

Basic Configuration Guide using Web Interface for router TG585iv7

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Introduction

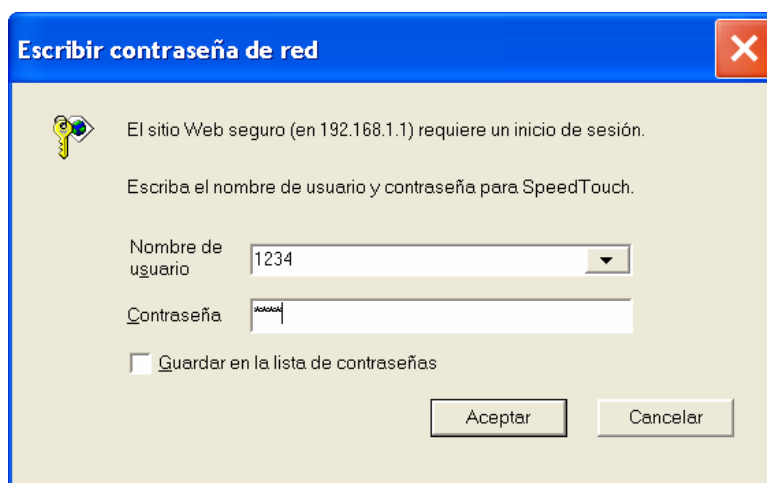
Users with a Windows Operating System on their PCs can use the configuration wizard that is installed by the ADSL Agent in order to configure both Internet access and their PCs. Advanced users or users who have other Operating Systems and don't have a similar tool for configuration can use all the features offered by the router in an very easy way.

WARNING: before using the tools that the manufacturer of this product offers directly to you and that are informed by Telefonica de España merely with informative purposes, we advise you that Telefonica de España doesn't offer any type of technical support on it.

The ST585iV7 gateway has its own web server from which the router can be completely configured and this will be the way showed in the following guidelines to describe the different configurations, but before, some concepts necessary to follow this document, will be introduced.

First of all, it is necessary to access to the initial web page of the router. The user must access to the <http://192.168.1.1> page using any web explorer.

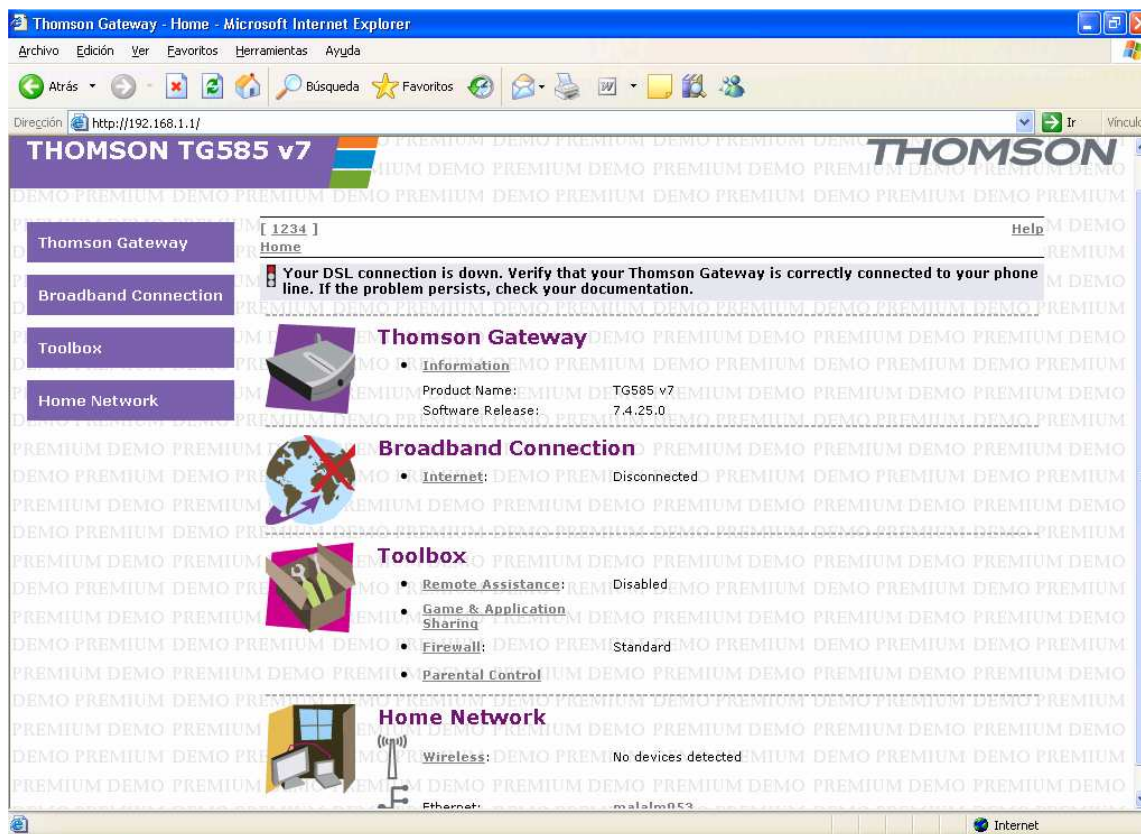
The user name and password will be needed. Fill in "1234" in the user field and "1234" for the password.



Once accepted, the Router welcome page will be shown.

In case the access to this web page is denied, please make sure your computer IP address belongs to the same sub network of the router (192.168.1.1 by default). Finally, you will be sure to know the router configuration, restoring default configuration.

Once the access to the router via web is established, following the steps described previously, you will see this page:



The links on the left allow the access to all the different configuration or information menus.

The ADSL access services of Telefónica have two options referring to the way your router or computer receives the IP address needed to access to the Internet:

The dynamic IP address (PPPoE) is the most common. By this way, the IP address will be assigned to your equipment at the connection moment, this means your device will be connected to the Internet with this assigned IP, but only when the connection is enabled. To make this connection, you will receive a user name and a password which will be used automatically by your device once set up.

The static IP address means that your equipment will be connected to the Internet through an IP address permanently assigned since the service hiring. This address would identify your equipment in the Internet. Moreover, to complete the configuration another value called subnet mask is needed and its format is identical to the IP address, this means, four numbers separated by one point. In this case you should receive a letter with the configuration parameters (user and management IP address and subnet mask)

On the other hand, regarding the way your local equipments (computer) connect or/and share the Internet connection, two configurations ways are possible:

The “multipuesto” mode allows you to create a local network with different equipment and allows you also an Internet access from every equipment. This implies the NAT use (Network Address Translation) which changes the private IP address of your network equipments, by a unique public IP address valid in the Internet. An additional advantage is that this configuration increase the security on you local network since the local addresses cannot be seen in the Internet.

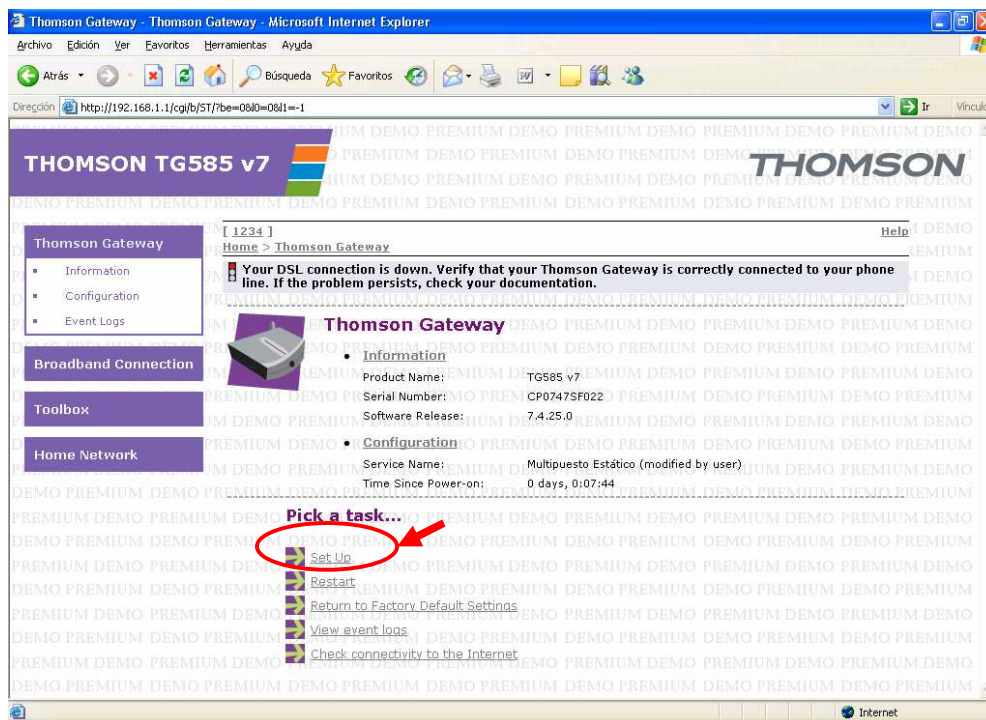
The “monopuesto” mode allows you to connect simultaneously one computer to the Internet. The advantage of this configuration is that your computer is another node in the Internet network, and has access to the Internet without any restriction. That allows the correct operation of any application. The disadvantage is that your computer is vulnerable to the external attacks and for this reason it's recommendable the use of protection programs like firewall.

We can talk about four combinations. The detailed configuration through the router web interface for these four options, is explained on the following sections:

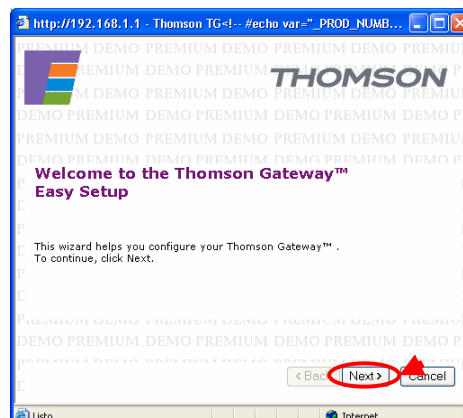
Configuration “multipuesto dinámica”.

The initial configuration of router TG585iv7 is “multipuesto dinámica”, so you don’t need to modify anything for starting to use the router. However, you can configure it manually following next steps:

- Click on “Thomson Gateway” and after it click on “Set up”



- Now the “Thomson Gateway Easy Setup” wizard starts. Then click on “Next”.



- On this screen, select the service “Multipuesto Dinámico” and click “Next”:

http://192.168.1.1 - Thomson TG585iv7 #echo var=_PROD_NUMB...

Service Selection
You need to select the service you want to connect to.
Select the service of your DSL account. Click Next to continue.

Select a service:

Monopuesto Dinámico
Monopuesto Estático
Multipuesto Dinámico

Description of selected service:

DESCRIPTION	Router PPPoE
REGION	España
PROVIDER	Telefónica

< Back Next > Cancel

Listo Internet

- After it, introduce the internet account settings provided by Telefónica (user name: adslppp@telefonicanetpa and password: adslppp) and click “Next”.

http://192.168.1.1 - Thomson TG585iv7 #echo var=_PROD_NUMB...

Configuración de su Conexión a Internet
Especifique los detalles de su conexión a Internet. Esta información le ha sido proporcionada por Telefónica.

Nombre de Usuario: adslppp@telefonicanetpa
Introduzca su Nombre de Usuario de conexión a Internet.

Contraseña:
Introduzca su contraseña de conexión a Internet.

Confirme su contraseña:
Vuelva a introducir su contraseña

< Back Next > Cancel

Listo Internet

- On next screen you need to introduce user name (1234) and password (1234) for accessing to the router. Then, click “Next”.

http://192.168.1.1 - Thomson TG<!-- #echo var="_PROD_NUMB...

Control de Acceso

Introduzca su nombre de usuario y contraseña para prevenir accesos no autorizados al interfaz de gestión de su equipo.

Nombre de Usuario: 1234

Introduzca su nombre de usuario

Contraseña:

Introduzca su contraseña

Confirme su contraseña:

Vuelva a introducir su contraseña.

< Back Next > Cancel

Listo Internet

- Now click "Start" and the configuration of the router will start.

http://192.168.1.1 - Thomson TG<!-- #echo var="_PROD_NUMB...

Start configuration ?

Review settings before configuring the Thomson Gateway.

The Wizard has enough information to configure your SpeedTouch™. If you want to review or change settings, click Back. Click Start to start configuration.

Settings:

Device:

Name	TG585 v7
Serial #	0747SF022

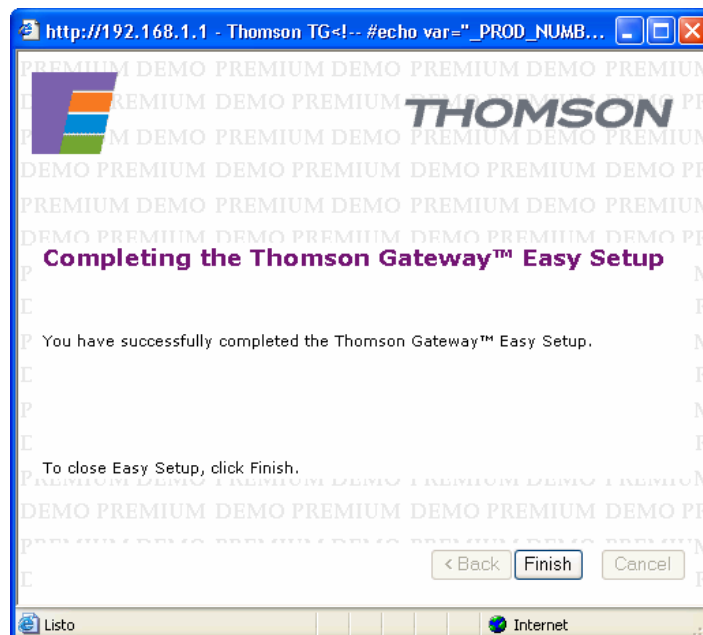
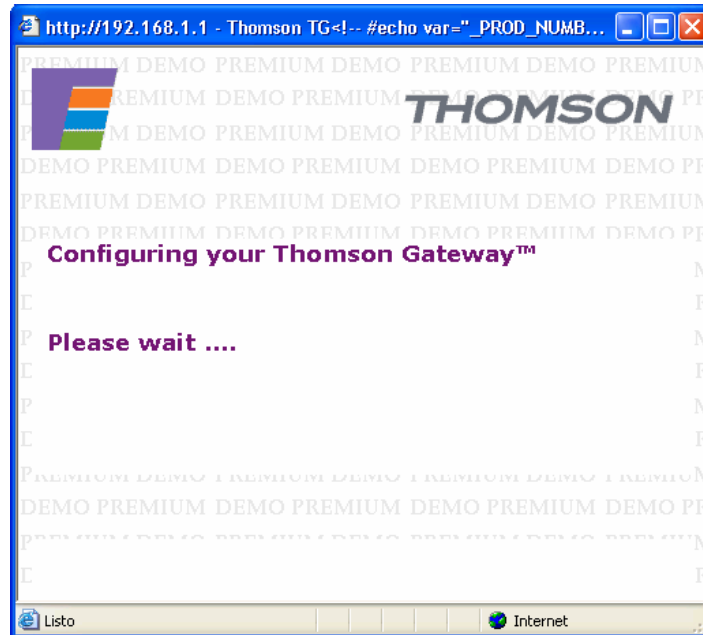
Device Configuration:

Region	España
Provider	Telefónica
Service	Múltipuesto Dinámico
Description	Router PPPoE

< Back Start > Cancel

Listo Internet

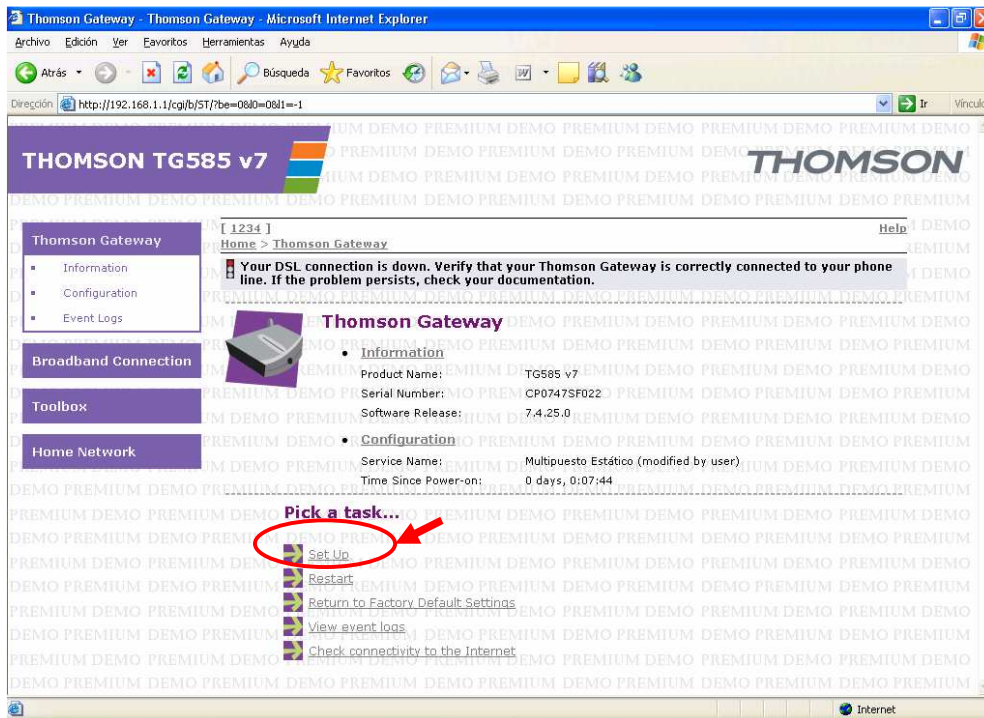
- After several seconds the router configuration process ends. Then, click "Finish".



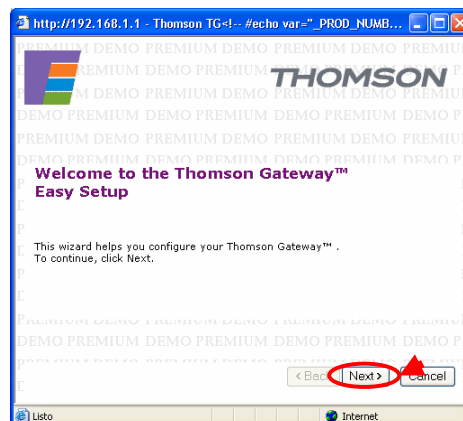
Configuration “multipuesto estática”

In order to setup the “multipuesto estática” configuration, you need to follow the next steps:

- Click on “Thomson Gateway ” and then click on “Set up”



- Now the “Thomson Gateway Easy Setup” wizard starts. Then click on “Next”.



- Now select the service “Multipuesto Estático”:

The screenshot shows a web browser window with the address bar displaying "http://192.168.1.1 - Thomson TG<!-- #echo var='_PROD_NUMB...". The page title is "PREMIUM DEMO". The main heading is "Service Selection". Below the heading, it says "You need to select the service you want to connect to." and "Select the service of your DSL account. Click Next to continue." There is a dropdown menu labeled "Select a service:" with three options: "Multipuesto Dinámico", "Monopuesto Dinámico", and "Multipuesto Estático". The "Multipuesto Estático" option is selected. Below the dropdown, there is a section titled "Description of selected service:" containing a table with the following information:

DESCRIPTION	Router IPoA
REGION	España
PROVIDER	Telefónica

At the bottom of the page, there are three buttons: "< Back", "Next >", and "Cancel". The status bar at the bottom shows "Listo" and "Internet".

- Now introduce the static IP address provided by Telefónica:

The screenshot shows the same web browser window, but the page title is "Configuración Multipuesto Estático". The main heading is "Configuración Multipuesto Estático". Below the heading, it says "Especifique la configuración de su servicio Multipuesto Estático." and "Toda la información le ha sido suministrada por Telefónica". There is a text input field labeled "Dirección IP Pública" with the value "85.74.32.16". Below the input field, it says "Introduzca su dirección IP pública." At the bottom of the page, there are three buttons: "< Back", "Next >", and "Cancel". The status bar at the bottom shows "Listo" and "Internet".

- On next screen you need to introduce user name (1234) and password (1234) for accessing to the router. Then, click “Next”.

The screenshot shows a web browser window with the address bar displaying 'http://192.168.1.1 - Thomson TG<!-- #echo var="_PROD_NUMB...'. The page title is 'PREMIUM DEMO PREMIUM DEMO PREMIUM DEMO PREMIUM'. The main heading is 'Control de Acceso'. Below it, a message reads: 'Introduzca su nombre de usuario y contraseña para prevenir accesos no autorizados al interfaz de gestión de su equipo.' There are three input fields: 'Nombre de Usuario' with the value '1234', 'Contraseña' with four dots, and 'Confirme su contraseña' with four dots. Below the fields are three buttons: '< Back', 'Next >', and 'Cancel'. The status bar at the bottom shows 'Listo' and 'Internet'.

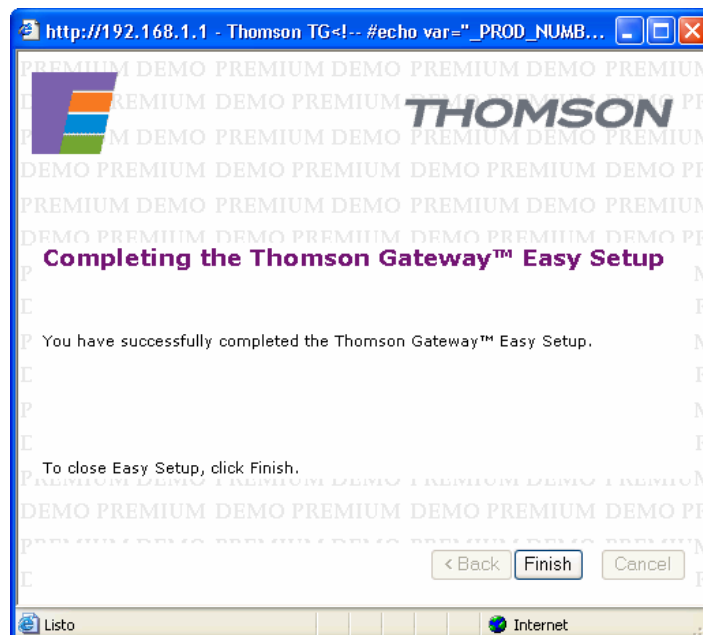
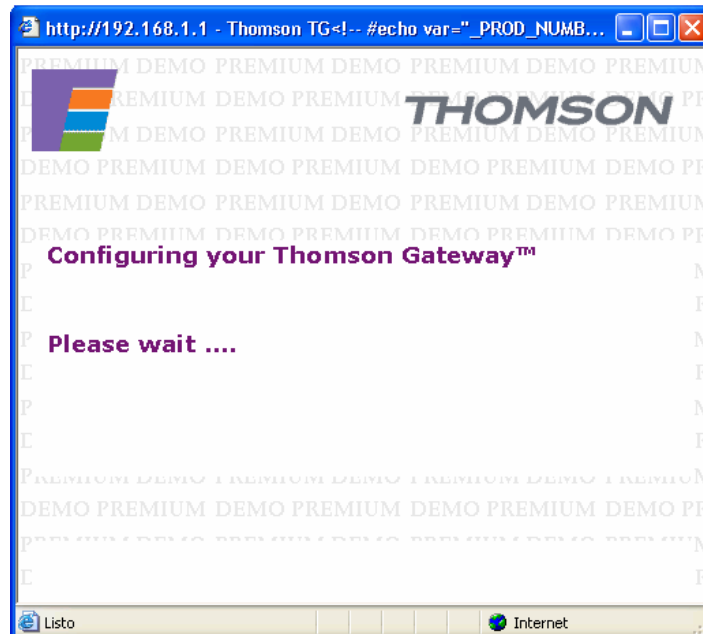
- Now click “Start” and the configuration of the router will start:

The screenshot shows a web browser window with the address bar displaying 'http://192.168.1.1 - Thomson TG<!-- #echo var="_PROD_NUMB...'. The page title is 'PREMIUM DEMO PREMIUM DEMO PREMIUM DEMO PREMIUM'. The main heading is 'Start configuration ?'. Below it, a message reads: 'Review settings before configuring the Thomson Gateway.' Another message reads: 'The Wizard has enough information to configure your SpeedTouch™. If you want to review or change settings, click Back. Click Start to start configuration.' There is a 'Settings:' section with a scrollable list box containing the following information:

Device:	
Name	TG585 v7
Serial #	0747SF022
Device Configuration:	
Region	España
Provider	Telefónica
Service	Multipuesto Estático
Description	Router IPoA

Below the list box are three buttons: '< Back', 'Start >', and 'Cancel'. The status bar at the bottom shows 'Listo' and 'Internet'.

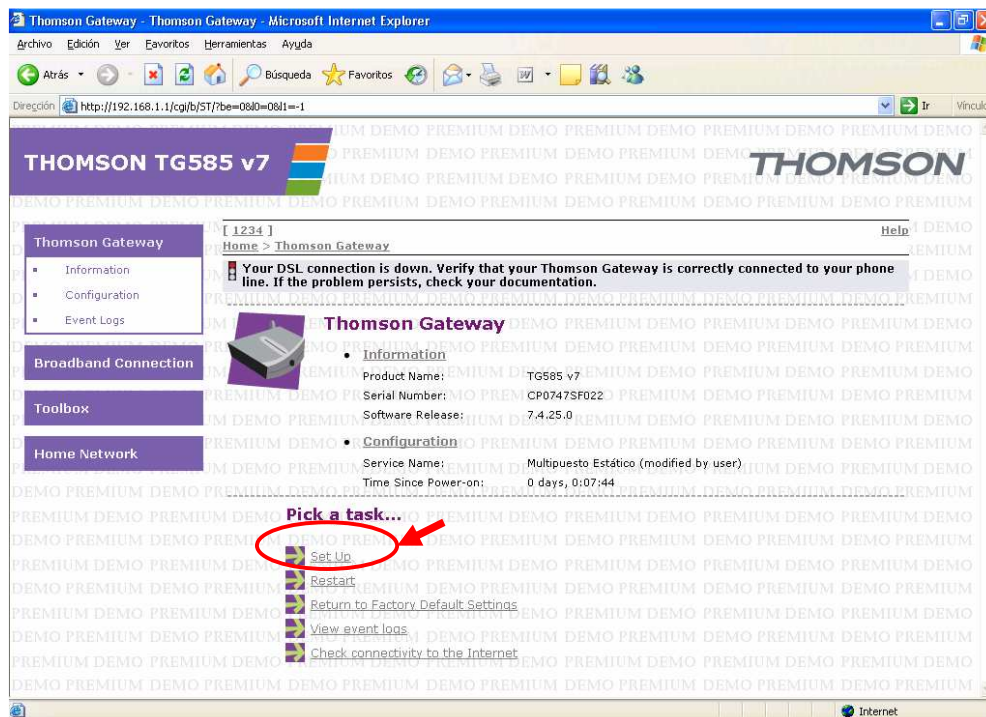
- After several seconds the router configuration process ends. Then, click “Finish”:



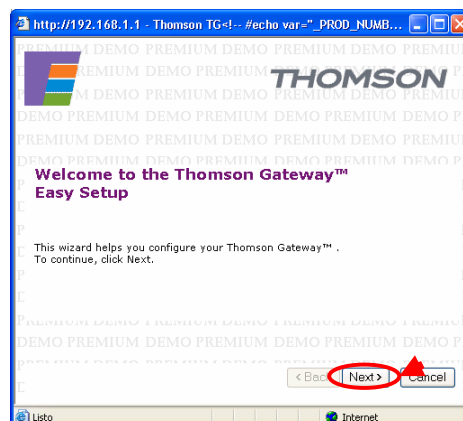
Configuration “monopuesto estática”

In order to setup the “monopuesto estática” configuration, you need to follow the next steps:

- Click on “Thomson Gateway ” and then click on “Set up”



- Now the “Thomson Gateway Easy Setup” wizard starts. Then click on “Next”.



- Now select the service “Monopuesto Estático”:

http://192.168.1.1 - Thomson TG585iv7 #echo var="_PROD_NUMB..."

Service Selection
You need to select the service you want to connect to.
Select the service of your DSL account. Click Next to continue.

Select a service:

Monopuesto Dinámico
Multipuesto Estático
Monopuesto Estático

Description of selected service:

DESCRIPTION	Router IPoA
REGION	España
PROVIDER	Telefónica

< Back Next > Cancel

Listo Internet

- Now introduce the static IP address provided by Telefónica:

http://192.168.1.1 - Thomson TG585iv7 #echo var="_PROD_NUMB..."

Configuración Monopuesto Estático
Especifique la configuración de su servicio Monopuesto Estático.
Toda la información le ha sido suministrada por Telefónica

Dirección IP Pública:

Introduzca su dirección IP pública.

< Back Next > Cancel

Listo Internet

- On next screen you need to introduce user name (1234) and password (1234) for accessing to the router. Then, click “Next”.

http://192.168.1.1 - Thomson TG<!-- #echo var="_PROD_NUMB...

PREMIUM DEMO PREMIUM DEMO PREMIUM DEMO PREMIUM

Control de Acceso

Introduzca su nombre de usuario y contraseña para prevenir accesos no autorizados al interfaz de gestión de su equipo.

Nombre de Usuario: 1234
Introduzca su nombre de usuario

Contraseña:
Introduzca su contraseña

Confirme su contraseña:
Vuelva a introducir su contraseña.

< Back Next > Cancel

Listo Internet

- Now click “Start” and the configuration of the router will start:

http://192.168.1.1 - Thomson TG<!-- #echo var="_PROD_NUMB...

PREMIUM DEMO PREMIUM DEMO PREMIUM DEMO PREMIUM

Start configuration ?

Review settings before configuring the Thomson Gateway.

The Wizard has enough information to configure your SpeedTouch™. If you want to review or change settings, click Back. Click Start to start configuration.

Settings:

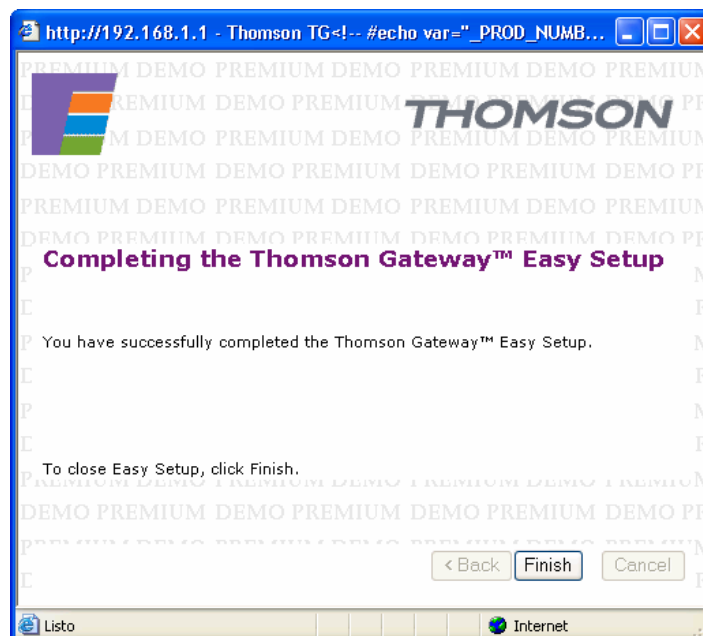
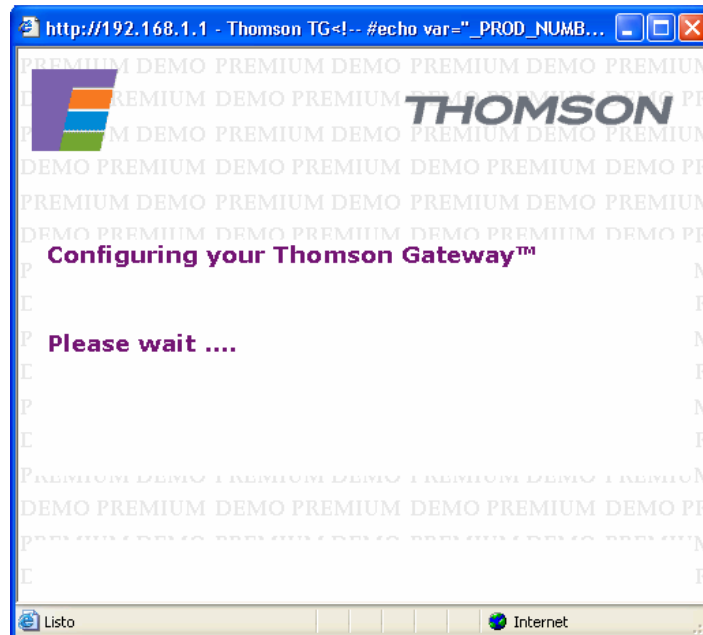
Device:
Name TG585 v7
Serial # 0747SF022

Device Configuration:
Region España
Provider Telefónica
Service Monopuesto Estático
Description Router IPoA

< Back Start > Cancel

Listo Internet

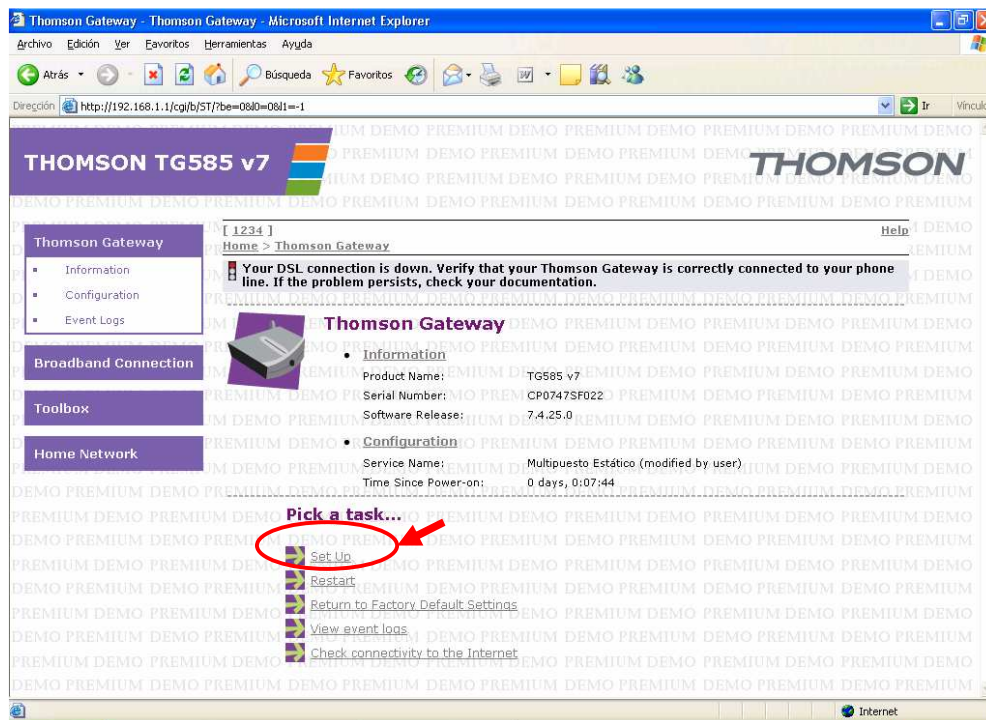
- After several seconds the router configuration process ends. Then, click “Finish”:



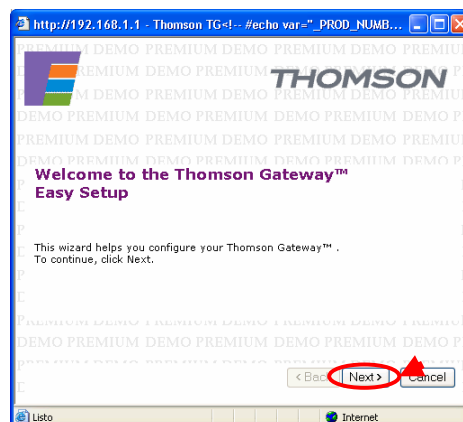
Configuration “monopuesto dinámica”

In order to setup the “monopuesto dinámico” configuration, you need to follow the next steps:

- Click on “Thomson Gateway ” and then click on “Set up”



- Now the “Thomson Gateway Easy Setup” wizard starts. Then click on “Next”.



- Now select the service “Monopuesto Dinámico”:

http://192.168.1.1 - Thomson TG585iv7 #echo var=_PROD_NUMB...

PREMIUM DEMO PREMIUM DEMO PREMIUM DEMO PREMIUM DEMO

Service Selection

You need to select the service you want to connect to.

Select the service of your DSL account. Click Next to continue.

Select a service:

Monopuesto Dinámico
Multipuesto Estático
Monopuesto Estático

Description of selected service:

DESCRIPTION	Bridge PPPoE
REGION	España
PROVIDER	Telefónica

< Back Next > Cancel

Listo Internet

- On next screen you need to introduce user name (1234) and password (1234) for accessing to the router. Then, click “Next”.

http://192.168.1.1 - Thomson TG585iv7 #echo var=_PROD_NUMB...

PREMIUM DEMO PREMIUM DEMO PREMIUM DEMO PREMIUM DEMO

Control de Acceso

Introduzca su nombre de usuario y contraseña para prevenir accesos no autorizados al interfaz de gestión de su equipo.

Nombre de Usuario 1234
Introduzca su nombre de usuario

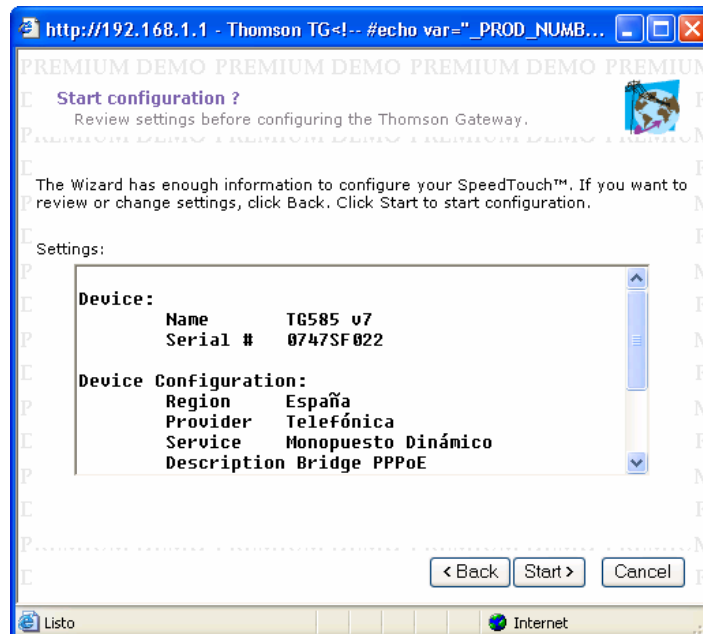
Contraseña
Introduzca su contraseña

Confirme su contraseña
Vuelva a introducir su contraseña.

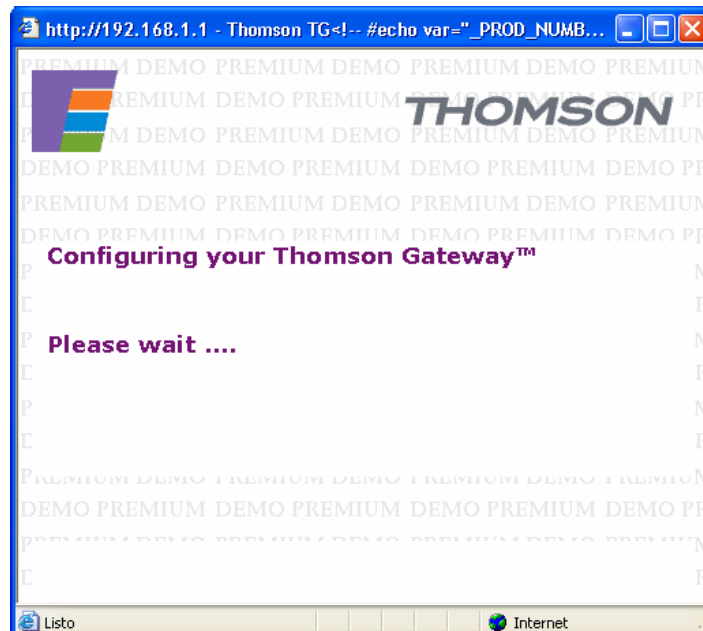
< Back Next > Cancel

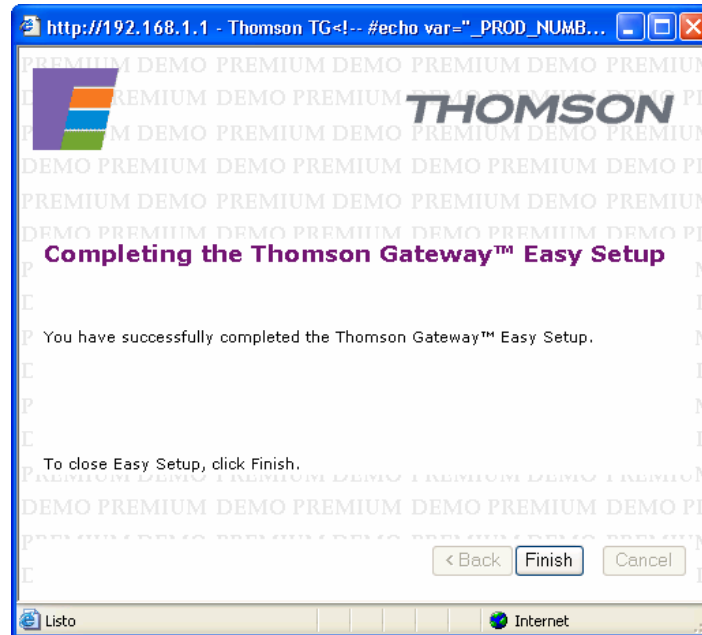
Listo Internet

- Now click “Start” and the configuration of the router will start:



- After several seconds the router configuration process ends. Then, click “Finish:



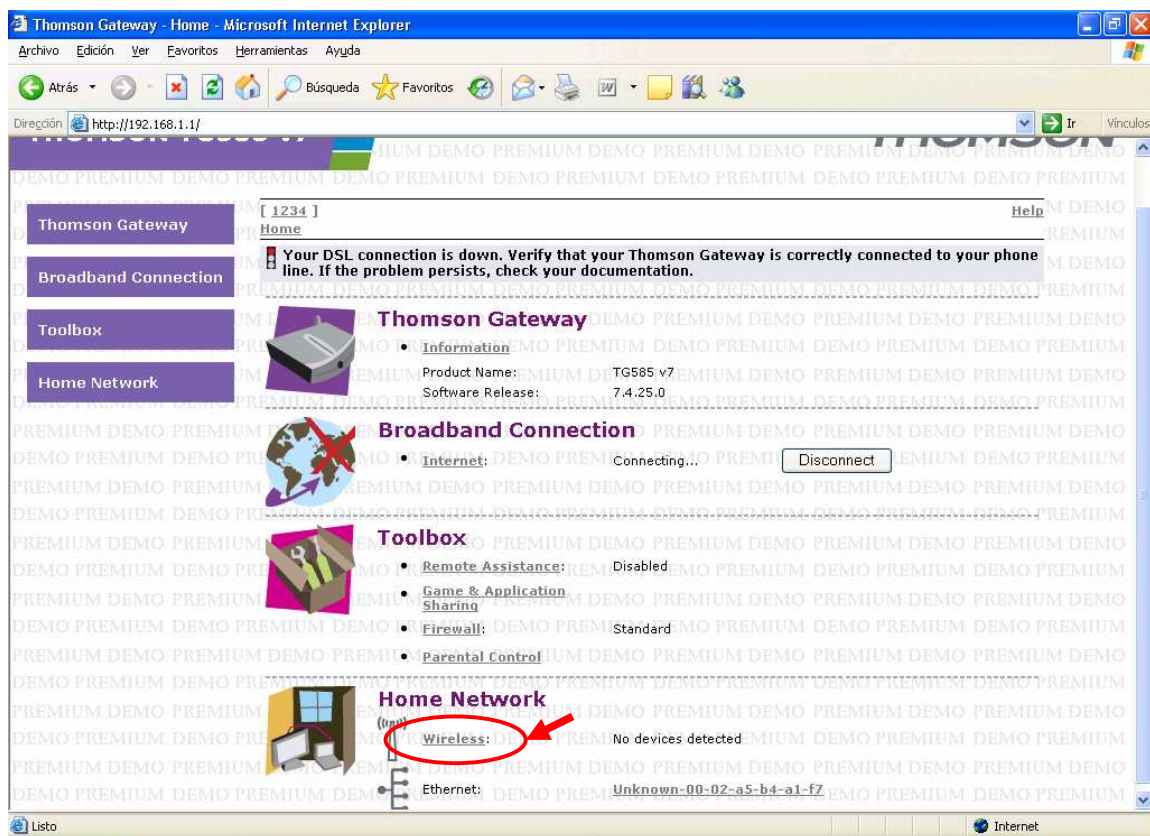


Wireless configuration

Enabling the wireless interface

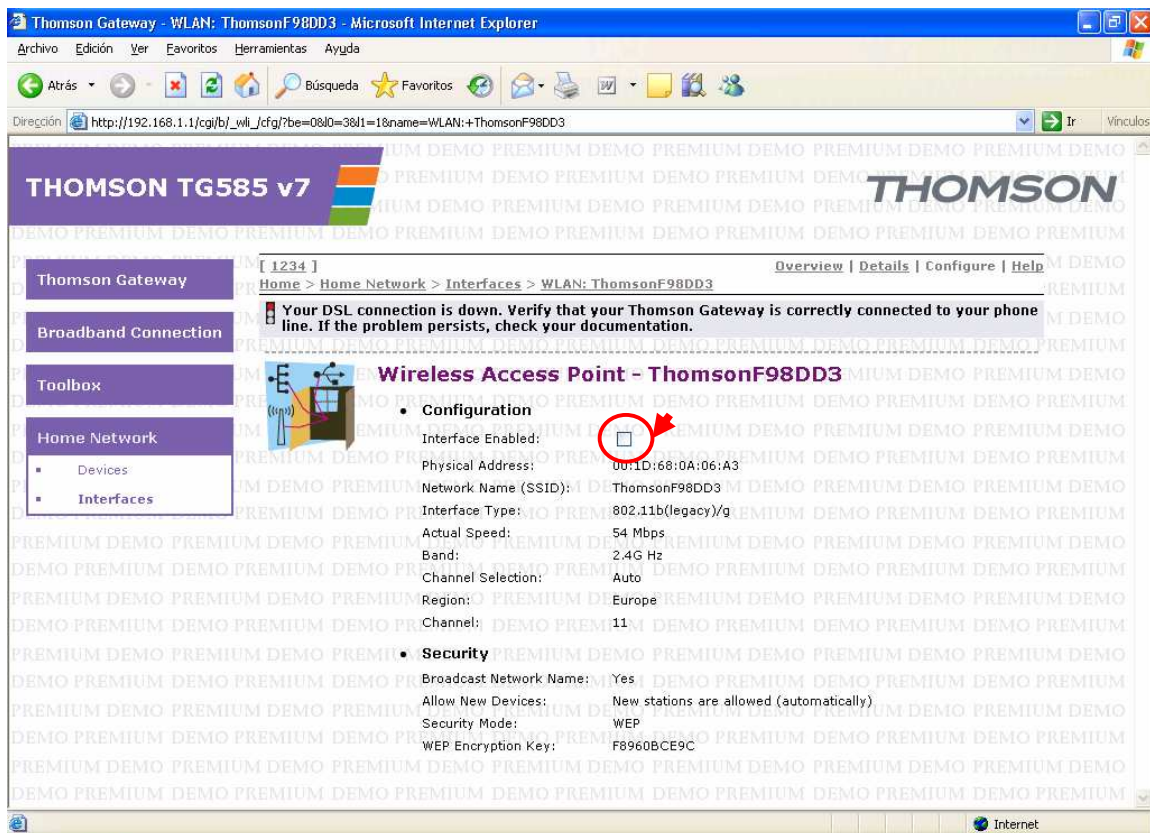
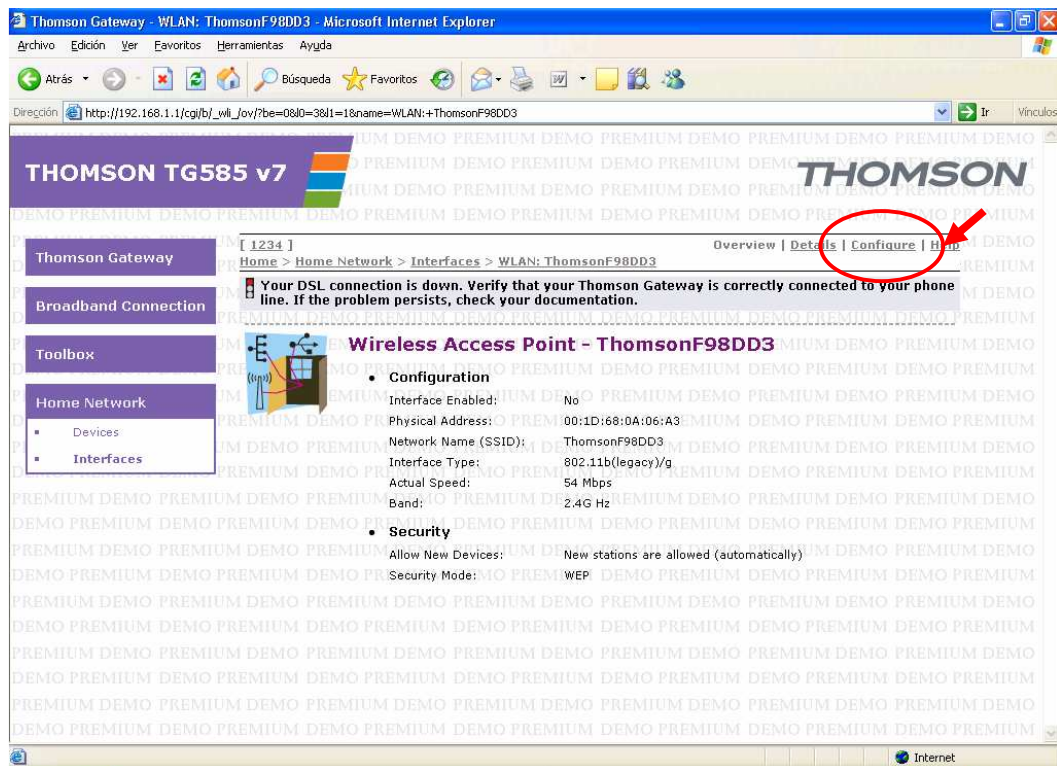
For enabling the wireless interface you need to follow the next steps:

- At the start page, at “Home Network” section, click on “Wireless”:



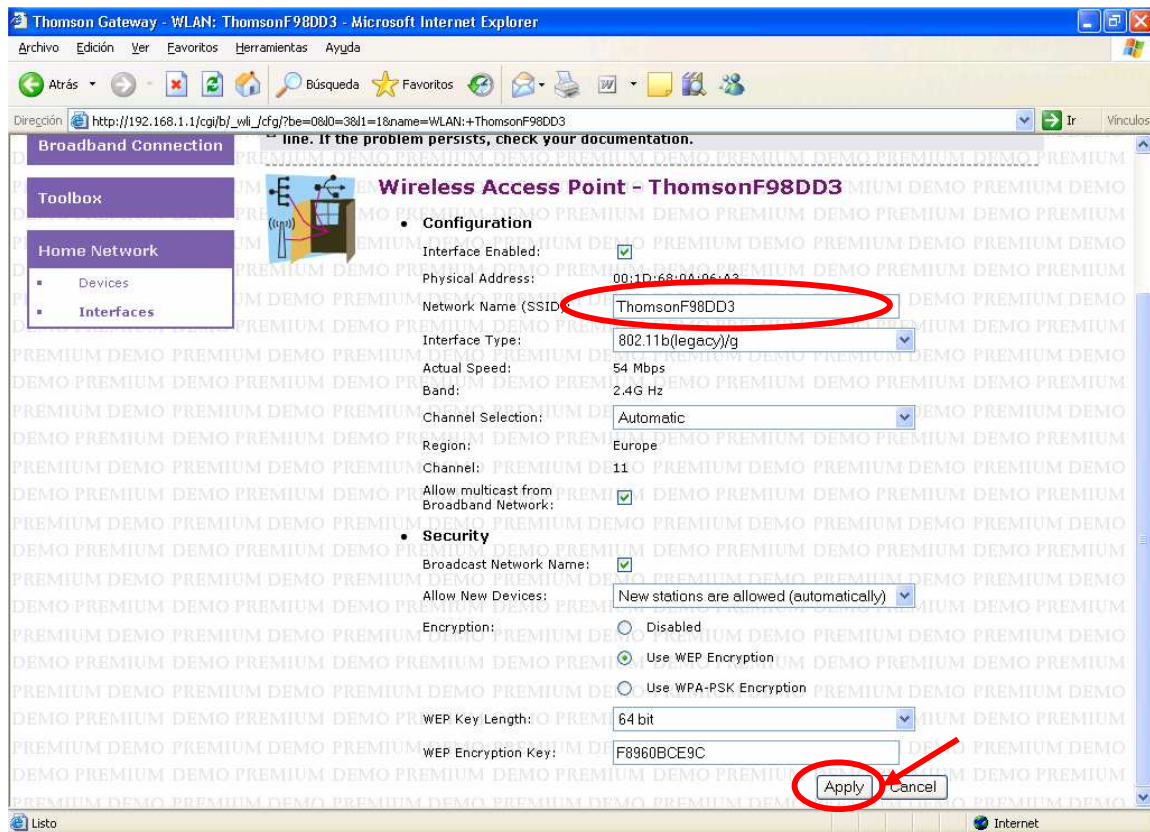
- Now click on “Configure”. Then, on next screen please select the “Interface Enabled” checkbox (perhaps it is already enabled):

TG585iv7 Basic Configurations



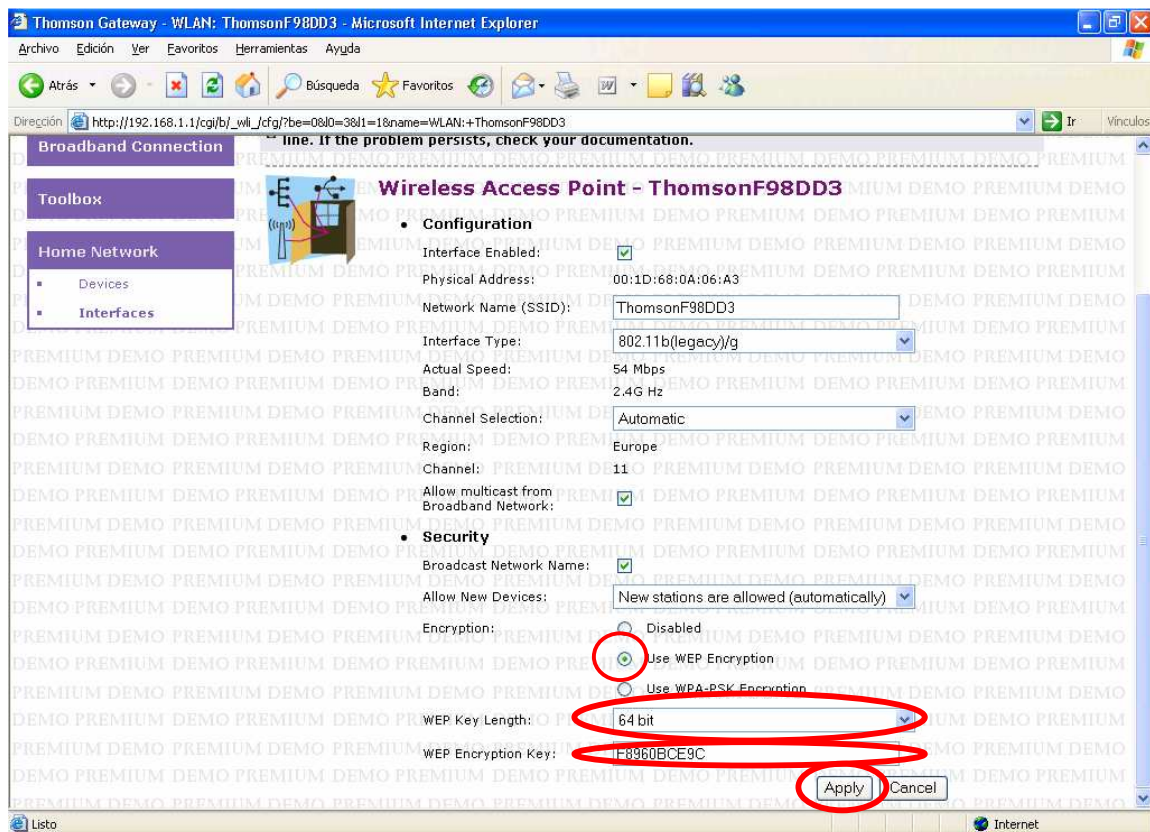
SSID Modification

- Before doing this, please check that the wireless interface is already enabled by following the previous chapter (*Wireless interface activation*). Once you have done it, the following window will appear. Now introduce the new SSID in the “Network Name (SSID)” field and click “Apply”.



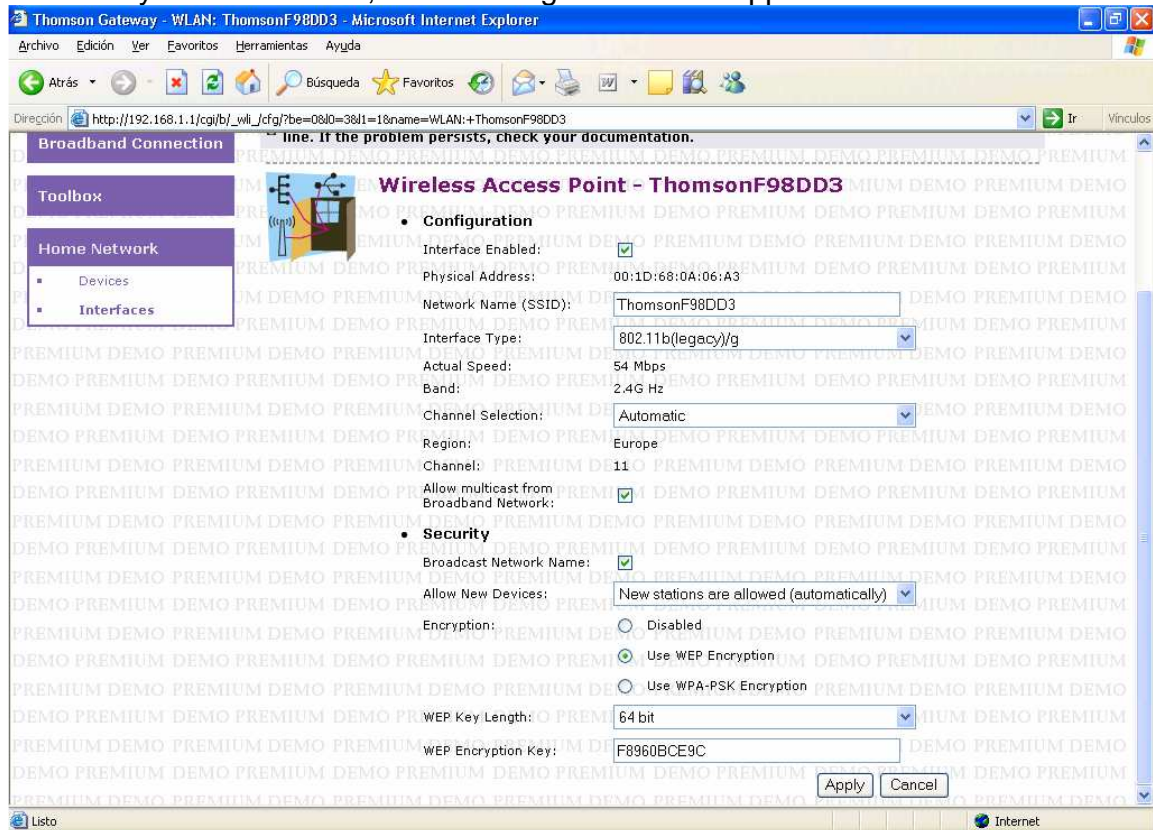
WEP encryption key modification

- Before doing this, please check that the wireless interface is already enabled by following the previous chapter (*Wireless interface activation*). Once you have done it, the following window will appear. Now select “Use WEP Encryption” and choose the “WEP Key Length” (64 ó 128 bits) in this field. Then, introduce the new WEP key in “WEP Encryption Key” field and click “Apply” for saving the changes.



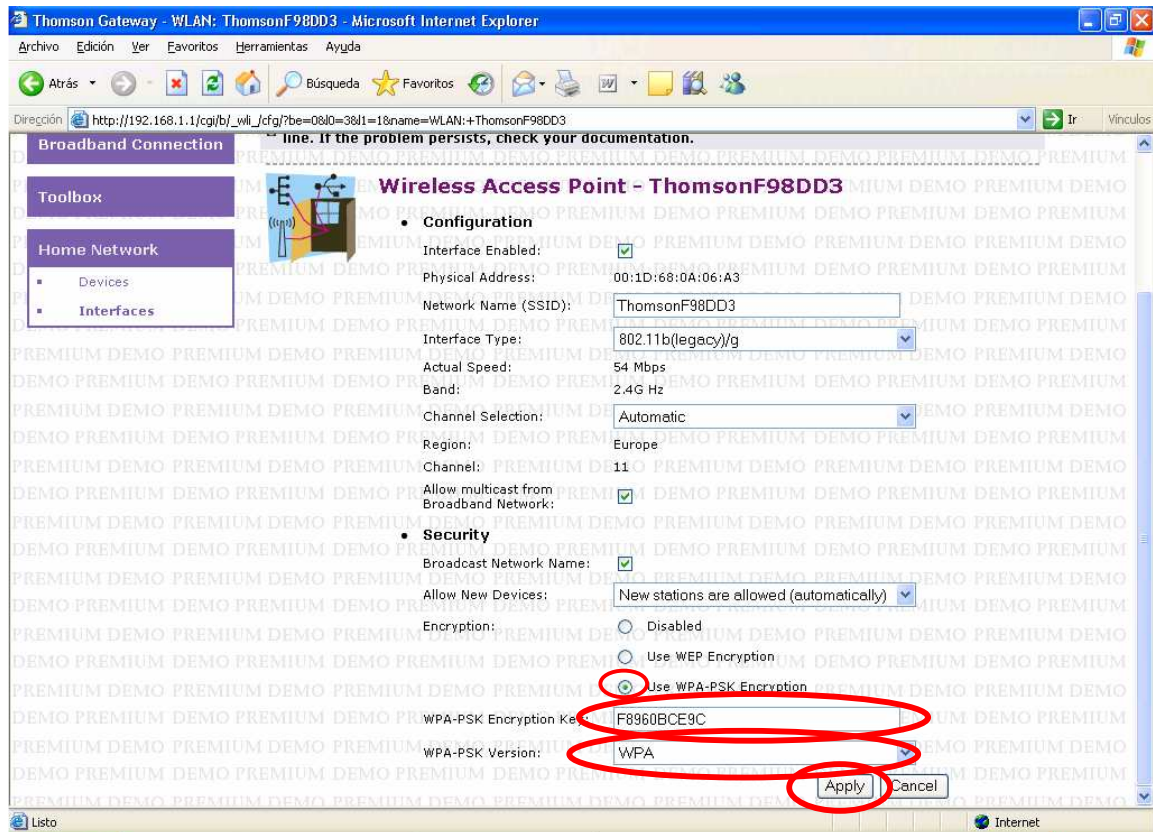
WPA-PSK encryption key modification

- Before doing this, please check that the wireless interface is already enabled by following the previous chapter (*Wireless interface activation*). Once you have done it, the following window will appear.



- Now select "Use WPA-PSK Encryption". Then, choose the WPA-PSK version (WPA, WPA2 or WPA+WPA2).
- Finally, introduce the new WPA-PSK key in "WPA-PSK Encryption Key" field and click "Apply" for saving the changes done.

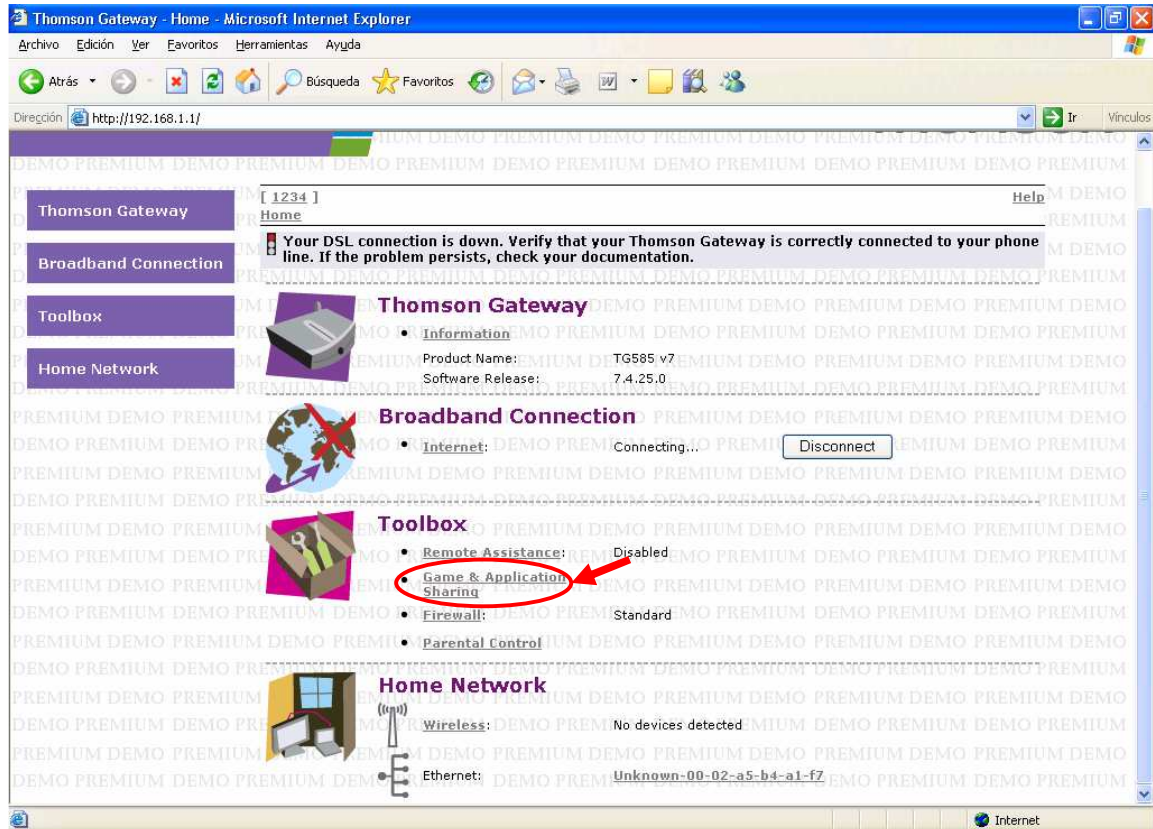
TG585iv7 Basic Configurations



Ports configuration

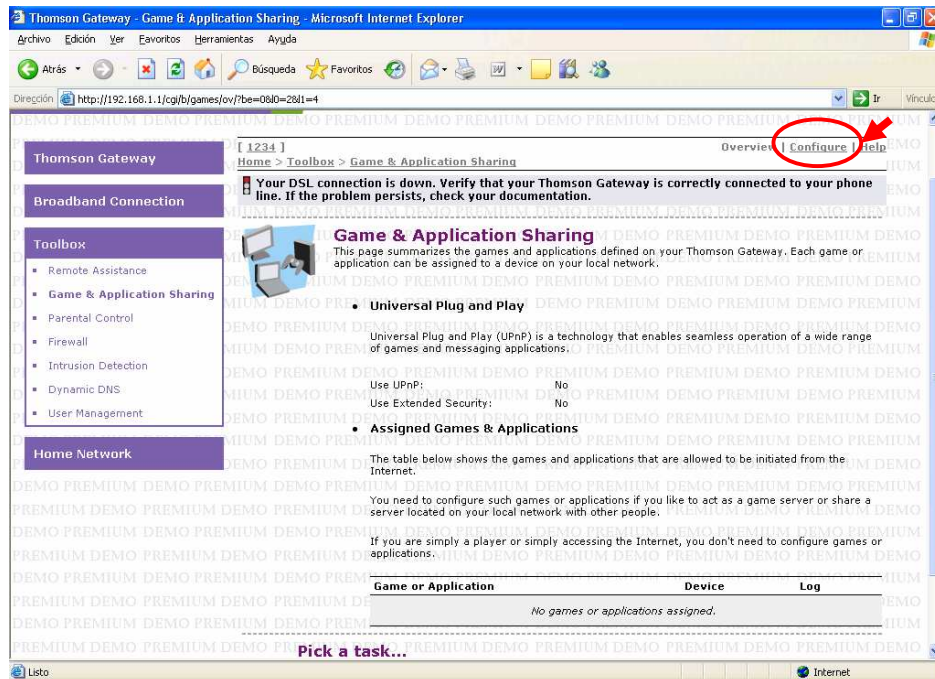
For modifying ports configuration, you need follow the next steps:

- At “Toolbox” section, click on “Game & Application Sharing”

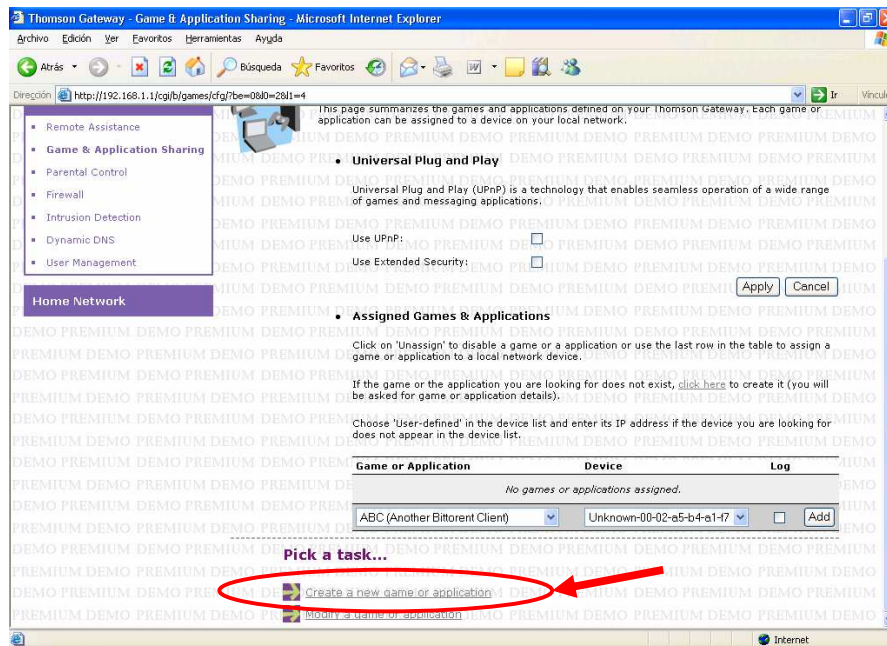


TG585iv7 Basic Configurations

- Now click “Configure”:

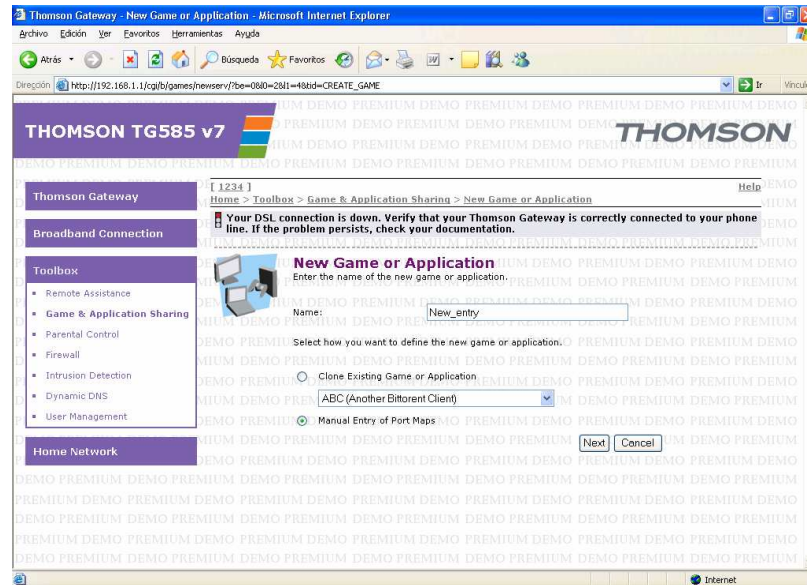


- If the application you want to map doesn't appear on the menu, you will need to proceed as follows:
 - Click “Create a new game or application”

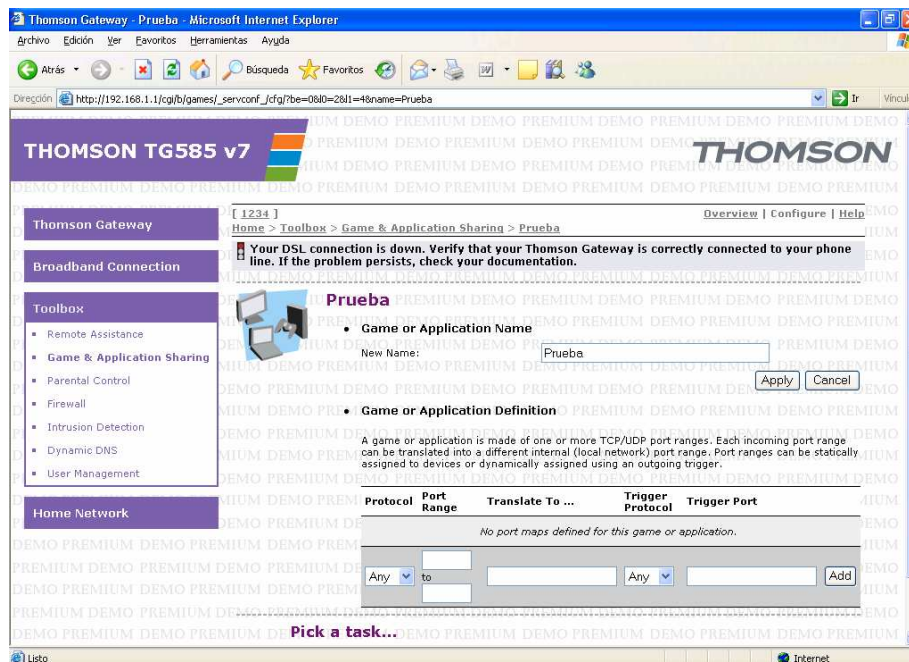


TG585iv7 Basic Configurations

- Introduce the name of the application you want to map into the “Name” field. Then, select “Manual Entry of Port Maps” and click “Next”:

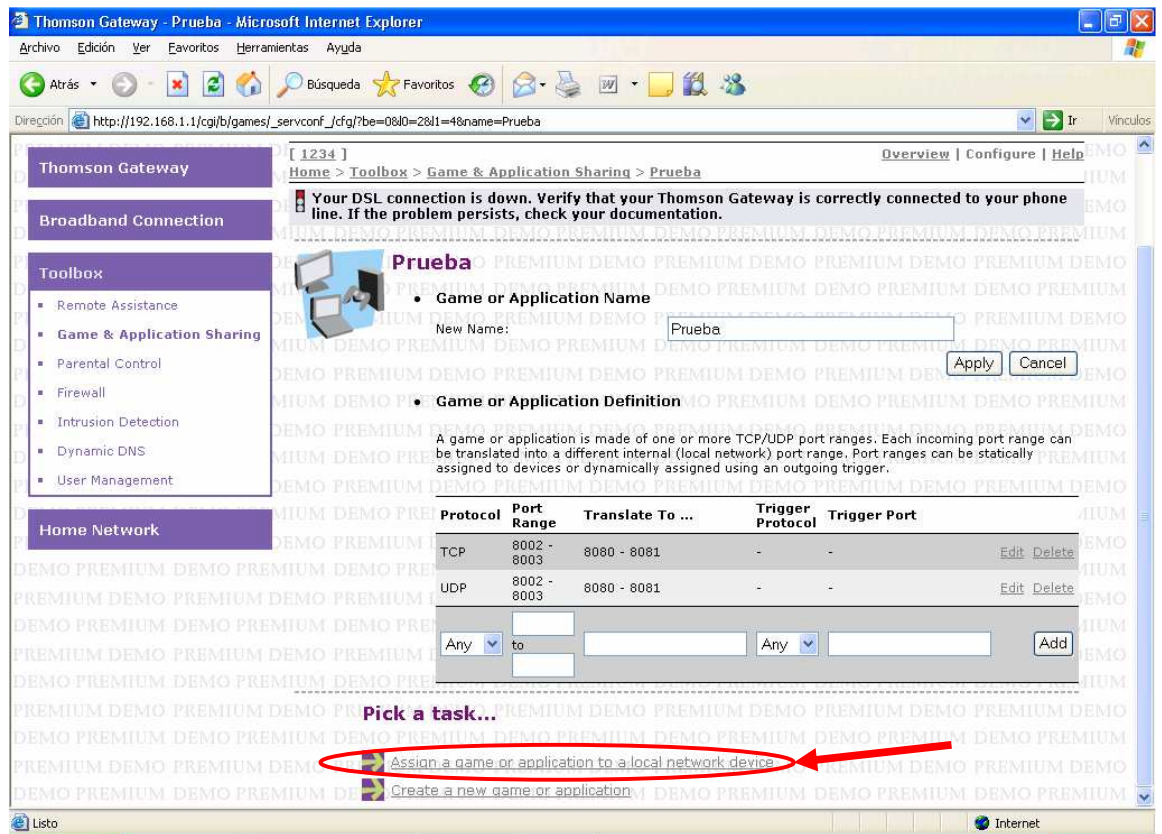


- Select the “Protocol”, then indicate port/port range you want to open (“Port Range”) and click “Add” (leave the rest of fields empty).

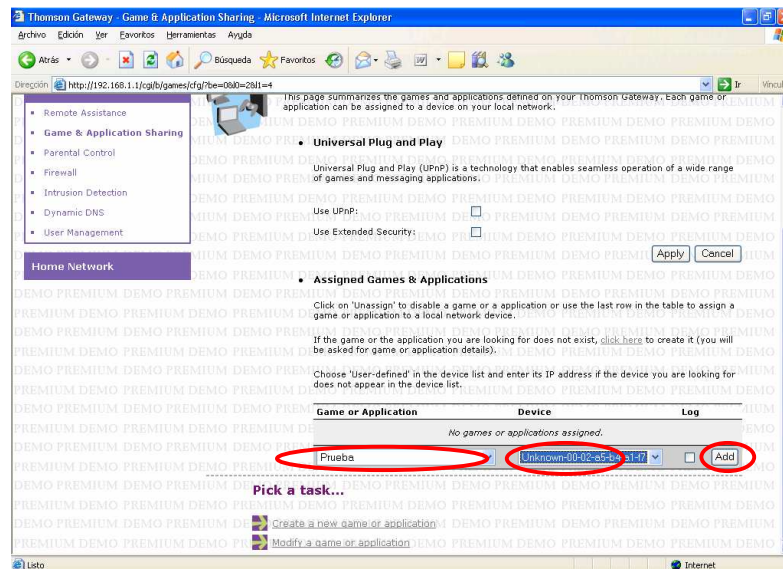


- Once all the previous steps have been done, the new application is created and available in the applications list. Then you will be able to

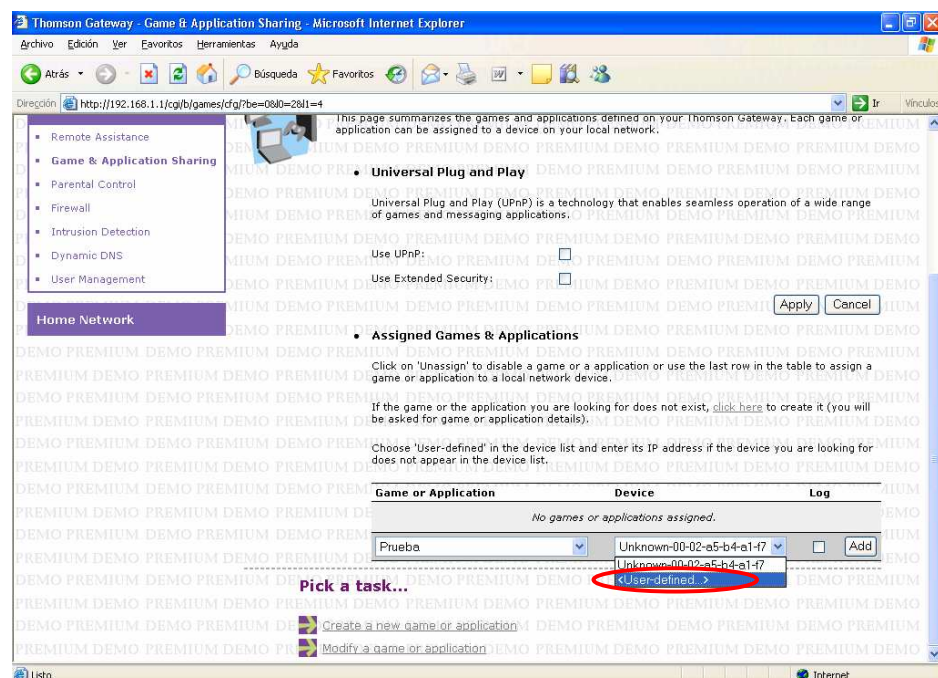
continue with the normal process about ports configuration clicking on “Assign a game or application to a local network device”:



- After it, select the desired application in the first menu, and in the second menú select the PC you want to open the ports for. Finally, click “Add”:

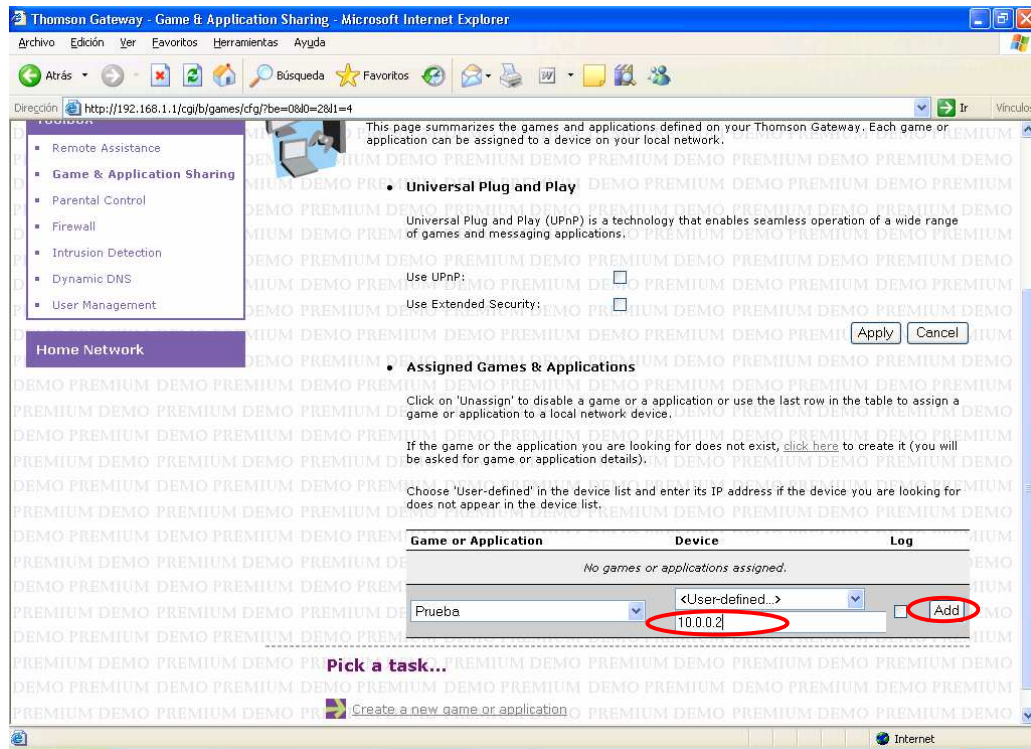


- In case the desired PC doesn't appear in the menu or you want to introduce the PC's IP address directly, select the "<User-defined>" option as showed below:



- Introduce the PC's IP address and click “Add”, as follows:

TG585iv7 Basic Configurations



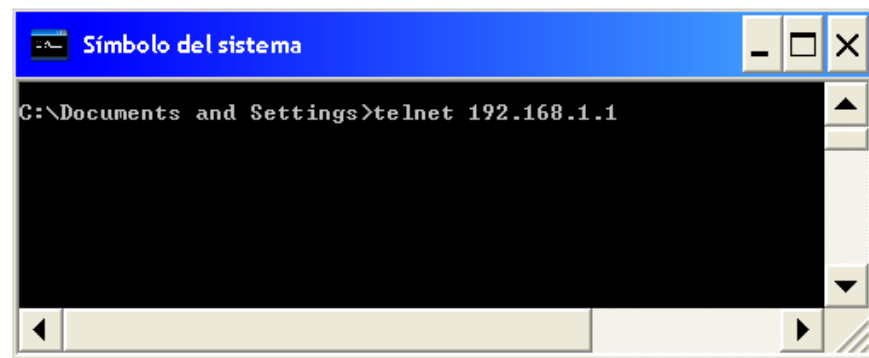
Firmware Upgrade

Warning: The firmware upgrade shouldn't be done unless it is strictly necessary. Please do not disconnect or switch off the gateway during the upgrading process because this could generate problems and make your gateway unusable.

Warning: To proceed with the firmware upgrade it is necessary to have installed and running a HTTP Server on your PC. The file containing the new firmware must be added to the root folder of the server.

Please follow the instructions below to proceed with the firmware upgrade:

1. Do a telnet from MS-DOS to the gateway IP address (default IP address is 192.168.1.1)



2. Introduce username and password (user configured by default is "1234" and password by default is "1234")
Username : 1234
*Password : *****
3. Enter the command "*software download url <URL_SERV-HTTP> filetype firmware filesize < FIRM-SIZE>*", where:

<URL_SERV-HTTP> is the HTTP URL where the file is to be found including remote filename.

< FIRM-SIZE> is the exact size (shown in the web server) of the file to be downloaded

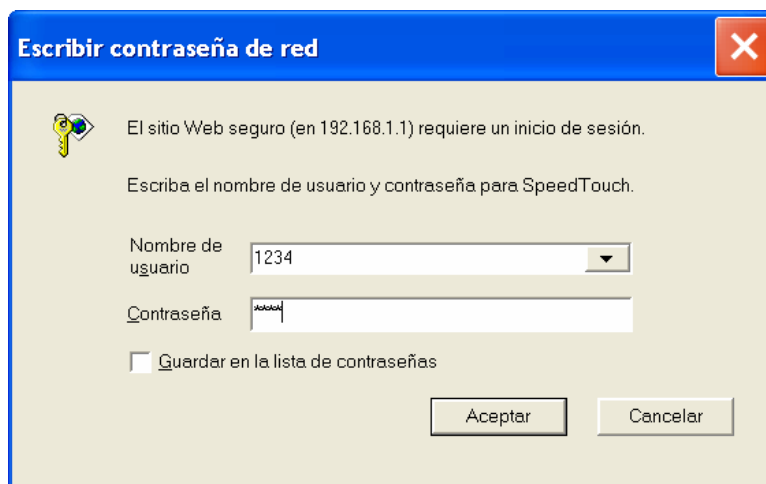
Example:

*{1234}=> software download url http://192.168.1.33:8080/CANTP07.432
filetype firmware filesize 2839295*

4. The transmission progress would be shown in the HTTP Server in your PC. Moreover, when the file would be completely downloaded, the following message will be shown in the command line interface of your gateway:
[CLI] Reboot to load new software
5. Once the previous message is shown ("*[CLI] Reboot to load new software*"), it is necessary to switch off and then on the gateway so it will load the new downloaded firmware.
6. Finally, it is possible to check that the firmware upgrade has been done correctly accessing to the graphical user interface of the gateway following the steps below:

First of all, it is necessary to access to the initial web page of the router. The user must access to the <http://192.168.1.1> page using any web explorer.

The user name and password will be needed. Fill in "1234" in the user field and "1234" for the password.

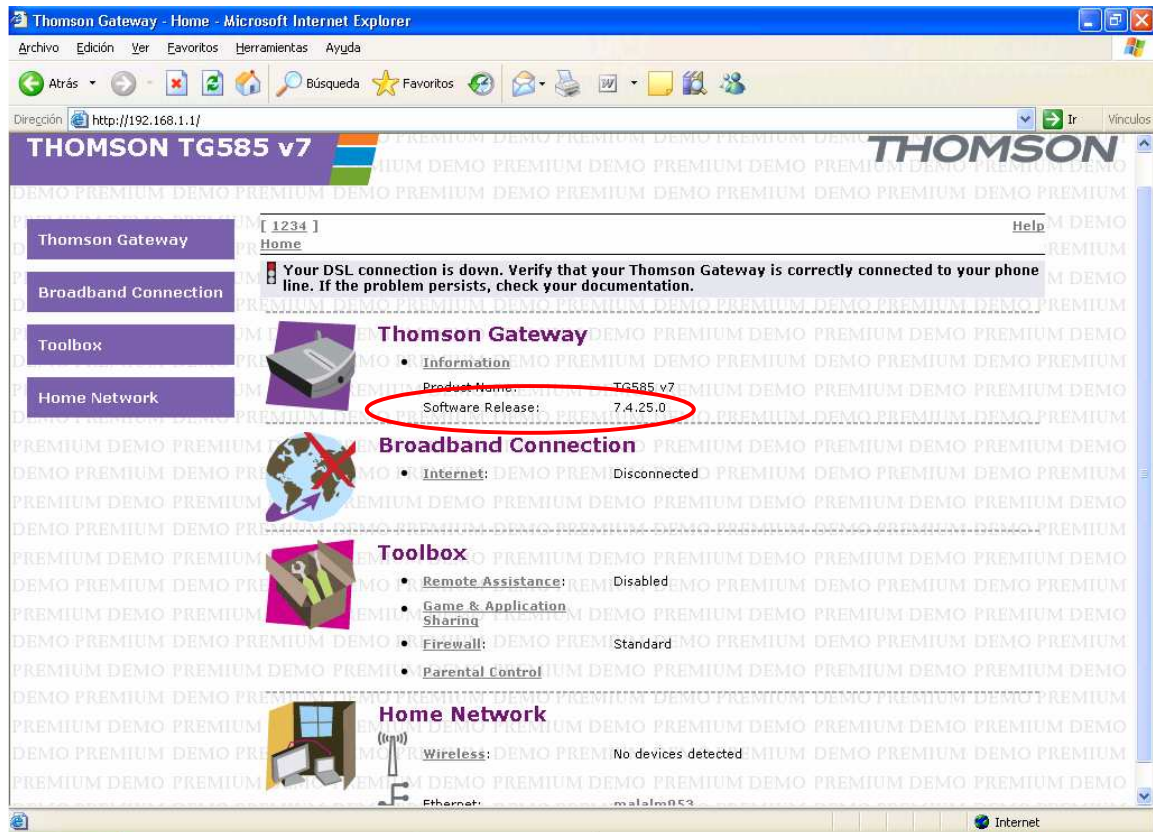


Once accepted, the Router welcome page will be shown.

In case the access to this web page is denied, please make sure your computer IP address belongs to the same sub network of the router (192.168.1.1 by default). Finally, you will be sure to know the router configuration, restoring default configuration.

Once the access to the router via web is established, following the steps described previously, you will be able to check the firmware version (Software release) as show on the following picture:

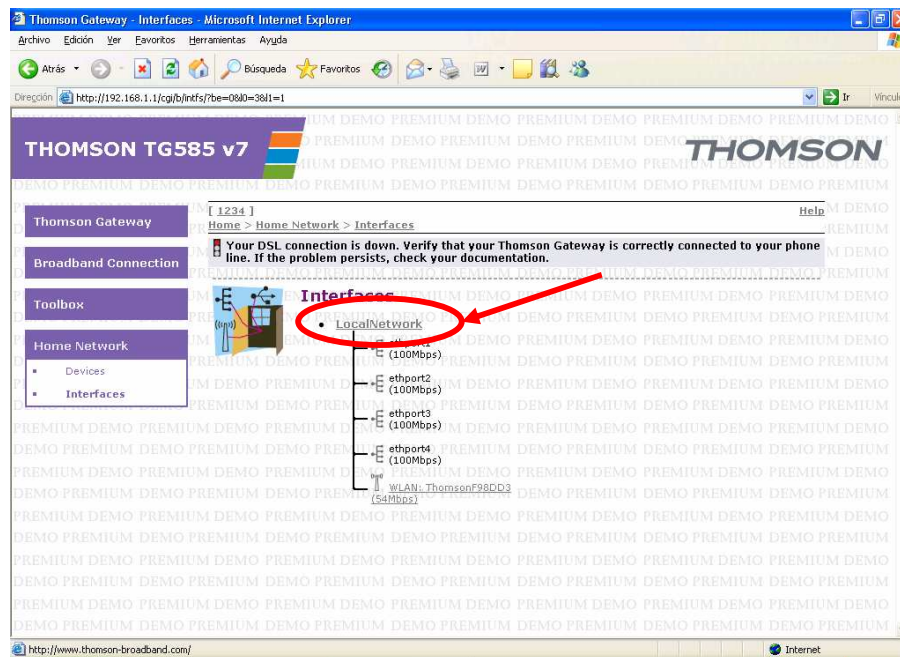
TG585iv7 Basic Configurations



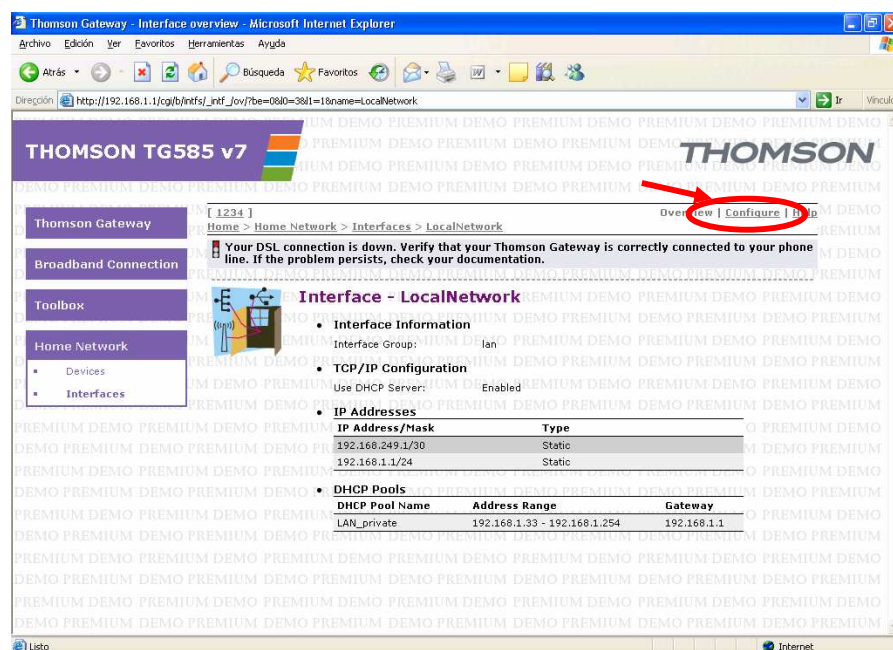
APENDIX

DHCP server configuration.

- In “Home Network” section, click “Interfaces” and then click “LocalNetwork”:

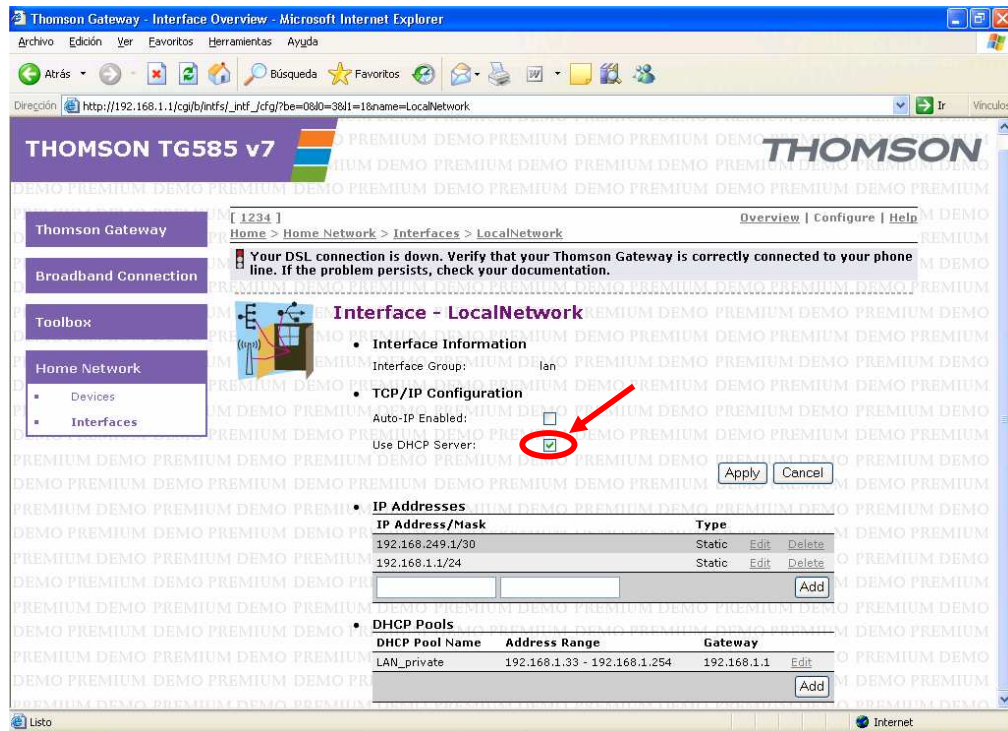


- Then, click “Configure” as follows:

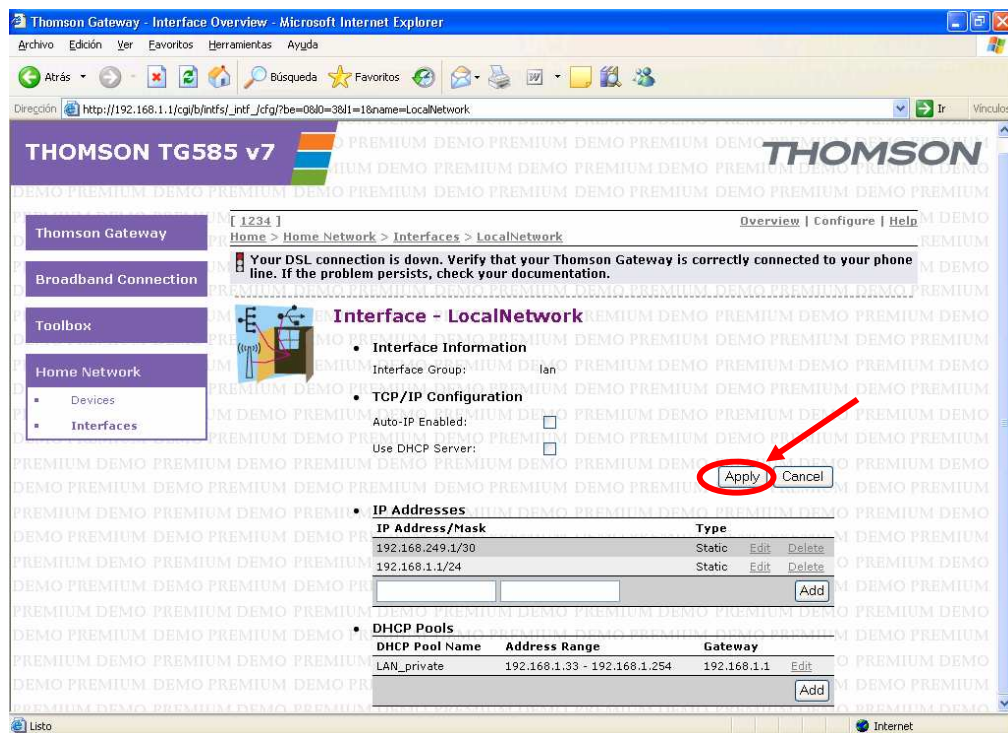


TG585iv7 Basic Configurations

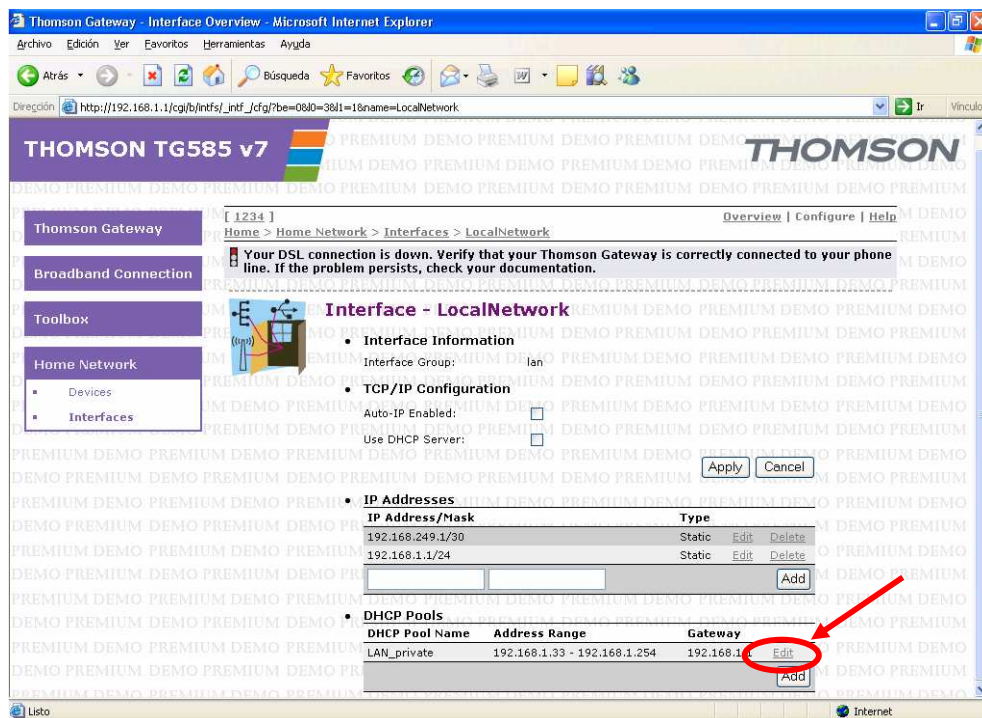
- After it, disable the “Use DHCP Server” checkbox by clicking on it:



- Then, click on “Apply”:



- Now, at the bottom of the page, click “Edit” from the “DHCP Pools” section:



- Now you need to introduce the following data:
 - The first IP address of the subnet for the DHCP pool range in “Start Address”.
 - The last IP address of the subnet for the DHCP pool range in “End Address”.
 - The subnet mask.
 - The primary DNS server and secondary DNS Server IP addresses. These IP addresses are provided by Telefónica
- Once you have introduced all the required information, click “Apply” for saving the changes:

TG585iv7 Basic Configurations

Thomson Gateway - DHCP Pool Configuration - Microsoft Internet Explorer

Archivo Edición Ver Favoritos Herramientas Ayuda

Dirección http://192.168.1.1/cgi/b/inf/fc/_pool_/cfg/?be=0&0=3&l=1&name=LAN_private&intf=LocalNetwork

Configure | Help

Home > Home Network > Interfaces > LAN_private

Your DSL connection is down. Verify that your Thomson Gateway is correctly connected to your phone line. If the problem persists, check your documentation.

DHCP Pool LAN_private

Configure parameters for your DHCP pool.

- Pool Configuration

Interface: LocalNetwork

Start Address: 192.168.1.33

End Address: 192.168.1.254

Subnet Mask: 255.255.255.0

Server: 192.168.1.1

Gateway: 192.168.1.1

Primary DNS: 80.58.61.250

Secondary DNS: 80.58.61.254

Primary WINS: 0.0.0

Secondary WINS: 0.0.0

Lease Time: 1 days 0 h 0 m 0 s

Always give same address to DHCP clients: ☐

Apply Cancel

- Now come back to the DHCP configuration menu by clicking “Configure”:

Thomson Gateway - Interface overview - Microsoft Internet Explorer

Archivo Edición Ver Favoritos Herramientas Ayuda

Dirección http://192.168.1.1/cgi/b/inf/fc/_intf_/ov/?be=0&0=3&l=1&name=LocalNetwork

Overview | **Configure** | Help

Home > Home Network > Interfaces > LocalNetwork

Your DSL connection is down. Verify that your Thomson Gateway is correctly connected to your phone line. If the problem persists, check your documentation.

Interface - LocalNetwork

- Interface Information
- TCP/IP Configuration
- IP Addresses
- DHCP Pools

Interface Group: lan

Use DHCP Server: Disabled

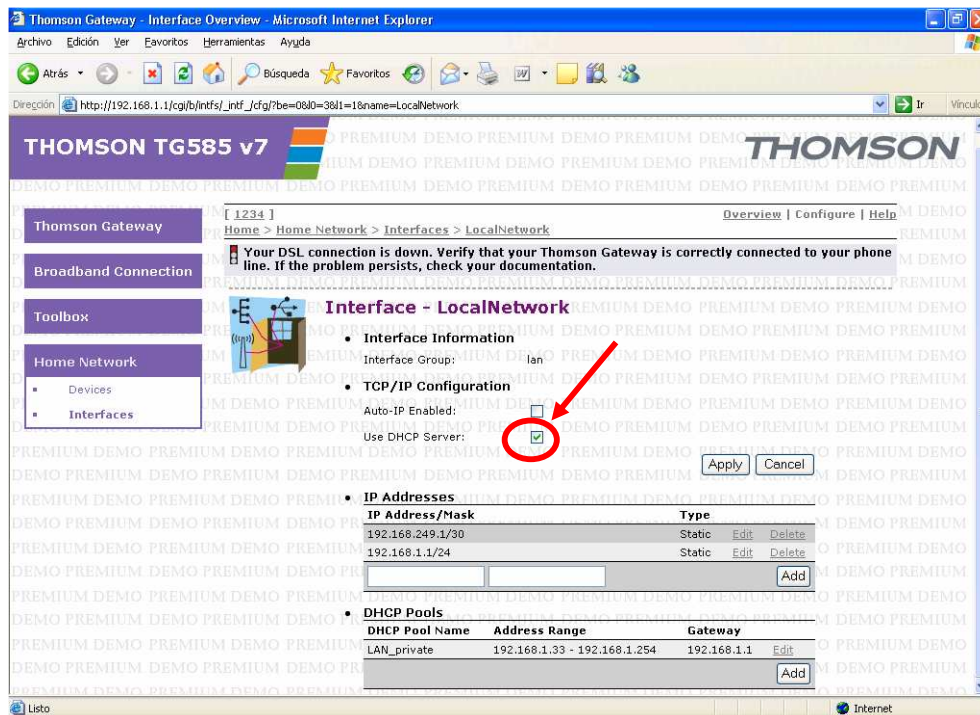
IP Address/Mask Type

192.168.249.1/30	Static
192.168.1.1/24	Static

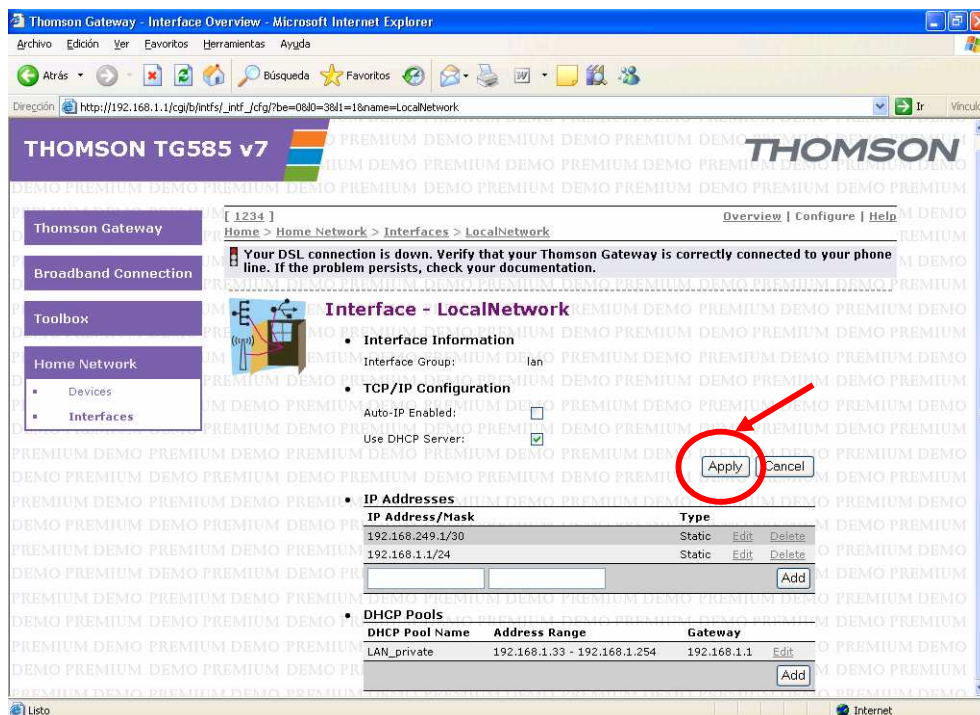
DHCP Pools

DHCP Pool Name	Address Range	Gateway
LAN_private	192.168.1.33 - 192.168.1.254	192.168.1.1

- And then, in order to activate the DHCP Server, select the “Use DHCP Server” checkbox by clicking on it:

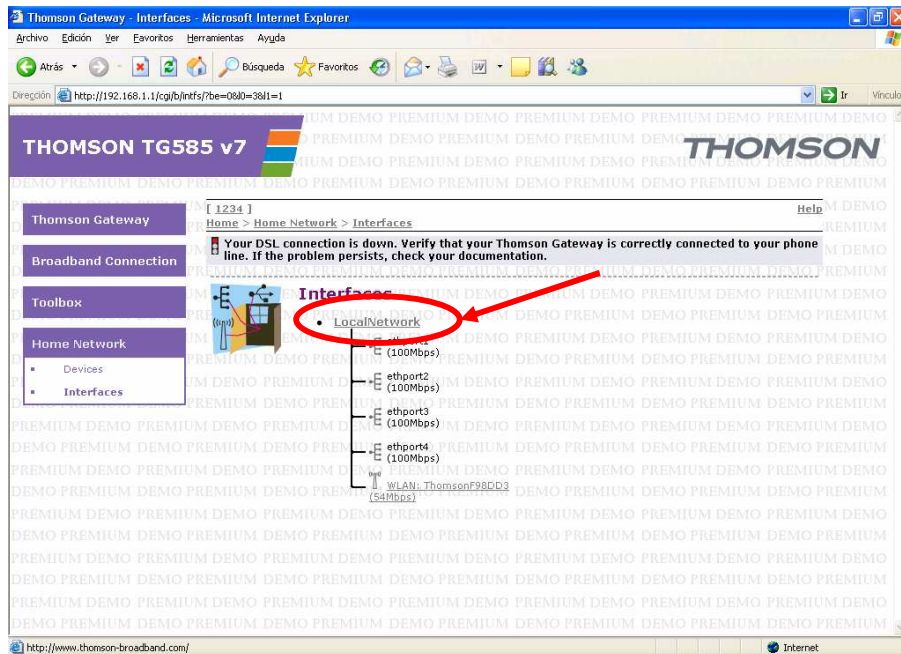


- Finally, save the new DHCP server configuration by clicking “Apply”:

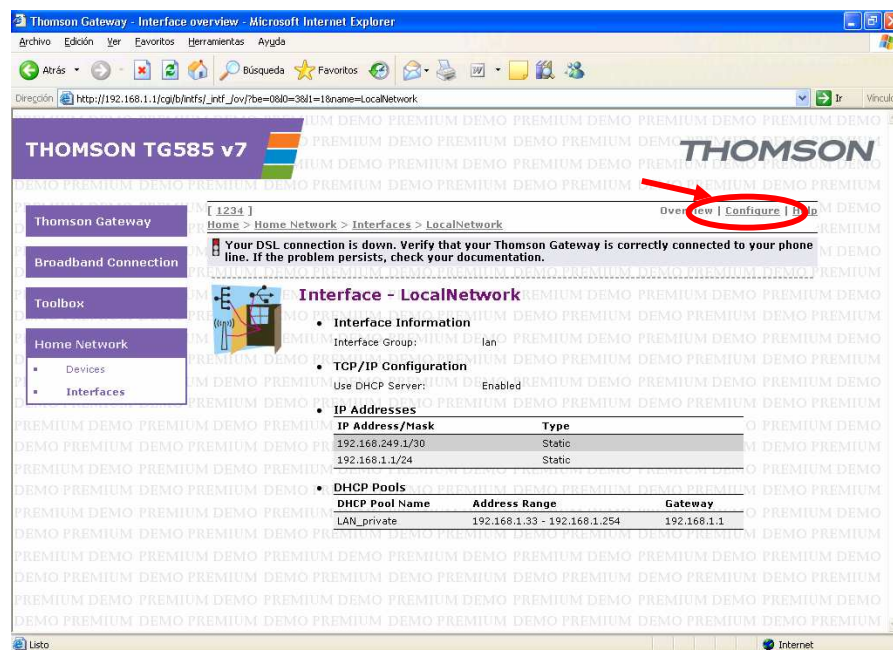


DHCP Server disabling

- For disabling the DHCP server, in “Home Network” section, click “Interfaces” and then click “LocalNetwork”:

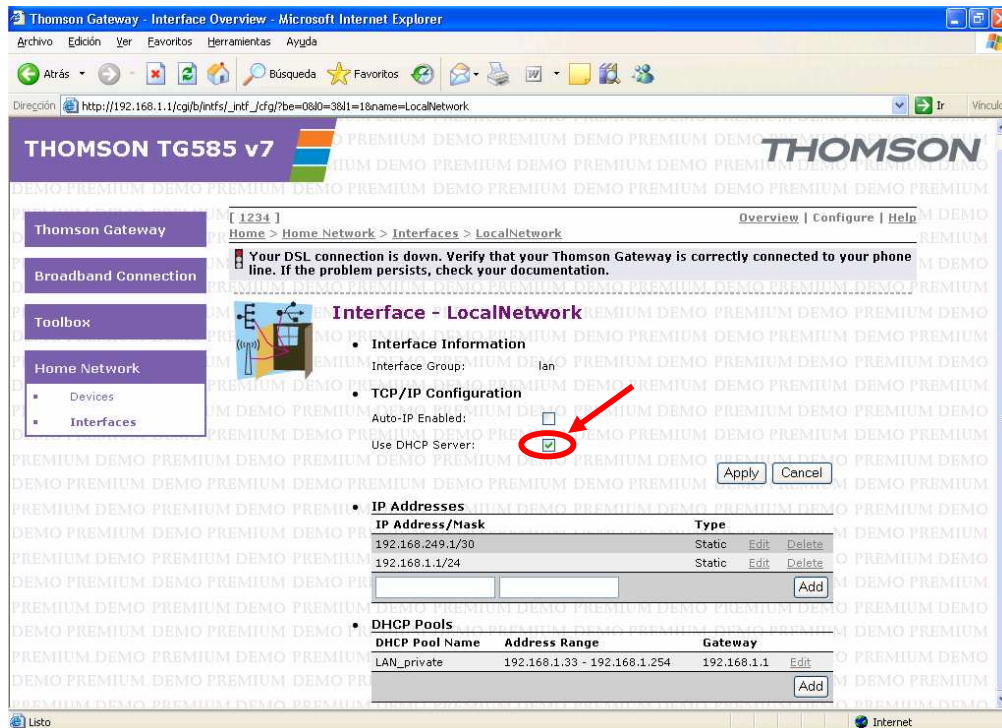


- Then, click “Configure” as follows

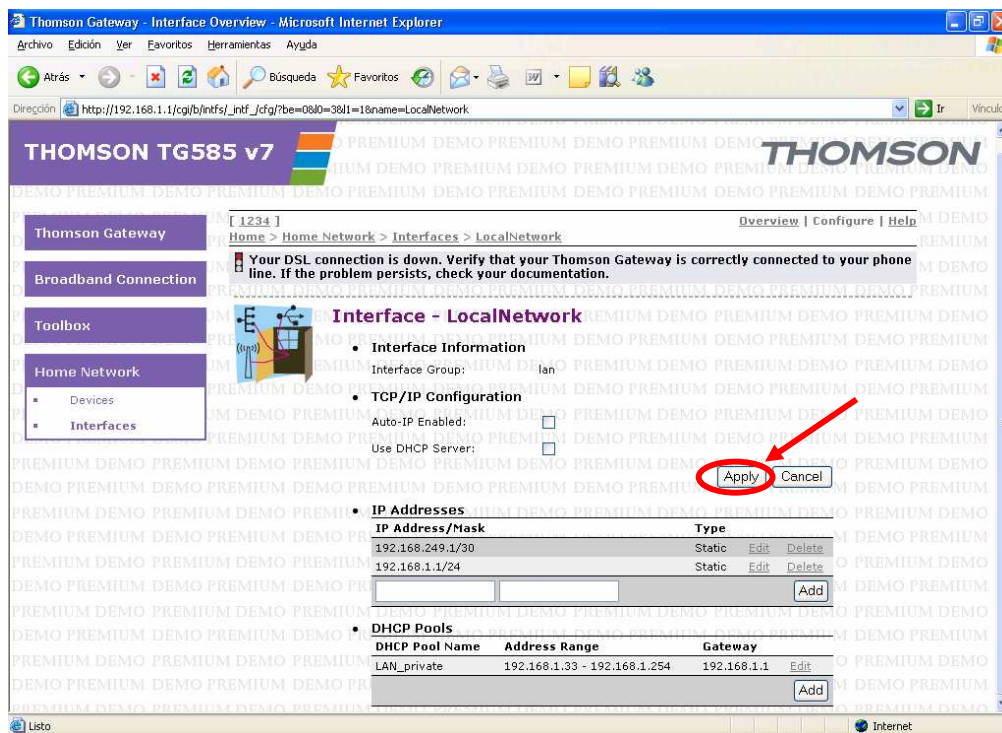


TG585iv7 Basic Configurations

- After this, disable the “Use DHCP Server” option by clicking on it:



- Now save the configuration by clicking on “Apply”:



Calculating the Gateway IP from the public IP address and mask provided by Telefónica:

First convert both the public IP address and mask into binary. Then do the “AND” logical operation between both values, and add “1” to the result (“OR” logical operation). After it, convert the final result into decimal:

(IP AND MASK) OR 1

AND / OR table:

AND	0	1	OR	0	1
0	0	0	0	0	1
1	0	1	1	1	1

Example:

IP: 80.20.10.50

Netmask: 255.255.255.0

We convert these values into binary and do the “AND” logical operation. Then, add “1” and convert the result into decimal, as follows:

IP:	01010000 . 00010100 . 00001010 . 00110010	
Máscara:	11111111 . 11111111 . 11111111 . 00000000	← AND.
	01010000 . 00010100 . 00001010 . 00000000	
		← OR.
	01010000 . 00010100 . 00001010 . 00000001	
	paso a decimal ↓	
Dirección IP del Gateway: 80.20.10.1		