** for authorization to transmit data, thereby avoiding data arriving simultaneously (risk of collision).

Modifying the RTS threshold may affect your router's performance.

- The Beacon Period allows you to define the wireless network detection interval.

- The **DTIM** interval corresponds to the interval between two synchronous frames containing information on the transmission messages.

- The **Data Rate** corresponds to the speed at which data packets are transferred, both being sent and received. It is set to **Auto** by default, but can be adjusted from **1Mbps** (min) to **54Mbps** (max).

- The N Data Rate is specific to the transfer of data in the 802.11n standard. The values vary from MCS0 to MCS15.

- Select the channel bandwidth.

Select bandwidth of **20MHz** (on one channel) to limit interference, or define a higher bandwidth, **40MHz** (two channels), for transmission of your data in total comfort.

- The **Preamble type** defines the size of WiFi packets. A **Short** preamble optimizes transfer rates at the expense of WiFi coverage. A **Long** preamble (selected by default) favors WiFi coverage by way of longer latency times.

- If you do not wish for your network to broadcast its name, select the Disabled radio button.

If the SSID is hidden, the name of the network will not be displayed during detection by a WiFi client (the Network name (SSID) is empty in Hercules WiFi Station N, for example).

Be sure to remember this name, as you will need it to connect your WiFi devices.

- CTS (Clear-To-Send) protection guarantees the connection of wireless B, G and N devices to the Hercules Wireless N Router when using wireless B, G and N devices at the same time on the network.

Enabling this function may reduce the speed of your Hercules Wireless N Router.

5.2. Configuring your Internet firewall

In this chapter, you will learn how to lower certain defenses in order to authorize access to your computers or your IP or WiFi camera for specific Internet services (P2P, web/FTP servers, viewing your camera on the Internet...), or shore up other defenses to limit access on a specific computer to certain remote or Internet services. Finally, you also have the possibility of redirecting all Internet requests to a computer whose address you have specified.

5.2.1. Opening doors in your firewall to put your camera online or authorize access for a computer to certain Internet services

If you wish to put a camera online, or if you would like for your computers to be able to either provide specific Internet services (P2P, web/FTP servers...), or access specific services, you will have to open up minidrawbridges (referred to as ports) in your firewall using **port forwarding**.

To put your camera online or authorize access to one or more of your computers for specific Internet services (automatic mode):



- On the WiFi Manager N home page, click the **Internet firewall** button.

VIFI Manager N

Interne

- Click the Port Forwarding button.

 Instruct interval
 Duration in the main one many are one construct a consolite via the intervent

 Instruct interval
 Duration interval

 Instruct interval
 Duration intervent

 Instruct interval
 Duration intervent

 Instruct interval
 Duration intervent

 Instruct intervent
 Duration intervent

 I

Port Forwardin

your Router's Fi

Home	Toolbox I	roduct informati	m English 1	Expert n	101
	Internet frewall -	> Port Forwardin	1		1.1
	Computer on w	hich the service w	Service name Il be applied: Select a co	nputer from the list [;]	
Will settings			or IP address	=.=	
Internet firewall		Сотти	nication ports 1		
Planning your WiFi network	Service name	Curro 1P address	ntly defined services: Communication ports	Protocol Remove	
Automatic WFi client connection (WP5)					
Router's IP configuration	Previous				1
Connection sta	tus:	Wifi n	etwork status:	Connected devices:	
Connection status: Connection type: DHCP Internet IP address: 192.18	cted N Client N 56.1.2 M	tiFi network: tiFi security: IAC address filter	Enabled WPA2 Mixed no: Disabled	192.168.2.100	

- In the Add a rule list, select a predefined application: Webcam or IP camera, Peer to Peer, Online gaming...

- Select the name of the **computer**, connected to the router, on which the service will be applied, or enter its **IP address**.

- The other settings are filled in automatically.

- Click the Add button.

The computer is added to the list. You can then **modify**, **remove** or **view** the contents of the list.

- Click the **Apply** button to validate your settings and return to the home page.

⚠ If you wish to modify the default number of ports and save the rule with different values than those predefined, click the 🥖 icon.

Next, enter the new port numbers.

This procedure does not modify the default values entered in the router, but rather creates a new rule.

If you subsequently remove this rule, then add it again, the modifications you have made will be lost and the default values will apply.

To put your camera online or authorize access to one or more of your computers for specific Internet services (manual mode):

- On the WiFi Manager N home page, click the **Internet firewall** button.

			ACC	Expert m
	Inter	net firewall		
	Welcome	to your Router's Fire the Internet accordin	wall section, which will al g to your preferences.	llow you to set the rules for
S Will settings			Port Forwarder	na
Internet firewall	Do you Example: 'Peer to l yo	wish to make one car Putting online one Wi Peer". Example: Hosti ur computers. You mu	Fi camera or one computer ac Fi camera or one IP camer og of an Internet site, FTP st personalize your "Port I	ressible via the Internet? a. Example: Sharing files for site, or email site on one of Forwarding function.
Planning your WiFi notwork Automatic WiFi			P Filtering an	d website blocking
Router's IP configuration	Do vou Internet certai	wish to limit access o g Example: Prohibit ac n "Peer to Peer" sites.	d one of your computers cess to the Internet. Exar You must personalize you	to remote services on the mpla: Prohibit connecting to ar "IP Filtering" function.
Connection s	tatus:	Wir	I network status:	Connected devices:
Connection status: Con Connection type: DHC	nected P Client	WiFi network: WiFi security:	Enabled WPA2 Mixed	192.168.2.100

- Click the Port Forwarding button.
- In the Add a rule list, select Other rules.

- Enter the service name in the dedicated zone (for example, peer to peer).

- Select the name of the **computer**, connected to the router, on which the service will be applied, or enter its **IP address**.

- Select the **protocol** (TCP, UDP or TCP and UDP).

Scenario 1: you enable the range of ports

- Enter a value in the **Start port** and **End port** fields (between 1 and 65535).

You can specify a single port by entering the same start and end port.

The fields for external and internal ports will be inaccessible and will take on the same value.

Scenario 2: you disable the range of ports

The fields for start and end ports will be inaccessible.

- Enter a value in the **External port** and **Internal port** fields.

The external port corresponds to the port on the router at which the request arrives (connection to the Internet, for example). It is supplied by your ISP. The internal port corresponds to the port to which the request is redirected.

You can specify a single port by entering the same external and internal ports.

- Click the Add button.

The computer is added to the list. You can then **modify**, **remove** or **view** the contents of the list.

- Click the **Modify** button to validate your settings and return to the home page

5.2.2.Limiting access of one of your network computers to Internet services

By default, the computers are able to access all Internet services. If you wish to limit access on one specific computer to certain Internet services, however (Internet access, Peer to Peer sites...), you can use the **IP** address filtering and website blocking system.

Home	Toolbox Product information English (1)
	Internet firewall> Port Forwarding
Internet	Service name
seamys	Computer on which the service will be applied: [Select a computer from the list] 1 or
WiFi settings	IP address
and a state of the	Protocol (Both 2)
Internet firewall	Communication ports
Planning your WiFi	Currently defined services:
Automatic WFi dient connection (WP5)	Service name 1P address Communication ports Protocol Remove
Router's IP configuration	Previous
Connection sta	tus: WiFI network status: Connected devices:
Connection status: Conne Connection type: DHCP Internet IP address: 192.10	Internet WiFi network: Enabled 192,160,2:100 Client WiFi security: WPA2 Mixed 50.1.2 MAC address filtering: Disabled
)	Han

To limit access on a specific computer to an Internet service (filtering method by IP address):



- On the WiFi Manager N home page, click the Internet firewall button.

- Click the **IP Filtering and website blocking** button.

- Enter the **service name** (for example, FTP server).

- Enter the IP address or the range of IP addresses of the computers in question.

- Click the Add button.

The service is added to the list. You can then **modify**, **remove** or **view** the contents of the list.

- Click the **Apply** button to validate your settings and return to the home page.

To limit access on a specific computer to an Internet service (website blocking method):



- On the WiFi Manager N home page, click the Internet firewall button.

- Click the IP Filtering and website blocking button

- Enter the **website** you wish to block by entering its URL (www.example.com).

Or:

- Enter a **keyword** (for example, violence), which will block access to any site containing this word..

- Click the Add button.

The website or keyword is added to the list. You can then **remove** contents from the list.

- Click the **Apply** button to validate your settings and return to the home page.

5.2.3. Redirecting Internet requests to a specific computer

To protect the computers on your network from any unwelcome Internet requests, you can create a demilitarized zone (or DMZ) which will redirect these requests, on whatever port, to a specific computer. This computer will process the requests according to the type (game server, FTP server...).

Although this operation allows you to protect the computers on the network, the computer to which the requests are directed itself becomes vulnerable to attacks.

in the loger is				0.
and the second second	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	English	:	Hom
AiFi network	UMZ			
Export WiFi sottings MAC address filtering	DH2 stands for Demilter of unbloking all inboom protected by the reuter.	ized Zone. Adding a compu d and outbound ports, and This option should only be (for to the DH2 will h I your computer with used as a last resort.	ava the affect i no longer be
ternet frewall				
DDNS				
CDM2	Computer	a th address		
Denial of Gervice Universal Plug and Play	Computer in 1	the DMZ zone: Select a co	mputer from the list	:
Qo6		Add		
outar/Access Point (AP) mode		Computer's IP address:	Remove	
Imezone server				
	Cancel			
			-	The second second

- On the WiFi Manager N home page, click the **Expert mode** button.

- In the Internet firewall tab, click the DMZ option.

- Enter the IP address of the computer to which Internet requests will be directed or select its name in the drop-down list.

- Deselect the applications you do not wish to include.

- Click the Add button.

The table displays the rules applied to the router.

- Click the **Apply** button to validate your settings and return to the home page.

5.2.4. Protecting yourself from Internet attacks with the DoS (Denial of Service) function

The **DoS** (Denial of Service) function protects you from external attacks. When this function is enabled, your firewall is able to send large volumes of requests in order to saturate the hacker's bandwidth and prevent the hacker from continuing to send or receive data.



Expert mode

- On the WiFi Manager N home page, click the **Expert mode** button.

- click the Denial of Service option.

- **Ping of Death** consists of sending ping packets of more than 65535 bytes.

- Block WAN ping allows you to disable the WAN ping.

- Scan ports consists of detecting possible vulnerabilities on the ports.

 Sync Flood sends a flood of TCP/SYN packets, often accompanied by a false issuing address, with each of these packets being treated as a connection request.

- Click the Apply button to validate your choices.

5.3. A toolbox with multiple facets

WiFi Manager N functions as a toolbox which can help you to correct any mistakes you might make.

5.3.1. Restoring your original settings

If you have modified certain settings – whether intentionally or not – and wish to restore the original settings, follow the instructions below.

During the restoration, all settings that you have previously modified (Internet connection mode, WiFi security key, filtering by MAC address...) will be lost!

×

To restore the original settings:



Are you sure you wish to restore all initial factory settings defined by the manufacturer? Warning: all settings you have previously modified will be lost (Internet connection settings,

NO

YES

- On the home page, click the **Toolbox** tab.
- Select Restore original settings.

- Click $\ensuremath{\textbf{YES}}$ to confirm restoration of the original settings.

You can also use the Reset button located on the router:

- Press the **Reset button ④** for 10 seconds using an object with a pointed tip.

- Release the button, then wait.

Your router will load its original settings and then restart.

5.3.2. Loading and saving a configuration

At any time, you can save a configuration containing your preferred settings, or load a specific configuration according to your needs.

To load a configuration:

WiFi security key...)!



- On the home page, click the **Toolbox** tab.
- Select Configuration management.

- Click the Set button.

- Select your configuration file, then click Open.
- Click Load a configuration.

Your Hercules router will now use this new configuration.

To save a configuration:



- On the home page, click the Toolbox tab.

- Select Configuration management.

- Click the saving location.

- Enter the name of the configuration file.

- Click Save the active configuration.

The file will be saved with the default extension.

5.3.3. Updating firmware

If you wish to take advantage of new functionalities or improved functionalities for your Hercules router, we recommend that you regularly visit the **www.hercules.com** website to check whether any firmware updates are available.

We strongly recommend that you carry out firmware updates while connected by the Ethernet cable (and not via WiFi).

During the update, all settings that you have previously modified (Internet connection settings, WiFi security key...) will be lost!

If a firmware update is available:

- On the www.hercules.com website, click the Support/FAQ link.
- Follow the on-screen instructions provided. Then:



- On the home page, click the Toolbox tab.
- Select Update.

- Click the Set button.

- Select your firmware file, then click Open.
- Click Update to import the data.

Your Hercules router will now use this new firmware version.

5.4. Other advanced options

5.4.1.Assigning priority to a type of data in the event of an overloaded network

WiFi Manager N, using the **QOS** (Quality of Service) function, allows you to ensure the continuity of data streams, even on an overloaded network, by giving priority to a specific stream in relation to other data streams. To access the **QOS** function:

iri nanager k	and the second		140	and the second second	0.
	0.05	(<u>znyis</u> n			Hon
AFi network	400	100.			-
Expert Wiri settings		-	inable QoS		
MAC address intering		Manager and supplicity on some d	voconiauc upink sp	leeu	
Internet firewall		Marical uplink speed	kbps		
DDNS	OnS rule:				21
DM7	decrease	Role name			21
Denial of Service	Commenter and inhibits the	a second to a second to a	Parlant a Committee	Course libro Tot [*]	
Universal Plug and Play	computer on which the	e service will be applied.	Jeeu a compare	rion ore ract -	21
Part .		ID address			1
405		IF BULLERS			
louter/Access Point (AP) mode		HODAL	Collectories of mout	num Danowidth	2
		Conception analylised a	we note		21
Timezone server	IP address	Role name	Randwalth	Parmetter	11
					11
	1000				14
Connection state	15:	WIFI Betwork statu-	e (onnected device	152
Connection status: Connect	wifi ne	twork: Enabled		192.168.2.100	
Connection type: DHCP C	lient Will se	curity: WPA2 Mbc	ed		

Expert mode

- On the WiFi Manager N home page, click the **Expert mode** button.

- In the QoS tab, click the QoS option.
- Enable the QoS function.

- If you wish, you can set an **automatic uplink** speed and enter its maximum value in Kbps.

- Enter the name of the rule and the computer on which the rule will be applied.

Or:

- Enter the IP address of the transfer server.

- Select a priority: guaranteed or maximum.

The **maximum priority** corresponds to the highest level of priority. The principle consists of using the required bandwidth for the immediate transfer of data.

The **guaranteed priority** guarantees the traffic of data according to the availability of bandwidth.

5.4.2. Configuring the DHCP server

This chapter will explain how to configure the internal DHCP server which manages the IP addresses of your computers.



- On the WiFi Manager N home page, click the Router's IP configuration button.

- You can modify the **Router's IP address** (192.168.2.1, by default) and its **subnet mask** (255.255.255.0, by default).

Be sure to make a note of this IP address. Without it, you will not be able to reconnect to your router.

Hame	Toolbox	Product informatio	n English 1	Expert i	1100
	Router's	IP config	uration		
Internet settings	Disabling DHCP computers on th	will oblige you to a nativork.	Chable DHCP manually assign an JP	address to each of your	4
Wifi settings		IP i Start IP a	eddress lease time idress: 102 - 168 - 2	, 100	1
Internet firewall		End IP a	ddress: 192 . 168 . 2	200	
Planning your WiFi natwork	IP address:	Associate an R	Address with a MAC ad MAC address:	dress nameniamen	
Automatic WiFi dient connection (WPS)		Association table of	MAC addresses and IP a	addresses	
Routers IP configuration	IP addre		NAC address:	Remove	
Connection sta	itus:	WIFI ne	twork status:	Connected devices:	
Connection status: Connection type: DHCP Internet IP address: 192.1	Client	NiFi network: NiFi security NAC address filterit	Enabled WPA2 Mixed Ig: Disabled	192.168.2.100	
				h	ŝ

- If you enable DHCP, you can modify the start IP address (192.168.2.2, by default), the end IP address (192.168.2.128, by default) and the lease time for these addresses (Forever is the default value).

- If you **do not enable DHCP**, you decide to set the IP address for each computer yourself.

- You can assign a **domain name** to this server and a specific **IP address** according to the computer's **MAC address**.

The table displays the list of IP and MAC addresses added.

- Click the Apply button to validate your settings.

5.4.3. Facilitating connection of devices with the UPnP protocol

WiFi Manager N's **UPnP** protocol has the objective of facilitating the connection of devices on the network for the sharing of files or of the Internet connection, for example, by carrying out an automatic identification of the computer's components.

To enable the UPnP protocol:

Expert mode

'iFi Manager N				
-	1.122		English [1]	
WE network	Univers	sal Plug an	d Play	
Papert Will settings MAC address filtering Internet firewall DDNS DM7	UPNP allows gives you ac devices feat detect the c configuration another.	for a great number bess to the Zero Col uning this function. A tharactenstics of all h. This procedure :	r of advantages with a inguration function and device can therefore du other connected device allows all UPNP device allows all UPNP device	ny other compatible device. Il automatically detects any new namically point the network and a without any previous marua is to communicate with one s to communicate with one
Denial of Service				
Universal Plug and Play		L Enable 1	the UPAP sunction on the	e router
QoS				
louter/Access Point (AP) mode				
Timezone server				
	Cancel			Apply
Connection stat	0i\$:	WIFI	network status:	Connected devices:
Connection status: Connec	ted Sient	WiFi network: WiFi security	Enabled WPA2 Mixed	192.168.2.100

- On the WiFi Manager N home page, click the **Expert mode** button.

- Click the Universal Plug and Play option.
- Tick the Enable the UPNP function on the router box.
- Click the Apply button to validate your choice.

5.4.4. Linking an IP address to a dynamic domain name server

Thanks to the **Dynamic DNS** (or DDNS) function in WiFi Manager N, your IP address is always known to your domain name server. Simply enter the supplied password and username and the Dynamic DNS service takes care of regularly sending your router's public IP address (that assigned to your router's Internet connection by your service provider).

Note: You must have subscribed to a Dynamic DNS service.

iFi Manager N		00			
and the second second	Englis	A SI Hom			
MD network	DDNS				
Expert WiFi settings MAC address filtering	A dynamic domain name system allows yo (generally the one supplied by your Interme name system (CNS). To do so, you must subs list below, and enter your identifiers supplied.	su to associate a dynamic IP address it access provider) with a static domain orbe to a domain provider individed in the by the domain provider.			
Internet firewall	Enable DDNS				
DM7 Denial of Service	Provider (DynD	n(s](\$)			
Universal Plug and Play	Domain name				
	User name/Email				
205	Password/Key				
louter/Access Point (AP) mod	•				
Timezone server					
	(Cancal)	(Apply)			
Connection sta	tus; WIFI network state	us: Connected devices:			
Connection status: Conne Connection type: DHCP	thad WiFi network: Enabled Client WiFi security: WPA2 M	192:169.2.100			

- On the WiFi Manager N home page, click the **Expert mode** button.

- In the Internet firewall tab, click the DDNS option.

- Tick the Enable DDNS box.

- Select the **DDNS provider** to which you have subscribed, then enter the required information (username and password).

These items of information were supplied when you subscribed to the service.

- Click the Apply button to validate your choice.

5.4.5. Selecting router or access point mode

In WiFi Manager N, you can switch your Hercules Wireless N Router between router and access point modes. **Router** mode lets you access the Internet from several computers in your home and share your data on a local area network. **Access point** mode lets you provide wireless and Ethernet access to different neighboring devices.

If you already have a router and decide to use **router mode**, you will have two firewalls, and two routing functions for two redundant WiFi networks (that of your router if it is equipped with a WiFi function, and that of your Hercules Wireless N Router). In that case, it is preferable to opt for **access point** mode, which disables the router function. In this mode, only a single WiFi network exists to which all of your computers and WiFi devices will connect. You should therefore disable the WiFi function of your modem/router if it is equipped with one.

To select router or access point mode:



- On the WiFi Manager N home page, click the **Expert mode** button.

- In the **Router/AP mode** tab, click the **Router/AP mode** option.

- Tick the box corresponding to the mode you wish to use.

The mode selected during the installation is ticked by default.

5.5. Product information

WiFi Manager N allows you to view all of the information relating to the functioning of your Hercules router.

To consult product information:

Home Tobber	Engish 11
WiFi MAC address: 00:e0:4c:81:90:b1	INTERNET CONNECTION Connection status Connected
LAN SECTION DRCP server status Enabled Bouter IP address 192.160.2.1 Subnet mask: 255.253.255.0	Commercial Particles (Commercial Commercial
WIFI (WLAN) SECTION WFI natvrark status: Encloid Network name: Heroalas Channel number: Auto	FIRMWARE Version: v1.45
Will security: WPA2 Mixed MAC addreas titlering: Disabled	HARDWARF Varison: v0.2.3
Connection status:	WiFi network status: Connected device:
section status: Connacted WiF network nection type: DHCP Client WiF sect wiF sectors 12 100 1 2	vork: Bnabled 192.160.2.100 unity: WPA2 Mixed news filtering: Usabled

- On the home page, click the $\ensuremath{\text{Product information}}$ tab.

The following items of information are displayed: **MAC address** of your Hercules router, status of the **ADSL** connection, of the local area network and wireless network, as well as the firmware and hardware versions.

6. GLOSSARY

802.11

Standard established in 1997 by the IEEE (Institute of Electrical and Electronics Engineers, an American organization), defining wireless networks in the 2.4 – 2.48GHz frequency range and offering transfer speeds of between 1 and 2Mbits/s. Revisions have been made to the original standard in order to optimize transfers (this is the case for the 802.11a, 802.11b and 802.11g standards, referred to as physical 802.11 standards) or to ensure better security or improved interoperability of equipment.

802.11b

Standard established by the IEEE (Institute of Electrical and Electronics Engineers, an American organization) in the 802.11 family, allowing for theoretical transfer rates of 11Mbits/s in the 2.4GHz frequency range with a physical range of up to 300m in an environment free from obstructions. The frequency range used is the 2.4GHz band, with 3 radio channels available.

802.11g

Standard established by the IEEE (Institute of Electrical and Electronics Engineers, an American organization) in the 802.11 family, allowing for theoretical transfer rates of 54Mbits/s in the 2.4GHz frequency range with a physical range of up to 300m in an environment free from obstructions. The 802.11g standard offers backwards compatibility with the 802.11b standard, which means that equipment compliant with the 802.11g standard will also work with 802.11b.

802.11i

Standard established by the IEEE (Institute of Electrical and Electronics Engineers, an American organization) in the 802.11 family, whose goal is to improve security by integrating WPA-PSK authentication into AES encryption. This Hercules adapter is compatible with this standard.

802.11n

Standard established by the IEEE (Institute of Electrical and Electronics Engineers, an American organization) in the 802.11 family, allowing for theoretical transfer rates of 300Mbits/s in the 2.4GHz frequency band with a physical range of up to 300m in an environment free from obstructions. The 802.11n standard offers backwards compatibility with the 802.11b and g standards, which means that equipment compliant with the 802.11n standard will also work with 802.11b and/or g.

Access point

The access point is the heart of your local WiFi network. The system access point is a wireless router whose function is to bring several clients together, which is to say link together all computers equipped with WiFi adapters, thanks to its radio antenna.

Ad hoc mode

Mode allowing several computers equipped with WiFi to communicate directly with one another. This mode is also referred to as Peer to Peer.

ADSL (Asymmetric Digital Subscriber Line)

This equipment, connected to a standard telephone line, offers great speed in terms of sending and receiving data.

AES (Advanced Encryption Standard)

A symmetrical block-based encryption standard supporting different key lengths, this is a powerful, quick and efficient encryption method.

ATM (Asynchronous Transfer Mode)

High-speed transfer mode for fixed-size data.

CCK (Complementary Code Keying)

Advanced encoding scheme for radio waves in wireless networks allowing for high transfer speeds.

Client

Computer equipped with a PCI, USB or PCMCIA WiFi adapter.

DHCP (Dynamic Host Configuration Protocol)

Protocol managing the allocation of IP addresses to computers.

DSSS (Direct Sequence Spread Spectrum)

Technique for using radio frequencies in broad-spectrum wireless networks meant to increase the range of transmissions.

ESSID (Service Set Identifier)

8 to 32-character identifier, often abbreviated as SSID, serving as the unique name for a network shared by clients and the access point.

Ethernet port (or RJ-45)

Port allowing for the connection of two devices via a cable, such as a PC and a router, in order to exchange data packets without collision.

Filter

Device placed between the telephone plug and the modem to improve the quality of telephone communications, which are often degraded by ADSL signals.

Firewall

Combination of software and security devices protecting a network connected to the Internet.

Infrastructure mode

Communication mode consisting of grouping together several computers equipped with WiFi in a network via a wireless access point such as the Hercules ADSL router.

IP address

Unique computer address assigned by the router. Each computer has its own IP address, allowing it to be identified within the network.

LEAP (Lightweight Extensible Authentication Protocol)

Security protocol developed by the company Cisco for the world of Windows. The format used is identifier/password.

MAC address (Message Authentication Code)

Unique address created by the builder of the client adapter or router, serving to identify this element within a network.

MIMO technology (Multiple In, Multiple Out)

Technology used in the 802.11n standard, allowing for the WiFi signal to be shared over several antennas with a corresponding increase in terms of signal range and transfer speeds. Transmission can take place on one channel in the 20MHz frequency band (for theoretical maximum transfer speeds of 144.44Mbits/s) or two channels simultaneously (for theoretical maximum transfer speeds of 300Mbits/s) with 40MHz bandwidth. In both cases, the WiFi signal's coverage and range are the same. The choice of one mode or the other (20 or 40MHz) depends solely on the transmitter used. The Hercules Wireless N key will automatically adapt to the signal received.

NAT (Network Address Translation)

Technique allowing for the masking of IP addresses of local area network computers with respect to the Internet.

OFDM (Orthogonal Frequency Division Multiplexing)

Radio transmission technique providing very high transfer speeds widespread within DSL technology, in the wireless terrestrial distribution of television signals and adopted for the high-speed 802.11 wireless communication standard.

PPPoA (Point-to-Point Protocol over ATM)

Protocol allowing for connection to the Internet of computers linked over an ATM network, while still identifying the user.

PPPoE (Point-to-Point Protocol over Ethernet)

Protocol allowing for connection to the Internet of computers linked over an Ethernet network via a high-speed modem.

Static IP

Permanent IP address assigned to a computer by the access provider.

Subnet mask

Part of an IP address indicating the class of the network used (class C, type 255.255.255.0 for a local area network).

TKIP (Temporal Key Integrity Protocol)

The WPA standard uses the TKIP protocol, which consists of regenerating new keys for each data packet, whereas WEP uses a system based on a fixed key.

UPnP (Universal Plug n' Play)

Protocol allowing for the connection to one another of many computers and peripherals available on a network.

WEP (Wired Equivalent Privacy)

Security protocol for wireless networks using encryption based on a 64-bit, 128-bit or 256-bit fixed key used only once, at the start of the decryption phase. To decode a transmission, each wireless network client must use the same 64, 128 or 256-bit key. WEP is part of the 802.11 standard with a view to ensuring authentication (access is only authorized for those who know the WEP key) and confidentiality (encryption). An encryption key is composed of numbers 0 to 9 and letters A to F (example: A123BCD45E).

WiFi (Wireless Fidelity)

An abbreviation of Wireless Fidelity, WiFi is the commercial name adopted by the WECA (Wireless Ethernet Compatibility Alliance), an organization responsible for maintaining the interoperability of equipment in a wireless local area network (WLAN) compliant with the IEEE 802.11 standard. Thus, a WiFi network is actually a 802.11 network. In practice, WiFi allows for the connection of laptop computers, desktop computers or Personal Digital Assistants (PDAs) many tens of meters distant from one another via an access point, allowing them to communicate with one another without any cables and exchange data at high speeds.

WiFi Manager N

Utility developed by Hercules to configure and view settings for the Hercules Wireless N Router.

WMM (Wi-Fi Multimedia)

Functionality certified by the Wi-Fi Alliance, whose goal is to define levels of priority according to available bandwidth. Thus voice over IP (priority 1) will take precedence over transmission of video data (priority 2), which will itself take precedence over applications making use of the network, such as Internet browsing (priority 3), and then lastly come background applications, such as printing jobs or downloads (priority 4).

WiFi router

Device installed at the heart of a WiFi network, allowing for the connection of several computers equipped with WiFi adapters for the exchange of data.

WiFi Station N

Utility developed by Hercules to define, verify and configure all connection and security settings regarding your WiFi installation.

WLAN (Wireless Local Area Network)

Wireless local area network, generally employing the 802.11b, g or n standards.

Workgroup

Group of computers with which you wish to communicate or share resources such as folders, a printer or an Internet connection. To be part of a workgroup, computers must have the same group name.

WPA (WiFi Protected Access)

Wireless network security standard put in place by manufacturers, employing a data encryption algorithm relying on dynamic key management, which was lacking in WEP, the difference being that once communication is established, the key changes randomly for enhanced security.

WPA2 (WiFi Protected Access 2)

Security standard for wireless networks based on the WPA standard, which adds support for the TKIP or AES encryption algorithm, for heightened security.

WPA-PSK (WiFi Protected Access-Pre-Shared Key)

Latest-generation heightened security protocol specially designed for use in environments such as a small office or the home, based on a pre-shared key (a single password). This key is also used for TKIP or AES data encryption.

WPS (Wi-Fi Protected Setup™)

Technology standardized by the Wi-Fi Alliance, which aims to simplify the connection and configuration of a wireless network while at the same time maintaining a high level of security. This technology allows the user to enable protection of a WiFi network via a single button located on the WiFi client, or via entry of a PIN code in the software supplied with the router.

Log on now to our website (<u>www.hercules.com</u>) to download the latest driver and software versions, consult the list of Frequently Asked Questions (FAQs) relating to your product and access User Manual updates. You can also discover the entire Hercules range and get information on upcoming products.

7. TECHNICAL SUPPORT

If you encounter a problem with your product, please go to <u>http://ts.hercules.com</u> and select your language. From there you will be able to access various utilities (Frequently Asked Questions (FAQ), the latest versions of drivers and software) that may help to resolve your problem. If the problem persists, you can contact the Hercules products technical support service ("Technical Support"):

By email:

In order to take advantage of technical support by email, you must first register online. The information you provide will help the agents to resolve your problem more quickly.

Click Registration on the left-hand side of the Technical Support page and follow the on-screen instructions.

If you have already registered, fill in the Username and Password fields and then click Login.

By telephone:

United Kingdom	08450800942 Charges at local rate	Monday to Friday from Noon to 4pm and 5pm to 10pm Saturday from 9am to Noon and 1pm to 7pm Sunday from 9am to Noon and 1pm to 4pm
United States	1-866-889-5036 Free	Monday to Friday from 7am to 11am and from Noon to 5pm Saturday and Sunday from 7am to Noon (Eastern Standard Time)
Canada	1-866-889-2181 Free	Monday to Friday from 7am to 11am and from Noon to 5pm Saturday and Sunday from 7am to Noon (Eastern Standard Time)
Denmark	80887690	Monday to Friday from 1pm to 5pm and 6pm to 11pm Saturday from 9am to 1pm and 2pm to 8pm
(English)	Free	Sunday from 10am to 1pm and 2pm to 5pm
Sweden	0200884567	Monday to Friday from 1pm to 5pm and 6pm to 11pm Saturday from 9am to 1pm and 2pm to 8pm
(English)	Free	Sunday from 10am to 1pm and 2pm to 5pm
Finland	0800 913060	Monday to Friday from 2pm to 6pm and 7pm to Midnight Saturday from 10am to 2pm and 3pm to 9pm
(English)	rree	Sunday from 11am to 2pm and 3pm to 6pm

8. WARRANTY

Worldwide, Guillemot Corporation S.A. ("Guillemot") warrants to the consumer that this Hercules product will be free from material defects and manufacturing flaws for a period of two (2) years from the original date of purchase. Should the product appear to be defective during the warranty period, immediately contact Technical Support, who will indicate the procedure to follow. If the defect is confirmed, the product must be returned to its place of purchase (or any other location indicated by Technical Support).

Within the context of this warranty, the consumer's defective product will, at Technical Support's option, be either repaired or replaced. Where authorized by applicable law, the full liability of Guillemot and its subsidiaries (including for indirect damages) is limited to the repair or replacement of the Hercules product. The consumer's legal rights with respect to legislation applicable to the sale of consumer goods are not affected by this warranty.

This warranty shall not apply: (1) if the product has been modified, opened, altered, or has suffered damage as a result of inappropriate or abusive use, negligence, an accident, normal wear, or any other cause not related to a material defect or manufacturing flaw; (2) in the event of failure to comply with the instructions provided by Technical Support; (3) to software not published by Guillemot, said software being subject to a specific warranty provided by its publisher.

9. ENVIRONMENTAL PROTECTION RECOMMENDATION

At the end of its working life, this product should not be disposed of with standard household waste, but rather dropped off at a collection point for the disposal of Waste Electrical and Electronic Equipment (WEEE) for recycling.

This is confirmed by the symbol found on the product, user manual or packaging.



Depending on their characteristics, the materials may be recycled. Through recycling and other forms of processing Waste Electrical and Electronic Equipment, you can make a significant contribution towards helping to protect the environment.

Please contact your local authorities for information on the collection point nearest you.

Trademarks

Hercules® is a registered trademark of Guillemot Corporation S.A. Intel® and Pentium® are registered trademarks of Intel Corporation. Wireless Attitude™ I is a trademark of Guillemot Corporation S.A. Microsoft® Windows® 2000, XP and Vista are either trademarks or registered trademarks of for Corporation in the United States and/or other countries. Adobe® Air™ is a trademark or registered trademark of Adobe Systems Incorporated in the United States and/or other countries. All other trademarks and brand names are hereby acknowledged and are property of their respective owners. Illustrations not binding.

Declaration of conformity with EU directives

This device can be used in: AT, BE, FR, DE, IE, IT, LU, NL, PL, ES, SE, GB, FI, CH.

Hereby, GUILLEMOT CORPORATION, Carentoir France, declares that this *Hercules HWNRi 300* is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The Declaration of Conformity can be consulted at this website address:

http://ts.hercules.com/download/wifi/DoC/HWNR-300/DoC-eng_Hercules_HWNRi-300.pdf

(€1177①

Hercules is a division of Guillemot Corporation.

EUROPEAN USERS:

This equipment has been tested and found to comply with Directive 1999/5/EC of the European Parliament and of the Council on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity. After assessment, the equipment has been found to comply with the following standards: EN 300.328 (radio), EN 301 489-17, EN 301 489-17 (electromagnetic compatibility) and EN 60950 (safety). This equipment may be used in all European Union countries and in all countries applying Directive 1999/5/EC, without restriction, with the exception of the following countries: FRANCE:

When this equipment is used outdoors, output power is limited to within the frequency bands listed below. For more information, consult the ART website: www.art-telecom.fr.

Location	Frequency band (MHz)	Power (EIRP)
Indoor (no restrictions)	2400 – 2483.5	100mW (20dBm)
Outdoor	2400 – 2454	100mW (20dBm)
	2454 – 2483.5	10mW (10dBm)

Operation of this equipment in a residential environment may give rise to radio interference; if so, it is incumbent upon the user to rectify the situation.

ITALY:

This device complies with the National Radio Interface and the requirements of the Frequency Allocation Table. Use of this wireless product outside of the boundaries of the owner's property requires a general authorization. For more information, consult the website www.comunicazioni.it.


Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- · Reorient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver.
- . Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- · Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter. FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Copyright

© Guillemot Corporation S.A. 2010. All rights reserved.

This publication may not be reproduced in whole or in part, summarized, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, electronic, mechanical, magnetic, photocopying, recording, manual or otherwise, without the prior written permission of Guillemot Corporation S.A.

Disclaimer

Guillemot Corporation S.A. reserves the right to make changes to specifications at any time and without notice. The information provided by this document is believed to be accurate and reliable. However, no responsibility is assumed by Guillemot Corporation S.A. either for its use or for the infringement of patents or other rights of third parties resulting from its use. This product may exist in a light or special version for PC integration or other purposes. Certain functions detailed in this manual may not be available in these versions. Wherever possible, a README.TXT will be included on the installation CD-ROM detailing the differences between the supplied product and the product described in the present documentation.

End-user software license Agreement

<u>IMPORTANT</u>: please read the Agreement carefully prior to opening and installing the Software. By opening the Software package, you agree to be bound by the terms of this Agreement. The Software enclosed in this package is licensed, not sold, and is only available under the terms of the present license Agreement. If you do not agree with the terms hereafter, you must promptly return the Software within 15 days, together with the entire contents of the box, to the place of purchase.

The Guillemot Corporation S.A. Software (hereafter named the "Software") is copyrighted by Guillemot Corporation S.A. All rights are reserved. The term "Software" refers to all documentation and related material, including drivers, executable programs, libraries and data files. The purchaser is granted a license to use the Software only. The licensee also agrees to be bound by the terms and conditions of the present Agreement concerning copyright and all other proprietary rights for any third party Software, documentation and related material included in the Software package.

Guillemot Corporation S.A. reserves the right to terminate this license in the event of failure to comply with any of the terms or conditions laid out in the present Agreement. On termination, all copies of the Software shall immediately be returned to Guillemot Corporation S.A.; the purchaser remaining liable for any and all resulting damages.

License:

- The license is granted to the original purchaser only. Guillemot Corporation S.A. retains all title to and ownership of the Software and reserves all rights not expressly granted. The licensee is not permitted to sub-license or lease any of the rights that are hereby granted. Transfer of the license is permitted, provided that the transferor does not retain any part or copy of the Software and the transferee accepts to be bound by the terms and conditions of the present Agreement.
- 2. The licensee may only use the Software on a single computer at any time. The machine-readable portion of the Software may be transferred to another computer provided it is previously erased from the first machine and there is no possibility that the Software can be used on more than one machine at any one time.
- The licensee acknowledges the copyright protection belonging to Guillemot Corporation S.A. The copyright notice must not be removed from the Software, nor from any copy thereof, nor from any documentation, written or electronic, accompanying the Software.
- 4. The licensee is granted the right to make one back-up copy of the machine-readable portion of the Software on the condition that all copyright and proprietary notices are also reproduced.
- 5. Except where the present Agreement expressly permits, the licensee is strictly prohibited from engaging in, nor may he permit third parties to engage in, the following: providing or disclosing the Software to third parties; providing use of the Software in a network, multiple PCs, multi-user or time-sharing arrangement where the users are not individual licensees; making alterations or copies of any kind of the Software; making any attempt to disassemble, de-compile or reverse engineer the Software in any way or form, or engaging in any activity aimed at obtaining underlying information not visible to the user during normal use of the Software; making copies or translations of the User Manual.