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1. YOUR HERCULES ePLUG 200 MINI ADAPTER

PLC (Power Line Communication), also known as HomePlug, is a technology which uses your home's existing electrical wiring to efficiently transfer digital data (audio, video, Internet, other types of files) within a secure personal network. HomePlug is an ideal alternative for those who wish to easily create a network, without the constraints of cables, and are unable to enjoy all of the potential of WiFi due to the configuration of their home (as a result of the presence of thick walls or other obstacles which impede wireless data transmission).

Hercules ePlug 200 Mini is an adapter employing HomePlug technology which can be connected to any electrical outlet in your home (from the ground floor to upstairs), thereby transforming your outlets into as many possible network connection points. Moreover, you can freely unplug Hercules ePlug 200 adapters and plug them into different outlets in your home, according to your needs (changing the location of a computer, or of your modem router...), without having to repeat the installation or re-create your network.

As a **network** is composed of at least two devices connected to one another, all you need to do is connect two Hercules ePlug 200 Mini adapters to two electrical outlets in your home (in the same room or in different rooms). For example, to access the **Internet**, you can connect your modem or your Internet "box" to a Hercules ePlug adapter plugged into the nearest electrical outlet, and connect your computer to another Hercules ePlug adapter plugged into another electrical outlet. Finally, your network is already preconfigured to provide you with maximum **security**.

All products in the Hercules ePlug 200 range are compatible with the HomePlug AV standard (including devices functioning at 200 Mbits/s), allowing you to enjoy high-definition video or stream multimedia files with ease. These adapters may be combined according to your needs or according to your devices (a TV decoder with a "Box", a modem with a computer or a game console, two computers, a computer and a printer...). You will find some **possible configurations** set out in the installation section of this manual.

Finally, with the goal of helping to protect the environment, Hercules offers **energy-saving** adapters, which conform to the European ERP (Energy Related Products) directive, guaranteeing electrical consumption of less than 1 watt when the device is in standby mode.



The HomePlug AV standard is not compatible with the Homeplug 1.0 standard corresponding to the Hercules ePlug 85 range (and other adapters conforming to this standard). Nevertheless, you are perfectly able to create a network composed of Hercules ePlug 85 adapters in your home coexisting alongside another network composed of Hercules ePlug 200 adapters.

Even though this type of device presents no danger in terms of your home's electrical wiring, you should take care to respect certain **recommendations**, set out below.

1.1. Recommendations

- Only connect the Hercules ePlug 200 Mini adapter to an electrical network which conforms to the security standards and specifications detailed on the device's electrical rating plate. If you are not sure about your electrical network, contact an electrician or your power supplier.
- Never open up the Hercules ePlug 200 Mini adapter, as doing so risks damaging its internal components.
- Do not attempt to insert any objects into the vents and openings of the Hercules ePlug 200 Mini adapter.
- Do not obstruct the vents and openings of the Hercules ePlug 200 Mini adapter.
- If you need to carry out any maintenance on your Hercules ePlug 200 Mini adapter, be sure to first unplug the adapter and entrust the job to a qualified professional in order to avoid the risk of electrocution.
- In order to avoid the risk of fire or electrical discharge, keep your adapter 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.
- Only plug in the Hercules ePlug 200 Mini adapter in a sufficiently ventilated room.
- Only connect the Hercules ePlug 200 Mini adapter using the included Ethernet cable.
- Unplug the Hercules ePlug 200 adapter from its electrical outlet if you do not plan on using it again for an extended period of time.
- Unplug the Hercules ePlug 200 Mini adapter from its electrical outlet before cleaning. Use a soft cloth for cleaning and avoid using aerosol cleaners, water, solvent-based chemical products, benzene, alcohol or other cleaning products.
- Always keep children away from electrical outlets.

1.2. Specifications

- Atheros INT6400 chipset
- Compatible with the IEEE 802.3, IEEE 802.3u, IEEE 802.3x and Auto MDI/X specifications
- Compatible with the Homeplug AV standard
- Coexists with HomePlug 1.0 modules
- Encryption via the AES 128-bit security protocol
- 200 Mbits/s theoretical transfer rate
- Asynchronous transmission mode
- Modulation: OFDM, 1024/256/64 QAM, QPSK, BPSK
- 200m range over the electrical network
- Ethernet RJ45 port
- Average power consumption: 4.3W when in use, 0.9W in standby when no data is circulating (these values may vary depending on your home's electrical system)
- Internal power supply: 100~ 240V AC, 50/60Hz
- Connect button, allowing you to add a Hercules ePlug 200 adapter to an existing network
- LEDs on front face

1.3. Minimum system requirements

To connect a device to your Hercules ePlug 200 Mini adapter:

- An Ethernet type network interface must be available on each device to be connected (computer, game console, modem, router, TV decoder, etc.)

To access the Internet with the Hercules ePlug 200 Mini adapter:

- 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®, Neufbox®...)

1.4. Box contents

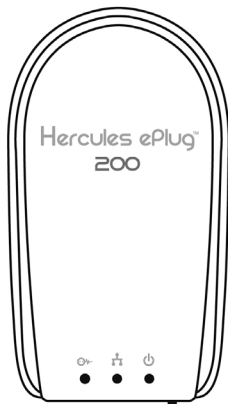
Please verify that the following elements are present in the box:

- Depending on the pack:
 - Hercules ePlug 200 Mini Solo: 1 adapter
 - Hercules ePlug 200 Mini Duo: 2 adapters
- Quick Start Guide in English
- Ethernet cable (1 per adapter)



The "Hercules ePlug Station" network configuration and supervision software is available for download at <http://www.hercules.com>.

1.5. LEDs overview



: HomePlug connection status LED:

- Green: very good connection (transfer rates greater than 60 Mbits/s)
- Orange: fairly good connection (transfer rates between 60 and 40 Mbits/s)
- Red: poor connection (transfer rates less than 40 Mbits/s)



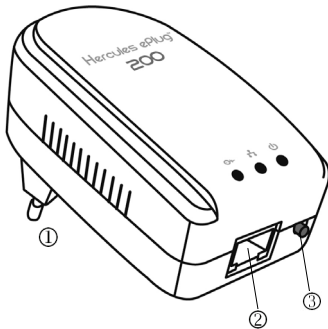
: Ethernet connection LED:

- lit up when the Ethernet cable is connected
- flashes during data transfer



: Power LED: flashes during traffic

1.6. Connectivity overview



① **Power plug** to plug the Hercules ePlug 200 Mini adapter into an electrical outlet

② **Ethernet port** allowing you to connect a device to the Hercules ePlug 200 Mini adapter (desktop computer, laptop or netbook computer, game console, TV decoder, modem/router, Internet "box")

③ **Pairing button** with three functions, allowing you to:

- **enable pairing**, in order to connect other ePlug 200 adapters to the network (by way of a short press, from 2 to 4 seconds): the power LED flashes
- **randomly generate a new network password** (by way of a medium press, from 8 to 12 seconds): the adapter restarts when you release the button
- **restore factory default settings** (by way of a long press, of more than 15 seconds): the adapter restarts



In order for the Hercules ePlug 200 Mini adapter to switch to standby mode, the network card on your computer or other network device must be inactive (i.e. no data is being transferred). To be sure that the network card remains inactive, you can unplug the computer from its electrical outlet, particularly if you don't intend to use it again for some time, or, if the computer is plugged into a power strip with an On/Off button, you can press the Off button on the power strip.

2. INSTALLING YOUR HERCULES ePLUG 200 MINI

The Hercules ePlug 200 Mini adapter has been designed to be simple to use and install, while at the same time minimizing the amount of space that it takes up when plugged in, thanks to its compact design. If you have already purchased and installed HomePlug (or PLC) adapters, Hercules provides a Quick Start Guide which guides you through several steps to take to add your Hercules ePlug 200 adapters to your existing HomePlug network.

If you are new to the world of HomePlug technology, we invite you to follow the pieces of advice set out in chapters 2.1 and 2.2 in order to get started.

Otherwise, you can proceed directly to chapter 2.3. **You haven't yet created a HomePlug network: initial installation of Hercules ePlug 200 Mini Duo** which sets out, step by step, the installation procedure for your Hercules ePlug 200.

Finally, if you have already created a HomePlug network and wish to add a new adapter, please refer to chapter 2.4. **You have already created a HomePlug network: adding a new adapter to your network (Hercules ePlug 200 Mini Solo or Duo).**

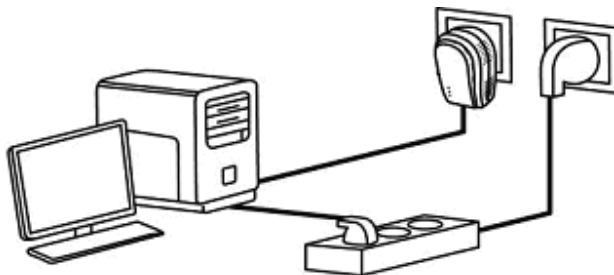
2.1. How to position your Hercules ePlug 200 Mini

To help you connect your Hercules ePlug 200 Mini, start by selecting an electrical outlet near to the equipment you wish to connect and follow the pieces of advice set out below.



To optimize the transfer of data on your electrical network, be sure to follow these recommendations:

- You should preferably plug the adapters and devices (computer, Internet "box"...) into separate wall outlets: one for the adapter and one for the device to be connected to the HomePlug network.
- If you plug both an adapter and a device into the same powerstrip, the performance (bitrate) of your network may be affected.



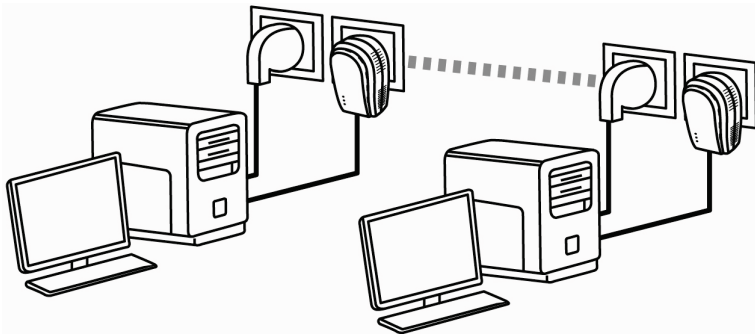
2.2. HomePlug: the partner to WiFi in your home

If you have a modem router or an Internet "box", your various pieces of network equipment, whether connected by WiFi or HomePlug, can communicate with one another. All data is transferred to a central point, in this case your modem router or Internet "box", and may circulate either on the electrical network via your HomePlug adapters, or by way of radio waves via WiFi.

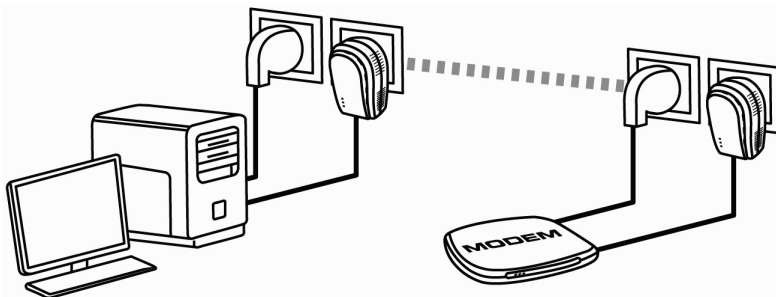
It is therefore perfectly possible for a computer or any other piece of network equipment connected via WiFi to communicate with another piece of equipment connected via the HomePlug network to the modem router.

In chapters 2.2.1 to 2.2.3, you will find different examples of purely HomePlug networks. However, there is nothing stopping you from adding WiFi devices as well: for example, an Internet "box" connected to the HomePlug network on the one hand, and a WiFi laptop computer connected to this same "box" via WiFi, on the other hand.

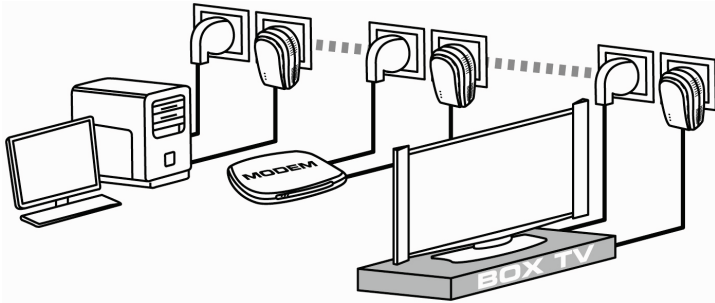
2.2.1. Connecting two computers in a HomePlug network



2.2.2. Connecting a computer to a modem, a modem router, an Internet "box" or a game console in a HomePlug network



2.2.3. Connecting an Internet "box" to a Digital Terrestrial Television decoder in a HomePlug network

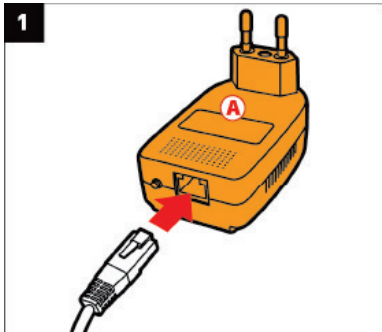


2.3. You haven't yet created a HomePlug network: initial installation of Hercules ePlug 200 Mini Duo

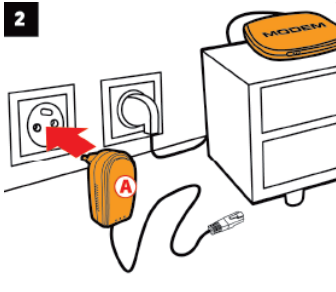


The HomePlug AV standard of Hercules ePlug 200 adapters is not compatible with the Homeplug 1.0 standard of Hercules ePlug 85 adapters and HomePlug 14 Mbits/s adapters, but these two standards can coexist side-by-side. In effect, if you have already installed a HomePlug network in the HomePlug 1.0 standard (for example, with Hercules ePlug 85 adapters), you cannot add Hercules ePlug 200 adapters to that network. However, you are perfectly able to install a second network in your home composed of Hercules ePlug 200 adapters and HomePlug AV compatible devices.

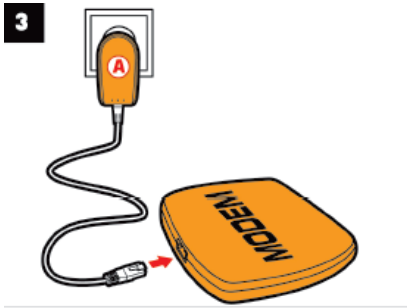
To install a HomePlug network:



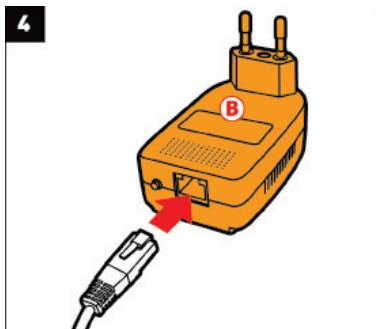
1. Connect the Ethernet cable to the Ethernet plug on your **first** adapter.



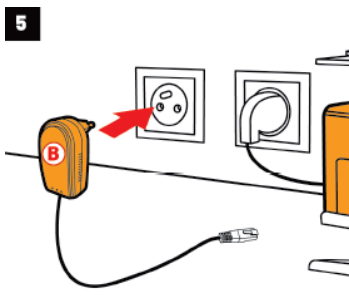
2. Plug the adapter into an electrical outlet located near the device to be connected to the network.




3. Connect the other end of the Ethernet cable to the computer, modem, game console or any other network device (for example, a modem router).

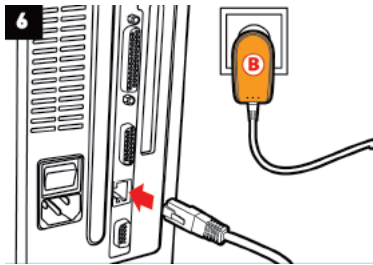


4. Connect the Ethernet cable to the Ethernet plug on your **second adapter**.





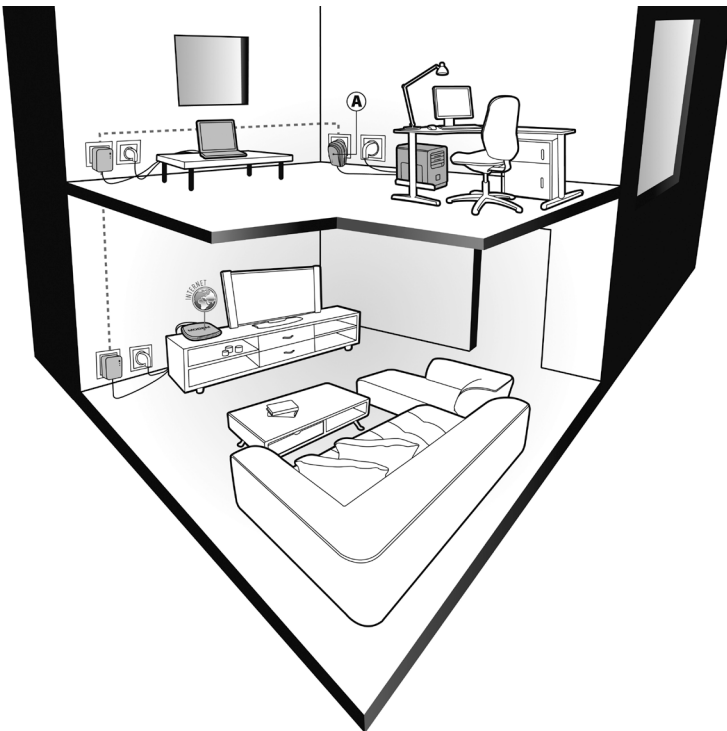
5. Plug the adapter into an electrical outlet located near the device to be connected to the network.

 In order to optimize data transfer on the PLC network, it is preferable not to plug your adapter directly into a powerstrip.



6. Connect the other end of the Ethernet cable to the computer, modem, game console or any other network device (for example, a computer).

 When your adapters are connected, the  LED (connection status) lights up and indicates that the network is functioning properly. The signal quality is also indicated by a color code, explained in chapter 1.5. LEDs overview

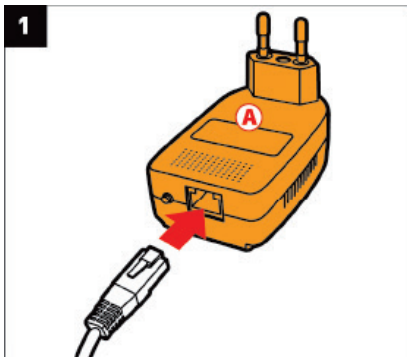


Your computer can now access the Internet via your modem, as the two devices are connected to one another via the HomePlug network and have the same network password.

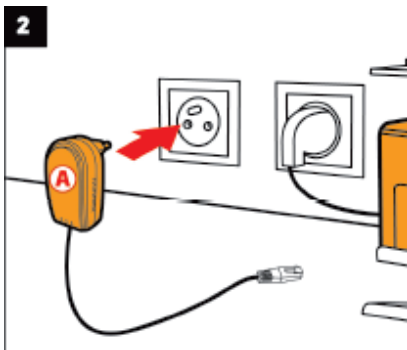
2.4. You have already created a HomePlug network: adding a new adapter to your network (Hercules ePlug 200 Mini Solo or Duo)

Let's take an example of a home in which you have already installed a HomePlug network composed of HomePlug adapters in the AV standard (Hercules ePlug 200 Mini, for example). You now wish to install one or more new Hercules ePlug 200 Mini adapters in order to expand your network and be able to connect new devices (printer, modem, router, game console...).


1. Ethernet connection and electrical connection of your new Hercules ePlug 200 adapter

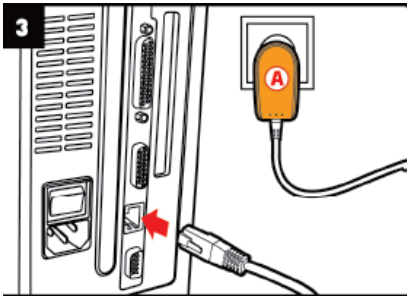


1. Connect the Ethernet cable to the Ethernet plug on your new adapter.

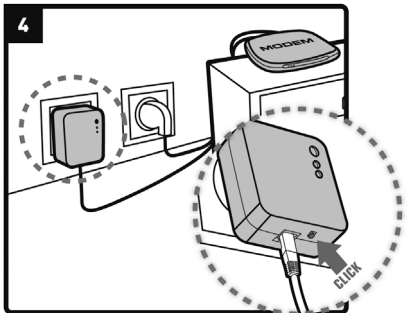


2. Plug the new adapter into an electrical outlet located near the device to be connected to the network.


 In order to optimize the transfer of data on the HomePlug network, avoid plugging your adapter directly into a power strip.

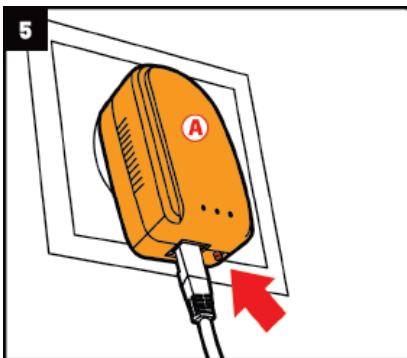


3. Connect the other end of the Ethernet cable to the computer, modem, game console or any other network device (here, a computer).





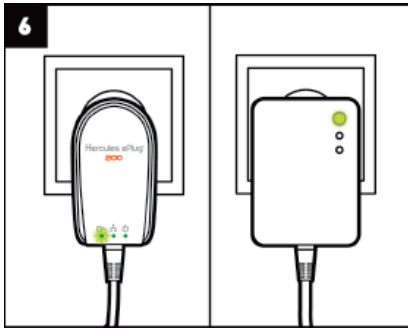
4. Press for 2 to 4 seconds on the Connect button on one of the adapters already connected to the network.

 You now have 2 minutes to pair the new adapter.



5. Press for 2 to 4 seconds on the Connect button on the Hercules ePlug 200 Mini adapter.

 The  LED lights up when a connection to the network has been established



- Repeat this procedure to add another Hercules ePlug 200 Mini adapter.

2. Connection to the network

The network password is applied to the Hercules ePlug 200 Mini adapter, which can now communicate with all the adapters of the existing network.




If the connection of your adapter to the network has failed, there are several possible causes.

Cause 1: You may not have carried out the connection procedure properly:

- Press for between 2 to 4 seconds on the Connect button (also referred to as the security button by some manufacturers) on the adapter which is already part of your existing network.
- Make the connection by pressing for between 2 to 4 seconds on the Connect button on your Hercules ePlug 200 Mini adapter. You have 2 minutes to carry this out.

Cause 2: Your adapter may not be properly plugged into an electrical outlet, or this outlet is not powered:

- Verify that the adapter's power LED  is lit up.

Cause 3: There may be a strong disturbance in your electrical network caused by other devices near to your adapter:

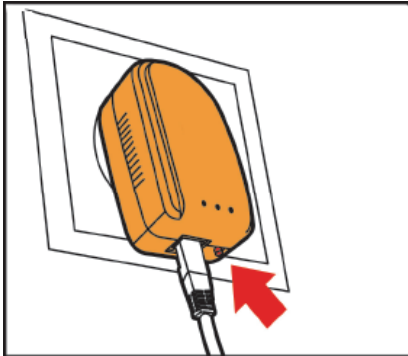
- Avoid plugging your adapter directly into a power strip.
- Unplug the devices plugged in near to the adapter.
- Try plugging the adapter into another outlet.

2.5. How to change the network password

When you install a HomePlug network, a random password is automatically generated. You can easily generate a new random password by using the Connect button's restart function.



If you change the network password on an adapter, that adapter will no longer be part of the network.



- Press for between 8 to 12 seconds on the Connect button on the adapter whose password you want to change.

Wait until the adapter restarts.

- Connect the other adapters by pressing for between 2 to 4 seconds on the Connect button on the adapter which is already part of the network you wish to create, and then pressing the Connect button on the adapter you wish to integrate into that network.

- Repeat this procedure for all adapters you wish to integrate into the network.

3. MANAGING YOUR NETWORK WITH HERCULES ePLUG STATION

The Hercules ePlug Station software has been designed to let you manage your PLC network. Once you have provided the requested items of information, you will be able to view a depiction of all devices connected to your PLC network, allowing you to verify their functioning and bitrate, room by room.

3.1. Downloading Hercules ePlug Station

Hercules ePlug Station is available for download from the <http://www.hercules.com> website, in the **Downloads** part of the PLC products section.

On the Hercules website, select the version corresponding to your product, follow the procedure and save the installer file to your hard disk drive.

3.2. Installing Hercules ePlug Station

- Double-click the **ePlugStation_Setup.exe** file (in the location where you have saved it on your computer) to launch the installation.



To use Hercules ePlug Station, your computer must meet the following minimum system requirements:

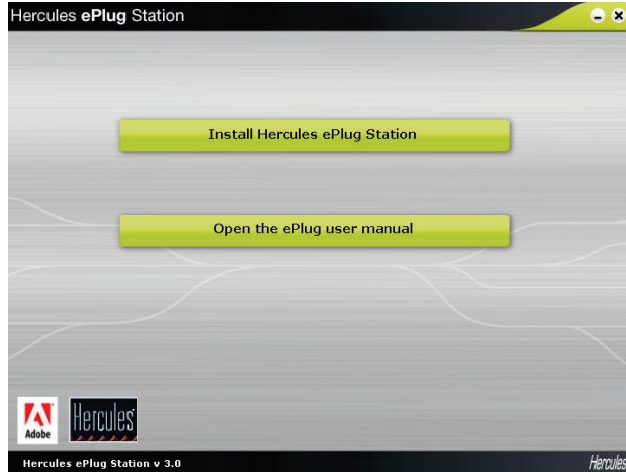
- Intel Pentium III, AMD Athlon/AMD-K6
- 64MB RAM
- 10/100 RJ-45 Ethernet network card
- CD-ROM drive
- 50MB free hard disk space
- Operating system: Microsoft Windows 2000, XP, Vista, 7

- If a Windows security warning is displayed, click **Run**.

- Select the location for extraction of the files, then click **Next**.



Once extraction is complete, a Hercules ePlug Station window opens.

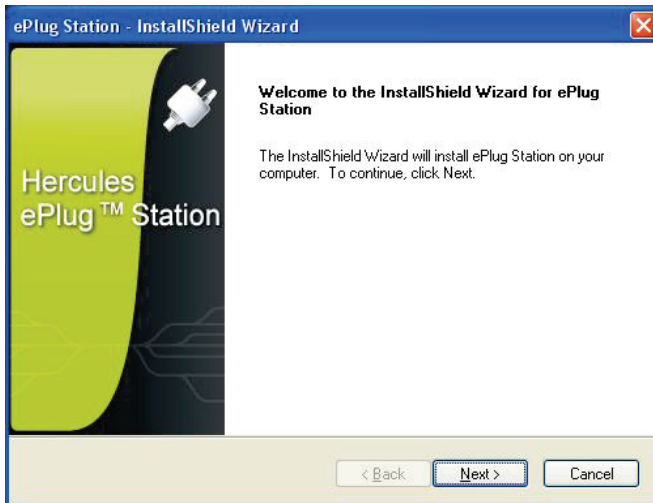


- Click the **Install Hercules ePlug Station** button.

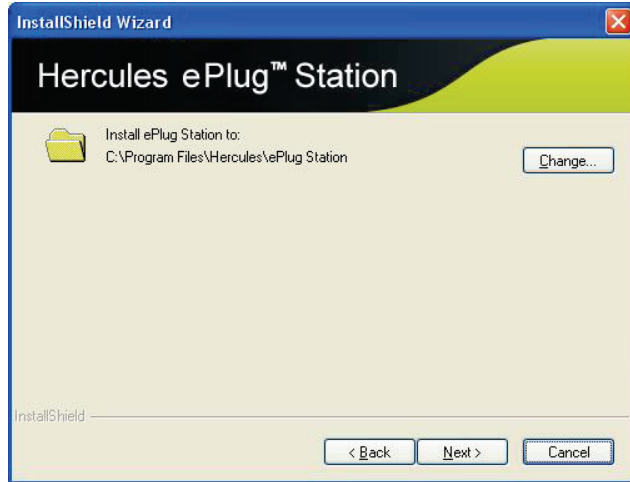


The welcome screen for the ePlug Station InstallShield Wizard is displayed.

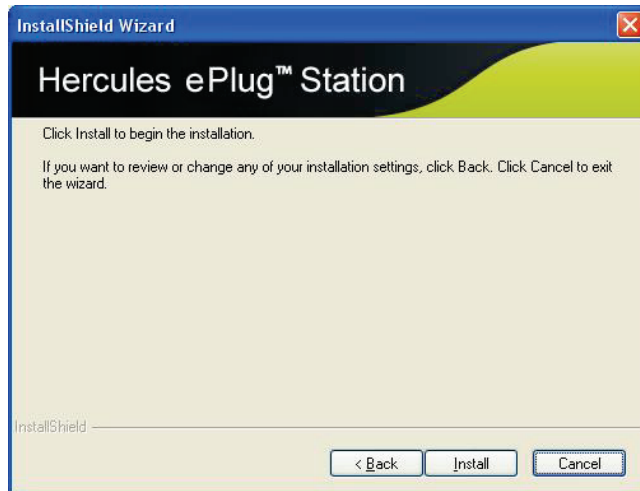
- Click **Next**.



- Select **I accept the terms of the License Agreement**, then click **Next**.



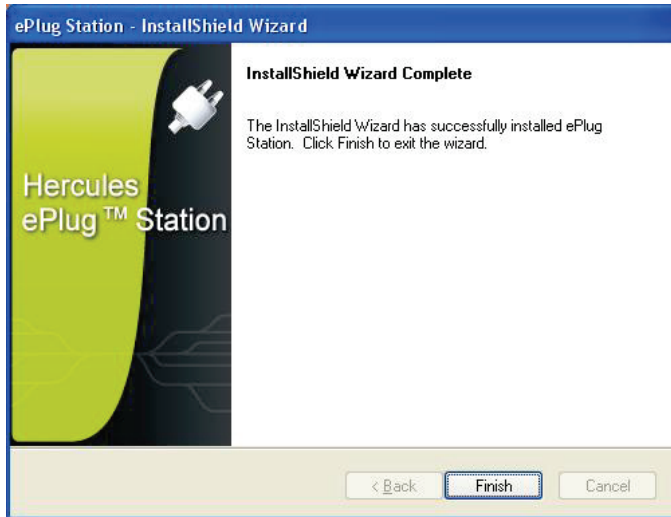
- Select the installation location for **ePlug Station**, then click **Next**.



- Click **Install** to confirm your choice and launch the installation.



ePlug Station is installed in the selected location.

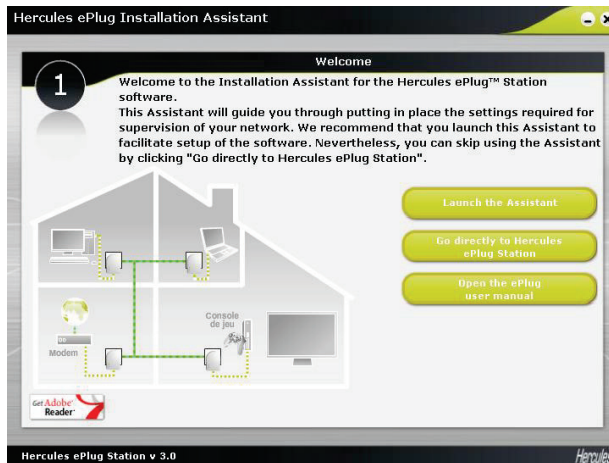


- Click **Finish** to exit the Wizard.

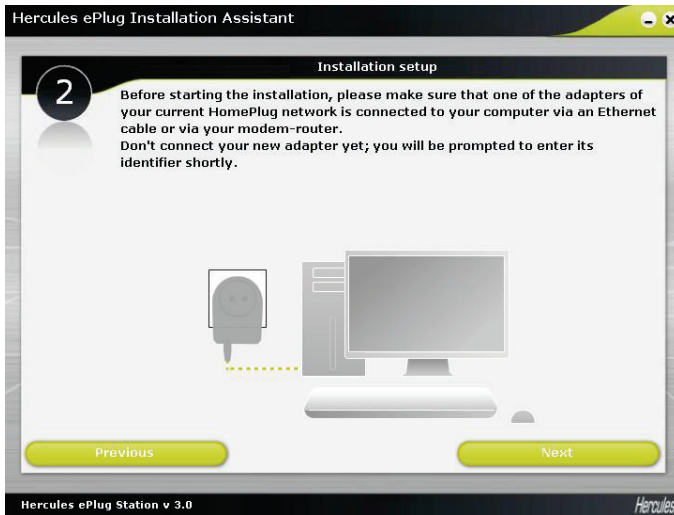


A shortcut icon to ePlug Station is now available on your desktop, and step 1 of the Hercules ePlug Installation Assistant is launched.

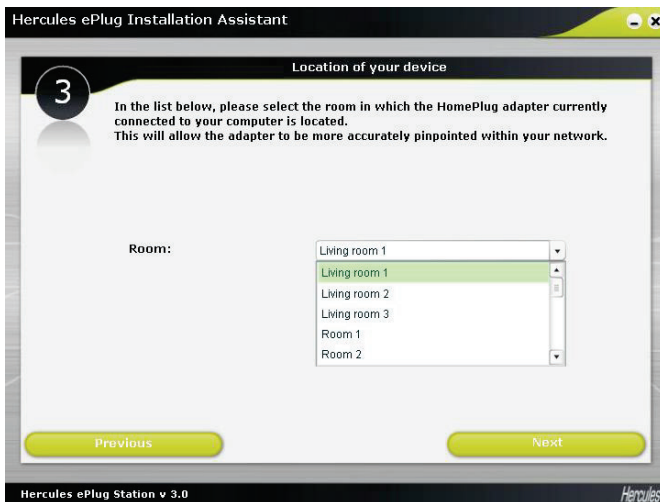
The objective is now to help ePlug Station to identify the adapters in your network (via each adapter's individual MAC address) and assign them a location in your home.



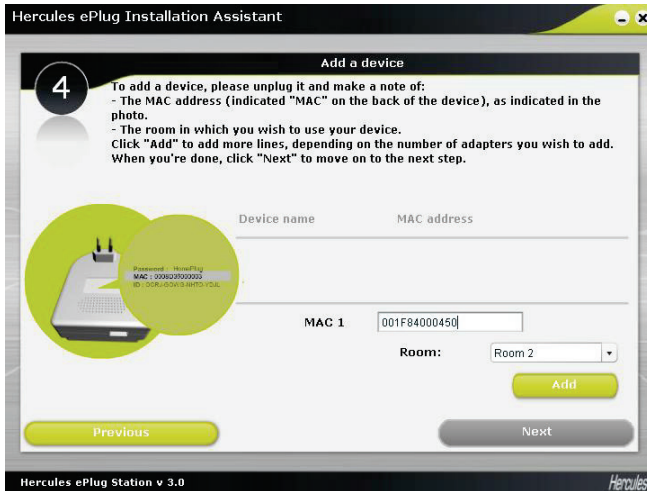
- Given that you have not yet configured the settings for managing your network, click **Launch the Assistant**. Afterwards, you will be able to directly access Hercules ePlug Station.



- In step 2, verify that the PLC adapter is connected to your computer or your modem/router.
- Click **Next**.



- In step 3, select (in the drop-down list) the room in which the PLC adapter connected to your computer is set up.
- Click **Next**.



- In step 4, enter the MAC address of the second PLC adapter in your network, and select the room in which it is set up.



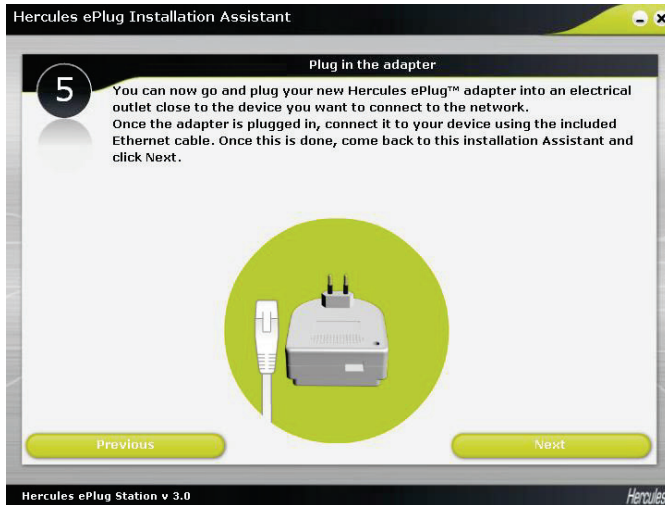
You may have to unplug the adapter to make a note of its MAC address. When you have plugged the adapter back in, the adapter will still be part of the network; you won't have to pair it again.

- Click **Add** and repeat this procedure for all other adapters that you own.

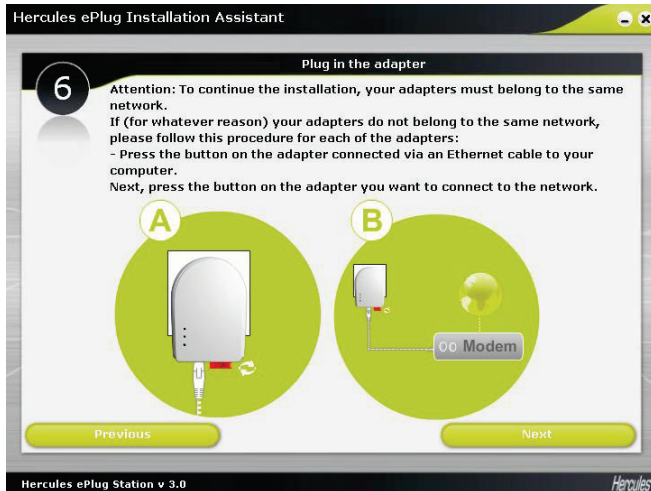



A table summarizes all of the devices that are set up, along with their location and their MAC address.

- Click **Next**.



- In step 5, plug in and connect your new adapter according to the instructions displayed onscreen.
- Click **Next**.



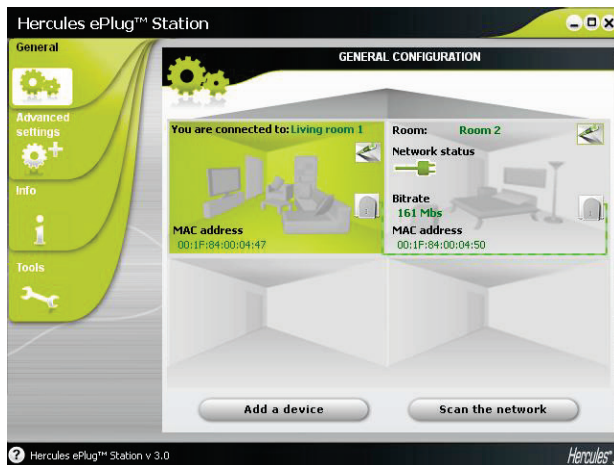
- In step 6, verify that your adapters are connected to the same network (the  LED should light up). If this is not the case, follow the instructions displayed onscreen.
- Click **Next**.



- In step 7, click **Launch ePlug Station**.

3.3. Managing your PLC network

The **General** tab displays the general configuration of your PLC network, with information regarding the room in which the adapter is located, the adapter's MAC address, the network status and bitrate.



The **You are connected to** information corresponds to the adapter to which the computer running ePlug Station is connected.

The **network status** indicator varies according to the network quality: green (very good connection quality), orange (medium connection quality), red (poor connection quality).

3.4. Adding one or more adapters to your Hercules ePlug Station monitoring list

You may wish to add a third and fourth adapter to extend your PLC network to other rooms in your home. In order for them to appear in Hercules ePlug Station, you must enter their information (room, MAC address).

- In the **General** tab, click **Add a device**.

- Unplug the PLC adapter that you wish to add to the monitoring list, and make a note of its MAC address. Next, enter the MAC address in the corresponding field and select (in the drop-down list) the room in which the PLC adapter in question is set up.

- Click **Add** and repeat this procedure for all of the other adapters that you wish to add.

- Click  when you're done.

- Plug the adapter into an electrical outlet in the room you have indicated.

- Click .

- Connect the adapter according to the instructions displayed onscreen.

- Click .

- Click **Close**.



The new adapter appears in the general configuration display for your PLC network.

3.5. Scanning the network

An automatic scan of the network is carried out each time you launch Hercules ePlug Station, or when you access the **General** tab. You can carry out a manual scan from the **General** tab by clicking the **Scan the network** button.




To disable automatic scanning of the network, go to the **Info** tab and deselect the **Automatically scan the network** box.

From then on, only a manual scan will allow you to refresh the general configuration of your PLC network.

3.6. Changing an adapter's location

If you have unplugged an adapter to plug it in in another room in your home, you can change the location information in ePlug Station to update the general configuration of your network.

- In the **General** tab, click the  icon in the upper right corner of the depiction of the room.



- Verify that the MAC address is correct, then select the new room from the drop-down list.

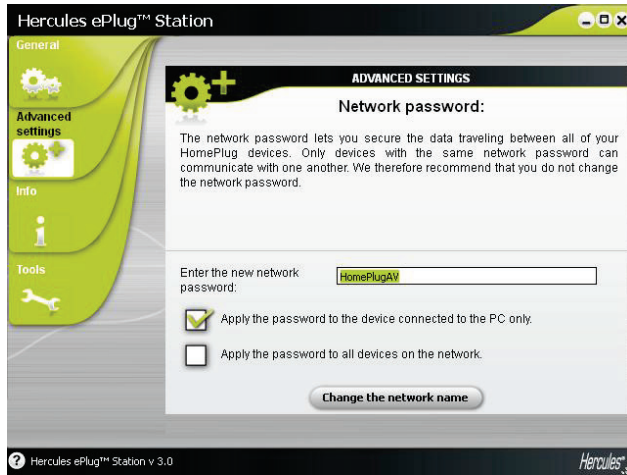
- Click  .

3.7. Changing the password for your PLC network

In order to communicate with each other, the adapters in your PLC network must all have the same password.

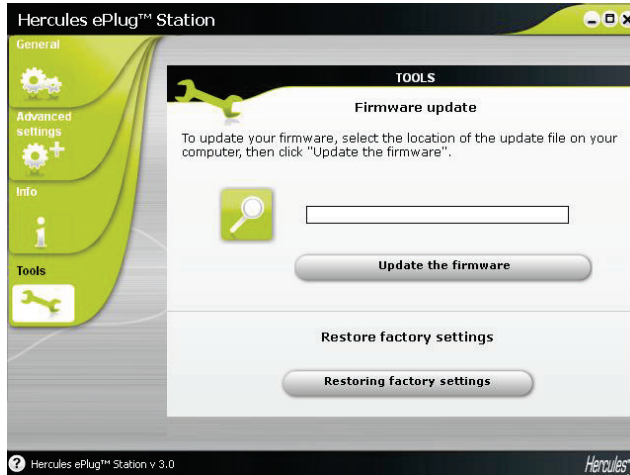



If you modify the password for an adapter or adapters in your ePlug Station network, make sure to apply the new password to all of your adapters, by connecting them (one by one) to your PC and following the steps set out below.



3.8. Updating the firmware

To benefit from the latest firmware version, you can visit the Hercules website (<http://ts.hercules.com>) and verify whether new firmware is available for your ePlug adapters. Follow the instructions and save the file to your hard disk drive.



- In the **Tools** tab, click the  button and select the location of the firmware update file on your computer.

- Click **Update the firmware**.

3.9. Restoring the factory default settings of the ePlug adapter connected to the PC

If you encounter a connection problem, you can restore the factory default settings via ePlug Station.



This procedure will restore the factory default settings of the adapter connected to the PC only. If you have previously modified the network password, this adapter will no longer be part of the network.



Restoring the factory default settings via ePlug Station is the equivalent of resetting your adapter by pressing the adapter's pairing button (a long press, for 15 seconds or more).

4. YOUR HOMEPLUG NETWORK IN PRACTICE

Now that your HomePlug network is installed, it's time to move on to some practical examples. In the following chapters, we will show you how to share files, a printer, or let your friends share your ADSL connection for online gaming.

4.1. A few prerequisites

- The procedures described in this chapter differ according to the operating system used. Be sure to refer to the sections corresponding to your system.
- You have created a HomePlug network composed of one or more devices (computer(s), modem, router, Internet "box", printer...).
- The Internet connection sharing procedures apply to computers or devices connected to your modem router via a HomePlug network composed of Hercules ePlug adapters.
- To share an Internet connection, your router and your modem (ADSL Ethernet, cable or Internet "box") must be connected to a Hercules ePlug adapter which is itself plugged into an electrical outlet, everything must be powered on, and your Internet line must be active.

4.2. Identifying your HomePlug network type: Infrastructure or Ad hoc

The HomePlug network type will depend on the type of hardware you have.

You are connecting...	Your mode is...
One or more computers to an ADSL modem router (or an ADSL Ethernet modem connected to a router)	Infrastructure , whereby the adapters are connected to your router . Infrastructure mode is suited to exchanging data, network gaming, and also sharing an Internet connection and/or a printer between several computers. To find out how to install and configure your modem router or your router, please refer to the manufacturer's documentation.
One of your computers by cable directly to an ADSL USB or Ethernet modem	Ad hoc (also known as Peer to Peer or computer to computer), whereby the computers are directly connected to one another, by cable or via HomePlug, without a router. Ad hoc mode is suited to exchanging data or network gaming between two computers.

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



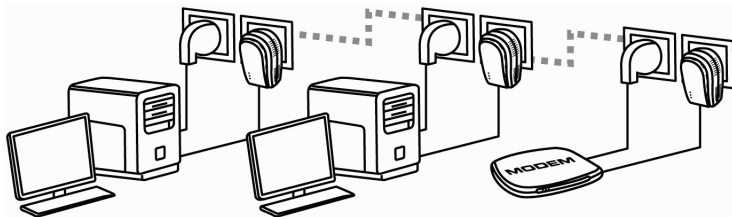
To create a network of computers, share data, a printer or an **ADSL** connection between computers running **Windows Vista**, it is not imperative that the computers belong to the same **workgroup**. However, if you wish to share between **Windows Vista** and an earlier operating system, make sure to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

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).

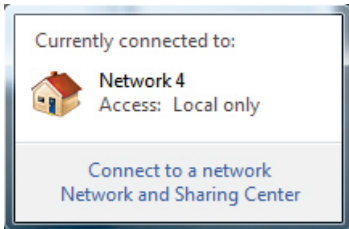
You have connected your computer to a **private network** (as opposed to a **public network**). Therefore, the **discovery** options (namely, the ability to view outside devices and computers and to be seen by other networks) are enabled, but **sharing** options are not. You must therefore enable them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

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

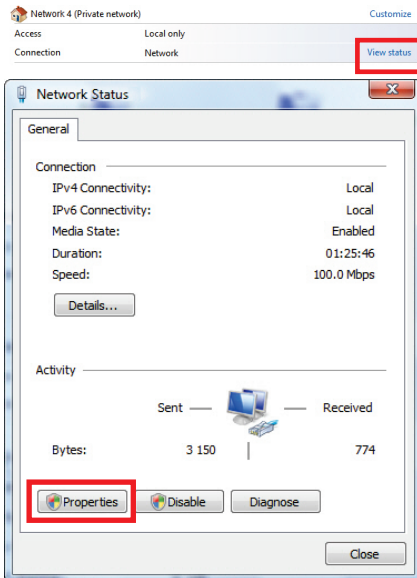
Reminder: If you have an Internet "box", a modem router or a router connected to a modem, and one or more computers, your network will be in **Infrastructure mode** by default. In this mode, the computers are connected to your **access point**, namely your "box", your modem router or your router connected to a modem, **via the HomePlug network**. **Infrastructure mode** is ideal for exchanging data, network gaming and also for sharing an Internet connection and/or a printer between several computers.



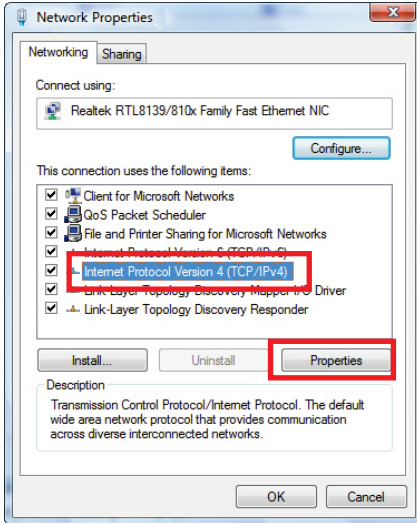
Proceed as follows for each computer that will use the shared Internet connection:



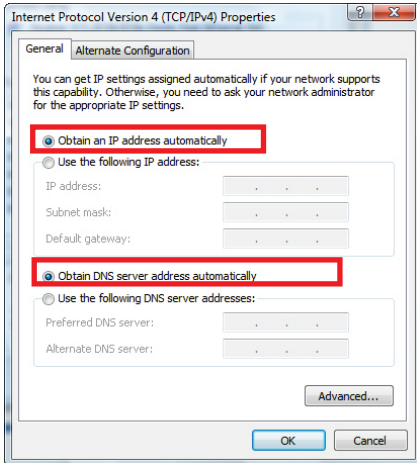
1. Access the **Network and Sharing Center**. To do so, click the network icon on the Windows taskbar, then click the **Network and Sharing Center** link.
2. Click the **View status** link.



3. In the **Network Status** window, click **Properties**.
4. In the Windows Vista confirmation window, click **Continue**.



5. In the **Network Properties** window, select **Internet Protocol Version 4 (TCP/IPv4)**.
6. Click **Properties**.

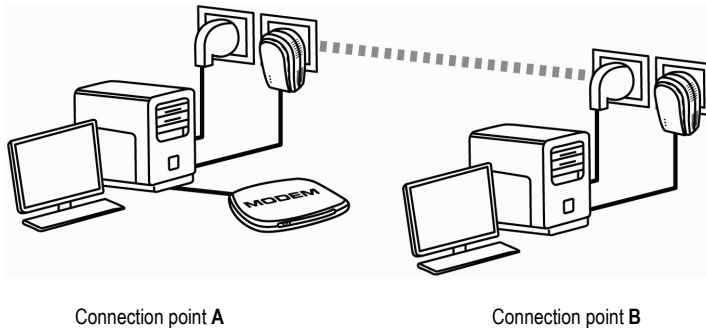


7. In the **Internet Protocol Version 4 (TCP/IPv4) Properties** window, select **Obtain an IP address automatically** and **Obtain DNS server address automatically**.
8. Click **OK** to validate.
9. Do the same for **Internet Protocol Version 6 (TCP/IPv6)**.

To access the Internet, simply launch your Internet browser.

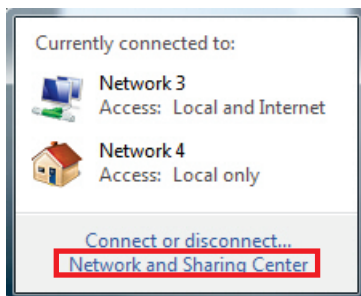
4.3.2. Windows Vista: Sharing an ADSL connection in an Ad hoc type network

Let's take the example of a Hercules HomePlug network composed, on one end, of an ADSL USB or Ethernet modem directly connected by a cable to one of your computers (which we will refer to as Connection point A), and, on the other end, of a computer (which we will refer to as Connection point B) on which you want to access the Internet.



You are in **Ad hoc mode**. In this mode, the computers are directly connected to one another, **without an access point (or router)**, via the HomePlug network. In order for Connection point B to be able to access the ADSL connection at Connection point A:

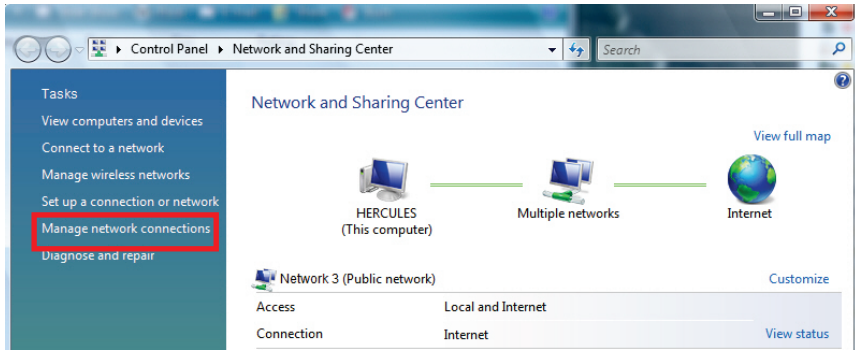
- Connection point B must be part of the same HomePlug network as Connection point A.
- The computer connected to the modem must be powered on.
- The Internet line must be active.



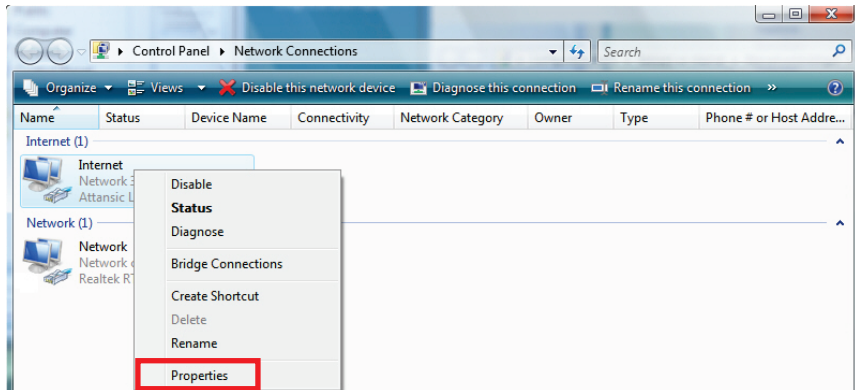
2. Click **Manage network connections**.

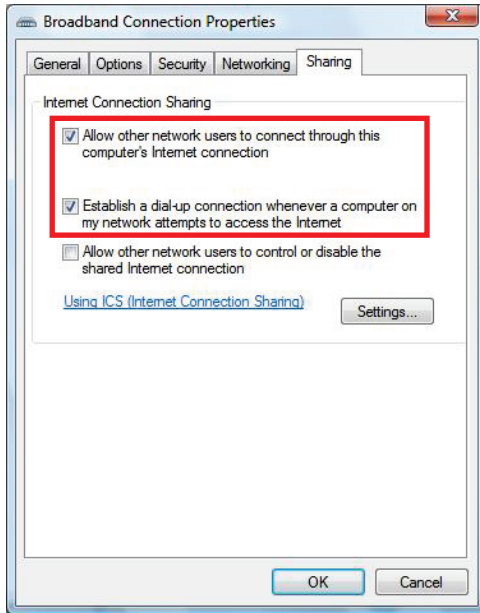
1. Access the **Network and Sharing Center** by clicking the network icon on the Windows taskbar, then click the **Network and Sharing Center** link.

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



3. Right-click **Internet**, and select the **Properties** option.





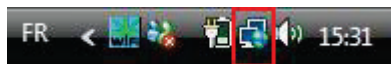
4. In the **Sharing** tab, tick the **Allow other users to connect through this computer's Internet connection** and **Establish a dial-up connection whenever a computer on my network attempts to access the Internet** boxes.

Note: The **Establish a dial-up connection whenever a computer on my network attempts to access the Internet** option allows you to enable the Internet connection on the computer connected to the modem, in the event that there is no connection when another computer tries to connect to the Internet.

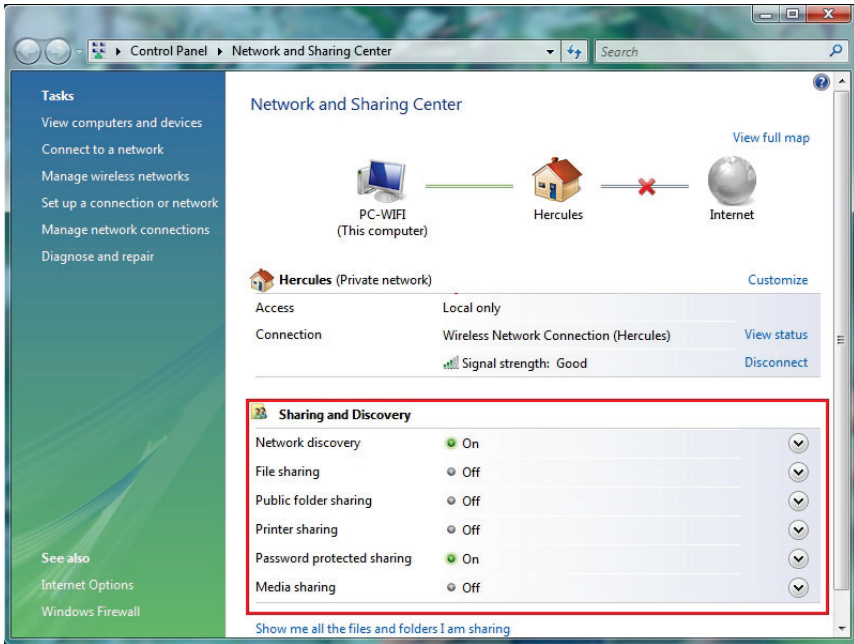
You can now access the Internet via all of the computers on your network.

4.3.3. 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**.

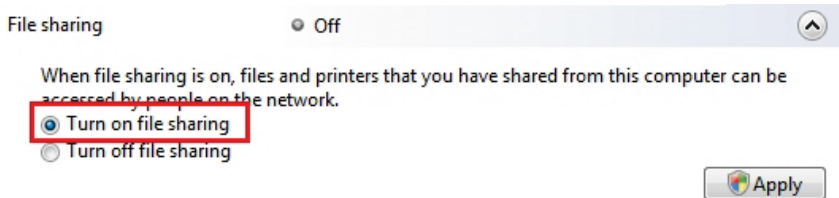


Note: To open the **Network and Sharing Center**, click the network icon in the **Windows taskbar**, then the **Network and Sharing Center** link.



Enabling file sharing


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



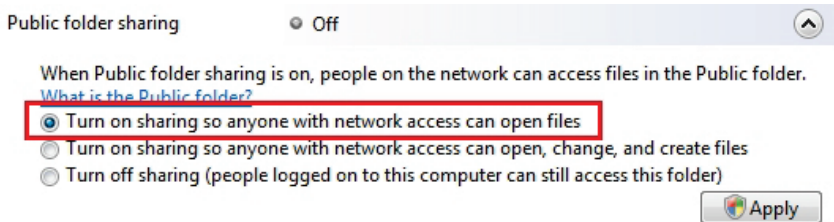
- Click **Apply**. In the Windows Vista confirmation window, click **Continue**.

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  button 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).

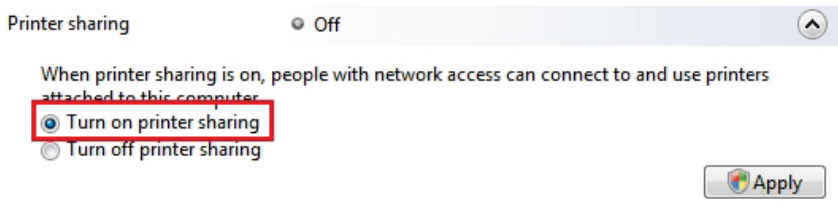


- Click **Apply**. In the Windows Vista confirmation window, click **Continue**.

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  button located opposite **Printer sharing**.
- Select the **Turn on printer sharing** radio button.



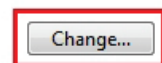
- Click **Apply**. In the Windows Vista confirmation window, click **Continue**.

Enabling media file sharing

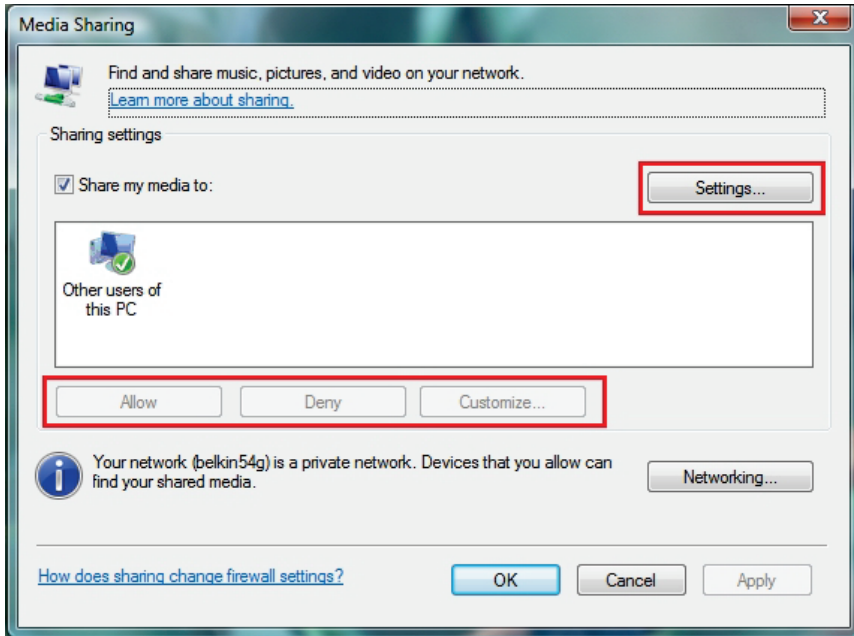
Note: This option allows you to enable sharing of your music, videos and images.

- In the **Sharing and Discovery** zone, click the **Off** link or the  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.



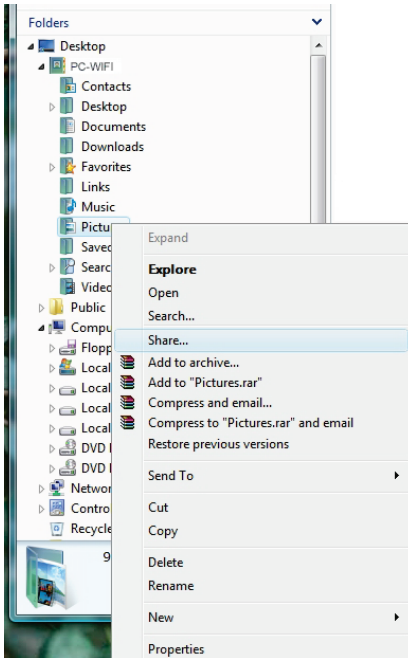
- In the **Media Sharing** window that appears, tick the **Share my media** box.



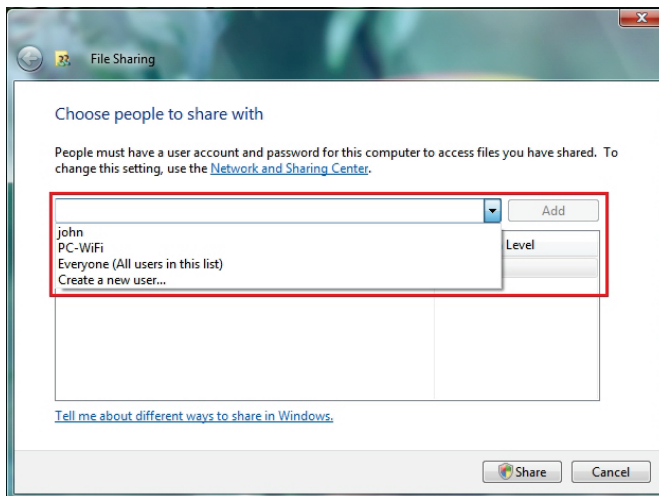
- Click **Apply**. In the Windows Vista confirmation window, click **Continue**.
- In the following window, you can define the different **settings**, such as: authorize or refuse groups of users, set parental controls, select media types to be shared, and so on.
- When you're done, click **Apply**, then **OK**.

4.3.4. 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 (the 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.



1. Select the folder that you wish to share, without opening it. Here, your **Pictures** folder.
2. Right-click the folder. Select **Share**.



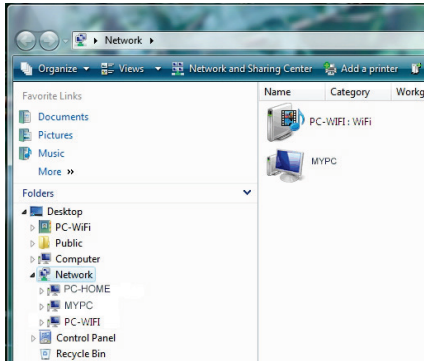
3. In the **File Sharing** window, select the user(s) who will be able to access this folder, then click **Add**.

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.

4. 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).
5. 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\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**.

4.3.5. 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\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.

4.3.6. Windows Vista: Sharing a printer

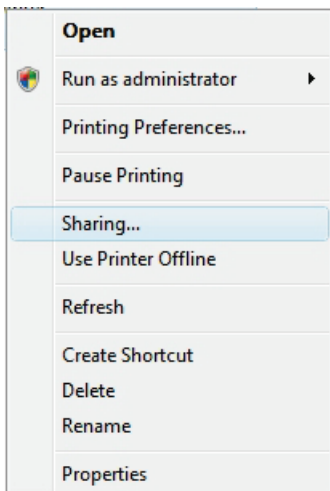
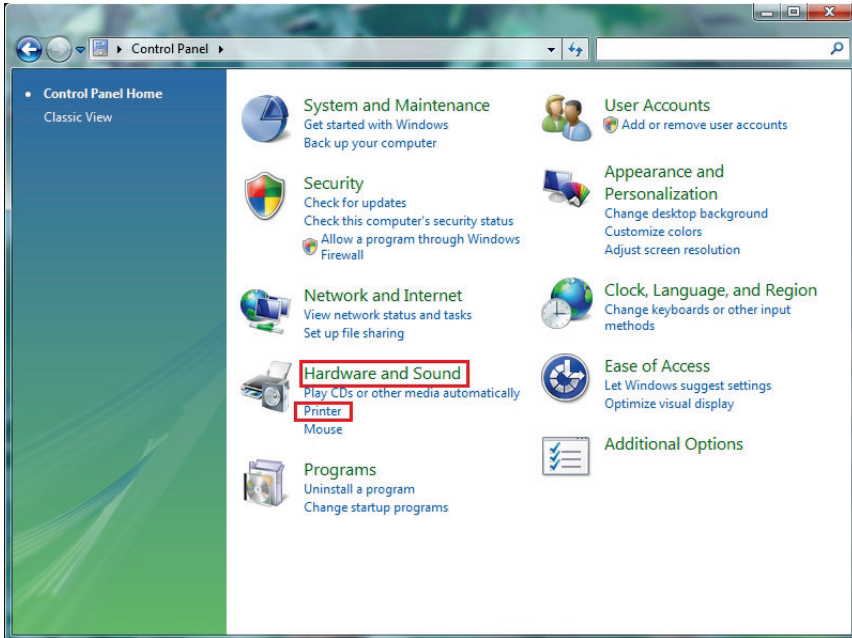
You can put a printer on the network and thereby share it with all computers in your home connected in a network via Hercules ePlug adapters.



*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 4.3.3. **Enabling sharing**). The printer must then be set up for sharing on the computer to which is connected and on which it is installed.*

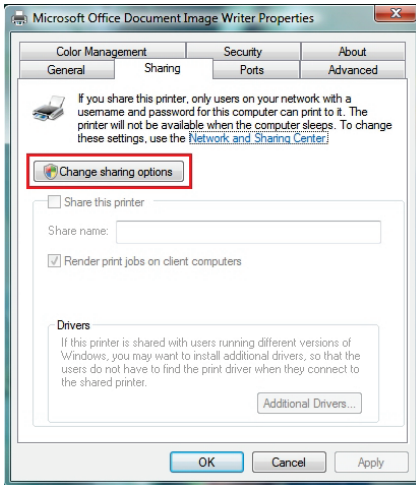
On the computer connected to the printer:

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

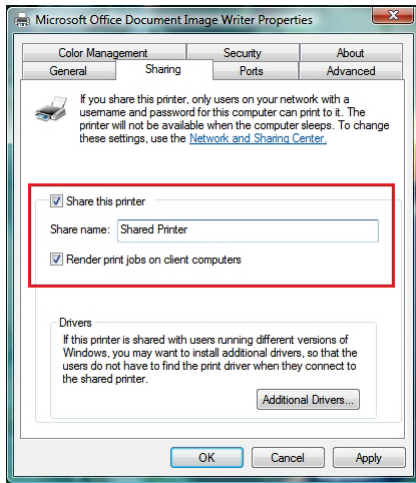


The list of installed printers is displayed.

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



4. In the **Printer Properties** window, click the **Change sharing options** button.
5. In the Windows Vista confirmation window, click **Continue**.

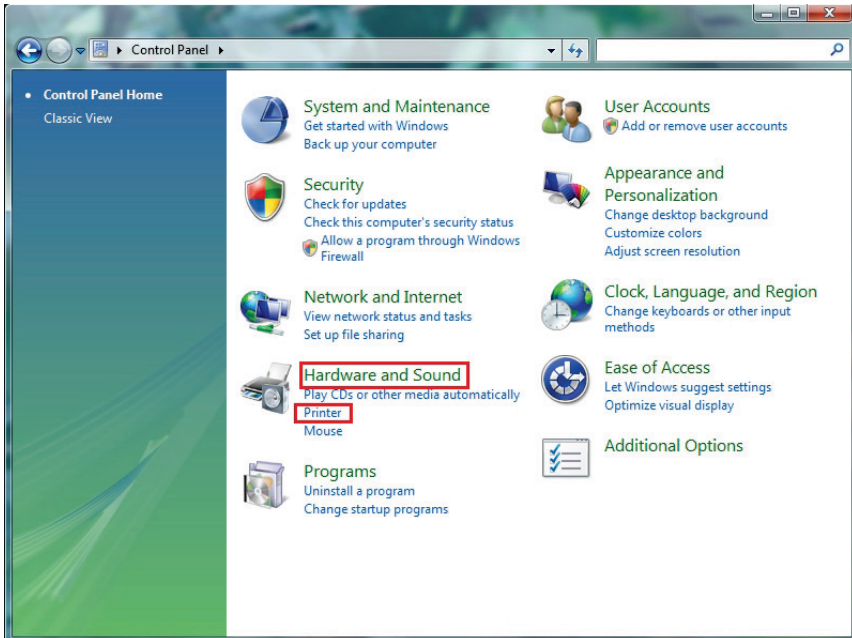


6. Tick the **Share this printer** box.
7. Select the name of the printer which will be displayed on the network under **Share name**.
8. Click **Apply**, then **OK**.

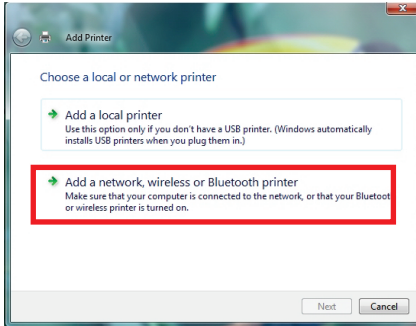
4.3.7. Computers running Windows Vista : Accessing the shared printer

On the computers that will use the shared printer:

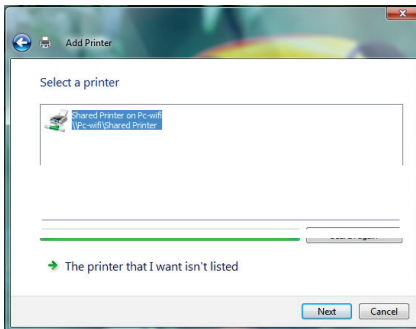
1. Click **Start/Control Panel**.
2. Under the **Hardware and Sound** heading, click the **Printer** link.



3. Click the **Add a printer** button.
The Add a printer assistant appears.



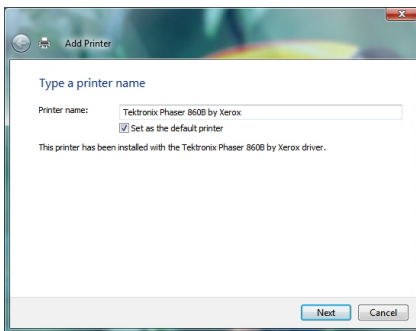
4. Click **Add a network, wireless or Bluetooth printer**.



5. Windows searches for the shared printers on your network. Select the shared printer.

6. Click **Next**.

7. If necessary, accept installation of the printer's drivers when prompted to do so by Windows.



8. Validate the name of your printer, then click **Next**.

9. Click **Finish** to close the assistant.

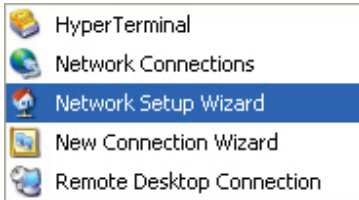
4.4. Computers running Windows XP: Sharing folders, a printer or an ADSL connection

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).

4.4.1. Windows XP: Using the Network Setup Wizard in an Infrastructure network

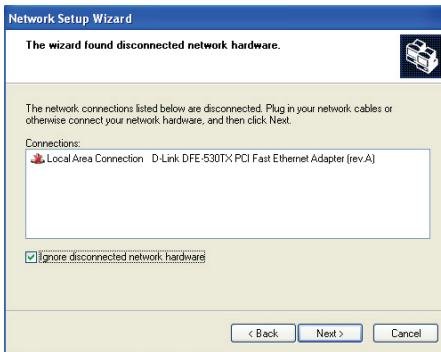
Proceed as follows for each computer:



1. Click **Start/All Programs/Accessories/ Communications/ Network Setup Wizard**.

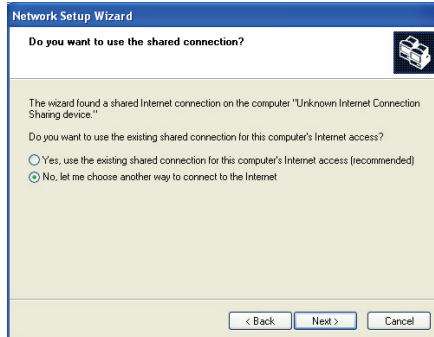
The Network Setup Wizard is launched.

2. Click **Next** twice.



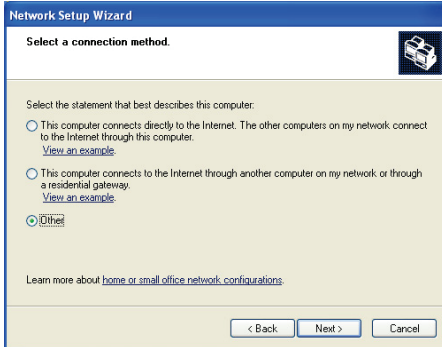
*The window opposite may appear if **The Wizard found disconnected network hardware**.*

3. If your Ethernet 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 (for more information, please refer to your router's manual).



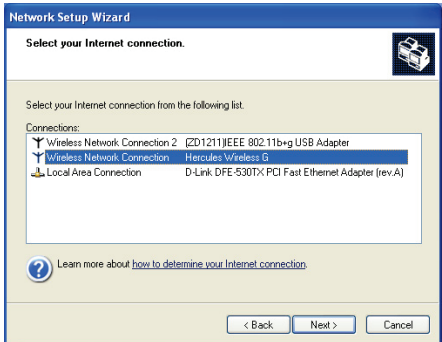
*The window opposite may appear if **The Wizard found a shared Internet connection on the computer**.*

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

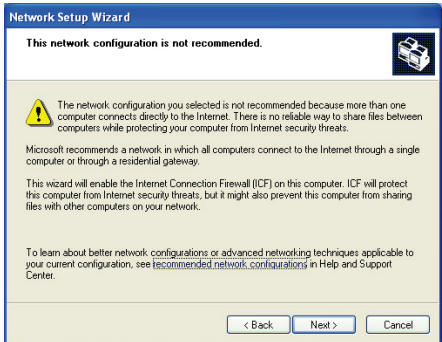


5. In the **Select a connection method** window, select the **Other** option.

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



7. If the window opposite appears, select the connection to your local area network (your Ethernet network card), then click **Next**.



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

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

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.

Determine the appropriate connections for me (Recommended)

Let me choose the connections to my network

Learn more about [network bridging](#)

< Back Next > Cancel

Network Setup Wizard

Give this computer a description and name.

Computer description:
Examples: Family Room Computer or Monica's Computer

Computer name:
Examples: FAMILY or MONICA

The current computer name is wifi-computer.

Some Internet Service Providers (ISPs) require that you use a specific computer name. This is often true for computers with a cable modem.

If this is the case for your computer, do not change the computer name provided by your ISP.

Learn more about [computer names and descriptions](#).

< Back Next > Cancel

Network Setup Wizard

Name your network.

Name your network by specifying a workgroup name below. All computers on your network should have the same workgroup name.

Workgroup name:
Examples: HOME or OFFICE

< Back Next > Cancel

9. If your computer has at least three connections (or network devices, whether Ethernet, FireWire or WiFi), the window opposite appears. In this case, let the Wizard determine the appropriate connections.

10. Click **Next**.

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, HomePlug-computer or julie, for example).

12. Click **Next**.

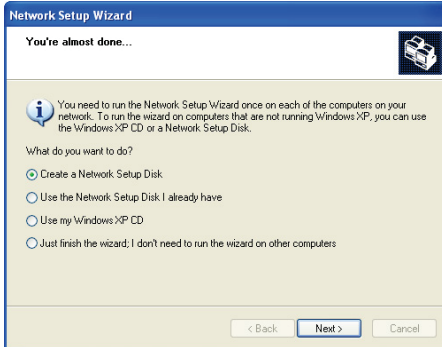
13. Enter the **workgroup** name (HOME, OFFICE or HERCULES, for example) and a description, if required.

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**.

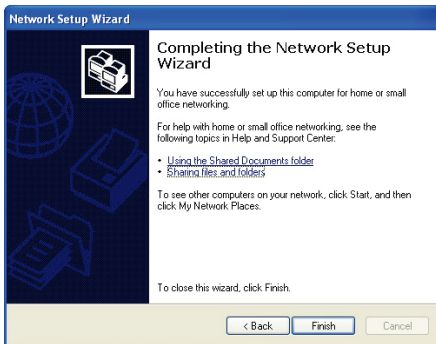
15. Verify the configuration settings you have entered in the window that appears, then click **Next**.

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.



17. Click **Finish** to exit the Wizard.

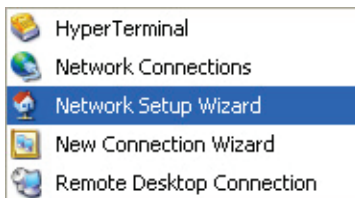
Once the procedure is finished, Windows XP may prompt you to restart your computer.



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.

4.4.2. Windows XP: Using the Network Setup Wizard in an Ad hoc network

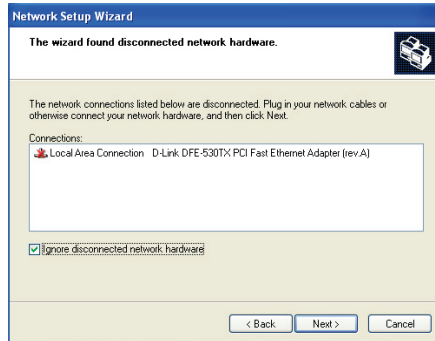
Proceed as follows for each computer:



1. Click **Start/All Programs/Accessories/Communications/ Network Setup Wizard**.

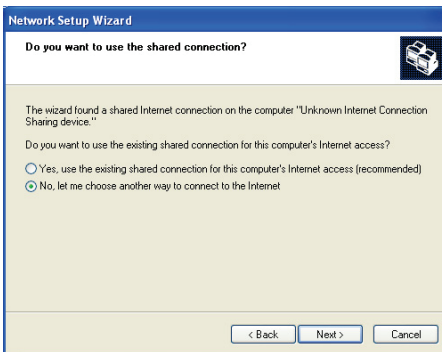
The Network Setup Wizard is launched.

2. Click **Next** twice.



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

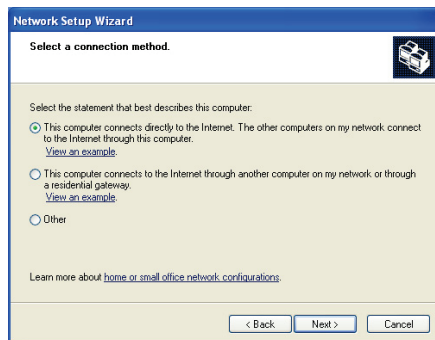
- If your Ethernet network connection is not displayed in the list, tick the **Ignore disconnected network hardware** box, then click **Next**. Otherwise, exit the Wizard by clicking **Cancel** and establish the connection from your network device to your router (for more information, please refer to your router's manual).



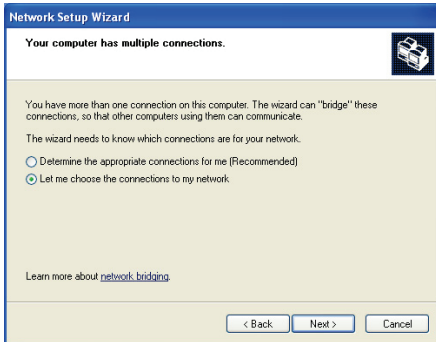
The window opposite may appear if **The Wizard found a shared Internet connection on the computer**.

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

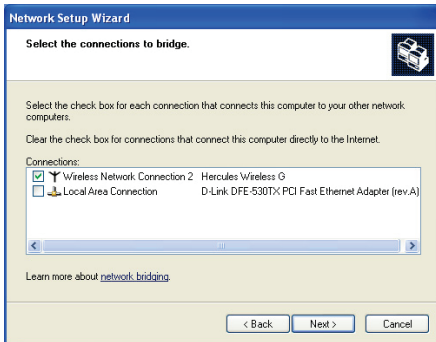
On the computer equipped with the ADSL modem:



- In the **Select a connection method** window, select the **This computer connects directly to the Internet. The other computers on my network connect to the Internet through this computer** option.
- Click **Next**, then select the Internet connection corresponding to your modem. Click **Next** again.

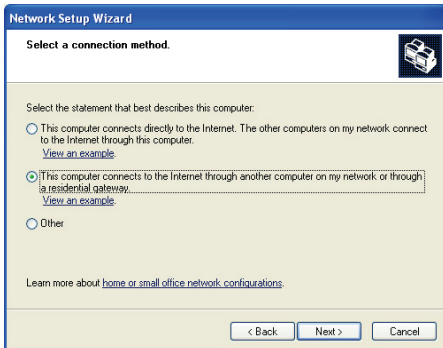


- If your computer has at least three connections (or network devices, whether Ethernet, FireWire or WiFi), the window opposite appears. In this case, select the **Let me choose the connections to my network** option, then click **Next**.

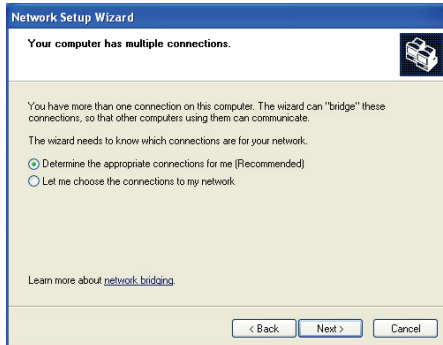


- Among the connections displayed, leave the box corresponding to the **connection to your local area network** ticked and deselect the others, then click **Next**.

On the computers that will use the shared Internet connection:



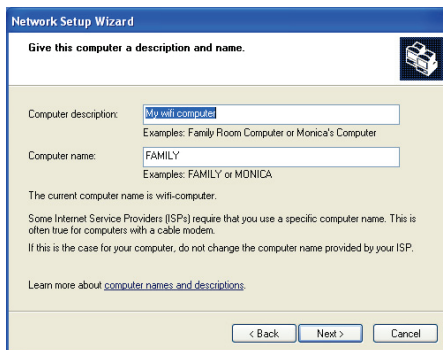
- In the **Select a connection method** window, select the **This computer connects to the Internet through another computer on my network or through a residential gateway** option.
- Click **Next**.



- If your computer has at least three connections (or network devices, whether Ethernet, FireWire or WiFi), the window opposite appears. In this case, select the **Determine the appropriate connections for me** option.

- Click **Next**.

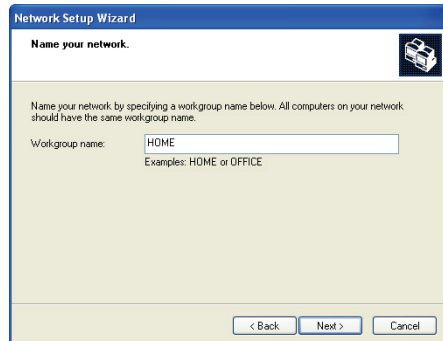
Proceed as follows for each computer:



- 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 the network (my-computer, HomePlug-computer or julie, for example).

- Click **Next**.



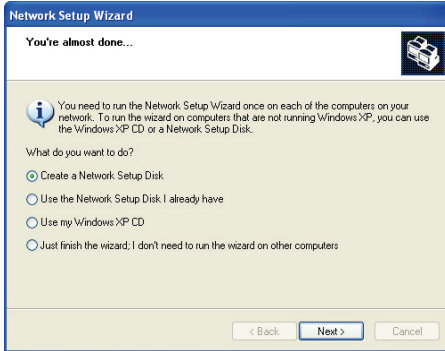
- Enter the **workgroup** name (HOME, OFFICE or HERCULES, for example) and a description, if required.

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.

- Click **Next**.

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

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



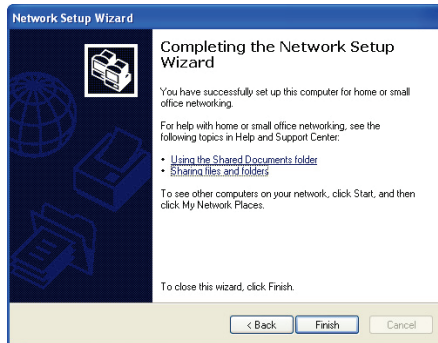
If your network is only composed of computers running Windows XP:

14. Select the **Just finish the wizard** option.

If your network is composed of computers running Windows XP **and/or** computers running Windows 98 SE, Me, 2000):

15. You can 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.



16. Click **Finish** to exit the Wizard.

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

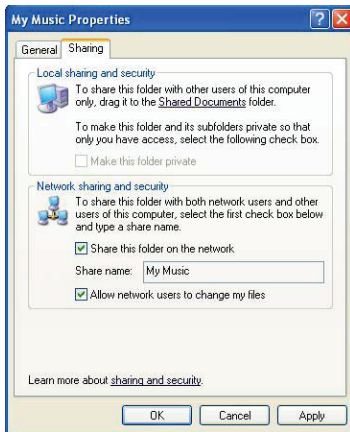
You can now access the Internet simply by launching your browser (Internet Explorer or Netscape Navigator). Sharing folders or a printer, however, requires a few additional operations, but by following the step-by-step instructions in the next chapters, the subtleties involved will no longer remain a mystery to you.



With some Internet service providers, it may happen that your shared connection is not established automatically when you launch your Internet browser. If this occurs, you must first establish an Internet connection on the computer equipped with the modem.

4.4.3. 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.



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.
4. 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.

4.4.4. Computers running 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.

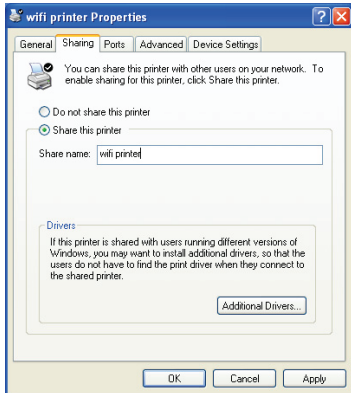
4.4.5. Windows XP: Sharing a printer

It is possible to put a printer on the network and share it with all computers in the house equipped with a Hercules ePlug 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:

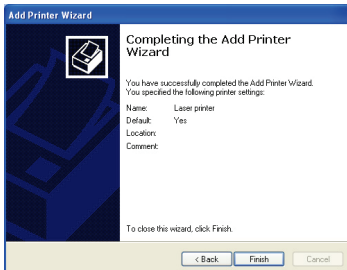
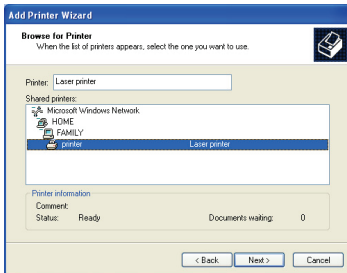
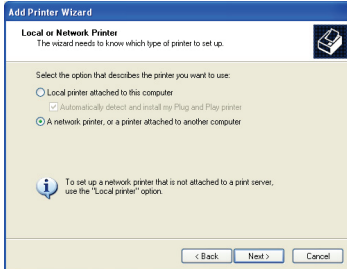


1. Click **Start/Control Panel/Printers and Other Hardware/Printers and Faxes**.
2. Right-click the printer and select **Sharing**.
3. In the **Sharing** tab, select the **Share this printer** radio button and enter a name for your printer.

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:

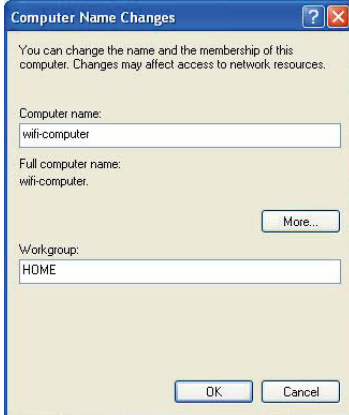
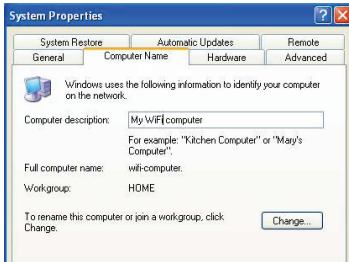


1. Click **Start/Control Panel/Printers and Other Hardware/Printers and Faxes**. In the **Printer Tasks** section, select **Add a printer**.
2. The **Add Printer Wizard** is launched. Click **Next**.
3. Select the **A network printer, or a printer attached to another computer** option, then click **Next**.
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**.
7. 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 HomePlug connection. For more information on sharing a printer, please refer to your printer's manual.

4.4.6. Windows XP: Modifying a workgroup name (advanced users)

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.
4. 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, HomePlug-computer 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.

6. 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.

4.5. Computers running a different operating system or adding any other type of network device

Your HomePlug network is not limited to computers running Windows. It also functions with computers running other operating systems, such as Mac OS or Linux.

To find out how to share your Internet connection, folders, printers and more in Mac OS or Linux, please refer to the manufacturer's documentation.

Apart from desktop and laptop computers, you can add a wide range of network devices to your HomePlug network: game console, printer, TV decoder, modem router, Internet "box", access point and more... so long as the device has an Ethernet port.

To find out how to set up these devices, please refer to the manufacturer's documentation.

5. TECHNICAL SUPPORT

If you encounter a problem with your product, please go to <http://ts.hercules.com> 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 (if you do not have Internet access):

United Kingdom	08450800942 Charged at local rate	Monday to Saturday from 8 a.m. to 7 p.m.
United States	1-866-889-5036 Free	Monday to Friday from 9 a.m. to 8 p.m. Saturday from 8 a.m. to 2 p.m. (<i>Eastern Standard Time</i>) Monday to Friday from 6 a.m. to 5 p.m. Saturday from 5 a.m. to 11 a.m. (<i>Pacific Standard Time</i>)
Canada	1-866-889-2181 Free	Monday to Friday from 9 a.m. to 8 p.m. Saturday from 8 a.m. to 2 p.m. (<i>Eastern Standard Time</i>) Monday to Friday from 6 a.m. to 5 p.m. Saturday from 5 a.m. to 11 a.m. (<i>Pacific Standard Time</i>)
Denmark	80887690 Free	Monday to Saturday from 9 a.m. to 8 p.m. (<i>English</i>)
Sweden	0200884567 Free	Monday to Saturday from 9 a.m. to 8 p.m. (<i>English</i>)
Finland	0800 913060 Free	Monday to Saturday from 10 a.m. to 9 p.m. (<i>English</i>)

Hours of operation and telephone numbers are subject to change. Please visit <http://ts.hercules.com> for the most up-to-date Technical Support contact information.

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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).

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7. 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.

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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 ePlug 200 Mini** device 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/PLC/DoC/ePlug200Mini/DoC-eng_ePlug-200Mini.pdf



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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.

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