

# THOMSON TG782

Setup and User Guide

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# **About this Setup and User Guide**

## **Used Symbols**



A *note* provides additional information about a topic.



A *caution* warns you about potential problems or specific precautions that need to be taken.

## **Terminology**

Generally, the THOMSON TG782 will be referred to as Thomson Gateway in this Setup and User Guide.

#### **Typographical Conventions**

Following typographical convention is used throughout this manual:

- Sample text indicates a hyperlink to a Web site.
  - Example: For more information, visit us at www.thomson-broadband.com.
- Sample text indicates an internal cross-reference.
  - Example: If you want to know more about guide, see "1 Introduction" on page 7".
- Sample text indicates an important content-related word.
  - Example: To enter the network, you must authenticate yourself.
- Sample text indicates a GUI element (commands on menus and buttons, dialog box elements, file names, paths and folders).
  - Example: On the File menu, click Open to open a file.

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# 1 Installation

## Introduction

In a few minutes you will be able to access the Internet using your Thomson Gateway.

This Setup and User Guide will show you how to set up your Thomson Gateway and how to connect your computer(s) to the Internet.



# 1.1 Preliminary Steps

#### **DSL** service

The DSL service must be up and running on your telephone line.

If both conventional telephone and DSL service are simultaneously available from the same copper pair, you will need a central splitter or distributed filters for decoupling DSL and telephone signals.



Public telephone lines carry voltages that can cause electric shock. Only try to set up splitter/filters that have been designed to be installed by unqualified personnel. For further assistance, contact your Internet Service Provider.

#### **Computer requirements**

- To connect a computer via Ethernet, make sure the computer is equipped with an Ethernet Network Interface Card (NIC).
- For wireless networking, you will need a WiFi-certified wireless client adapter for each computer you want to connect wirelessly.

#### Internet connection details

You may need the following connection details from your Internet Service Provider (ISP):

- Your ISP's method for connecting to the Internet (for example PPPoE)
- The VPI/VCI (for example 8/35)
- Your user name and password to connect to the Internet for PPP connections
- Your IP settings in case of static configurations



Optionally your ISP may indicate the Service Profile to use during Setup.

You may have received this information when you subscribed at your Internet Service Provider. You may be prompted for this information at a given step in the installation procedure.

#### Voice over IP (VoIP) connection details

If you want to be able to make phone calls over the Internet, you will need following details for your VoIP connection:

- A user account at your VoIP Service Provider
- The server settings of your VolP Service



These settings may be provided by your Internet Service Provider.

# 1.2 Installing your Thomson Gateway

#### **Installation methods**

There two ways to set up your Thomson Gateway:

- Guided Installation
- Manual Installation

#### **Guided Installation**

#### How it works

The Setup wizard included on the CD will guide you through all configuration aspects of your Thomson Gateway. This is the recommended way to install your Thomson Gateway.

#### Requirements

- Your computer must run one of the following operating systems:
  - Microsoft Windows Vista (SP1) or higher
  - Microsoft Windows Vista x64 (SP1) or higher
  - Microsoft Windows XP Service SP2 or higher
  - Microsoft Windows XP x64 SP 1 or higher
  - Microsoft Windows 2000 SP4
  - Mac OS X 10.4 (Tiger)
  - Mac OS X 10.5 (Leopard)
- You must have administrative rights on your computer

#### **Getting started**

Proceed with "1.2.1 Guided Installation" on page 6.

#### Manual Installation

# How it works

The Setup and User Guide will first help you to connect your computer to the Thomson Gateway. After this is done, you can configure your Thomson Gateway using your web browser.

#### Requirements

Javascript must be enabled on your web browser.

#### Getting started

Proceed with "1.2.2 Manual Installation" on page 8.

# 1.2.1 Guided Installation

## **Connecting devices: wait!**

Do not plug in any cables or connect any devices until you are prompted to do so by the wizard.

## In case of problems

If you encounter problems during this installation please refer to "8.1 Setup wizard Troubleshooting" on page 60.

## Starting the wizard

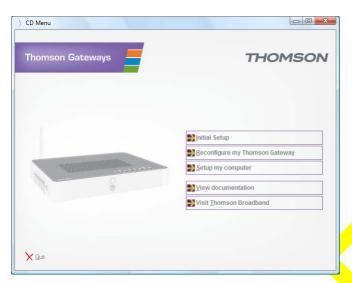
To start the wizard:

- 1 Insert the Setup CD into your computer's CD- or DVD-ROM drive.
- 2 If your computer runs:
  - Microsoft Windows: The CD should autostart.
  - Mac OS X: Double-click Menu in the window with the content of the CD.
- 3 Select the language of your choice and click OK.
- 4 The Setup wizard will now guide you through the installation.
- 5 At the end of the installation, following screen appears:



- 6 Select the Go to the Thomson Gateway Web Interface if you want to go to the Thomson Gateway Web Interface after closing the wizard. On the Thomson Gateway Web Interface, you can further configure your Thomson Gateway.
- 7 Click Finish.
- 8 The CD menu appears.

#### **CD** menu



#### On the CD Menu, click:

- Initial Setup to connect your computer to the Thomson Gateway and configure it.
- Reconfigure my Thomson Gateway to reconfigure your Thomson Gateway.
- Setup my computer to connect your computer to the Thomson Gateway network.
- View Documentation to view the documentation that is available for your Thomson Gateway. This list
  will be automatically updated if you are connected to the Internet.
- Visit Thomson Broadband to visit the online support sections on www.thomson-broadband.com.



Actual available items may depend on the Setup CD delivered with your Thomson Gateway.

# 1.2.2 Manual Installation

#### **Procedure**

#### Proceed as follows:

- 1 Connect the cables
- 2 Configure the Thomson Gateway

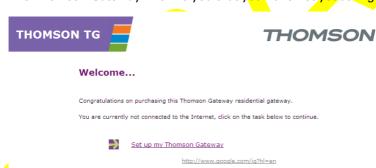
#### Connect the cables

#### Proceed as follows:

- 1 Connect your computer to the Thomson Gateway as described in "3 Adding a New Computer to your Network" on page 19.
- 2 Connect the Thomson Gateway to the DSL line.
- 3 Connect the power supply.
- 4 Turn on the Thomson Gateway.

## **Configure the Thomson Gateway**

- 1 Open your web browser.
- 2 The Thomson Gateway informs you that you have not yet configured your Thomson Gateway.



If this window does not appear browse to <a href="http://dsldevice.lan">http://dsldevice.lan</a> or to the IP address of your Thomson Gateway (by default: <a href="https://dsldevice.lan">192.168.1.254</a>) and click **Thomson Gateway** on the menu on the left-hand side.

- 3 Click Setup my Thomson Gateway.
- 4 The Easy Setup wizard appears. This wizard will guide you through the configuration of your Thomson Gateway. Click Next and follow the instructions.

# 2 Thomson Gateway Basics

# In this chapter

Торіс	Page
Thomson Gateway LED Behaviour	10
Thomson Gateway Web Interface	15
Backing Up/Restoring your Configuration	18



# 2.1 Thomson Gateway LED Behaviour

## Content

This chapter describes the behaviour of:

- Status LEDs
- WPS Button LED
- Ethernet LEDs



# 2.1.1 Status LEDs

## Introduction

On the front panel of your Thomson Gateway, you can find a number of status LEDs, indicating the state of the device during normal operation.

## **Power LED**

Colour	State	Description
Green	Solid on	Power on, normal operation
Red	Solid on	Power on, self-test failed, indicating device malfunction
Amber	Blinking	Bootloader active (during upgrade)
Off		Power off

## **Ethernet LED**

Colour	State	Description
Green	Blinking	Ethernet activity
	Solid on	Ethernet connection, no activity
Off		No Ethernet connection

## Wireless LED

Colour	State	Description
Green	Blinking	Wireless activity, WPA(2) encryption
	Solid on	No wireless activity, WPA(2) encryption
Amber	Blinking	Wireless activity, WEP encryption
	Solid on	No wireless activity, WEP encryption
Red	Blinking	Wireless activity, no security
	Solid on	No wireless activity, no security
Red/green	Toggling	Wireless client registration phase
Off		WLAN disabled

# 2 Thomson Gateway Basics

# **Broadband LED**

Colour	State	Description
Green	Blinking	Pending DSL line synchronisation
	Solid on	DSL line synchronised
Off		No DSL line

# **Internet LED**

Colour	State	Description
Green	Blinking	Internet activity
	Solid on	Internet connectivity, no activity
Red	Solid on	Internet connection setup failed
Off		No Internet connection

# **Phone LED**

Colour	State	Description
Green	Solid on	VoIP service up
	Blinking	VoIP activity
Off		VoIP service down

# 2.1.2 WPS Button LED

## Introduction

The WPS button allows you to add new wireless clients to your network.



For more information, see Connecting Your Wireless Client via WPS.

# **WPS LED**

Colour	State	Description
Green	Solid On	Client successfully registered via WPS
Amber	Blinking	WPS registration ongoing
Red	Blinking	Error occurred

# 2.1.3 Ethernet LEDs

# **Ethernet LED**

A LED may be provided per Ethernet port to indicate link integrity (or activity).

LED Status	Description
Off	No connection on this port
Solid on	Ethernet link up
Blinking	Data is flowing from/to this port



# 2.2 Thomson Gateway Web Interface

#### Introduction

The Thomson Gateway Web Interface allows you to configure your Thomson Gateway using your web browser.

## Requirements

Javascript must be enabled on your browser. For more information, consult the help of your Internet browser.

## **Accessing the Thomson Gateway Web Interface**

Proceed as follows:

- 1 Open your web browser.
- 2 Browse to http://dsldevice.lan or to the IP address of your Thomson Gateway (by default: 192.168.1.254).
- 3 If you have protected your Thomson Gateway with a user name and password, the Thomson Gateway will prompt you to enter these. Enter your user name and password and click **OK**.
- 4 The Thomson Gateway Web Interface appears.

If your computer runs Windows Vista or Windows XP, you can also access the Thomson Gateway Web Interface using the Internet Gateway Device icon. For more information, see "6.1 Universal Plug and Play" on page 43.

# 2 Thomson Gateway Basics

## **Components**

All the pages contain following components:



Label	Description
1	Menu
2	Language Bar
3	Navigation Bar
4	Notification Area
5	Content pane
6	Tasks

#### Menu

The menu is located on the left side of the page and consists of the following menu items:

- Thomson Gateway:
  - Provides basic information on the Thomson Gateway.
- Broadband Connection:

Allows you to view/configure your broadband connections.

- Toolbox
  - Allows you to assign games or applications to a device and secure your Internet connection.
- Home Network:
  - Allows you to manage your local network.

## Language Bar

The language bar is located in the top banner and allows you to change the language of the Thomson Gateway Web interface.



The language bar will only be shown if more than one language is available.

## **Navigation Bar**

The navigation bar is located at the top of the page and allows you to:

- View the current user name.Click this name to change your password or switch to another user.
- View the current position in the Thomson Gateway Web interface.
- Select change the display level of the page (for example: Overview, Details or Configure)
- Get context-related Help information.

#### **Notification Area**

The notification area is located under the Navigation Bar and is used to display:

- Error messages, indicated by a red traffic light.
- Warnings, indicated by an orange traffic light.
- Information, indicated by a green traffic light.



If none of these events occur, the notification area will not be shown.

## **Content pane**

The content pane is located at the centre of the page and displays the information and configurable items of the selected topic.

#### **Tasks**

To allow a quick configuration of your Thomson Gateway, some pages may offer you a number of related tasks in the **Pick a task** list. These tasks will guide you to the page where you can perform the selected task.

# 2.3 Backing Up/Restoring your Configuration

#### Introduction

Once you have configured your Thomson Gateway to your needs, it may be a good idea to backup your configuration for later use. This way you can always return to your working configuration in case of problems.

# **Backing up your configuration**

Proceed as follows:

- 1 Browse to the Thomson Gateway Web Interface.
- 2 On the Thomson Gateway menu, click Configuration.
- 3 In the Pick a task list, click Save or Restore Configuration.
- 4 Under Backup current configuration, click Backup Configuration Now.
- 5 The Thomson Gateway prompts you to save your file.
- 6 Save your file to a location of your choice.

## **Restoring your configuration**

Proceed as follows:

- 1 Browse to the Thomson Gateway Web Interface.
- 2 On the Thomson Gateway menu, click Configuration.
- 3 In the Pick a task list, click Save or Restore Configuration.
- 4 Under Restore saved configuration, click Browse.
- 5 Open your backup file.
- 6 The Thomson Gateway restores your configuration.

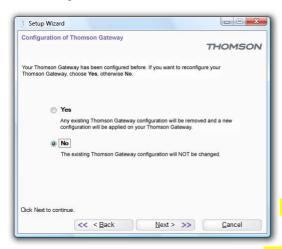


# 3 Adding a New Computer to your Network

#### **Guided Installation**

If you configured your Thomson Gateway using the Guided Installation, use the same procedure on the computer that you want to add.

At a specific point in the installation, the Setup wizard will inform you that the Thomson Gateway has already been configured:



Select No and click Next to continue.

#### **Manual Installation**

If you want to connect your computer to the Thomson Gateway using:

- A Wireless connection, continue with "4 Wireless" on page 21.
- The Ethernet cable, continue with "3.1 Connecting a Computer Using the Ethernet Cable" on page 20.

# 3.1 Connecting a Computer Using the Ethernet Cable

## Requirements

- Your computer must have a free Ethernet port.
- Your computer must be configured to obtain an IP address automatically. This is the default setting.

#### **Ethernet cable**

In your package, you will find a cable with yellow connectors. This is the Ethernet cable.

#### **Procedure**

Proceed as follows:

1 Connect one end of the Ethernet cable to (one of the) yellow Ethernet port(s) of your Thomson Gateway:



- 2 Connect the other end of the Ethernet cable to your computer.
- 3 Your computer is now connected to your network. No additional configuration is needed.

# 4 Wireless

#### Introduction

With the built-in wireless access point you are no longer bound by cables to connect to the Internet.

#### What you need to set up a wireless network

To set up a wireless network, you need following components

- A Wireless Access Point
- A Wireless client

#### **Wireless Access Point**

You can consider the wireless access point as the heart of your wireless network. The wireless access point:

- Connects the different wireless devices with each other.
- Secures the data sent over wireless connection.

The Thomson Gateway comes with an integrated wireless access point. The only thing you need is a wireless

#### Wireless client

The wireless client allows you to connect a device, typically a computer, to a wireless access point. Both builtin and external (for example via USB) are available.

Check the documentation of your computer if you are not sure if your computer is equipped with a wireless client

#### Configuring your wireless clients

Before you can start surfing the internet with a wireless connection, you must first connect your wireless client to your wireless access point: the Thomson Gateway.

For more information, see "4.1 Connecting Your Wireless Client via WPS" on page 22 and "4.2 Connecting Your Wireless Client without WPS" on page 24.

#### Secure your wireless connection!

Because you no longer need a physical connection, everyone who is within the range of your Thomson Gateway can access your network. This means that your neighbour can easily use your connection without you knowing it or that hackers can use your connection to hack into other computers.

You can easily prevent this by securing your wireless connection. For more information, see "4.3 Securing Your Wireless Connection" on page 25.

# 4.1 Connecting Your Wireless Client via WPS

#### **WPS**

Wi-Fi Protected Setup (WPS) allows you to add new wireless clients to your network in a swift and easy way, without the need to enter all of your wireless settings (SSID, encryption,...).

#### Requirements

- Your wireless client must supports WPS. Check the documentation of your wireless client for this.
- Your Thomson Gateway must use WPA-PSK encryption (default encryption) or no encryption. WPS with WEP encryption is not possible.

#### **Procedure**

Proceed as follows:

1 Shortly press the WPS button on the Thomson Gateway:



- The WPS button LED starts blinking orange. This indicates that the Thomson Gateway is now searching for wireless clients that are in registration mode. You now have two minutes to start WPS on your wireless client.
- 3 Start WPS on your wireless client.

#### The WPS button LED is solid green

This indicates that you have successfully registered your wireless client. You are now connected to the Thomson Gateway network.

#### The WPS button LED is blinking red

This indicates that the Thomson Gateway could not find your wireless client.

Make sure that the WLAN LED is blinking amber when you start WPS on your wireless client. If you still have trouble connecting to the Thomson Gateway, try connecting your wireless client without WPS. For more information, see "4.2 Connecting Your Wireless Client without WPS" on page 24.



# 4.2 Connecting Your Wireless Client without WPS

### Before you start

Before you can connect a computer to your wireless network you need to know which Network Name (SSID) and encryption your Thomson Gateway is using.

#### Where can I find the SSID?

If you did not change the SSID manually, your Thomson Gateway uses the SSID that is printed on the bottom panel label of your Thomson Gateway.

## Where can I find the encryption?

You have not yet configured your Thomson Gateway

In this case, no encryption is used.

You have already configured your Thomson Gateway using the Guided Installation

If you choose to use the wireless settings proposed by the Setup wizard, you can find the encryption keys on the label on the bottom of your Thomson Gateway.

#### Forgot your wireless settings?

If you have changed the wireless settings manually and you can't remember your settings, try one of the following:

If one of your computers is already connected to your network:

- 1 Browse to the Thomson Gateway Web Interface on a computer that is already connected to your network.
- 2 On the Home Network menu, click Wireless.
- 3 In the upper-right corner, click Details.
- 4 The wireless Access Point page appears. Under:
  - **Configuration**, you can find the network name (SSID).
  - Security, you can find the encryption.

If none of your computers is connected to your network, connect a computer using a wired connection and follow the procedure above to find out what your wireless settings are.

Another option is to reset your Thomson Gateway and reconfigure it all over again. For more information, see "8.4 Reset to Factory Defaults" on page 65.

#### **Procedure**

Configure your computer with the same wireless settings as your Thomson Gateway. For more information, consult the help of your wireless client.

# 4.3 Securing Your Wireless Connection

#### Introduction

By using encryption, communication between the wireless clients and your Thomson Gateway is protected by a passphrase. Only clients which use the correct network name (SSID) and passphrase can connect to your network

## **Encryption methods**

During the years a number of encryption types have been developed. The list below gives you an overview of the supported encryption types ordered by security level, you will find the highest level of security at the top of the list:

- WPA-PSK Encryption:
  - The wireless data is being encrypted with a user-defined key. Wireless clients must be configured with this key before they can connect to the Thomson Gateway.
- WEP Encryption:

The first encryption type used for wireless connections. Like WPA-PSK it uses a user-defined key, but WEP has been proven to have some security issues. We strongly recommend you to use WPA-PSK instead.

#### Which encryption method should I use?

We strongly recommend you to use the highest level of encryption that is supported by all your wireless clients.

#### Configuring the wireless encryption

Proceed as follows:

- 1 Open the Thomson Gateway Web Interface.
- 2 On the left menu, click Home Network.
- 3 Under Wireless, click your access point.





Your access point will be listed in the following format: "WLAN:<Network Name> (<Actual Speed>)". For example, WLAN: Thomson83C7C7 (54Mbps).

- 4 The Wireless Access Point page appears.
- 5 In the Navigation Bar, click Configure.
- 6 Under **Security**, you can change the **Encryption**. If you want to use:
  - ▶ WPA-PSK Encryption, continue with "4.3.1 Configuring WPA-PSK Encryption" on page 26.
  - ▶ WEP Encryption, continue with "4.3.2 Configuring WEP Encryption" on page 27.

# 4.3.1 Configuring WPA-PSK Encryption

#### **Procedure**

Continuing from "Configuring the wireless encryption":

- 1 Select Use WPA-PSK Encryption.
- 2 In the **WPA-PSK Encryption Key** box, type a pass phrase (also known as Pre-shared key) of your choice. The pass phrase must consist of 8 to 63 alphanumeric characters or 64 hexadecimal characters (characters from 0 to 9 and from A to F).
- 3 In the WPA-PSK Version list, click the WPA-version of your choice. Following options are available:
  - **ΜΡΔ2**

WPA2 is the most secure version, but not all wireless clients already support it. Before you select this version, make sure all of your wireless clients support it.

WP∆±WP∆2.

If not all of your wireless clients support WPA2 or you are not sure if they support WPA2, we recommend you to choose WPA+WPA2. Wireless clients that support WPA2 will use WPA2, the others will use WPA.

WPA:

If none of your wireless clients support WPA2 choose this option.



To use WPA2 on Windows XP SP2 you first have to install Wi-Fi Protected Access 2 (WPA2)/ Wireless Provisioning Services Information Element (WPS IE) update. You can find this update on <a href="http://support.microsoft.com/kb/917021">http://support.microsoft.com/kb/917021</a>.

- 4 Click Apply.
- 5 Configure your wireless client(s) with the same settings.



# 4.3.2 Configuring WEP Encryption

## **Procedure**

Continuing from "Configuring the wireless encryption":

- 1 Select Use WEP Encryption
- 2 In the WEP Key Length list, click the desired key length (a higher key length offers higher security).
- 3 In the **Encryption key** box, type a Network key of your choice. If you are using:
  - A 64-bit key:

    Type 10 hexadecimal characters (characters from 0 to 9 and from A to F) or 5 alphanumeric characters.
  - A 128-bit key:

    Type 26 hexadecimal characters (characters from 0 to 9 and from A to F) or 13 alphanumeric characters.
- 4 Click Apply.
- 5 Configure your wireless client(s) with the same settings.





# 5 Telephony

## Introduction

With your Thomson Gateway you can make Internet and regular telephone calls using traditional analogue phones.

## **Emergency calls**

If the device is not powered, the Thomson Gateway will automatically select the analogue signal (if connected). This way you are still able to make emergency calls.

## In this chapter

This chapter covers following topics:

Торіс	Page	
Connecting a Regular Phone to Your Thomson Gateway	30	
Installing the DeXtenTion Dongle	31	
Address Book	35	
Telephony services	36	
Viewing Telephony Statistics	40	



# 5.1 Connecting a Regular Phone to Your Thomson Gateway

#### **Procedure**

Use a phone cable with RJ-11 connectors to:

- 1 Wire the green Thomson Gateway Phone port(s) to your phone(s) or fax.
- 2 If your Thomson Gateway has a black port labelled **PSTN**, you must connect this port to the telephone output of your DSL filter or splitter to allow analogue phone calls with the same telephone set that you use for VoIP calls.



This is only required if you still want to make phone calls using the analogue telephone line.

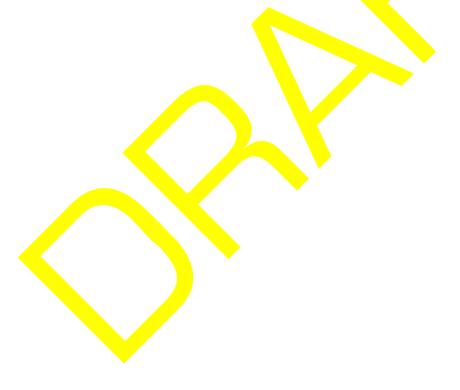
Be aware that, if the PSTN port (if provided) is not wired to your telephone wall outlet, distributed filter or splitter, emergency calls are not always possible!

As distributed filters are country-specific, you cannot use the device everywhere.

If this is not the case, no additional connections are needed.

3 If you configured your Thomson Gateway using the Guided Installation, the telephony service will already be configured by the Setup wizard. Your phone is now ready for use.

If you choose to configure your Thomson Gateway manually or you still need to configure the telephony service, continue with "5.4 Configuring the Telephony Service" on page 33.



## 5.2 Installing the DeXtenTion Dongle

## Introduction

If your package contains a DeXtenTion dongle, you can use your Thomson Gateway both as an Internet Gateway and a DECT base station simply by plugging this device into your Thomson Gateway.



#### **Procedure**

Proceed as follows:

1 Connect the flexicable to the DeXtenTion dongle:



- 2 Plug the DeXtenTion Dongle in the USB master port.
- 3 On of the red LEDs on the DeXtenTion Dongle start blinking. As long as this LED is blinking you will be able to register your DECT phone.
- 4 Register your DECT phone You can now connect your DECT phone(s) to the Thomson Gateway base station. For more information, see "5.3 Connecting a DECT Phone to Your Thomson Gateway".

## 5.3 Connecting a DECT Phone to Your Thomson Gateway

## Introduction

The Thomson Gateway is equipped with a DECT base station allowing you to connect up to five DECT phones. Before you can start using your DECT phone, you first have to register it to your Thomson Gateway. Once registered you will be able to make phone calls over the traditional (PSTN) phone network (if enabled by your telephone operator) or using VoIP (if configured).

## **Install your DECT Dongle first**

Before you can use the Thomson Gateway as a DECT base station, you must first install the DECT dongle.

For more information, see "5.2 Installing the DeXtenTion Dongle" on page 31.

### **Registering your DECT phone**

If you are using a Thomson DECT phone proceed as follows. In the other case, consult your DECT phone user documentation to register your DECT phone.

- 1 (Re)plug your DeXtenTion dongle in the USB master port of your Thomson Gateway. For more information, see "5.2 Installing the DeXtenTion Dongle" on page 31.
- 2 One of the LEDs on your DeXtenTion dongle starts blinking. This indicates that you can now register your DECT phone. If the LED stops blinking before you were able to register, replug the DeXtenTion dongle.
- 3 On the Thomson DECT phone:
  - 1 Select Menu.
  - 2 Navigate to Settings and press OK.
  - 3 Select Registration and press OK.
  - 4 Select Register Handset and press OK.
  - 5 Select in the base list the base to store this registration in and press **OK**.



It is possible to register your Thomson DECT phone to up to five different base stations. If a base in the list is marked with a green dot it is already used to store a specific registration with a base station. If not marked it is empty and can be used for a registration with a new base station

- You are prompted to enter the system PIN code of the Thomson Gateway. Enter "0000" (default value) and press **OK**. Your Thomson DECT phone is now searching your Thomson Gateway base station
- 7 When the registration was successful, the message "Registered to base x" appears on the screen of your Thomson DECT phone.

## 5.4 Configuring the Telephony Service

#### Introduction

If you configured your Thomson Gateway using the Guided Installation, the telephony service will already be configured by the Setup wizard.

If you choose to configure your Thomson Gateway manually or you still need to configure the telephony service, you can follow the procedure below.

#### **Procedure**

Proceed as follows:

- 1 Enable the Telephony Service
- 2 Assign Phone Numbers
- 3 Configure the Telephony Service



Your Internet connection must be up and running before you can configure Internet telephony.

### **Enable the Telephony Service**

To enable the telephony service:

- 1 Browse to the Thomson Gateway Web Interface.
- 2 On the Toolbox menu, click Telephony.
- 3 In the Navigation Bar, click Configure.
- 4 Select Service Enabled.
- 5 Click Apply.

#### **Assign Phone Numbers**

To configure your Internet SIP telephone numbers:

- 1 Browse to the Thomson Gateway Web Interface.
- 2 On the Toolbox menu, click Telephony.
- 3 In the Navigation Bar, click Configure. Assign phone numbers to the ports. If you want to use the same number for all ports, select Port 'All'.



The phone numbers are provided by your provider.

4 Click Apply.

## **Configure the Telephony Service**

Proceed as follows to configure the telephony service:

- 1 Browse to the Thomson Gateway Web Interface.
- 2 On the Toolbox menu, click Telephony.
- 3 In the Navigation Bar, click Expert configure.

## 5 Telephony

- 4 Enter the IP address and the port number of the registrar, and the proxy, as provided by your ISP:
- 5 Click Apply.

### **Verifying Telephone Connectivity**

Proceed as follows to verify the voice connection:

- 1 Make sure the Thomson Gateway is turned on and ready for service.
- 2 Check whether your phone is properly attached to the Thomson Gateway.
- 3 Make sure the Internet telephony service is enabled and configured.
- 4 The Phone LED must be solid green.
- 5 Pick up your phone, wait for the dialling tone, and dial the number. If you dial a '#' after the phone number, the phone number will be called over the regular telephone network.



The phone(s) attached to the Thomson Gateway can receive incoming VoIP calls, as long as your Thomson Gateway is turned on and the **Phone** LED is lift.

For calls over the analogue phone line, your phones are line-powered by the telephone company and can therefore always be reached, even if the Thomson Gateway is turned off.

### **Multiple Identities**

You can assign up to three Internet telephone numbers or URIs to one or both phone ports, or you can assign a common number to both phone ports.



The phone numbers are provided by your provider,

#### Using Multiple Identities

Proceed as follows:

- 1 Browse to the Thomson Gateway web pages.
- 2 On the Toolbox menu, click Telephony.
- 3 In the Navigation Bar, click Configure.
- 4 In the Pick a task list, click Use multiple identities.
- 5 Click Add.
- 6 Enter another URI, your user name and password.
- 7 Choose the phone port for which you want to use this telephone number.
- 8 Click Apply.

## 5.5 Address Book

#### Introduction

The Thomson Gateway allows you to store the contact details of your contacts on the Thomson Gateway Web Interface. On this page, you can make a call or send a message simply by clicking on a link.

### **Accessing the Address Book page?**

Proceed as follows:

- 1 Browse to the Thomson Gateway Web Interface.
- 2 On the Toolbox menu, click Address Book.
- 3 The Address Book page appears.

### **Managing contacts**

To:

- Add a contact, click Add.
- Edit a contact, click Edit.
- Delete a contact, click Delete.

All information provided per contact is optional except for the Last and First Name, and can be updated or completed at any time.



The Address book resides on the Thomson Gateway, so everyone with access to the Thomson Gateway web interface can view and use the Address book.

### **Using the Address book**

The contact details of a contact in your Address book allow you to directly make a call or send a message from out the Thomson Gateway web interface.

Per contact you can click (if available):

- Business: to make a call to the contact's business telephone number
- Home: to make a call to the contacts home telephone number
- Mobile: to make a call to the contact's mobile telephone number
- Other or SIP uri: to make a call to the contact's VoIP telephone number
- **E-mail**: for sending an E-mail message to the contact with your e-mail client.

## 5.6 Telephony services

#### Introduction

Telephony services or supplementary services add extra functionality to your phone. Which supplementary services that are available is determined by your service provider.

The following list gives an overview of the services that may be available:

- 3pty: three party call
- Callreturn: to call back the last missed call
- Ccbs: call completion on busy subscriber (automatic callback)
- Cfbs: call forwarding on busy subscriber
- Cfnr: call forwarding on no reply
- Cfu: call forwarding unconditional
- Clip: calling line identification presentation
- Clir: calling line identification restriction
- Clironcall: clir for only one call
- ForcedFXO: switch to FXO (PSTN)
- Hold: put an active call on hold
- Mwi: message waiting indication
- Transfer: call transfer between local ports
- Waiting: incoming call while active call indication
- Waitingoncall: call waiting active for only one call.

#### Checking which services that you can use?

To check which services you can use:

- 1 Browse to the Thomson Gateway Web Interface.
- 2 On the Toolbox menu, click Telephony.
- 3 In the Navigation Bar, click Configure.
- In the Pick a task list, click View Telephony Services.
- 5 Under Telephony Services, you can see the services that are supported by your provider.

### Activating services

You can activate/deactivate supplementary services in two ways:

- Via activation/deactivation codes, also referred to as service code commands.
- Via the Telephony Configure page.

The activation/deactivation codes for a specific supplementary service is displayed in the overview.

For example, to activate Call Hold dial \*94; to deactivate the service dial #94.

#### Activating services on the web pages

To activate/deactivate supplementary services via the web page:

- 1 Browse to the Thomson Gateway Web Interface.
- 2 On the Toolbox menu, click Telephony.
- 3 In the Navigation Bar, click Configure.
- 4 In the Pick a task list, click View Telephony Services.
- 5 In the Navigation Bar, click Configure.
- 6 To activate deactivate supplementary services select/clear the check box of the supplementary service.
- 7 Click Apply.

### **Call Forwarding**

Call Forwarding informs you about the call forwarding parameters:

- CFNR-timer or Call Forwarding on No Reply timer is the time expressed in seconds after which an
  incoming call is forwarded when not answered.
- **CFNR-destination** or Call Forwarding on No Reply destination is the telephone number to which a call is forwarded when the CFNR-timer expires.
- **CFU-destination** or Call Forwarding Unconditional is the telephone number to which an incoming call is always forwarded.
- **CFBS-destination** or Call Forwarding on Busy Subscriber is the telephone number to which an incoming call is forwarded when your telephone is busy.

## Using switching order commands

In order to use switching order commands (R or hook flash followed by a digit), certain supplementary services have to be activated.

The following list gives an overview of the supplementary services that have to be activated in order to use switching order commands (SOC):

Activate Hold when you want to

Action	Press	Illustration
To put an active call on hold and enable a call set up (the dial tone is generated)	R, 2	B C A presses P2 on hold dial tone A
To terminate the call on hold	R, 0	B C A presses A active A
To terminate an active call and switch to the call on hold	R, 1	B C A presses R1 A active

Action	Press	Illustration
To retrieve the call on hold (when there is no active call)	R, 1	B C A presses R1 active A
To terminate an active call and enables a call set up (the dial tone is generated)	R, 9	B C A presses R9 B C dial tone A

## Activate Waiting when you want to:

Action	Press	Illustration	
To terminate an active call and switch to an incoming call	R, 1		esses A active
To reject an incoming call	R, 0		esses active A
To switch between an active call and a call on hold	R, 2	, ,	esses active A
To switch between an active call and an incoming call	R, 2		esses active A

### Activate 3 PTY when you want to:

Action	Press	Illustration
To establish a conference call (or 3 party connection)	R, 3	on hold A presses R3  A presses A cactive A active
During 3 pty: put B and C on hold	R, 2	B C A presses on hold A on hold A
During 3 pty: retrieve B and C	R, 3	B C A presses active A active

## Activate Transfer when you want to:

Action	Press	Illustration
Transfer a call	R, 4	B C A presses R4 A

Activate **CCBS** when you want to set up a call to a busy subscriber (Press R, 5).



## 5.7 Viewing Telephony Statistics

### Introduction

The **Telephony Statistics** page on the Thomson Gateway Web Interface lists:

- Successful incoming calls.
- Missed incoming calls.
- Successful outgoing calls.
- Failed outgoing calls.

## **Accessing the Telephony Statistics page**

Proceed as follows:

- 1 Browse to the Thomson Gateway Web Interface.
- 2 On the Toolbox menu, click Telephony.
- 3 The Address Book page appears.

### **Call Statistics**

The Call Statistics page shows you the number of:

- Successful incoming calls.
- Missed incoming calls.
- Successful outgoing calls.
- Failed outgoing calls.

for each phone separately and combined.





## In this chapter

In this chapter we will take a closer look at following features:

Торіс	Page
Universal Plug and Play	43
Assigning a service (HTTP, FTP,) to a computer	50
Dynamic DNS	52

## **Feature availability**

Depending on the configuration offered by your Internet Service Provider (ISP), some features may not be available on your Thomson Gateway. For more information, contact your ISP.



## 6.0.1 Using UPnP AV to Share Content with Media Devices

#### Introduction

If you want to share your media files with media devices like IP Set-Top Boxes, you have to configure the Thomson UPnP AV Server.

#### **Thomson UPnP AV Server**

The Thomson UPnP AV Server is a server that shares media files with devices that are connected to the same network. These media files are stored on a USB storage device connected to the Thomson Gateway.

#### **Procedure**

#### Proceed as follows:

- 1 Enable UPnP AV on the Thomson Gateway.
- 2 Select your USB storage device as managed partition.

## **Enable UPnP AV on the Thomson Gateway**

Proceed as follows:

- 1 Browse to the Thomson Gateway Web Interface.
- 2 On the Tools menu, click Content Sharing.
- 3 In the Navigation Bar, click Configure.
- 4 Under UPnP AV Media Server, click Server Enabled.

#### Select your USB storage device as managed partition

Proceed as follows:

- 1 Under List of connected disks, click the radio button next to the partition of which you want to share the media files.
- 2 Click Apply.

## 6.1 Universal Plug and Play

#### Introduction

UPnP is designed to automate the installation and configuration of a (small) network as much as possible. This means that UPnP-capable devices can join and leave a network without any effort of a network administrator.

## **Supported Operating Systems**

Following operating systems support UPnP:

- Windows Vista
- Windows XP



If your computer is running Windows XP, you first have to install the UPnP component. For more information, see "6.1.4 Installing UPnP on Windows XP" on page 48.

### **UPnP** and the Thomson Gateway

With UPnP you can:

- Access the Thomson Gateway Web Interface without having to open the Thomson Gateway Web
  Interface. For more information, see Accessing Your Thomson Gateway with UPnP.
- Connect/disconnect without having to open the Thomson Gateway Web Interface.
   For more information, see Managing your Internet connection with UPnP.
- Automatic port configuration for UPnP-enabled games and applications. You do not have to create port to run services on a computer. If the application is UPnP-enabled, UPnP will create these entries automatically. For more information, see Assigning a service (HTTP, FTP,...) to a computer.

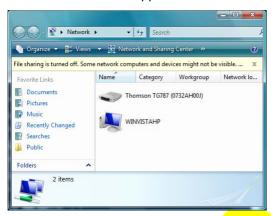


## 6.1.1 Accessing Your Thomson Gateway with UPnP

#### **Windows Vista**

If you computer runs Windows Vista:

- 1 On the Windows Start menu, click Network.
- 2 The Network window appears:

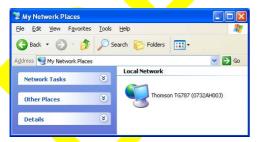


- 3 Right-click your Thomson Gateway (displayed as THOMSON TGXXX) and click View device web page.
- 4 The Thomson Gateway Web Interface appears.

#### Windows XP

If you computer runs Windows XP:

- 1 Go to My Network Places.
- 2 The My Network Places window appears:



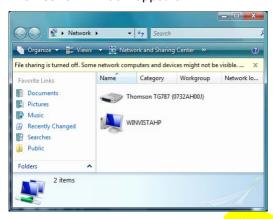
- 3 Double-click your Thomson Gateway (displayed as THOMSON TGXXX).
- 4 The Thomson Gateway Web Interface appears.

## 6.1.2 Managing your Internet connection with UPnP

#### **Windows Vista**

If you computer runs Windows Vista:

- 1 On the Windows Start menu, click Network.
- 2 The Network window appears:



- 3 Right-click your Thomson Gateway (displayed as THOMSON TGXXX).
- 4 If you are currently:
  - Connected to the Internet, click **Disable to** disconnect from the Internet.
  - Not connected to the Internet, click **Enable** to connect to the Internet.

#### Windows XP

Proceed as follows:

- 1 On the Windows Start menu, click (Settings >) Control Panel.
- 2 The Control Panel window appears.
  Click (Network and Internet Connections) > Internet Connections.
- 3 The Network Connections window appears;



4 If you right-click the Internet Connection icon, you can connect/disconnect your connection to the Internet.

## **Disabling this feature**

To prevent that users can connect/disconnect you can enable Extended Security. For more information, see "6.1.3 Configuring UPnP on the Thomson Gateway" on page 47.



## 6.1.3 Configuring UPnP on the Thomson Gateway

#### Introduction

On the Thomson Gateway Web Interface you can:

- Enable/Disable UPnP
- Extended Security

#### **Enable/Disable UPnP**

Proceed as follows:

- 1 Browse to the Thomson Gateway Web Interface.
- 2 On the Toolbox menu, click Game & Application Sharing.
- 3 Under Universal Plug and Play:
  - Select the Use UPnP check box, to enable UPnP.
  - Clear the Use UPnP check box, to disable UPnP.
- 4 Click Apply.

### **Extended Security**

If Extended Security is enabled only limited UPnP operation between the host and the Thomson Gateway is allowed:

- A local host is not allowed to connect/disconnect the Thomson Gateway Internet connection. You can then only connect/disconnect the Internet connection via the Thomson Gateway Web Interface
- Address translation mappings can only be added or changed via UPnP for the host on which the UPnP application is running.

### **Enabling Extended Security**

Proceed as follows:

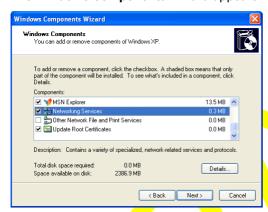
- 1 Browse to the Thomson Gateway Web Interface.
- 2 On the Toolbox menu, click Game & Application Sharing.
- 3 Under Universal Plug and Play, select Use Extended Security.
- 4 Click Apply.

## **6.1.4** Installing UPnP on Windows XP

#### **Adding UPnP**

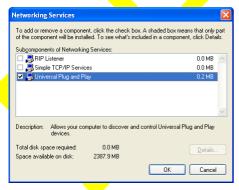
If you are running Microsoft Windows XP, it is recommended to add the UPnP component to your system. Proceed as follows:

- 1 In the Start menu, click (Settings >) Control Panel.
- 2 The Control Panel window appears. Click Add or Remove Programs.
- 3 The Add or Remove Programs window appears. Click Add/Remove Windows Components.
- 4 The Windows Components Wizard appears:



In the Components list, select Networking Services and click Details

5 The Networking Services window appears:



Select Universal Plug and Play or UPnP User Interface and click OK.

- 6 Click Next to start the installation and follow the instructions in the Windows Components Wizard.
- 7 At the end of the procedure the Wizard informs you that the installation was successful. Click **Finish** to quit.

### **Adding IGD Discovery and Control**

Your Windows XP system is able to discover and control Internet Gateway Devices (IGD), like the Thomson Gateway on your local network. Therefore, it is recommended to add the IGD Discovery and Control client to your system.

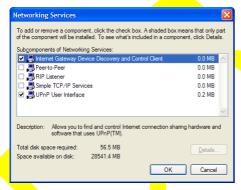
#### Proceed as follows:

- 1 On the Windows taskbar, click Start.
- 2 Select (Settings >) Control Panel > Add or Remove Programs.
- 3 In the Add or Remove Programs window, click Add/Remove Windows Components.
- 4 The Windows Components Wizard appears:



Select Networking Services in the Components list and click Details.

5 The Networking Services window appears:



Select Internet Gateway Device Discovery and Control Client and click OK.

- 6 Click Next to start the installation and follow the instructions in the Windows Components Wizard.
- 7 At the end of the procedure, the Wizard informs you that the installation was successful. Click **Finish** to quit.

## 6.2 Assigning a service (HTTP, FTP,...) to a computer

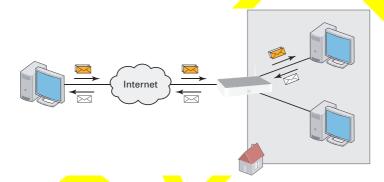
#### Introduction

The Thomson Gateway allows you to use one internet connection for multiple computers. This means that all your computers share one public IP address, as if only one computer is connected to the outside world.

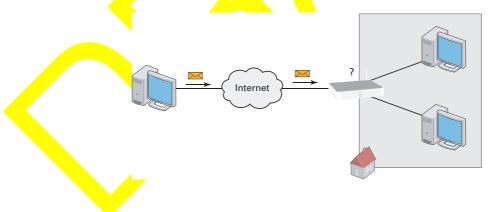
#### **Problem**

When the Thomson Gateway receives an incoming message, the Thomson Gateway has to decide to which computer he will have to send this message.

If the incoming message is a response to an outgoing message originating from one of your computers, the Thomson Gateway sends the incoming message to this computer.



If your are running a server or an application that acts as a server (for example a HTTP server, internet game), the initial message will come from the internet and the Thomson Gateway has to decide to which computer he should forward the incoming message.



#### **Solution**

To avoid this problem you can:

- Enable UPnP.
- Assign a game or application to a local networking device.

#### **UPnP**

UPnP is a technology that enables seamless operation of a wide range of games and messaging applications. Your computer will use UPnP to communicate to the Thomson Gateway which services are running on the computer.

For more information on UPnP, see "6.1 Universal Plug and Play" on page 43.

#### Assign a game or application to a local networking device

If you assign a game or application to a local networking device, you will basically tell the Thomson Gateway that if it receives requests for a specific game or application, it has to forward these messages to a specific computer.

Proceed as follows to do so:

- Browse to the Thomson Gateway Web Interface.
- 2 On the Toolbox menu, click Game & Application Sharing.
- 3 In the Pick a task list, click Assign a game or application to a local network device.
- 4 In the Game or application list, click the service you want to run on the computer. For example, HTTP Server (World Wide Web).



If the service is not available in the list, click **Create a new game or application** in the **Pick a task** list. For more information, click **Help** on the Thomson Gateway Web Interface.

- In the **Device**, list select the computer to which you want to assign the service. Your computer will be listed with it's computer name.
- 6 All incoming request for the selected service will now be directed to the selected device. The Thomson Gateway will also configure the its firewall to allow this service.



## 6.3 Dynamic DNS

#### Introduction

The Dynamic DNS service allows you to assign a dynamic DNS host name (for example john.dyndns.org) to a broadband connection even if it is using a dynamic IP address. As soon as the device gets a new IP address, the dynamic DNS server updates its entry to the new IP address.

### What you need

Before you can configure Dynamic DNS, you first have to create an account at a Dynamic DNS service provider. For example:

- www.dyndns.org
- www.no-ip.com
- www.dtdns.com

#### **Procedure**

Proceed as follows:

- 1 Browse to the Thomson Gateway Web Interface.
- 2 On the Toolbox menu, click Dynamic DNS.
- 3 On the Navigation Bar, click Configure.
- 4 Select the Enabled check box.
- If necessary, select the broadband connection to which you want to assign the Dynamic DNS host name in the Interface list.
- 6 Type the user name and password of your Dynamic DNS service account in the corresponding fields.
- 7 In the **Service** list, click the name of your Dynamic DNS service provider.
- 8 In the Host box, type the host name that you got from the Dynamic DNS service provider (for example mywebpage.dyndns.org).
- 9 Click Apply.

# 7 Internet Security

## **Overview**

The Thomson Gateway offers you various options to secure your network:

Торіс	Page
Firewall	54
Web Site Filtering	55



## 7.1 Firewall

### **Changing the security level**

Proceed as follows:

- 1 Browse to the Thomson Gateway Web Interface.
- 2 On the Toolbox menu, click Firewall.
- 3 The Firewall page appears. In the upper-right corner, click Configure.
- 4 A list with security settings with a brief description is displayed.
- 5 Select the security level of your choice and click Apply.

### Creating a new security level

If you do not find a security level up to your need, you are able to create a new security level.



This feature is intended for advanced users only.

#### Proceed as follows:

- 1 In the Toolbox menu, click Firewall.
- 2 In the upper right corner, click Configure.
- 3 In the Pick a task list, click Create a new Security Level.
- 4 In the Name box, type a name for the new security level.
- 5 In the Clone from existing Security Levels list, click the security level you want to start from.
- 6 Click Apply.
- 7 You can now make the necessary changes to the security level.



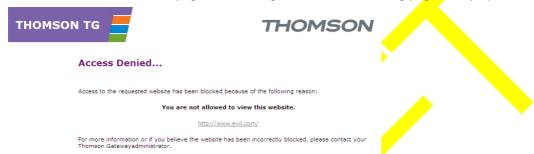
## 7.2 Web Site Filtering

#### Introduction

The Thomson Gateway allows you to deny access to specific web sites.

#### **Access Denied page**

When a user tries to access a page that is being blocked, the following page is displayed:



### **Address-based filtering**

With address-based filtering you can block web sites based on their address, also called URL (for example www.porn.com).

Proceed as follows:

- 1 Browse to the Thomson Gateway Web Interface.
- 2 On the Toolbox menu, click Web Site Filtering.
- 3 On the Navigation Bar, click Configure.
- 4 Make sure that the Use Address Based Filter check box is selected.
- 5 In the Action for Unknown Sites, select:
  - Allow as the default rule if you want to allow access to all web sites and manually specify which web sites may not be accessed.
  - **Block** as the default rule if you want to deny access to *all* web sites and manually specify a number of web sites that may be accessed.
- 6 Click Apply.
- If you want to make exceptions for specific web sites, add the necessary rules in the address-based filter. For more information, see "7.2.1 Adding Rules For The Address Based Filter".

## 7.2.1 Adding Rules For The Address Based Filter

#### **Options**

#### With the address based filter you can:

- Deny access to a specific Web site
- Allow access to a specific Web site
- Redirect a Web site
- Redirect all Web sites

### Deny access to a specific Web site

#### Proceed as follows:

- 1 Browse to the Thomson Gateway Web Interface.
- 2 On the Toolbox menu, click Web Site Filtering.
- 3 Make sure the Use Address Based Filter check box is selected.
- 4 Type the URL of the Web site you want to block (for example "mail.provider.com") in the Web Site box.
- 5 In the Action list, click Block.
- 6 Click Add.

### Allow access to a specific Web site

#### Proceed as follows:

- 1 Browse to the Thomson Gateway Web Interface.
- 2 On the Toolbox menu, click Web Site Filtering.
- 3 Make sure the Use Address Based Filter check box is selected.
- 4 Type the URL of the Web site you want to allow (for example "netbanking.bank.com") in the Web Site box.
- 5 Click Allow in the Action list.
- 6 Click Add.

#### Redirect a Web site

#### Proceed as follows:

- 1 Browse to the Thomson Gateway Web Interface.
- 2 On the Toolbox menu, click Web Site Filtering.
- 3 Make sure the Use Address Based Filter check box is selected.
- 4 Type the URL of the Web site you want to redirect (for example "cracks.am") in the Web Site box.
- 5 Click Redirect in the Action list.
- 6 Type the URL of the Web site you want to redirect to (for example "mycompany.com/internetpolicy.htm") in the **Redirect** box.
- 7 Click Add.

## **Redirect all Web sites**

Proceed as follows:

- Browse to the Thomson Gateway Web Interface.
- 2 On the Toolbox menu, click Web Site Filtering.
- 3 Make sure the Use Address Based Filter check box is selected.
- 4 Type "\*" in the **Web Site** box.
- 5 Click Redirect in the Action list.
- 6 Type the URL of the Web site you want to redirect to (for example "mycompany.com/internetpolicy.htm") in the **Redirect** box.
- 7 Click Add.





## 8 Troubleshooting

### Introduction

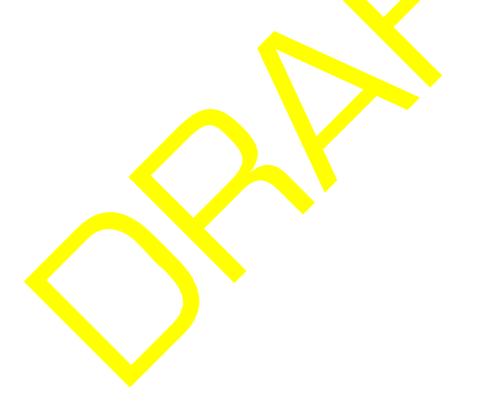
This chapter suggests solutions for problems you may encounter while installing or configuring your Thomson Gateway.

If the suggestions do not resolve the problem, look at the support pages on <a href="http://www.thomson-broadband.com">http://www.thomson-broadband.com</a> or contact your service provider.

## **Topics**

#### In this chapter:

- General Thomson Gateway Troubleshooting
- Voice over IP Troubleshooting
- Reset to Factory Defaults



## 8.1 Setup wizard Troubleshooting

### The Setup CD does not start automatically

If your computer runs:

- Microsoft Windows:
  - 1 Click the Windows Start button.
  - 2 Click Run.
  - 3 In the **Open** field, type the following path: **D:\Setup.exe**, where D stands for the drive letter of your CD- or DVD-ROM drive.
- Mac OS X:
  - 1 On your desktop, double-click the CD icon.
  - 2 Double-click Menu.

### Your Thomson Gateway has not been found

If you see this error during setup, check whether:

- The Thomson Gateway is turned on and fully initialized.
- Your computer has a valid IP address, that is any address but 0.0.0.0. For more information, consult the help of your operating system.
- No dedicated firewall device or router is placed between your computer and the Thomson Gateway.
- No personal network security software (for example firewall software) is running on your computer.
- Your computer is correctly connected to the Thomson Gateway



## 8.2 General Thomson Gateway Troubleshooting

#### Thomson Gateway does not work

If none of the LEDs light up, make sure that:

- The Thomson Gateway is plugged into a power socket outlet.
- You are using the correct power supply for your Thomson Gateway device.



The power requirements for your Thomson Gateway are clearly indicated on the identification label on the bottom of the Thomson Gateway. Only use the power adaptor supplied with your Thomson Gateway.

■ The Thomson Gateway is turned on via the push button or rocker switch on the back panel.

#### **Thomson Gateway unreachable**

If your Thomson Gateway cannot be reached due to misconfiguration, you might consider a hardware reset to factory defaults as described in "8.4 Reset to Factory Defaults" on page 65.

#### **Poor Thomson Gateway performance**

Make sure that the Thomson Gateway is installed and configured as instructed in "1 Installation" on page 3 or as instructed by the Service Provider.



## 8.2.1 Wired Connection Troubleshooting

## Ethernet LED does not light up

Make sure that:

- The Ethernet cable is securely connected to the Ethernet port on your Thomson Gateway and your computer.
- You are using the correct cable type for your Ethernet equipment, that is at least UTP CAT5 with RJ-45 connectors.



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## 8.2.2 Wireless Connection Troubleshooting

#### **Not Able to Connect Wireless Clients**

Make sure the Thomson Gateway Association Control List is not locked. You can check this on the web pages. On the Wireless Access Point settings, make sure **New stations are not allowed** is NOT selected.

### **No Wireless Connectivity**

Make sure that:

- Both the wireless client adapter and the Thomson Gateway are allowed to connect through wireless channels as defined for local regulatory domain.
- The wireless client is configured for the correct wireless settings (SSID, security settings).
- Check the signal strength, indicated by the wireless client manager. If the signal is low, try repositioning the Thomson Gateway or directing the Thomson Gateway's antenna(s) for optimal performance.
- Make sure that the wireless client adapter is enabled (message like "radio on").

#### **Poor Wireless Connectivity or Range**

Try the following:

- Change the wireless channel.
- Make sure both the wireless client adapter and the Thomson Gateway are allowed to connect through wireless channels as defined for local regulatory domain.
- Check the location of the Thomson Gateway in the building.
- Check the signal strength, indicated by the wireless client manager. If the signal is low, try to place the Thomson Gateway or to direct the Thomson Gateway's antenna(s) for optimal performance.

## Change the wireless channel

Proceed as follows:

- 1 Browse to the Thomson Gateway Web Interface.
- On the left menu, click Home Network.
- 3 Under Wireless, click your access point.

```
Wireless
WLAN: Thomson83C7C7
```



Your access point will be listed in the following format: "WLAN:<Network Name> (<Actual Speed>)". For example, WLAN: Thomson83C7C7 (54Mbps).

- 4 The Wireless Access Point page appears.
- 5 In the Navigation Bar, click Configure.
- 6 Under Configuration, select the channel of your choice in the Channel Selection list.
- 7 Click Apply.

## 8.3 Voice over IP Troubleshooting

#### Introduction

If you cannot establish a phone call via your Thomson Gateway, try the suggestions below.

#### **Calling over VolP**

If you have problems calling via VoIP, check whether:

- Your telephone is correctly connected to the Thomson Gateway.
- Your telephone is working on the regular phone line (PSTN):
  - Connect your phone directly to the telephone wall outlet.
  - Try to make a phone call.
- Your phone number, user name, and password is configured correctly.
- The registrar's and proxy server's IP address and port number are configured correctly.
- The Power, Broadband/DSL and Voice LEDs are on.



As soon as the **Voice/Phone** LED turns on, you will hear a click, indicating the switch from PSTN to VoIP.

### Calling over PSTN

If you have problems calling via the regular phone line, check whether:

Your telephone is correctly connected to the Thomson Gateway.



If the Thomson Gateway is turned off, phone calls are always routed over PSTN.

- Your telephone is working on the PSTN network:
  - Connect your phone directly to PSTN.
  - Try to make a phone call.
- The Forced FXO service is activated, or whether your service provider requested you to dial an extra prefix for making calls via PSTN.



If VoIP is enabled (VoIP Ready LED is on), and when making a forced FXO call, you will hear a click, indicating the switch from VoIP to PSTN.

#### **Problems with Supplementary Services**

If you have a problem with a supplementary telephony service, check whether the service is activated.

## 8.4 Reset to Factory Defaults

#### **Resetting your Thomson Gateway**

If at some point you can no longer connect to the Thomson Gateway or you want to make a fresh install, it may be useful to perform a reset to factory defaults.

### Warning

A reset to factory default settings deletes all configuration changes you made. Therefore, after the reset, a reconfiguration of your Thomson Gateway will be needed.

Also your WLAN clients will have to be re-associated, as described in "4 Wireless" on page 21.

#### **Methods**

You can choose between:

- Software Reset
- Hardware Reset

#### **Software Reset**

Proceed as follows:

- 1 Browse to the Thomson Gateway Web Interface.
- 2 On the Thomson Gateway menu, click Configuration.
- 3 In the Pick a task list, click Reset my Thomson Gateway to default settings.
- 4 The Thomson Gateway restores the initial configuration and restarts.
- The Thomson Gateway returns to the Thomson Gateway home page (unless the IP address of your computer is not in the same subnet as the default IP address of the Thomson Gateway, being 192,168.1.254).

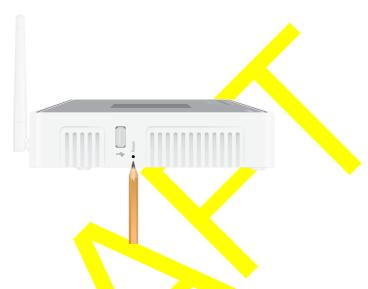


# 8 Troubleshooting

#### **Hardware Reset**

Proceed as follows:

- 1 Make sure the Thomson Gateway is turned on.
- Use a pen or an unfolded paperclip to push the recessed **Reset** button. Push it until the **Power** LED lights red this will take about 7 seconds.



- 3 Release the Reset button.
- 4 The Thomson Gateway restarts.



Your system administrator may have disabled the physical reset button of the Thomson Gateway. In this case, a hardware reset to defaults is not possible.



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