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Equipamiento **ADSL** »
Inalámbrico

Manual de
Usuario



Adaptador USB

Telefonica

INDEX

1.- INTRODUCTION	3
2.- THE USB ADAPTER	4
2.1.- PACKAGE CONTENTS	4
2.2.- USB ADAPTER DESCRIPTION.....	5
2.3.- SYSTEM REQUIREMENTS.....	5
3.- INSTALLATION	6
3.1.- PHYSICAL INSTALLATION OF THE USB ADAPTER.....	6
3.2.- DRIVER AND MONITOR DE RED INALÁMBRICA INSTALLATION.....	6
4.- WIRELESS CLIENT CONFIGURATION	11
4.1.- CONFIGURATION UNDER WINDOWS XP	11
4.1.1.- CONNECTING TO A WIRELESS NETWORK.....	11
4.1.2.- VERIFYING THE STATUS OF THE WIRELESS NETWORK.....	12
4.1.3.- CHANGING THE ORDER OF PREFERRED NETWORKS(PROFILE MANAGEMENT)	13
4.1.4.- CHANGING THE ADVANCED CONFIGURATION	14
4.1.5.- DOMESTIC OR SMALL OFFICE WIRELESS NETWORK WIZARD	14
4.2.- CONFIGURATION UNDER WINDOWS 2000	18
4.2.1.- VERIFYING THE CONNECTION	27
4.3.- USB ADAPTER DE-INSTALLATION.....	31
4.3.1.- USB ADAPTER DE-INSTALLATION UNDER WINDOWS XP	31
4.3.2.- USB ADAPTER DE-INSTALLATION UNDER WINDOWS 2000	32
5.- USAGE OF THE WIRELESS CONNECTION.....	34
5.1.- USER PROFILES	34
5.2.- CREATING A "ZONA ADSL WI-FI" DE TELEFÓNICA PROFILE.....	35
5.3.- "ZONA ADSL WI-FI" DE TELEFÓNICA SECURITY.....	39
6.- TROUBLE SHOOTING	39
6.1.- COMMON PROBLEMS	39
6.2.- DRIVER VERIFICATION.....	42
6.3.- CUSTOMER SERVICE.....	44
7.- RECYCLING.....	45
8.- DECLARATION OF CONFORMITY	46

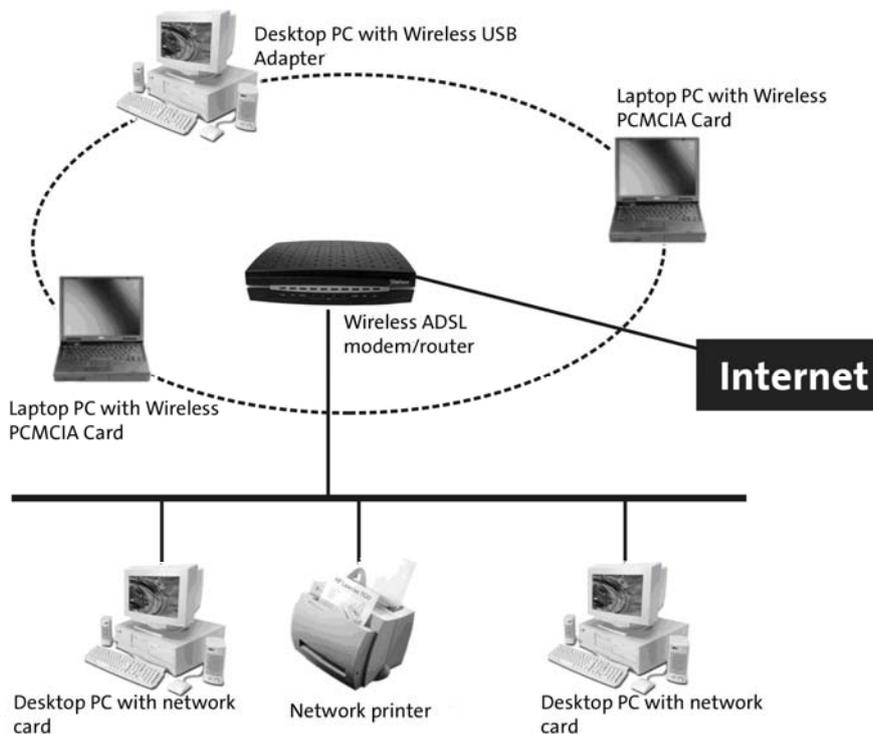
1. - INTRODUCTION

Congratulations on purchasing your USB Adapter. This device forms part of the "Equipamiento ADSL Inalámbrico de Telefonía" which allows you to take full advantage of a wireless local area network. This User Manual is designed to aid you to install and configure your USB Adapter. It is highly recommended that you read carefully the following chapters before proceeding with the start up of this service.

The new version of the Equipamiento ADSL Inalámbrico de Telefonía is based on the network standard IEEE 802.11g. This regulation guarantees compatibility with IEEE 802.11b and between devices that comply with this Standard. IEEE 802.11g can reach speeds of up to 54Mbps.

Attention

Before proceeding with the installation of your USB Adapter, it is important that you identify the type of wireless equipment that you wish to install and follow the installation and configuration instructions carefully.



2.- THE USB ADAPTER

Please follow the steps indicated in this manual; they will help you to successfully install the USB Adapter the easiest way possible. The recommended procedure is the following:

- 1) Verify that your PC compiles with the minimum requirements indicates in chapter "**2.3.- SYSTEM REQUIREMENTS**"
- 2) Make sure the products box contains all the elements indicated in the chapter "**2.1.- PACKAGE CONTENTS**".
- 3) Make the physical connection of the USB Adapter, as described in chapter "**3.1.- PHYSICAL INSTALLATION OF THE USB ADAPTER**".
- 4) Follow the steps described in chapter "**3.2.- DRIVER AND MONITOR DE RED INALÁMBRICA INSTALLATION**".

In the following chapters the installation and configuration procedure is described. Please remember that it is very important to follow the chapter step by step.

2.1.- PACKAGE CONTENTS

The following elements should come included inside this products box:

- **USB Adapter**
- **Cradle and USB cable**
- **Documentation:**
 - Quick Installation Guide.
 - User Manual (this document).
 - Warrantee Card.
 - Waiver Card.
- **One installation and support CD-ROM which contains the following:**
 - The devices driver and wireless network monitor setup file.
 - Acrobat Reader.
 - Quick Installation Guide in Spanish and English.
 - User Manual in Spanish and English.
 - TCP/IP Guidelines.
 - Router location Guidelines.

2.2.- USB ADAPTER DESCRIPTION

Telefónica's USB Adapter is based on the USB 2.0 standard, which is also cpmpliant with the USB 1.1 standard. It has 1 LED which shows its functional status.

Apart from the USB Adapter, you will also find an USB cradle in the gift box. This cradle is to help to achieve an optimum signal coverage which and not oblige the USB Adapter to be connected to the PC. The USB Adapter can be connected directly to your PC or if you prefer you can connect it to the USB cradle. Please take into account that the cradle is magnetized and could damage some magnetic devices, make sure that the cradle is situated as far as possible from these devices.

See photo shown below.



The LED indicator indicates the working state of the adapter:

- Flashes when the USB Adapter transmits and receives data. Remains unlit when there is no data traffic.

The USB Adapter supports hot swapping, which means you can connect and disconnect the USB Adapter when your PC is started without causing any damage to any equipment.

Note: To achieve optimal performance, the USB Adapter should be connected to an USB 2.0 port. If you connect the USB Adapter to an USB 1.1 port, it will work fine, but its performance will not be its maximum.

2.3.- SYSTEM REQUIREMENTS

- Desktop or laptop PC.
- Operating system: Windows 2000 or Windows XP.
- One 1.1 or superior USB port
- Pentium III or superior.
- 64 MB of RAM memory.
- CD-ROM reader.
- 15MB free hard disk space.

VERY IMPORTANT!:

It is very possible that during the installation in your PC, you will need your operating systems CD-ROM. It is highly recommended that you have this handy during the installation procedure.

3.- INSTALLATION

This chapter explains the procedure of the connection and installation of all the different elements. To do this it is important that you follow the steps in the order

specified in this chapter. This manual only describes the installation, configuration and maintenance procedure of the USB Adapter as a wireless client.

3.1.- PHYSICAL INSTALLATION OF THE USB ADAPTER

Due To device being USB standard, the installation procedure is very easy. This type of device is very user friendly due to the PC automatically detecting new devices that have been connected.

Please follow carefully the steps to connect each of your PC's:

1. Start up your PC **without** the USB Adapter connected.
2. Insert the CD-ROM, included in the box, into your CD reader. The CD-ROM will play automatically.
3. Select the option "Instalar AdaptadorUSB".
4. Please refer to chapter "3.2.- DRIVER AND MONITOR DE RED INALÁMBRICA INSTALLATION".
5. Connect the USB Adapter to a USB port on your PC.
6. Refer to the chapter "4.- MONITOR DE RED INALÁMBRICA CONFIGURATION" to configure your USB Adapter.

Remember:

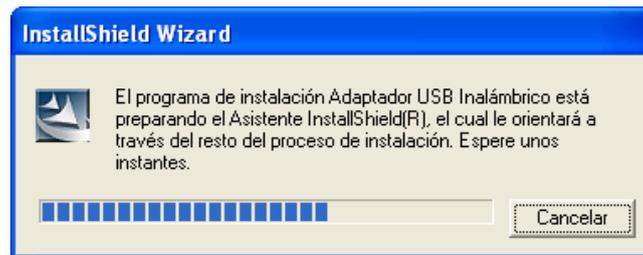
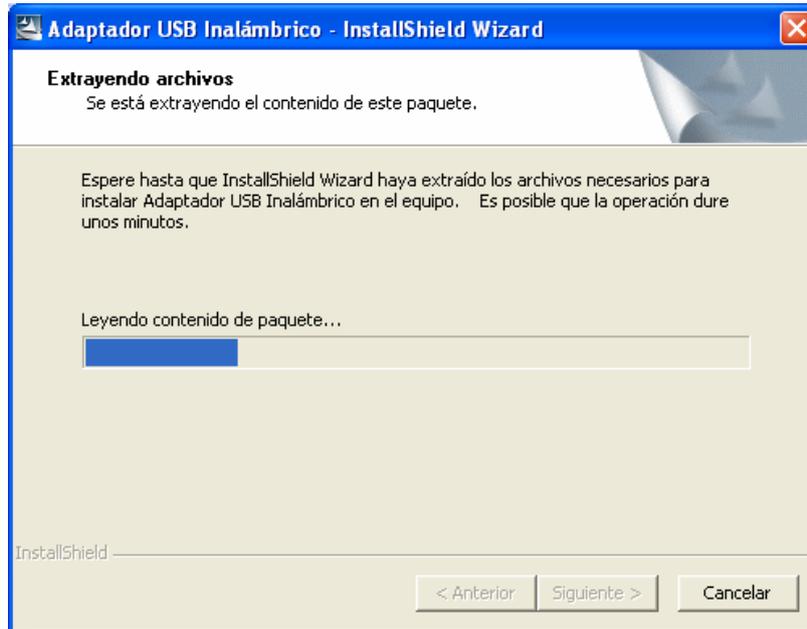
It is very possible that during the installation in your PC, you will need your operating systems CD-ROM. It is highly recommended that you have this handy during the installation procedure.

3.2.- DRIVERS AND MONITOR DE RED INALÁMBRICA INSTALLATION

Once you have inserted the CD provided inside the USB Adapters box, the installation procedure will automatically start up. If the screen shown below does not appear, double click on the "AutoRun.exe". Select "Instalar Adaptador USB".



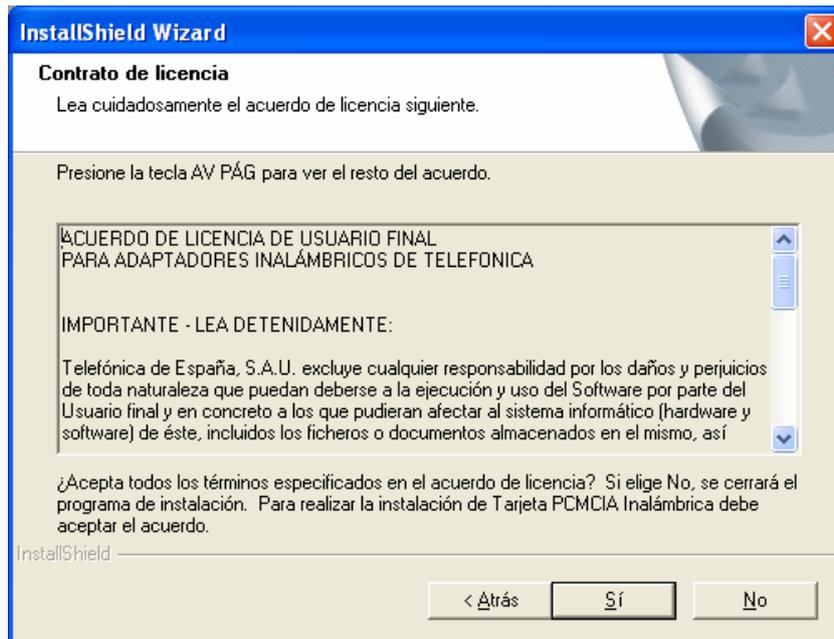
The installation programme will automatically prepare the installation of the drivers shown in the following screens.



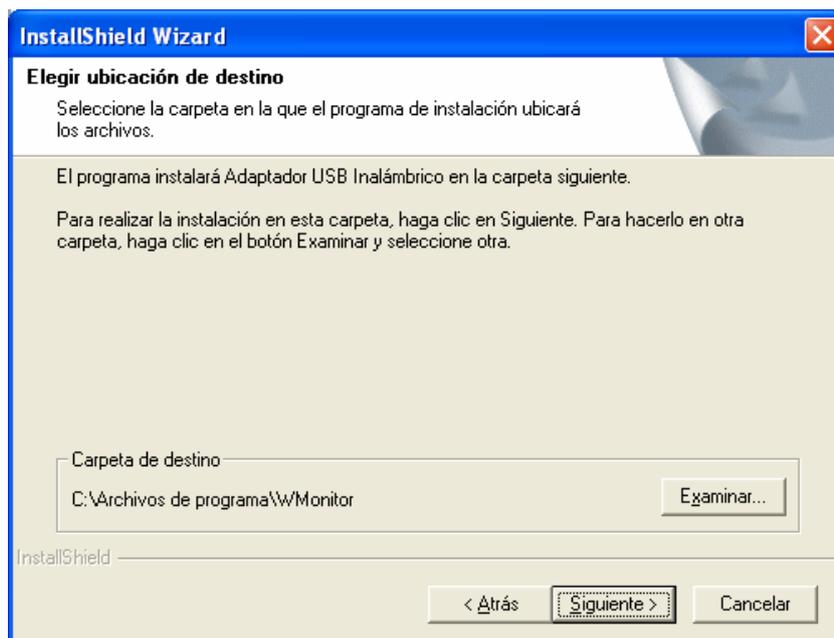
The installation will welcome you to the installation process:



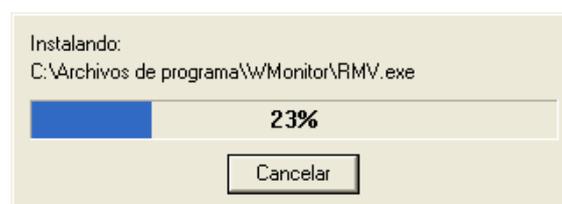
Press "Siguiete" to start the installation of the USB Adapter.



The installation programme will show a Telefónica de España's licence agreement. If you agree with the licence, press "Sí" and you will pass onto the screen shown bellow, if you wish to exit the installation, press "No".



In this screen you can choose where you want to install the files that the installation programme will install. Once you have selected, press "Siguiente" to continue.

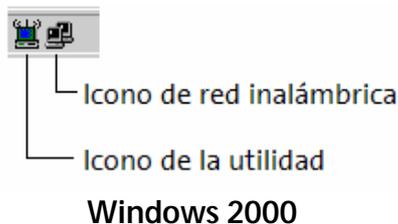


The programme will install the Monitor de Red Inalámbrica's components.
USB Adapter
User Manual



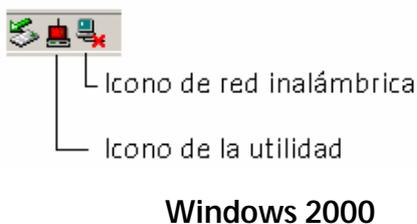
Once the installation programme has correctly installed the USB Adapters drivers and utility, the screen shown above will appear, press "Finalizar" to exit the installation programme. Depending on the operating system that your PC has installed, your PC may ask you to restart the PC, if so restart your PC.

When all the installation processes have finished, connect your USB Adapter to a USB port of your PC and make sure that the task bar at the bottom right hand side of your screen has a new icon corresponding with your wireless device.



If the icon appears red, this indicates that you have not yet associated your USB Adapter with another wireless device.

Important note: If the icon that corresponds with the wireless network appears "crossed out", this is because the USB adapter has not yet been configured for an access point.

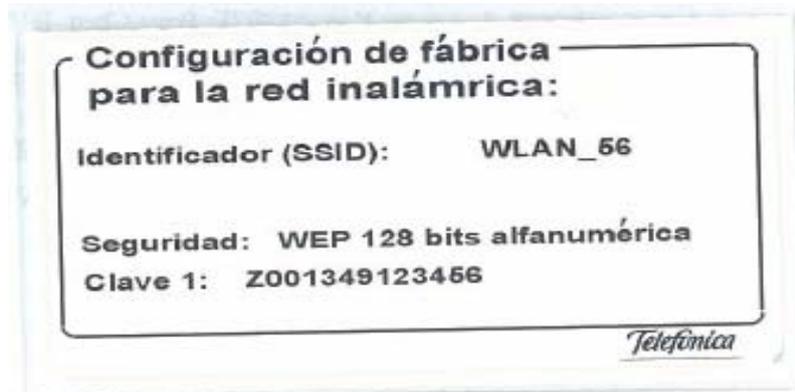


In the following chapter you will find the wireless network configuration procedure.

4.- WIRELESS CLIENT CONFIGURATION

Before connecting the USB Adapter to a wireless network, please you must have the following:

1. Make sure that the wireless option is activated in your router. Check that the "WLAN" LED is on. Refer to the routers user manual to activate if the "WLAN" LED is off.
2. Verify the wireless parameters of your wireless network: Network name (SSID), encryption (WPA or WEP). You can check these parameters on the label situated on the bottom side of the router or checking in the Agente ADSL (for more information, consult the routers user manual).



Example of the label on the router.

4.1.- CONFIGURATION UNDER WINDOWS XP

Once you have installed your wireless adapter in your PC, the wireless network configuration tool becomes enabled in Windows XP which allows you to connect to a wireless network and verify the wireless network status. In this chapter screen shots are taken as an example to assist you to make your wireless connection.

4.1.1.- CONNECTING TO A WIRELESS NETWORK

1. To configure the wireless network monitor, double click on Wireless Network connections icon shown on the task bar.

Connected to a wireless network: 

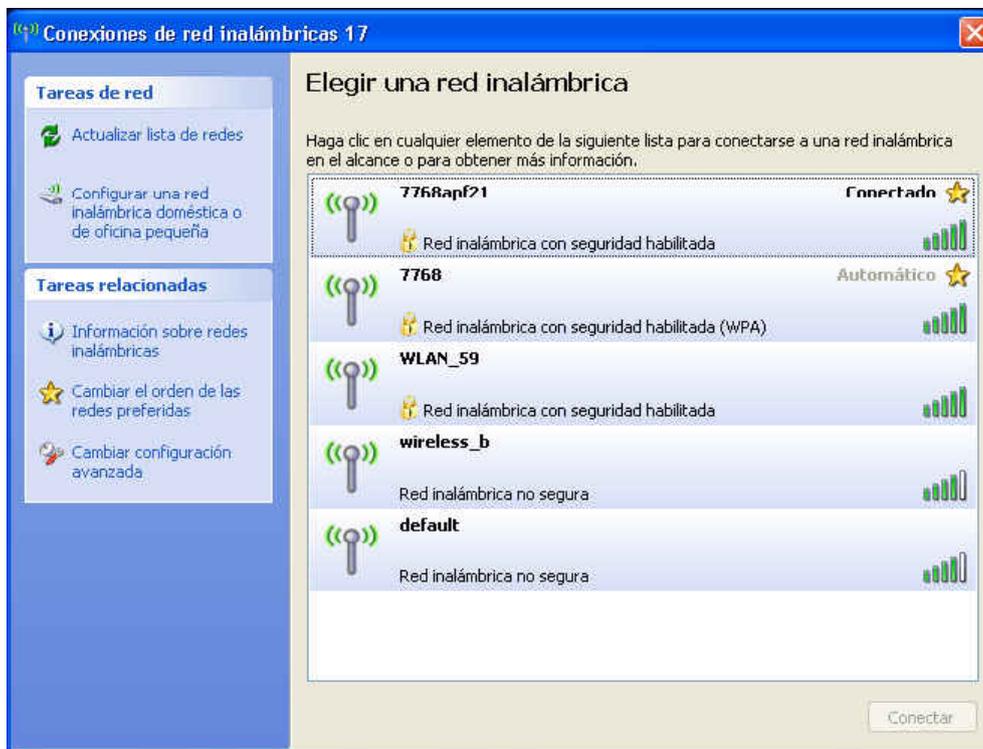
Not connected to a wireless network: 

Connection limited or null: 

2. In the option **General** clic on the button **Find Wireless Networks**.



3. In this window you will find a list of wireless networks available. If no wireless networks appear, refresh the list by clicking on the **Refresh** button situated at the top left hand side of this window.

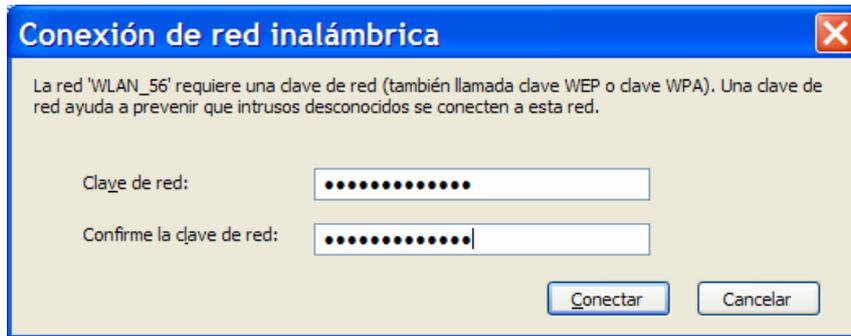


4. To connect to a wireless network shown in the list, double click on the desired network. If this wireless network is protected by WEP or WPA encryption, once selected a new window will appear on the screen where you will be required to type in

the key and reconfirm this same key that protects this wireless network. To confirm this procedure, click on the **Connect** button.

5. Once you have connected to this wireless network, the window will indicate that you have successfully connected to the desired network.

6. If you require more information about how to manage your wireless network, please read the following chapters.



It is recommended that you use 128 bit WEP keys for ADSL wireless routers based on 802.11b and "WPA-PSK" for those based on 802.11g.

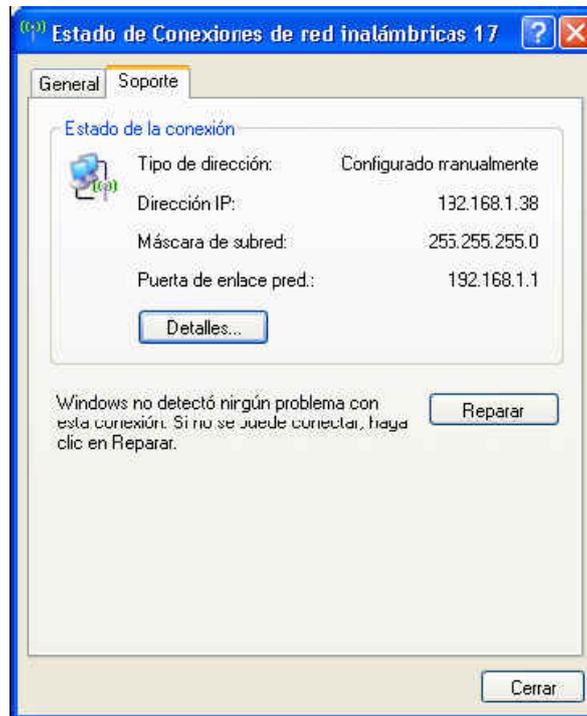
4.1.2.- VERIFYING THE STATUS OF THE WIRELESS NETWORK

To verify the status of the wireless network, double click on the wireless networks icon situated in the task bar in Windows XP. The wireless network connection window will appear

- The **General** option will allow you to verify the quality and activity on the wireless link.



- The **Support** option will allow you to verify the TCP/IP parameters of the wireless client. It will also show whether the TCP/IP parameters have been assign automatically by a DHCP server or manually.



4.1.3.- CHANGING THE ORDER OF PREFERRED NETWORKS (PROFILE MANAGEMENT)

To change the order of preferred networks and priority to a certain connection over another, click on the **Change the order of preferred networks** in the related tasks menu on the left hand side of the **Wireless networks** screen. The **Wireless network connection properties** screen will appear. Click on the Wireless Network option and a list of preferred wireless networks will appear. To give a higher priority to a certain network on the list, select this network and click on the **up** button. To give a lower priority to a network on this list, select this network and click on the **down** button.

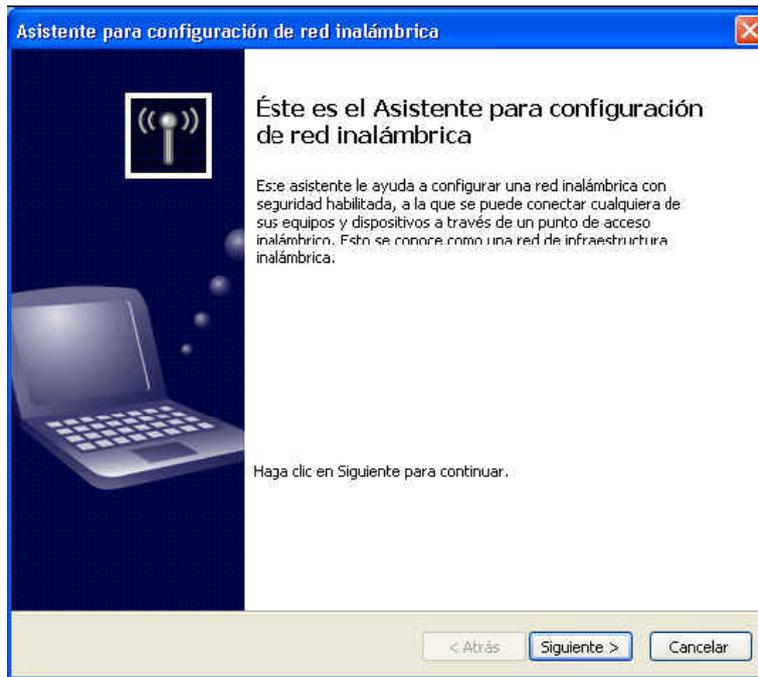


4.1.4 CHANGING THE ADVANCED CONFIGURATION

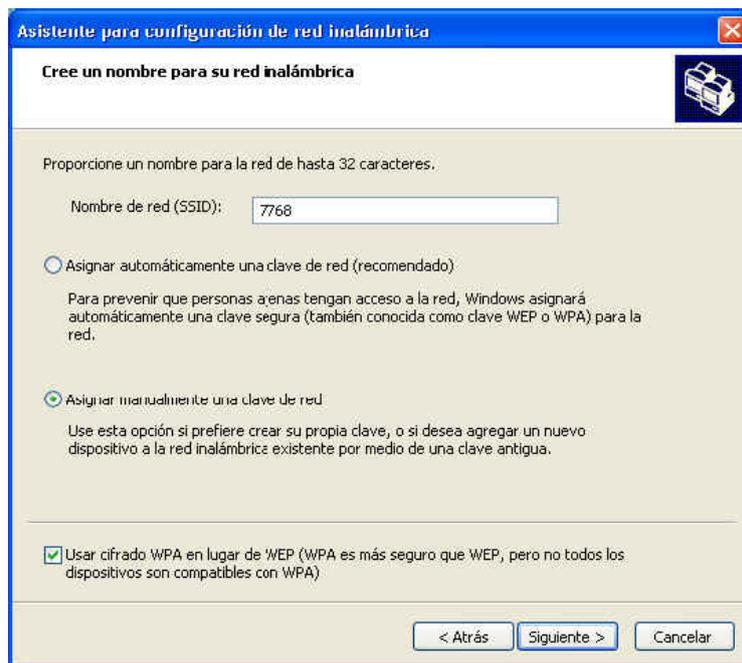
When you select this option in the **Related Task** menu situated on the left hand side of the **Wireless network connection** screen, the **Wireless network properties** will appear. In the **General** option you can access the **Advanced Configuration** of the wireless network adapter. This is very useful for TCP/IP configuration.

4.1.5.- DOMESTIC OR SMALL OFFICE WIRELESS NETWORK WIZARD

To configure a domestic wireless network assisted by Window XPs setup wizard, click on **Configure a domestic or small office wireless network** in the **network task** menu situated at the top left hand side of the screen. The setup wizard will appear to help you to configure a wireless profile with network security enabled.



When you click on the “next” button, a new screen will appear where you will need to type in the wireless network name (SSID). Choose the **Assign manually a network key** option. If you use a WPA encryption instead of a WEP, select the corresponding option.



When you click on “next” a new screen will appear where you will need to type in the network key that you previously selected. Be sure to type in the exact same key (case sensitive) that has been previously configured in your wireless router.

Asistente para configuración de red inalámbrica

Escriba una clave WPA para la red inalámbrica.

La longitud de la clave de Acceso protegido de fidelidad inalámbrica (WPA) debe cumplir con cualquiera de las siguientes instrucciones:

- Entre 8 y 63 caracteres (mientras más larga sea la clave WPA, más segura será)
- Exactamente 64 caracteres si se usa del 0 al 9 y de la A a la F

Clave de red: (26 caracteres)

Confirme la clave de red:

Esconder los caracteres al escribirlos

Como precaución, puede imprimir esta clave y la demás configuración de la red en la última página del asistente.

< Atrás Siguiente > Cancelar

Asistente para configuración de red inalámbrica

Escriba una clave WEP para la red inalámbrica.

La longitud de la clave de Privacidad equivalente por cable (WEP) debe cumplir con cualquiera de las siguientes instrucciones:

- Exactamente 5 ó 13 caracteres
- Exactamente 10 ó 26 caracteres si se usa del 0 al 9 y de la A a la F

Mientras más larga sea la clave WEP, más segura será.

Clave de red: (26 caracteres)

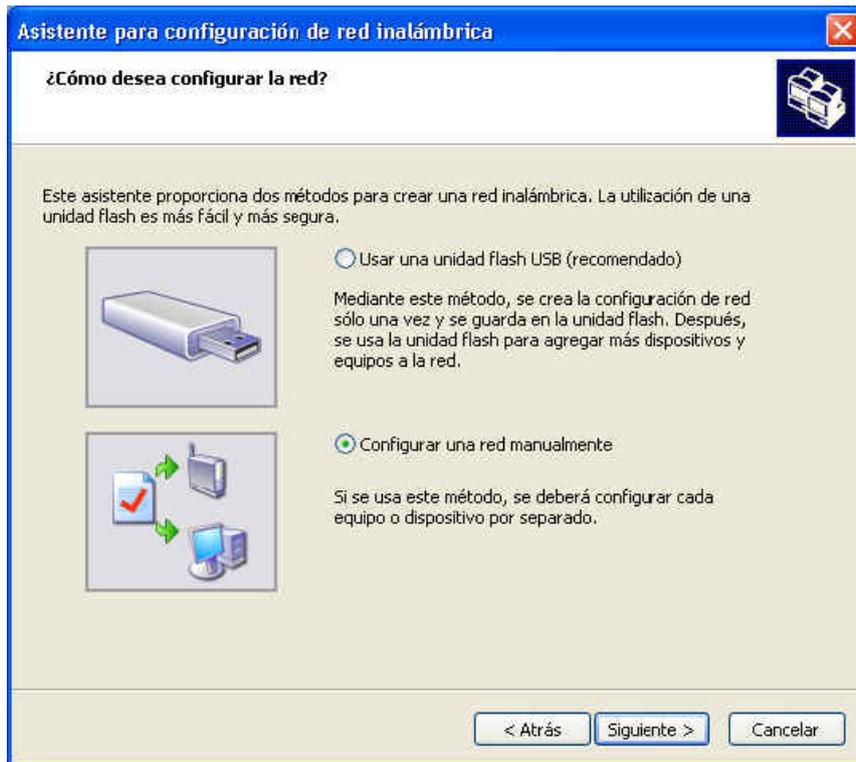
Confirme la clave de red: (26 caracteres)

Esconder los caracteres al escribirlos

Como precaución, puede imprimir esta clave y la demás configuración de la red en la última página del asistente.

< Atrás Siguiente > Cancelar

When you click on "Next" once you have typed in the network key and the **How would you like to configure the network?** Screen will appear, choose the **Configure the network manually** option.

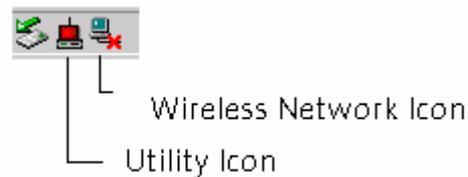


Once you have clicked on the “Next” button, wizard finalization screen will appear where it is recommended that you print out the configuration for other possible wireless network clients. To finish the setup wizard, click on the “End” button.



4.2.- CONFIGURATION UNDER WINDOWS 2000

To open the Monitor de Red Inalámbrica, double click on the corresponding icon in the task bar (Utility Icon).



The following screen appears:



The Monitor de Red Inalámbrica will show the "Enlace" screen. As you can see from the graphic on this screen, a link with a wireless access point has not yet been established ("X" between the USB Adapter and the access point). Because the link has not yet been made with a wireless device, the monitor can not determine whether the connection to the Internet is correct. When the utility has been configured, these graphic will help you to decide on the working state of the USB Adapter and its connections.

Click on the "Redes Disponibles" tab. In this screen you will find all the available networks that are with the signal range of the USB Adapter.

In this screen you will see a "Refrescar" button, when you click on this button the programme will search for all the wireless networks within the signal range and refresh the screen. If after pressing this button no wireless networks appear, you will need to move around until you find a signal.

In the example you will see a wireless network called "Telefonica". In the screen you will see that this network is based on a "Punto de Acceso" (access point), that will work under canal (channel) 1 has the encriptación (encryption) enabled.



To start the configuration, click on the tab “Perfiles” to create a connection profile. You can create as many profiles as necessary. This way you can have a profile for your home, office or any other place you may use a wireless connection



Click on the “Añadir” (Add) button to start a new profile configuration.



The Monitor de Red Inalámbrica will ask you to give the new profile a name. This name is only to help you to identify the new profile. For example you can use the name "Home" in our example the name "Domicilio".

Press "Siguiente" to select the connection parameters.



Next the utility will ask for the configuration information. Firstly it will ask for the wireless network name. You can type in the network name or select the network by pressing on the arrow next to the "Nombre de Red" option which is recommended. If you choose to type in the network name manually, the name has to be exactly the same; if you select the name from the list you eliminate any margin of error.

The next parameter is the type of network you wish to use ("Tipo de Red"). If you wish to connect to an access point or wireless ADSL modem/router, you must always select "Punto de Acceso". The mode "Punto a Punto" (point to point) is reserved for alternative applications and if you select this mode, you will not be able to connect to a

wireless access point. Consult chapter 2.2 "Types of Wireless networks" in this manual to obtain more information about point to point configurations.

To configure your USB Adapter in point to point mode you must select "Punto a Punto" in "Tipo de Red" and the channel your point to point network works under.

The last parameter in this screen is the speed your USB Adapter will connect to the access point. Your wireless network can operate under the four speeds corresponding with the 802.11b standard: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps and the 802.11g speeds: 54, 48, 36, 24, 18, 12, 9, 6Mbps. You can force the USB Adapter to work under any of these speeds or set the USB Adapter to automatically select the speed for you. This mode will always select the optimum speed possible. Sometimes it is necessary to reduce the operating speed so as not to lose the connection, but nearly always the best option is to select "Automático"



Press "Siguiente" once you have selected the three parameters. The utility will then ask you to select the encryption that your connection requires.



Very important note: If you use encryption, it is necessary to type in the same key both in the wireless ADSL modem/router and the PCMCIA Card or USB Adapter that makes up your wireless network. For your convenience, make sure you have the configuration data of your access point

Wireless network encryption is a very important parameter. You have three kinds of security: "Deshabilitado" (Disabled), "WEP" o "WPA-PSK".

If you choose to select "Desactivado", your connection will be completely open to unwanted users. Anyone with a wireless device could intercept your signal y use your wireless network to surf the net or access the information on your local area network. It is recommended that you always configure your wireless network with the encryption enabled. "WEP" encryption has two options:

64 bit key: Less safe but quicker.
128 bit key: Safer but slower.

You can select any of the two codes. **It is recommended to select 128 bits key for an 802.11b Base Unit or wireless ADSL modem/router.**

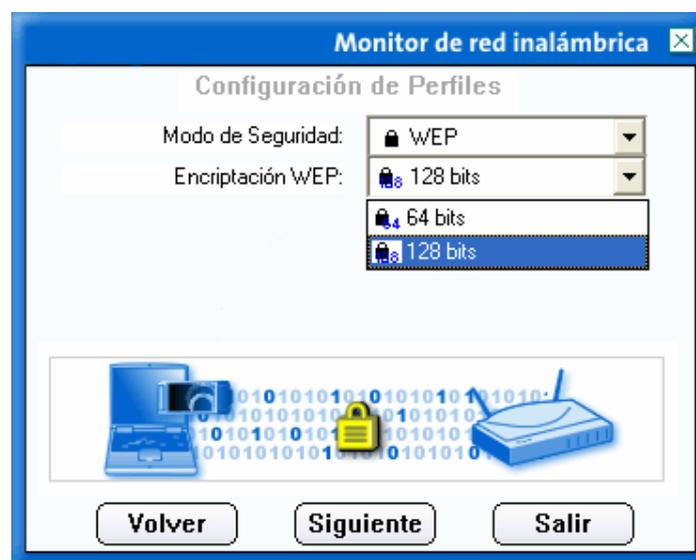
The difference between the two is the length of the key that is used to encode and decode the data. A 64bit key is made up of 10 hexadecimal digits, which means 0 to 9 and from A to F.

Examples of 64 bits keys: 1020304050
 ABCDEF9876
 12F4A23CC0

128 bit keys are made up of 26 hexadecimal digits. For example:

102030405060708090AABBCCDD
72388037456272AF23987CD6876

In the example below a 128 bit key is used by selecting "128 bits" and pressing "Siguiente".



In the screen where the key is specified, you must specify the format of the key. You can use "Alfanumérico" (Alphanumeric), "Hexadecimal" o "Frase" (phrase). In the example "Hexadecimal" is used.

Note: In "Frase" format, you can use up to a maximum of 32 characters both in 64 or 128 bits. In "Alfanumérico" you use 5 characters in 64 bits y 13 characters in 128 bits.



Type in the wireless networks encoded key. Remember that the same key must be specified in the rest of the networks wireless components, such as the access point, etc.

If you have an 802.11g Wireless ADSL Router and USB Adapter, **it is recommended that you use "WPA-PSK"**. In the "Encriptación" (Encryption) option, select "TKIP" and press "Siguiente".



In the next screen, type in the network key. Remember that you must use the same key that has been configured in the Wireless ADSL Router, in the example below "Telefonica" has been used. Press "Siguiente" once you have typed in the correct key.



The final part of the profile configuration corresponds with the Internet Protocol (IP) configuration. For your convenience and security, it is recommended that you select "Configurar" (Configure) and specify the IP parameters in the utility.

Using the IP configuration, you can have a different IP for each profile you have configured without having to modify your operating systems IP configuration each time you change from one profile to another. If you prefer to modify your IP configuration manually (Consult your operating systems user manual for instructions) and leave the utilities IP configuration disabled, select "No configurar" and press "Terminar". In the example "Configurar" is selected, then press "Siguiente".



The example will be based static IP address. For this you must disable ("Desactivado") the "DHCP" service and type in an IP address. The example below specifies "Dirección IP" (IP Address) "192.168.1.2", "Máscara de Subred" (Subnet Mask) "255.255.255.0" (Both the IP address and the subnet mask must be decided according to the IP configuration of your modem/router) and the "Puerta de Enlace" (Default Gateway)

"192.168.1.1" which must correspond with the IP address of your router/NAT. The "Servidor DNS" (DNS Server) "80.58.61.250" is obtained from the Internet service provider.



Once all the IP data has been introduced, you have finished the profile configuration.

Press "Terminar" to save all the profile data.

If your network uses a DHCP Server or your IP address is automatically assigned by your ADSL modem/router, make sure the DHCP option is set to "Activado" (Enabled) as shown in the screen below:



Using this kind of IP management, your wireless client will receive the IP configuration automatically. Before you use this service, make sure that your ADSL modem/router has the DHCP server activated. Press the "Terminar" button to finalize the profile configuration and return to the profile list.

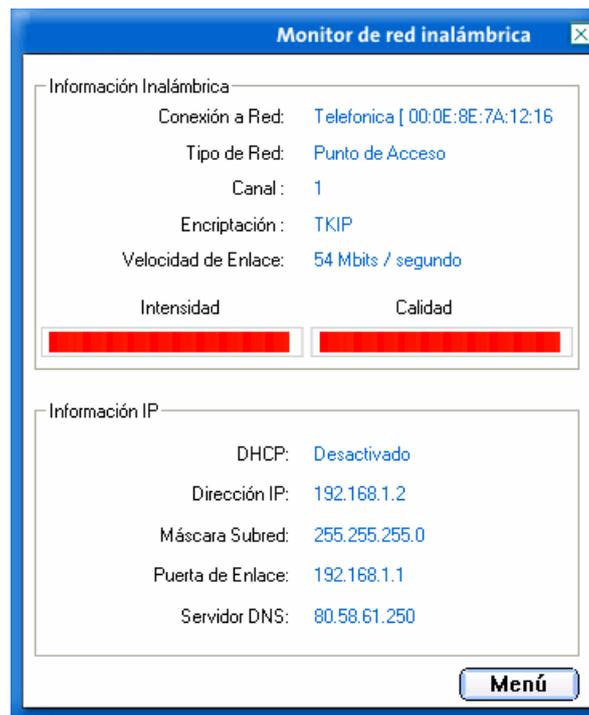


The new profile will now appear in the profile list called "Domicilio". Select the profile and press "Conectar" (Connect).



If the connection is successful, the utility's icon will change from red and the connection information. In Windows XP, the network icon will appear in an operating status and without a red cross, informing that there is a physical connection between the USB Adapter and the access point.

To test the quality of the wireless connection, you can click on the "Más" (More) button situated in the "Enlace", "Redes Disponibles" and "Acerca de" tabs. The following screen will appear:



In this screen you can see all the relative data of your wireless connection such as, the channel ("Canal"), link speed ("Velocidad de enlace"), the intensity ("intensidad") and signal quality ("Calidad") which are very useful to test all the signal coverage of your home or office. Also you can view the IP configuration of the actual connection.

4.2.1.- VARIFYING THE CONNECTION

NOTE: This chapter refers to the connection between the USB Adapter, an access point and the Internet access connection. The connection to the access point is the same as with a Wireless ADSL modem/router. For the access point and wireless ADSL modem/router configuration, please refer to their user manuals.

The Monitor de Red Inalámbrica will give you a vast amount of visual information that will help you to determine whether your wireless network is working correctly or if and where the problem lies.

In normal working conditions, the following screen should be shown in the "Enlace" tab.



Wireless Connection:
CORRECT

Internet Connection:
CORRECT

This screen informs that:

- The wireless connection between the USB Adapter and the access point is correct.
- The Internet access from the access point is also correct.

You may also find the following connection status:



Wireless Connection:
CORRECT

Internet Connection:
INCORRECT

When an "X" appears between the access point and Internet, the wireless network configuration is correct, but it is possible that the IP parameters are incorrect. Make sure that these parameters are correct and that the connection between the access point and the ADSL modem/router is also correct. You can also consult Annex A, chapter "Verify the TCP/IP Connection", in the manual to verify the IP configuration
Note: You can also test the Ethernet cable between the access point and ADSL modem/router is connected correctly.

Finally, the screen may show the following:



Wireless Connection:
INCORRECT

Internet Connection:

INCORRECT

This means that the connection between the USB Adapter and the access point. Make sure that the wireless parameters that you have previously configured in the wireless profile are correct and coincide with the parameters configured in the access point. Also make sure that the access point is powered up and working correctly.

This User Manual is based on the Monitor de Red Inalámbrica version 1.0.2.9.



Note: The Monitor de Red Inalámbrica is only visible when your USB Adapter is connected in the spot of your laptop PC. When the USB Adapter is disconnected, the Monitor de Red Inalámbrica will disappear from the task bar and will only return when the card is reconnected.

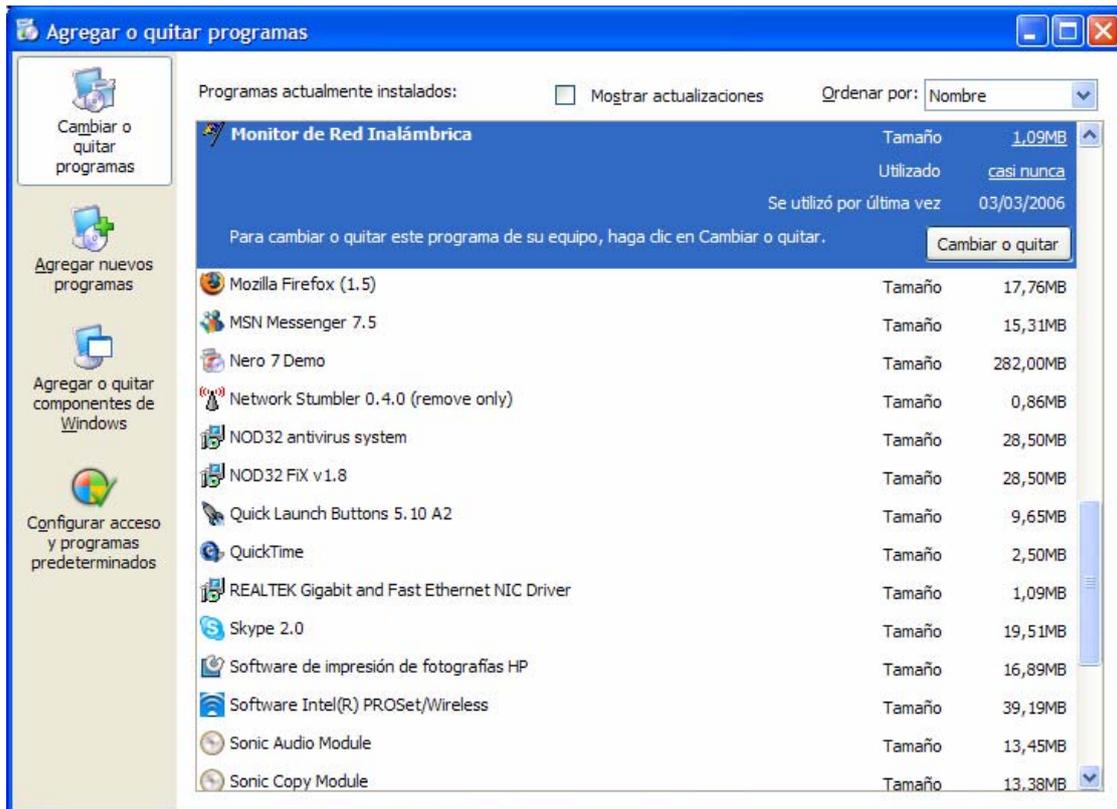
4.3.-USB ADAPTER DE-INSTALLATION

4.3.1.-USB ADAPTER DE-INSTALLATION IN WINDOWS XP

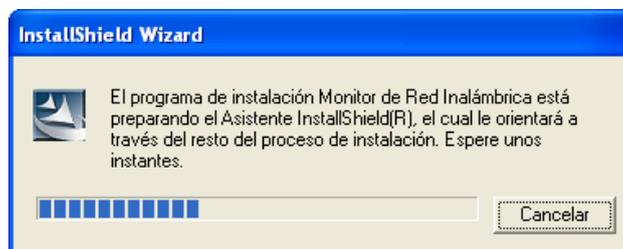
This chapter indicates how to de-install the USB adapter under Windows XP. All of the drivers will be completely deleted in your PC.

Select: Stara -> Control Panel -> Add or Remove Programs.

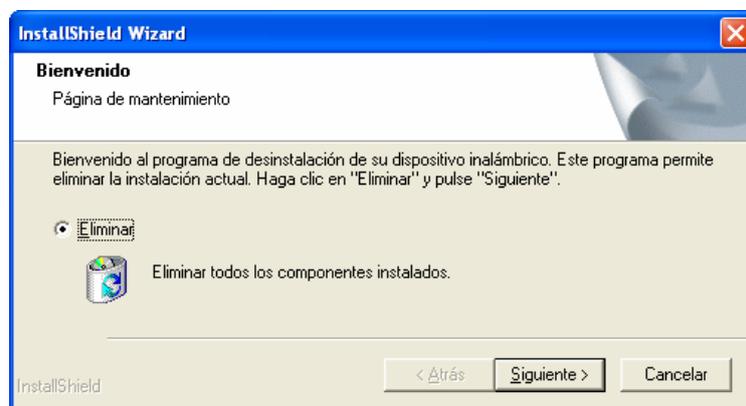
Locate the "Monitor de Red Inalámbrica" programme and click on "Change or delete".



The de-install wizard will commence:



The wizard will inform the de-install command has been given for all the components. Select the "Eliminar" and click on "Siguiente" to continue.





Click on "Finalizar" to conclude the de-installation.

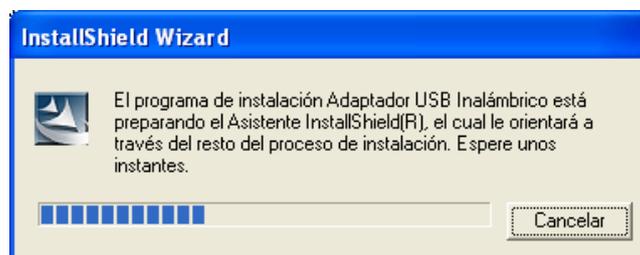
4.3.2- USB ADAPTER DE-INSTALLATION UNDER WINDOWS 2000

This chapter indicates the de-installation process of the drivers and Monitor de Red Inalámbrica. Both the USB Adapters drivers and utility will be completely erased from your PC.

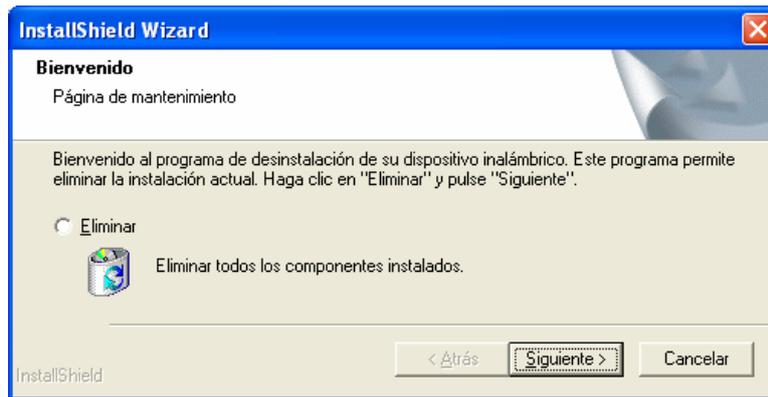
Select: Start-> Programs -> Monitor de Red Inalámbrica -> Desinstalar



The de-installation programme will start:



The programme will remind you that you have given a de-installation command for all the components, select "Eliminar" and press "Siguiente" to continue.



Click on “Finalizar” to conclude the de-installation.

5.-USAGE OF THE WIRELESS CONNECTION

As a general rule, the access points permanently remain turned on, this way a wireless signal is constantly available.

Each time you start your PC with a wireless client connected (assuming that the wireless configuration is correct), your PC will automatically connect to the access point.

Use the Monitor de Red Inalámbrica to supervise, configure and maintain your wireless network connection. See chapter “7.- TROUBLE SHOOTING” if you detect any functional abnormality or if you wish clarify any queries.

5.1.-USER PROFILES

The Monitor de Red Inalámbrica allows you to configure your wireless client so that it can be used in different wireless environments. For your convenience, you can predefine certain user profiles and switch between them depending on the wireless

network you need to connect to. The different user profiles require the necessary parameters such as the operating mode, WEP Encryption and IP address according to the configuration of the wireless network at your home, office, client, etc. and to connecting to these wireless networks is just a matter of seconds.

To create a new profile:

See the chapter **"4.- MONITOR DE RED INALÁMBRICA CONFIGURATION"** in this manual. This chapter describes in detail the complete profile creation process.

To edit an existing profile:

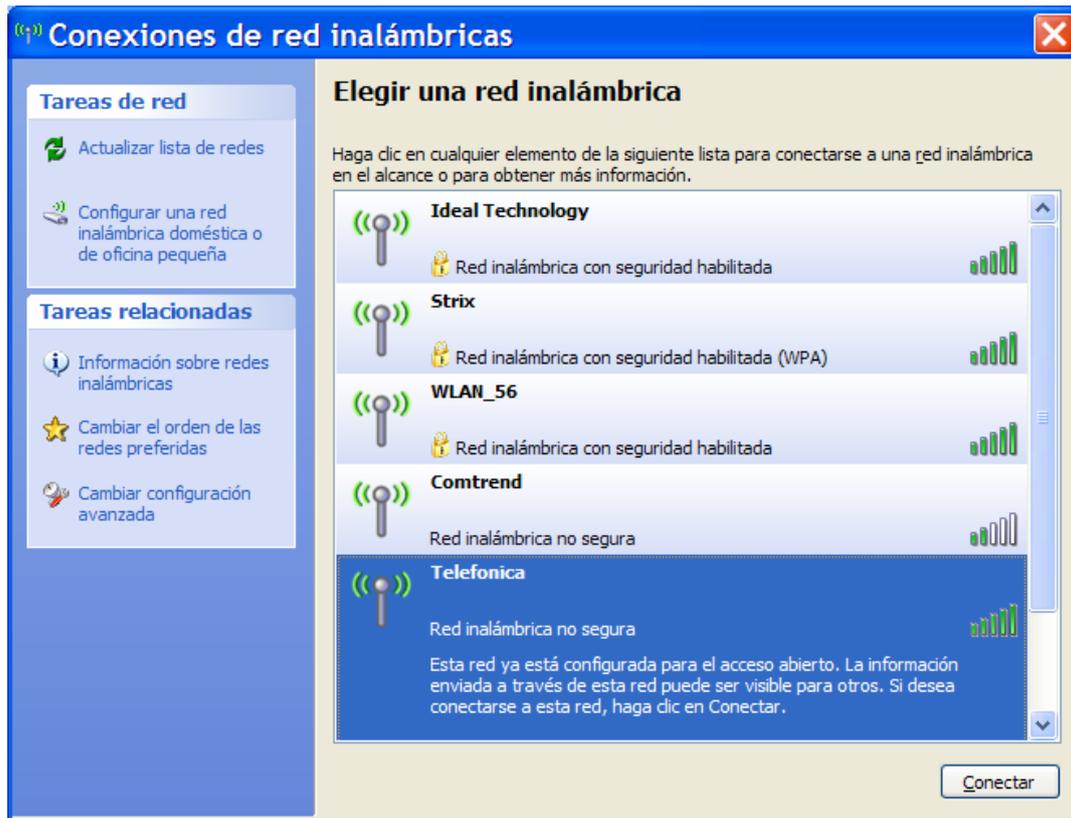
Select the profile that you wish to edit in the profile configuration screen in the Monitor de Red Inalámbrica and press the "Editar" button. All the profile parameters are available for you modify if necessary.



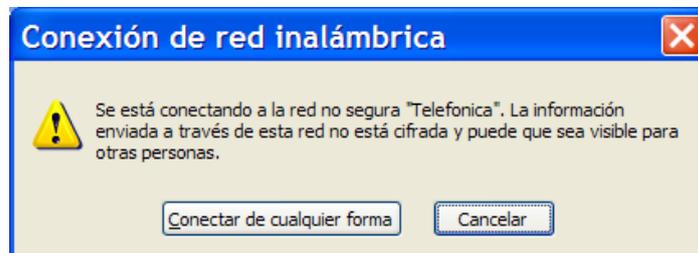
5.2.- CREATING AN ACCESS PROFILE FOR TELEFONICAS "ZONA ADSL WI-FI" SERVICE UNDER WINDOWS XP

To connect to a "Zona ADSL WI-FI" with Windows XP, follow the following steps:

Clic on **Start -> Connect to -> Gíreles network connections**. You will see a window that shows all the wireless networks the USB Adapter has detected, to refresh the windows press **"Refresh list"**. In this list you should find a wireless network called "Telefonica".



Click on the network name you wish to use. A different window should appear and press **Connect**.



5.3.- CREATING A "ZONA ADSL WI-FI" DE TELEFÓNICA PROFILE FOR WINDOWS 2000

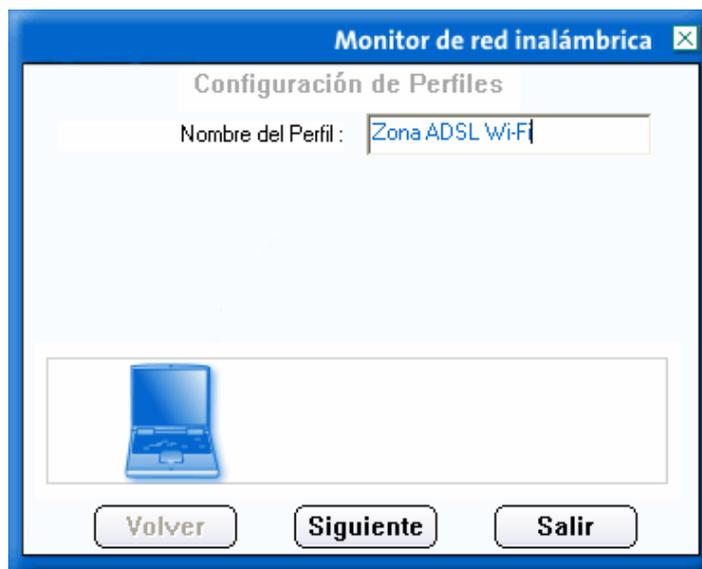
If you have not already configured a profile for "Zona ADSL Wi-Fi" de Telefónica access, it is recommended that you create a new profile in the Monitor de Red Inalámbrica.

Open the Monitor de Red Inalámbrica press on the "Redes Disponibles" tab. If you are within a "Zona ADSL Wi-Fi" signal area, you will see a wireless network called "Telefonica". In the parameter "Tipo de Red" you will see that "Punto de Acceso" is indicated and the encryption shows as "Desactivada". If you are not within a "Zona ADSL Wi-Fi" signal area, you will not see "Telefonica" in the available networks list.

To configure your "Zona ADSL Wi-Fi" profile, click on the "Perfiles" tab.



Click on "Añadir" to create "Zona ADSL Wi-Fi" de Telefónica access profile. The Monitor de Red Inalámbrica will ask you to name the new profile, as an example "Zona ADSL Wi-Fi" is used.



Press "Siguiente" to select the profile parameters.

The utility will ask for the generic configuration information. First it will ask for the network name. If you are within a "Zona ADSL Wi-Fi" de Telefónica signal range, select "Telefonica" in the "Nombre de Red" drop list. If you are not within a "Zona ADSL Wi-Fi" de Telefónica signal range, type in "Telefonica" (be careful when typing this parameter as a wireless network is case sensitive) in "Nombre de Red".

The next parameter corresponds with the type of network. The "Zonas ADSL Wi-Fi" de Telefónica is a "Punto de Acceso" network.

The last parameter in this screen is the operation speed, it is best to be left in "Automático".



Once these three parameters are configured, press "Siguiete". The utility will then ask the encryption type. Select "Desactivado".



Regarding the IP configuration, it is not necessary for you to make any modifications to this parameter regardless of the IP address that you may have previously configured in your wireless profile or if you have configured the IP address manually. The "Zona ADSL Wi-Fi" de Telefónica access automatically assigns you an IP address within its IP range

In the case that you do not have an IP address configured in your wireless profile, select IP configuration "Configurar".



In the "DHCP" option, select "Activado" and press the "Terminar" button.



You should now have a new profile in your list called "Zona ADSL Wi-Fi". To connect to the "Zona ADSL Wi-Fi" de Telefónica, select this profile and press the "Conectar" button. If the connection is successful, the wireless utility icon will change from red, indicating that the connection has been made successfully. In Windows XP the network icon will appear without a cross, indicating that the physical connection between the USB Adapter and the access point is good.



Once you have connected to the access point to surf the Internet from a "Zona ADSL Wi-Fi" de Telefónica area, you only have to call any website in your Internet explorer. The "Zona ADSL Wi-Fi" Server will redirect you to the services home page.

Select your form of payment and type in your PIN number. If you do not yet have any form of payment, you can acquire one directly from the home page.

Once your PIN number has been accepted, you can enjoy wireless broadband.

5.4.- "ZONA ADSL WI-FI" DE TELEFÓNICA SECURITY

For security reasons, the "Zona ADSL Wi-Fi" de Telefónica architecture impedes that that two PC's which are connected to the same "Zona ADSL Wi-Fi" area are not able to access each other in any way. This way, no two users will be able to access each others directories, files or folders that they may have shared in their PC. Remember, that to access a "Zona ADSL Wi-Fi" de Telefónica area you must configure the encryption in "Desactivado":

- If you wish carry out any operation with your company's network, you must use your regular VPN (Virtual Private Network) software to protect your data.

With respect to bank transactions, etc. over the Internet, please take into account that these connections are already coded through your username and password, for this reason they are completely safe.

6.- TROUBLE SHOOTING

6.1.-COMMON PROBLEMS

Coming up you will find a list of the most common problems that you may come across when using the USB Adapter. Please consult the following problems before calling Telefónica's Customer Service Centre.

The drivers and Monitor de Red Inalámbrica cannot be installed

Cause: Your PC has an anterior version of a wireless device installed. The following device will appear:



Solution:

De-install the anterior wireless device version. To obtain the de-installation procedure of this device, please refer to the device in question's user manual.

Windows cannot detect the USB Adapter

Cause: Connection or installation problems.

Solution:

- Make sure the USB Adapter is connected correctly to the USB port of your PC.
- Make sure the USB ports are enabled in the BIOS of your PC.
- If an anterior installation has been cancelled, it is possible that the device is in an inactive state. De-install the device and repeat the installation process from the beginning as explained in this manual.

The Monitor de Red Inalámbrica shows a very low signal level

Cause: The signal is instable due to obstacles and/or interferences.

Solution:

- Change the orientation of the antennas, both in the access point and the USB Adapter. You can try this by slightly moving your laptop towards the access point.
- Other electrical equipment within the vicinity can sometimes cause radio interference, move the USB Adapter away from the access point, cell phones and metallic elements that could interfere with the wireless radio signal.
- If there is a different wireless network within the vicinity, interference can be caused by the use of the same channel. You can make some home tests if this problem arise using the Monitor de Red Inalámbrica by clicking on the tab "Redes Disponibles". If it detects a nearby wireless network which is using the same channel as yours, change the channel in your access point or wireless ADSL modem/router (Consult the corresponding user manual to reconfigure). Once you have changed the channel, the wireless clients will automatically change and the new channel selected and the interference problem will cease to exist. It is also possible that two or more wireless networks exist within the signal range of your wireless network, in this case it is recommended that the channels configured are separated by as greater a distance as possible, it is not good to have the channels in a consecutive order and it is recommended that the channels are separated by at least 5 channels to the nearest access point. Refer to the access point's user manual for channel modification.

The PCMCIA Card cannot connect to the access point

Cause: There is not a sufficient signal range or there are signal interferences.

Solution: See incident above.

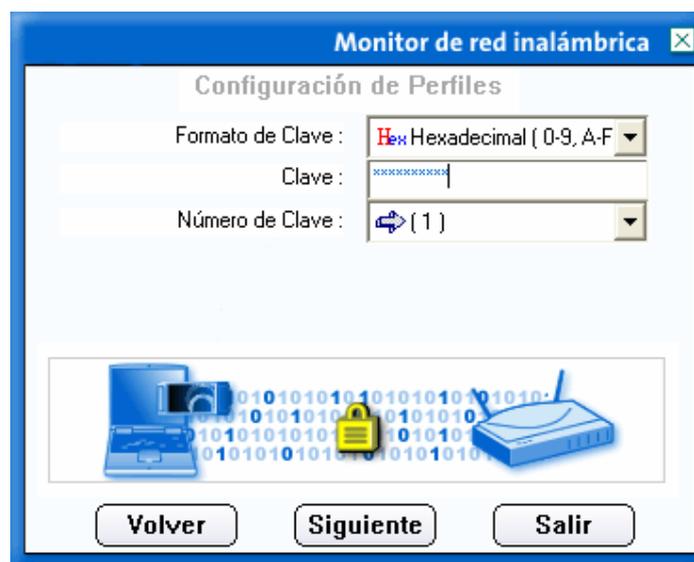
Cause: The access point is off.

Solution: Check the access point's power supply.

Cause: Incorrect profile user parameter.

Solution:

- One of the most common wireless network incidents is the incorrect key which is specified in the user profile. In the Monitor de Red Inalámbrica, make sure the parameters that are specified are correct, primarily the network name of the wireless network and the encryption key.

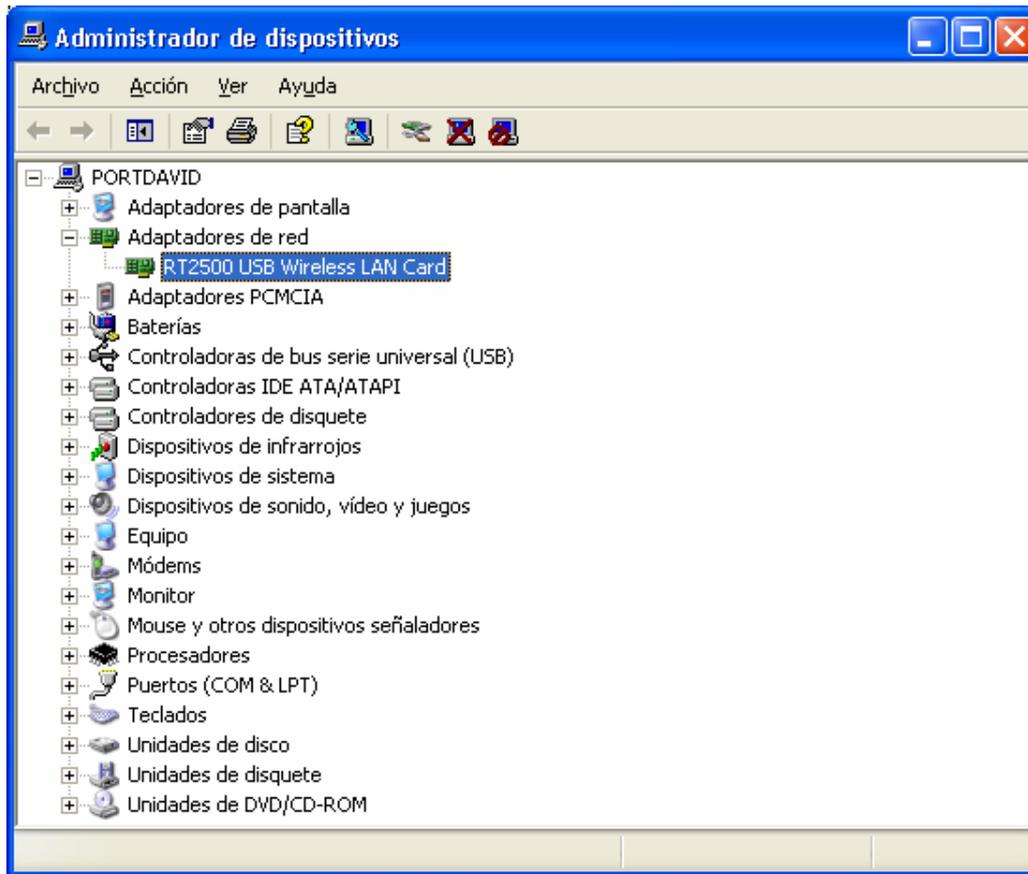


The wireless network Works but I do not have Internet access

Cause: The IP configuration is incorrect

Solution:

- Make sure the IP configuration data is correct in your user profile as per the following explanation:



Right click over the USB Adapter and select "Properties". In the "General" tab there is a box in the middle of the window titled "Device Status" and if the USB Adapter is correctly installed, inside this box will appear *"This device is working properly"*.



If this message does not appear, the device has not been installed correctly. Please de-install the USB Adapter and repeat the installation process according to this User Manual.

6.3.-CUSTOMER SERVICE

The customer service is available over the telephone and also on the Internet

Telephone support

You can call the customer service on 902 357 000 for any query you may have.

If you do not know the IP addresses that correspond with your ADSL access, dial the telephone number 900 50 20 10 from your ADSL line and an automatic service will inform you of the IP addresses the correspond with your access.

Internet support

All ADSL information can be found in the "Todo ADSL" area in telefonicaonline.com:

URL: www.telefonicaonline.com/adsl

Other related websites:

1. – Consult the IP addresses associated with your ADSL line.

Description: Gives you your ADSL configuration data via the Internet.

Requires a username and password from telefonicaonline.com (free of charge).

URL: www.telefonicaonline.com/datosadsl

2.- Quick installation guides and user manuals for auto installation kit.

Description: Support area for the auto installable kits with all the quick installation guides and user manuals for each kit that Telefonica has to offer.

URL: www.telefonicaonline.com/adsl/ayudakit

3.- Configuration zone and software upgrades.

Description: In this area you can download the latest ADSL routers re-configurators and software upgrades, the best way to make the most of your broad band connection.

URL: www.telefonicaonline.com/adsl/descarga

4.- ADSL expert zone.

Description: Information and tutorials about ADSL programmes and utilities to make the most of your broad band access. Look up the ADSL expert zone, all the information you may need at your finger tips.

URL: www.telefonicaonline.com/adsl/experto

CUSTOMER SERVICE CENTER FOR TELEFÓNICAS ADSL PRODUCTS

Telephone home users: 902 357 000

Soho and professionals: 902 357 022

CUSTOMER SERVICE FOR PRODUCTS UNDER GUARANTEE

Teléfono: 902 194 492

7.- RECYCLING

Never dispose of the USB adapter along with household waste. Ask for information from your local council for the correct ecological disposal. Always respect these disposal regulations.

Anybody that does not respect these regulations is liable and may receive fines sanctioned by the authorities.

The cardboard box, plastic packaging and the pieces that form part of the USB adapter can all be recycled under the regulations enforced in Spain for recyclable material.



The symbol of the dust bin with a cross through it, that can be found on the device, means that once the device has reached the end of its usefulness, it should be taken to the appropriate disposal centre and should be separated from regular domestic waste.

8.- DECLARATION OF CONFORMITY

CE 0560 

There may be restrictions for the use of this product in some EU countries, accept for Spain.

Product: Adaptador USB
Model: WURB-101WL-682
Manufacturer: SparkLAN Communications Inc.
Made in Taiwan
Spanish Representative: IDEAL TECHNOLOGY
NIF: B81187072

ELECTROMAGNETIC AND IMMUNITY COMPATIBILITY

The products previously aforementioned have been tested for their electromagnetic compatibility according to the la Directive 89/336/EEC of the European council. The conformity of this regulation is based on the compliance of the following standards:

EN55022:1998 limits and methods of measuring the radio interferences. This equipment complies with class B limitations.

EN55024:1998 the generic immunity standard of electromagnetic compatibility: residential, commercial and light industrial ecology (January 1992). Also with IEC 801-2 (1984); IEC 801-3 (1984); IEC 801-4 (1988).

SECURITY (Low voltage committee)

The products previously aforementioned have been tested for their electrical security according to the Directive 72/23/EEC of the European council with the correction 93/68/EEC on electrical equipment security. The conformity of this regulation is based on the compliance of the following standards:

EN61558-1:1997
EN61558-2-6:1997
EN61558 A1:1998



Madrid, 3rd March of 2006

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Domingo B. Téllez Rojo
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TELEFÓNICA DE ESPAÑA, S.A.U. INFORMS

We would like to thank you for your trust in Telefonica de España by purchasing one of our products; we inform you that for any explanations, query or complaints, you can call free phone the following numbers:

- **Personal attention (1004)**
- **Customer service centre for SOHO (900 555 022)**
- **Customer service centre for large companies (900 120 900)**

Where you will be attended by our advisors, or if you prefer you can visit our website:

www.telefonicaonline.com.

To obtain information about our post sales service, see the warrantee card of the product you have purchased.

Finally, to send a complaint via postal service, please send to Telefónica de España S.A.U, Gran Vía 28, 28013 Madrid.