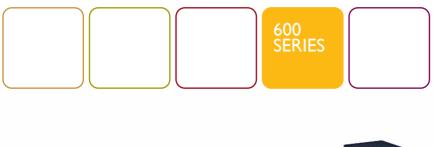
SpeedTouchTM605s

Business SHDSL Router

Setup and User's Guide Release R4.2







SpeedTouchTM605s

Setup and User's Guide

Release R4.2

Status vI.0

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Contents

1	SpeedTouch™ Installation	3
1.1	Getting Acquainted with the SpeedTouch™	4
1.2	Setting up the SpeedTouch™	6
1.3	SpeedTouch™ Configuration Setup	7
.3.I .3.2	Configuration Setup for Microsoft Windows Operating Systems Configuration Setup for other Operating Systems	
1.4	Dr SpeedTouch™ Installation	
2	SpeedTouch™ Internet Connectivity	21
2.1	Surfing the Internet	22
2.2	Connect to the Internet via SpeedTouch™'s embedded PPP client	23
2.2.1	Internet Sessions via Windows XP's UPnP	24
2.2.2	Internet Sessions via the SpeedTouch TM Web Pages (all OSs)	25
2.3	Connect to the Internet via a Broadband Dial-in Client	26
2.3.1	Using the Windows XP Dial-in Client	27
2.3.2	Using the Mac OS X Dial-in Client	30
3	SpeedTouch™ Web Interface	31
3.1	Basic Topics Menu Links	34
3 2	Advanced Tonics Menu Links	37



4	SpeedTouch™ NAPT Manager 5		
5	SpeedTouch™ System Software Upgrade	57	
	The SpeedTouch™ Upgrade Wizard		
J. I	The Speed Fouch Opgrade wizard	əc	
5.2	Manual System Software Management via BOOTP Server	62	
6	Troubleshooting	65	
6.1	General	66	
6.2	SpeedTouch™ Default Configuration	67	

1 SpeedTouch™ Installation

Introduction

Thank you for purchasing the SpeedTouch[™]605s Business SHDSL Router! With the SpeedTouch[™]605s Business Symmetrical High speed Digital Subscriber Line (SHDSL) Router, surfing the Internet will become a whole new experience.

In this Setup and User's Guide

This User's Guide will assist you in getting acquainted with the SpeedTouch™605s Business SHDSL Router and in getting connected quickly to the Internet.

Terminology

Generally, the SpeedTouchTM 605s will be referred to as SpeedTouchTM in this Setup and User's Guide unless specifically indicated.

Safety instructions

Before connecting the SpeedTouch TM , read the SpeedTouch TM Quick Installation Guide and Safety Instructions.

UPnP

The SpeedTouch™605s is a Universal Plug and Play (UPnP) certified product. UPnP enables your computer to discover and control UPnP devices on the network.

Note

For more information about how to install UPnP on your computer please consult your operating system's user's guide.

Documentation and software updates

The SpeedTouch™605s product continues to evolve as extra and new functionalities are made available.

For more information on the latest technological innovations, software upgrades, and documents, please visit the SpeedTouch $^{\text{TM}}$ web site at:

www.speedtouch.com



1.1 Getting Acquainted with the SpeedTouch™

Introducing the SpeedTouch™

Prior to proceeding, please make sure to read the SpeedTouch™Quick Installation Guide first. It provides important package content and safety information. Check whether all items are present in your package.

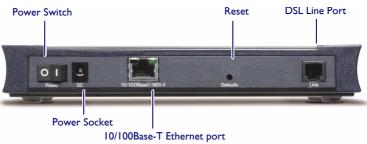
In the event of damaged or missing items, please contact your local product dealer for further information.

Front and back panel layout

The SpeedTouch™605s Business SHDSL Router is presented in a slim line housing:



The device is equipped with a single 10/100Base-T Half-/Full-duplex MDI-X Ethernet port:



Front panel LEDs

The SpeedTouch™605s Business SHDSL Router is equipped with five LEDs on its front panel, indicating the state of the device during normal operation:

Indicator			Description
Name	Color	State	
LAN	Green	Flashing	Ethernet LAN activity
		Off	No Ethernet LAN activity
Line TX	Green	Flashing	ATM cell transmission on DSL line
		Off	No transmission activity
Line RX	Green	Flashing	ATM cell reception on DSL line
		Off	No reception activity
Line Sync	Green	Off	No SHDSL line
		Flashing	Initialization of SHDSL line
		On	SHDSL line synchronized



Indicator			Description
Name	Color	State	
PWR/Alarm	Green	Flashing	Back-to-defaults
		On	Power on, normal operation
	Orange	On	Self test
	Red	Flashing	Power on
		On	Power on, selftest failed

Ethernet port(s) LEDs

The Ethernet port on the rear panel has one LED:



- Link Integrity/Activity LED

10/100Base -T

Indicator Name	Color	State	Description
Integrity/Activity	Green	Off	No connection on this port
		On	Ethernet link up. No activity
		Flashing	Activity on this Ethernet port

DSL Port

Service	Port pinning
2-wire SHDSL	3/4

DSL service

The appropriate SHDSL service must be available at your local premises.



Local network

For Ethernet connectivity you need at least:

- A computer with installed Ethernet Network Interface Card (NIC) or available on-board Ethernet port
- If needed, a hub or switch and the necessary connection cables

Ethernet Cables

In the SpeedTouch™605s box, a full wired Cat.5 straight-through RJ45/RJ45 Ethernet cable, further referred to as LAN cable is included.

You can use LAN cables other than the one provided in the box. However make sure to use correct connection cables.

Wiring procedure

Proceed as follows:

- I Use the included LAN cable to wire your computer's Ethernet port to the SpeedTouch™605s Ethernet port.
- 2 Use the included DSL cable to wire the SpeedTouch™605s's Line port to your telephone wall outlet.
- Plug the power adapter's coaxial jack into the SpeedTouch™605s DC inlet and plug the power adapter in a wall outlet.

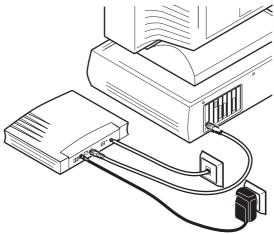
Note Always check first whether the included power adapter suits the local power specifications.

More information on Ethernet wiring

For more information, see the application note "The SpeedTouch" and Ethernet Connectivity".

PC wiring

Once all connections are made, the result should look similar as below:





1.3 SpeedTouch™ Configuration Setup

Internet connectivity

Some configuration may be required to prepare the SpeedTouch $\ensuremath{^{\text{TM}}}$ for Internet connectivity.

What you need from your ISP

You might need a user account with an Internet Service Provider (ISP) for Internet access. For this user account, your ISP will provide you with:

- A user name (logon ID)
- A password

Other information may be required, depending on the ISP's specific requirements.

Configuration of the SpeedTouch™

Depending on your computer's Operating System (OS) the configuration of your Internet connectivity can be done automatically or manually.

If your computer runs:

- A Microsoft Windows OS.
 - The SpeedTouch™ Setup wizard, included on the SpeedTouch™ Setup CD-ROM, will automatically guide you through the configuration of both the SpeedTouch™ and your PC for setting up the appropriate configuration.
 - Proceed with "1.3.1 Configuration Setup for Microsoft Windows Operating Systems" on page 8.
- Another OS, e.g. Mac OS, Unix, Linux.
 - The SpeedTouch™ Embedded Easy Setup wizard, accessible from the Speed-Touch™ web pages, will automatically guide you through the configuration of the SpeedTouch™.

Proceed with "1.3.2 Configuration Setup for other Operating Systems" on page 14.



1.3.1 Configuration Setup for Microsoft Windows Operating Systems

Microsoft Windows

One of the following Windows operating systems must be installed on your PC(s):

- Windows 98
- Windows 98SE
- Windows ME
- Windows NT4.0 SP6
- Windows 2000
- Windows XP

You may need the Windows installation CD-ROM during installation.

The SpeedTouch™ Setup wizard

The SpeedTouch™ Setup wizard procedure consists of two major parts:

- The detection procedure
- The configuration procedure



The detection procedure

The detection procedure proceeds as follows:

Insert the SpeedTouch™ Setup CD-ROM in your PC's CD-ROM drive. The SpeedTouch™ CD Browser will start automatically.

Note

If the SpeedTouchTM CD Browser window does not appear automatically, open a Run window via Start > Run from the Start menu and enter the following path: D:Menu.exe, where D stands for the drive letter of your CD-ROM drive.

2 The Choose Language window prompts you to select a language:



Select the language of your choice and click OK.

3 The SpeedTouch™ CD Browser appears:



Click Initial Setup.

4 The Setup and Installation window appears:



To start the SpeedTouch™ Setup wizard, click *Setup my* SpeedTouch™.



5 The Welcome to the SpeedTouch™ Setup Wizard window appears:



Click Next to proceed.

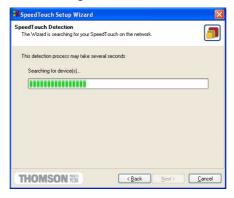
6 The Software License Agreement window appears:



You must accept before continuing. Therefor click Yes to accept.

Note If you have already accepted this License Agreement in a previous configuration setup, this window will not be shown.

7 The Setup wizard will continue to search for the SpeedTouch™ on the network. The following window shows the detection progress:





Speed Touch Setup Wizard

Detected Device
The Wizard detected the following Speed Touch device

The following device has been found:

Name: Speed Touch 605s

Serial Number: (200290053)

IP Address: (10.0.0.138

Version: 4.2.0.0.1

Configuration: Factory Defaults
Bridging on 0/95 and 8/95

Details

To continue, click Next.

8 The Setup wizard should find your SpeedTouch™ device on the local network. This is indicated by the following window:

In case more than one SpeedTouch TM device is found, a listing is provided from which you can select your SpeedTouch TM .

Note If the Setup wizard does not find any SpeedTouch™ on the network an error window pops up. In this case check:

- Whether the SpeedTouch[™] is turned on and fully initialized.
- Whether your PC is correctly connected to the SpeedTouch™ and has a valid IP address (i.e. any IP address but 0.0.0.0).
- Whether no dedicated firewall device or router is placed between your PC and the SpeedTouch™ and whether no personal firewall software is running on your PC.

To repeat the search for the SpeedTouchTM, click Back and proceed with step 7 of this procedure.

9 To continue with the configuration of your SpeedTouch™ and your PC, proceed with the configuration procedure described below.



The configuration procedure

The Configuration procedure proceeds as follows:

Once the SpeedTouch™ Setup wizard has detected your SpeedTouch™ device, you can proceed with the configuration procedure.
If more than one SpeedTouch™ device is listed, select the appropriate one.
Then, click Next to proceed.

Note

If the SpeedTouchTM has been configured before, it may be protected by a system password. You must provide user name and system password before you can view the device details or continue with the configuration.

- You will be asked to choose between reconfiguring your SpeedTouch™ or changing your Local Area Network configuration.

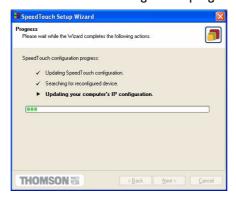
 Select Reconfigure the SpeedTouch™ and click Next.
- 3 The following window invites you to select the appropriate connection profile for your Internet connectivity:



Select the connection profile of your choice and click Next to continue.

Note If the Service Provider has included a separate disk with a dedicated connection profile, click *Have Disk* to navigate to the location of the appropriate connection template file.

- 4 Subsequent screens will guide you through the configuration setup of both your SpeedTouch™ and/or your PC. Follow the instructions and enter the required information where needed. This information should be provided by your Service Provider.
- In a final step all configurations will be applied to the SpeedTouch™ and your PC. You can follow the configuration progress in following window:





6 The SpeedTouch™ Setup wizard will appear again to announce that the configuration has been successful:



Click Finish to close the wizard.

Note In some cases, the SpeedTouch $^{\text{TM}}$ Setup wizard may ask you to restart your computer.

Most configuration profiles will enable SpeedTouch TM 's DHCP server - and a PC's Ethernet port is configured as DHCP client by default. Therefore, in most cases, no additional configuration of your PCs must be done if you want to enable multiple PCs on your local network for accessing the Internet via the SpeedTouch TM .

To make sure that all PCs are configured as expected (DHCP or fixed IP addresses) you can re-run the SpeedTouch TM Setup wizard on every PC and select the Change the LAN configuration option.

For fixed IP configurations, or other advanced settings, please follow the instructions provided by your ISP or network administrator.



1.3.2 Configuration Setup for other Operating Systems

Supported Systems

As the SpeedTouch™ is OS-independent, this configuration setup can be used by any computer system.

Note The following procedure may equally be used on MS Windows OSs.

TCP/IP Ensure that your operating system has a valid TCP/IP configuration.

Configure your computer with a static Net 10 private IP address, e.g. 10.0.0.1. Ensure, however, that you do NOT use the 10.0.0.138 IP address as this is the default IP address of the SpeedTouch™.

To ensure that IP connectivity exists, you can ping the SpeedTouch™.

Procedure

The configuration setup proceeds as follows:

- To ensure that the SpeedTouch™ is in its factory default state, reset the SpeedTouch™ to the default configuration. See "6 Troubleshooting" on page 65.
- Open a web browser and browse to the SpeedTouch™'s default IP address 2 10.0.0.138. See "3 SpeedTouch™ Web Interface" on page 31 for more information.
- As a result the SpeedTouch™ System Info web page appears. 3 Expand the Advanced Topics and click Easy Setup.

If the SpeedTouch $\ensuremath{^{\text{TM}}}$ is in factory defaults, the Easy Setup wizard will Note appear automatically.

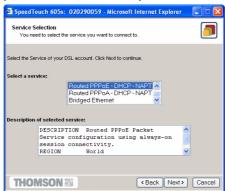
The Welcome to the SpeedTouch™ Setup Wizard window appears:



Click Next to continue.



5 The following window invites you to select the appropriate connection profile for your internet connectivity:



In the Service list, click the connection profile of your choice.

Note You can add services to the Services list by uploading templates. See "Templates" on page 48 for more information on uploading templates.

- 6 Subsequent screens guide you through the configuration setup of both your SpeedTouch™ and/or your PC. Follow the instructions and enter the required information where needed. This information should be provided by your Service Provider.
- 7 In a final step all configurations are applied to the SpeedTouch™:



8 The SpeedTouch™ Setup Wizard appears again to announce that the configuration has been successful:



Click Finish to close the wizard.



- 9 After the configuration is applied on the SpeedTouch™ some additional configuration of your computer system may be necessary.
 - Note The required settings for your computer should be provided by your Service Provider, if applicable.
- 10 To check whether the new configuration was successfully completed, you can browse to the SpeedTouch™ and check its current status.



1.4 Dr SpeedTouch™ Installation

Introduction

The Dr SpeedTouch™ application allows you to diagnose and troubleshoot your Speed-Touch™605s

With the Dr SpeedTouch™ application you can do the following:

- View the status and performance of the SpeedTouch™ device
- Run a Diagnostics program to locate a connectivity problem
- Run a Troubleshooter to help you solve a connectivity problem.

Supported Operating Systems

Installing and using Dr SpeedTouch $^{\rm TM}$ is only supported for following Microsoft Windows Operating Systems:

- Windows 98
- Windows 98SE
- Windows ME
- Windows NT4.0 SP6
- Windows 2000
- Windows XP

Installation procedure

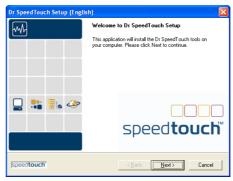
The installation procedure proceeds as follows:

Insert the SpeedTouch™ Setup CD-ROM in your PC's CD-ROM drive. The SpeedTouch™ CD Browser will start automatically. Choose your language and browse to Setup and Installation > Install Dr SpeedTouch™.

Note

If the SpeedTouchTM CD Browser window does not appear automatically, open a Run window via Start > Run from the Start menu and enter the following path: D:\Menu.exe, where D stands for the drive letter of your CD-ROM drive.

2 The Dr SpeedTouch™ Setup wizard appears:



Click Next to continue.

- 3 Subsequent screens will guide you through the installation. Follow the provided instructions and click Next whenever requested.
- 4 After installation, Dr SpeedTouch™ is started automatically.

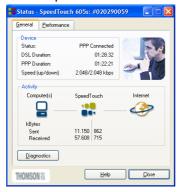


Using Dr SpeedTouch™

By default Dr SpeedTouch™ is started automatically at boot of your system and runs in the background, i.e. minimized in the status area.

To pop up Dr SpeedTouch™:

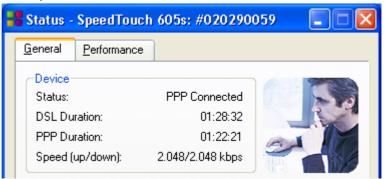
- I Double-click \mathbb{Z} in the status area.
- Dr SpeedTouch™ searches your network for SpeedTouch™ devices. If more than one device is found, a list of available devices will be provided. If this is the case, select the SpeedTouch™ of your choice and click OK.
- 3 The Dr SpeedTouch™ window appears:



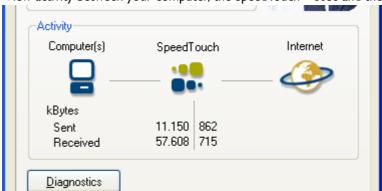
Dr SpeedTouch™ features

Dr SpeedTouch™ allows you to:

View SpeedTouch™605s device information and status:

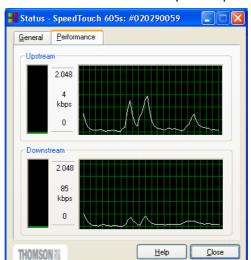


View activity between your computer, the SpeedTouch™605s and the Internet:





18



• Monitor the downstream and upstream performance. of your DSL connection:

 Test and troubleshoot the connectivity of your computer and the Speed-Touch™605sdevice to your ISP and the Internet via the Diagnostics wizard.



Note For more information on Dr SpeedTouch™ please click *Help* in the application or press FI context sensitive help.



2 SpeedTouch™ Internet Connectivity

Introduction

This chapter provides information on how to access the Internet and how to configure your SpeedTouch™ according to your preferences.

Adding UPnP to a Microsoft Windows XP system

If you are running Microsoft Windows XP, we strongly recommend to add the Universal Plug and Play (UPnP) component to your system. To add the UPnP component proceed as follows:

- On the start menu, click Control Panel.
- 2 The Control Panel window appears. Double-click the *Add or Remove Programs* icon.
- 3 The Add or Remove Programs window appears. 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 Universal Plug and Play and click OK.

- 6 Click *Next* to start the installation and follow the instructions in the Windows Components wizard.
- At the end of the procedure the wizard prompts you that the installation was succesfull. Click *Finish* to quit the installation.

For more information on UPnP and SpeedTouchTM UPnP features go to the UPnP pages at the SpeedTouchTM web site:

www.speedtouch.com/upnp.htm



2.1 Surfing the Internet

Introduction

As soon as the SpeedTouch™ and the computers have been configured as outlined in "1.3 SpeedTouch™ Configuration Setup" on page 7, you can connect to the Internet.

Access methods

Depending on the configuration of the SpeedTouch™ you may have:

- - As soon as the initial configuration has been performed, continuous and immediate access is available via the DSL line.
- Access must be explicitly established, e.g. by "dialing" into a Broadband Remote Access Server (BRAS).

The method used depends on the configuration profile/file you used to configure the SpeedTouch™ and the Service Provider's requirements.

Dial-in access

Depending on the SpeedTouch™ configuration, dial-in access is provided via:

- The SpeedTouch™'s Routed PPPoA or Routed PPPoE packet services with embedded PPP client.
 - See "2.2 Connect to the Internet via SpeedTouch™'s embedded PPP client." on page 23 for more information.
- A broadband dial-in application on your computer. See "2.3 Connect to the Internet via a Broadband Dial-in Client" on page 26 for more information.

Your Internet connection

Regardless of whether a direct access or a dial-in access method is used to make your connection, once the connection is established, opening your web browser is enough to access the World Wide Web (WWW) or Internet.

Note In case of direct access, the remote organization might ask for a user name and password on an Internet welcome page.



2.2 Connect to the Internet via SpeedTouch™'s embedded PPP client.

Introduction

The SpeedTouch™ supports both two most popular connection methods: Routed PPP over ATM (PPPoA) and PPP over Ethernet (PPPoE).

The connection method to use depends on the preferences of your ISP, hence the configuration profile you must apply to the SpeedTouch TM .

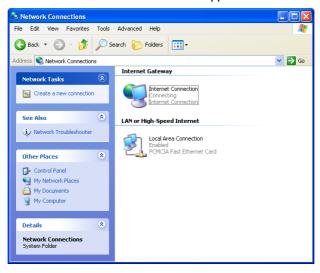
To use the embedded Routed PPPoA (PPPoE) dial-in client, the SpeedTouch™ needs to be configured for Routed PPPoA (PPPoE) via the SpeedTouch™ Setup wizard or the embedded Easy Setup wizard.



Internet Sessions via Windows XP's UPnP 2.2.1

Starting an Internet session via Windows XP's UPnP To connect to the internet via Windows XP's Internet Connection icon proceed as follows:

- Click Control Panel on the Start menu. T
- 2 The Control Panel window appears. Double-click Network Connections.
- 3 The Network Connections window appears:



Double-click the Internet Connection icon.

Your computer connects to the Internet.

Terminating an Internet Session session via Windows XP's UPnP To close an active Internet session:

- Click Control Panel on the Start menu.
- 2 The Control Panel window appears. Double-click Network Connections.
- 3 The Network Connections window appears. Double-click the Internet Connection
- The Internet Connection Status window appears:



Click Disconnect to close the session.

5 Your computer terminates the connection.



2.2.2 Internet Sessions via the SpeedTouch™ Web Pages (all OSs)

Starting a PPP session

To open a Routed PPP connection to the Internet:

I Open a web browser on your computer and browse to the SpeedTouch™ web pages:



- If needed, expand the Basic Topics, and click *Connections* to open the Connections web page.
- In the Connections table all configured Routed PPP entries are shown. In the Interface column click the entry you want to start a session with. As a result the entry will be highlighted.
- 4 Make sure the connection is disconnected.
- If not provided yet, enter your user name and password in the appropriate fields. If you want the SpeedTouch™ to remember your credentials, select the Save this password check box.
- 6 Click Connect.

While the SpeedTouchTM tries to start the session 'trying' appears in the State column of the entry. Once the session is started successfully the field displays 'up'. From then on you are online and you can start your application or browse the Internet.

Terminating an opened PPP session

To close an active Routed PPP connection:

- Ensure that you have access to the SpeedTouch™ web pages.
- 2 Browse to the SpeedTouch™ Connections page and select the connection entry you want to terminate the session for.
- 3 Click *Disconnect*. The entry's session state will change to 'Down', i.e. it becomes idle.



2.3 Connect to the Internet via a Broadband Dial-in Client

Introduction

This section explains how you can connect to the Internet using a broadband dial-in application on a computer running:

- Microsoft Windows XP
- Mac OS X.

To use a broadband dial-in client, the SpeedTouch™ needs to be configured for Bridged Ethernet or Routed PPPoE (with PPPoE relay) via the SpeedTouch™ Setup wizard or embedded Easy setup wizard.



2.3.1 Using the Windows XP Dial-in Client

Configuring a dial-in connection on a Windows XP platform To create a new dial-in connection proceed as follows:

- I On the Start menu, click Control Panel.
- 2 The Control Panel window appears. Click Network and Internet Connections.
- 3 The Network and Internet Connections window appears. Click *Network Connection*.
- 4 In the Network Tasks menu, click *Create a new connection*. The New Connection wizard appears:



Click Next to continue.

5 In the next window, select the Connect to the Internet option and click Next to continu.



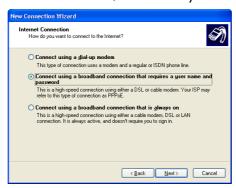
6 In the next window, choose how you want to set up your internet connection:



Select Set up my connection manually and click Next to continue.

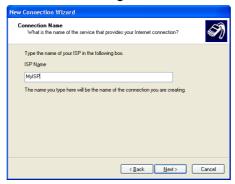


7 In the next window, choose how you want to connect to the internet:

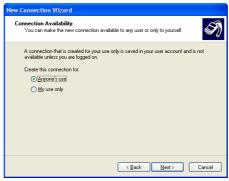


Select Connect using a broadband connection that requires a user name and password. Click Next to continue.

8 In the next window, give a name to the connection you are creating, e.g. MyISP.

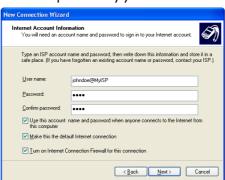


9 In the next window, select whether the connection is available to any user or only to yourself.



In the next window, fill in the Internet account information. This information





should be provided by your Service Provider.

II At the end of the configuration the following window appears:



Click *Finish* to complete the configuration. The Connect MyISP window (see below) appears.

Starting a dial-in Internet session from Windows XP To connect to the internet proceed as follows:

- I On the Start menu, point Connect To and click the name of the connection you've created, e.g. MyISP.
- 2 The Connect MyISP window appears:



Enter User name and password if needed and click Connect.

3 Your computer connects to the internet.



Using the Mac OS X Dial-in Client

Configuring a dial-in connection on a Mac OS X platform To create a dial-in connection proceed as follows:

- On the Apple menu, click System Preferences.
- 2 The System Preferences window appears. Click the Network icon.
- 3 The Network window appears:



In the Show list, select Ethernet Adaptor (enx) and click the PPPoE tab.

Enter the Account Name and Password provided by your Service Provider and Click Apply now.

Starting a dial-in connection on a Mac OS X platform To connect to the internet proceed as follows:

- Click the Internet Connect icon in the dock.
- 2 The following window appears:



Make sure Ethernet Adaptor (enx) is selected in the Configuration list. Enter your password and click Connect.

3 Your computer connects to the internet.



3 SpeedTouch™ Web Interface

Introduction

The SpeedTouch™ comes with integrated local configuration capabilities.

The local configuration, via the SpeedTouch $^{\text{TM}}$ web interface, is based on the HTTP server/web browser concept.

It allows you to configure your SpeedTouch TM via a web browser using HTML pages from any local computer attached to the Ethernet interface.

Requirements

Before you access the SpeedTouchTM pages, make sure that your browser is configured to directly connect to the SpeedTouchTM, i.e. that it is not using a proxy server.

If required, you can disable the proxy server for the time you want to access the $SpeedTouch^{TM}$ web pages.

For more information on how to disable your web browser's proxying, please consult the web browser's user's guide.

Use of the SpeedTouch™ web interface

In most cases, the SpeedTouch™ is correctly configured for your Internet connectivity via the appropriate configuration profile/file and no further configuration on the web interface is needed.

Access to the SpeedTouch™ web interface

To access the SpeedTouch™ web pages:

- I Start the web browser on your computer.
- 2 Browse to the SpeedTouch[™] at the SpeedTouch[™]'s IP address (in most cases 10.0.0.138).
- If a system password has been set, an authentication window will be displayed. Enter user name and system password in the appropriate fields
- 4 Click OK.

Access to the SpeedTouch™ web interface via UPnP

If your Windows XP PC is UPnP enabled, you can access the SpeedTouch $^{\rm TM}$ web pages as follows:

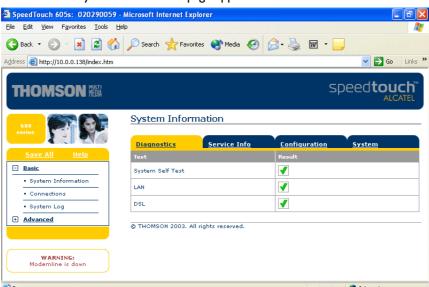
- I Double-click My Network Places on your desktop.
- 2 The following window appears:



Double-click the SpeedTouch™ icon.

- If a system password has been set, an authentication window will be displayed. Enter user name and system password in the appropriate fields.
- 4 Click OK.





Result As a result the System Information page appears:

From now on, the SpeedTouch $^{\mbox{\scriptsize TM}}$ acts as a web server, sending HTML pages/forms at your request. You can fill out these pages/forms and submit them to the SpeedTouch™. The latter scans the pages and performs the appropriate configurations.

Topic menu and links

On the left of each of the SpeedTouch™ web pages a topics menu is provided. This menu navigates you via links through all configurational aspects of the SpeedTouch™.

For your convenience the links are sorted in two expandable topics menus: Basic and Advanced. The links in the Basic topic menu lead you to pages for basic SpeedTouch™ configuration and maintenance, i.e. the pages for every-day use. The Advanced topic menu, contains the links which allow advanced configuration of the SpeedTouchTM. These pages need only to be accessed for some specific operations.

Basic topic links

The following table lists all Basic topic links:

BASIC topic menu		
Click	То	
System Information	View the current configuration profile. View the current DSL line status.	
Connections	Establish dial-in connections.	
System Log	View the activity on the SpeedTouch™ since power on.	



Advanced topic links

The following table lists all advanced topic links:

ADVANCED topic menu				
Click	То			
Diagnostics	View SpeedTouch™ diagnostics.			
Easy Setup	Configure the SpeedTouch™.			
IP Addresses	View/configure the SpeedTouch™ IP interfaces.			
IP Routing	View/configure the SpeedTouch™ IP router.			
NAPT	View/configure static NAPT entries. View/configure multi-NAT entries. Define a default local server for inbound connectivity. Configure UPnP.			
DHCP	View/configure the SpeedTouch™ DHCP server/client.			
DNS	View/configure the SpeedTouch™ DNS server/client.			
System	Backup and/or upload configuration files. Restore the SpeedTouch™ default settings.			
System Password	Set a system password.			
Templates	View/upload templates.			
Language	Configure the web page language.			

Help

The Help link in the topics menu header allows you to browse the SpeedTouch™ online Help.

For more information on a specific topic, click the context-related Help links located at the Topic's web pages.

Save all

It is advised to save the SpeedTouchTM configuration and to back it up whenever you have made changes to the SpeedTouchTM settings.

To save the configuration, click Save All link in the topics menu header.

For backing up the SpeedTouch™ configuration, see "System" on page 47.



Basic Topics Menu Links

System Information

Click this link to display the System Information page. This page is also the Speed-Touch $^{\text{TM}}$ home page.

The System Information page consists of four sections:

Click the Diagnostics tab to view the results of the System Self Test, LAN connectivity and DSL synchronization test:



Click the Service Info tab to view the current physical status of the SHDSL line:



The DSL Statistics allow you to view:

- Line Status: this shows whether the DSL link is synchronized (Enabled) or not (Initializing).
- Bandwidth Up/Down: the maximum available bandwidth of the SHDSL link in both up- and downstream direction.
- Uptime: The duration of the current Enabled Line Status.
- kBytes Tx/Rx: the amount of kilobytes (kBytes) sent (Tx) and received (Rx) since the establishment of the DSL link.
- Click the Configuration tab to view the configuration profile currently active on the SpeedTouch™:





 Click the System tab to view some important system information of the Speed-Touch™:

<u>Diagnostics</u>	Service Info	<u>Configuration</u> <u>System</u>		
Item		Description		
Product Name		SpeedTouch 605s		
Physical Address		00-90-D0-00-00		
Software Release		4.2.0.0.1		
Board Name		SHNT-C		
Serial Number		020290059		
Product Code		3EC36938AAAA		

The System table lists:

- The SpeedTouch[™] product name.
- The unique Medium Access Control (MAC) address of your SpeedTouch™.
 This MAC address can be used to identify your SpeedTouch™.
- The SpeedTouch™ Software Release.
- The SpeedTouch™ Board Name.
- The SpeedTouch[™] Serial Number
- The SpeedTouch[™] Product Code.

Connections

Click this link to view the Connections page.

This page allows you to establish dial-in connections, if applicable:



See "2.2.2 Internet Sessions via the SpeedTouch™ Web Pages (all OSs)" on page 25 for more information on how to use the Dial-in Connections table.



System Log Click this link to view the System Log page.

This page allows you to view the activity on the SpeedTouch™ since power on:





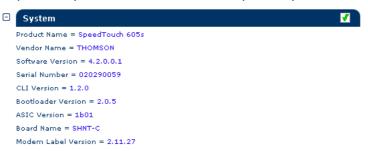
3.2 Advanced Topics Menu Links

Diagnostics

Click this link to display the Diagnostics page.

This page consists of three expandable sections:

• Expand the System section to view some important system information:



 Expand the Wan section to view the current DSL state and connection information click the plus next to DSL and Connections:



Click

to perform an IP connectivity test.

Expand the Lan section to view the LAN configuration:





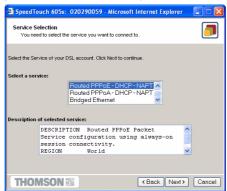
Easy Setup

To configure the SpeedTouch™ using the Easy Setup wizard:

- Click Advanced > Easy Setup to start the Easy Setup wizard.
- 2 The Welcome to the SpeedTouch™ Setup Wizard window appears:



3 The following window invites you to select the appropriate connection profile for your internet connectivity:



In the Service list, click the connection profile of your choice.

Note

You can add services to the Services list by uploading templates. See "Templates" on page 48 for more information on uploading templates.

Subsequent screens guide you through the configuration setup of both your SpeedTouch™ and/or your PC. Follow the instructions and enter the required information where needed. This information should be provided by your Service Provider. See "1.3 SpeedTouch™ Configuration Setup" on page 7.





5 In a final step all configurations are applied to the SpeedTouch™:

6 The SpeedTouch™ Setup Wizard appears again to announce that the configuration has been successful:



Click Finish to close the wizard.

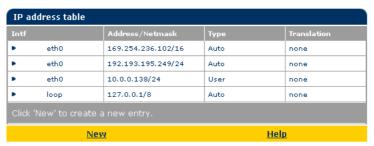
Most configuration profiles will enable SpeedTouch TM 's DHCP server - and a PC's Ethernet port is configured as DHCP client by default. Therefore, in most cases, no additional configuration of your PCs must be done if you want to enable multiple PCs on your local network for accessing the Internet via the SpeedTouch TM .



IP Addresses

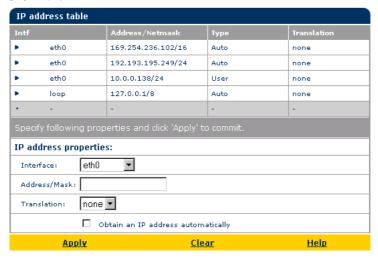
Click this link to display the IP Addresses page.

This page allows you to view or add/delete specific IP address entries for Speed-Touch™'s interfaces:



To add an IP address for one of the SpeedTouch™ interfaces:

Click New.



- 2 In the Interface field, select the interface to which the IP address applies (use eth0 for assigning to the SpeedTouch™ Ethernet interface).
- In the Address/Mask field, provide IP address and (sub)netmask in IP prefix nota-3 tion (e.g. 192.6.11.150/24) or select Obtain an IP address automatically for assigning a dynamic IP address to the interface.
- In the Translation field, select NAPT if you want to enable address translation on this IP address.
- 5 Click Apply
- In the SpeedTouch™ web page, click Save all to save your changes to persistent memory.



IP Routing

Click this link to display the IP Routing page.

This page allows you to view or add/delete static IP routes for SpeedTouch™'s IP router:



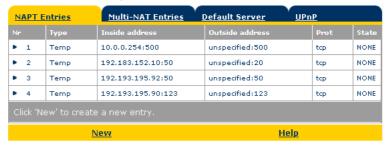
Routing can be useful when subnetting your local network. To add a static IP route proceed as follows:

- I Click New.
- 2 Specify the destination IP address (use the prefix notation to apply a subnetmask), Gateway, Interface and Metric.
 - Note If applicable, you can also select a label for packet classified IP Routing.
- 3 Click Apply to add the entry to the table.
- 4 Click Save all to save your changes to persistent memory.



NAPT Clicking this button displays the Network Address and Port Translation (NAPT) page. This page allows you to:

View or add/delete specific static NAPT entries:



To add static NAPT entries proceed as follows:

- Click New.
- Specify the outside address and inside address for the entry as well as the protocol and port to which the entry applies.

Note If the NAPT entry is applied to a connection's dynamically assigned local peer IP address, you should specify 0.0.0.0 as the outside address.

3 Click Apply to add the entry to the table.

You can also add static NAPT entries semi-automatically using the SpeedTouch™ NAPT Manager. For more information on NAPT Manager, see "4 SpeedTouch™ NAPT Manager" on page 51.

View or add/delete Multi-NAT entries:



To add Multi-NAT entries proceed as follows:

- Click New.
- 2 Specify the inside address and put the desired range between brackets e.g. 10.0.0.[1-10]. Specify the outside address and interface.
- 3 Click Apply.

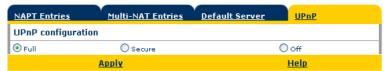


Define a default server:



By specifying a default server IP address (e.g. 10.0.0.154 as shown above), all incoming connections that don't match a specifically configured static NAPT entry will be forwarded to the device with this IP address. This setting should be adequate for most server applications and eliminates the need for specific static NAPT entries.

Configure UPnP:



The three UPnP configuration options are:

- Full:
 - The SpeedTouchTM is UPnP enabled, all local hosts are able to detect the SpeedTouchTM. Any local host is able to create port mappings for any local device.
- Secure (default):

The SpeedTouchTM is UPnP enabled, all local hosts are able to detect the SpeedTouchTM. A local host is allowed to make port mappings for its own, i.e. a local host is not allowed to create port mappings for other local devices.

Off:

The SpeedTouch TM is UPnP disabled, none of the local hosts is able to detect the SpeedTouch TM . Via UPnP no port mappings can be created.



DHCP Click this link to display the Dynamic Host Configuration Protocol (DHCP) page.

This page allows you to:

- Click the DHCP Server tab to access the DHCP server page. This page has three tabs:
 - Click the Server Config tab to enable/disable the SpeedTouch™ (Auto)DHCP server:



Depending on the DHCP server status, following Status may be shown:

- Scanning for other DHCP server: When the DHCP server and its Auto DHCP feature are enabled, during local network probing on the SpeedTouch™ Ethernet interface eth0.
- DHCP server stopped: When the DHCP server and its Auto DHCP feature are enabled, and a concurrent DHCP server was found during probing, thus causing its own DHCP server to be stopped and a DHCP client on the SpeedTouch™ Ethernet interface eth0 be created and activated.
- DHCP server started: When the DHCP server and its Auto DHCP feature are enabled, and no concurrent DHCP server was found during network probing, thus starting its own DHCP server on the SpeedTouch™ Ethernet interface eth0.
- DHCP server running: When the SpeedTouch™ DHCP server is enabled by default (without DHCP client)
- **DHCP** client: When SpeedTouch™ server is disabled by default, and a DHCP client is running on the SpeedTouch™ Ethernet interface eth0.
- No DHCP: When the SpeedTouch $\ensuremath{^{\text{TM}}}$ server is disabled by default and the SpeedTouch™ Ethernet interface eth0 IP address is statically assigned.



Under Properties you can select:

- DHCP server:
 To enable the SpeedTouch™ DHCP server. In addition, select the appropriate Auto DHCP
- Auto DHCP (default):
 The SpeedTouch™ will not start its DHCP server immediately, but will first probe the network for a possible concurrent DHCP server for some period of time (set by Client timeout in seconds). In case another DHCP server is found, the SpeedTouch™ DHCP server is not started, and a DHCP client will be created on its Ethernet interface instead. If no concurrent DHCP server is found, the SpeedTouch™ DHCP server is started.
- No DHCP
 To disable the SpeedTouch™ DHCP server. If it was running, it will be stopped immediately.
- Click the Server Leases tab to view the current leases provided by the SpeedTouch™ DHCP server.



If needed, you can also manually add static DHCP leases for specific hosts or make dynamically assigned leases static by clicking *Lock*.

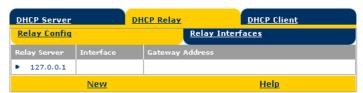
 Click the Address Pools tab to view the SpeedTouch™ DHCP server lease pool:



The SpeedTouch™ DHCP server (if enabled) will use the address pools listed in this table to provide IP addresses to requesting DHCP clients. If needed, you can add/delete DHCP address pools manually.

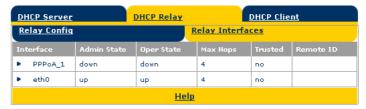


- Click the DHCP Relay tab to view the DHCP relay page. This page has two tabs:
 - Click the Relay Config tab to view the current SpeedTouch™ DHCP relay status:

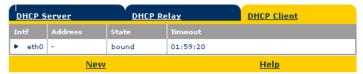


Via this table you can also manually add static SpeedTouch™ DHCP relay entries for specific interfaces, if applicable.

Click the Relay Interfaces tab to view the SpeedTouch™ DHCP relay interfaces:



Click the DHCP Client tab to view the current SpeedTouch $^{\text{TM}}$ DHCP client status:



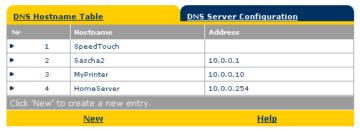
Via this table, you can also manually add static SpeedTouch™ DHCP client entries for specific interfaces.



DNS Click this link to display the Dynamic Name System (DNS) page.

This page allows you to:

View the current SpeedTouch™ DNS server hostname leases:



Via this table you can also add static DNS hostname entries.

This may be useful for devices which do not support DNS, e.g. a printer. By adding a name for your network printer, identified by its IP address, you will be able to contact this printer by name rather than by IP address.

 View and/or supply the SpeedTouch[™] DNS domain name and to enable/disable the SpeedTouch[™] DNS server:



Note The use of DNS subdomains is supported, e.g. dsl.office.lan.

System Click this link to display the Configuration page.

This page allows you to:

Back up the current SpeedTouch[™] configuration, restore the SpeedTouch[™] default configuration, or upload a saved configuration file:



- To backup the current configuration, click Backup and follow the instructions
- To restore the SpeedTouch[™] defaults, click Restore default to load the default configuration.
- To upload and apply a SpeedTouch™ configuration file you've previously backed up, click *Browse* to go to the location where the SpeedTouch™ configuration file resides. Select the configuration file and click *Upload* to upload and apply the new configuration.



View the current system software version, file name and the SpeedTouch™ board type:



Check for the latest SpeedTouch™ software upgrades.

System Password

Click this link to display the System Password page.

This page allows you to configure a system password to restrict access to the Speed-Touch™:



It is highly recommended that you configure a system password. To protect the Speed-Touch™ you should change the System password on a regular basis. However, never use an obvious password such as your name, date of birth, etc.

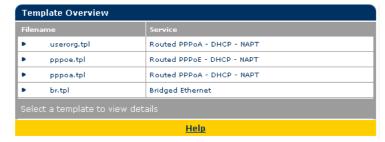
Enter User id and System password of your choice and re-enter your password in the appropriate field. Click Apply to apply the System password and Save all to save your changes to persistent memory.

Templates

Click this link to display the Templates page.

This page allows you to:

View the templates available for the embedded Easy Setup wizard:



Upload new template files, e.g. from the SpeedTouch™ Setup CD-ROM (usually template files have the extension .tpl):



By uploading templates you can extend the number of services listed in the Easy Setup wizard.

Ask your Service Provider for more information about the use of templates. Note



E-SIT-CTC-20030605-0003 v1.0

Language

Click this link to view the Language page.

This page allows you to select the SpeedTouch $^{\rm TM}$ web page language.



By default, the only available language is english.

Another language can be made available on the SpeedTouchTM web pages by running the SpeedTouchTM Setup wizard from the SpeedTouchTM Setup CD-ROM.

At the start of the setup procedure, select the desired language. When the setup procedure is finished, this language will have been enabled on your SpeedTouch TM and the language will be available on the SpeedTouch TM web pages (next to english).





4 SpeedTouch™ NAPT Manager

Introduction

The SpeedTouch™ NAPT Manager allows you to add static NAPT entries for specific applications.

Supported Operating Systems

The NAPT Manager is only supported for following Microsoft Windows Operating Systems:

- Windows 98
- Windows 98SE
- Windows ME
- Windows NT4.0 SP6
- Windows 2000
- Windows XP

Using SpeedTouch™ NAPT Manager

The SpeedTouch $^{\text{TM}}$ NAPT Manager procedure consists of two major parts:

- The detection procedure
- The configuration procedure

The detection procedure

The detection procedure proceeds as follows:

Insert the SpeedTouch™ Setup CD-ROM in your computer's CD-ROM drive. The SpeedTouch™ CD Browser will start automatically.

Note

If the SpeedTouchTM CD Browser window does not appear automatically, click Run on the Start menu and enter the following path: $D:\mbox{\sc Menu.exe}$ where D stands for the drive letter of your CD-ROM drive.

2 The SpeedTouch™ Menu appears:



Click Configuration.



3 The following window appears:



Click Configure NAT Settings.

4 The NAPT Manager window appears:



Click Next.

5 The Software License Agreement appears:

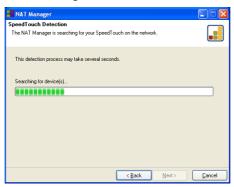


You must accept before continuing. Therefor click Yes to accept.

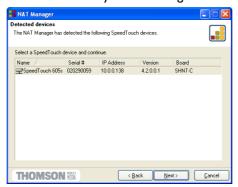
Note If you have already accepted this Software License Agreement in a previous session of NAPT Manager, this window will not be shown.



6 NAPT Manager will continue to search for the SpeedTouch™ on the network. The following window shows the detection progress:



7 The NAPT manager should find your SpeedTouch™ device on the local network. This is indicated by the following window:



In case more than one SpeedTouchTM device is found, a list with the different devices is shown. Select the SpeedTouchTM of your choice and click Next.

Note If the Setup wizard does not find any SpeedTouch™ on the network an error window pops up. In this case check that:

- the SpeedTouch™ is turned on and fully initialized.
- your PC is correctly connected to the SpeedTouch[™] and has a valid IP address (i.e. any IP address but 0.0.0.0).
- no dedicated firewall device or router is placed between your PC and the SpeedTouch $^{\text{TM}}$
- no personal firewall software is running on your PC.

To repeat the search for the SpeedTouchTM, click Back and proceed with step 6 of this procedure.



The configuration procedure

Proceed as follows to add a static NAPT entry using SpeedTouch™ NAPT Manager:

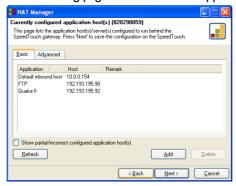
Once the SpeedTouch™ Setup wizard has detected your SpeedTouch™ device, you can proceed with the configuration procedure.
If more than one SpeedTouch™ device is listed, select the appropriate one.
Then, click Next to proceed.

Note If the SpeedTouch™ has been configured before:

 It may be protected by a system password. You must provide user name and system password before you can view the device details or continue with the configuration.

You will be asked to choose between reconfiguring your Speed-TouchTM or changing your Local Area Network configuration. Select the Reconfigure the SpeedTouchTM option and click *Next*

2 The following page lists the current application hosts:



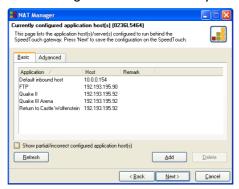
Click Add to enter a new application host.

- 3 The Add Port Mapping window appears.
 If you want to:
 - Enter a port mapping for a specific application, click the Basic tab. Select an application in the Application list and enter a host IP address.
 - Manually add a static NAPT entries, click the Advanced tab. Select a protocol in the Protocol list and enter Port and Host IP address in the appropriate fields.
 - Specify a default server IP address, click the Default inbound host tab. Enter the new IP address in the Host IP address field.

Click Set to add your entry to the list.



4 NAPT Manager adds the NAPT entry to the list:



Click Next to save the new entries.

5 NAPT Manager saves the new NAPT entries to persistent memory:



6 At the end of the procedure the following window appears:



Click Finish to quit NAPT Manager.





5 SpeedTouch™ System Software Upgrade

Introduction

The SpeedTouch™ products continue to evolve as extra and new functionalities are made available.

This chapter describes how to upgrade the SpeedTouch™ system software.

System software updates (all OSs)

You can check for system software upgrades via the SpeedTouch™ web pages.

See "System" on page 47 for more information.

System software upgrades may also be available from your Service Provider. Please contact your Service Provider for more information.

System software updates on a Windows platform

If your computer runs a Microsoft Windows operating system you can access the SpeedTouchTM web site using the SpeedTouchTM CD Browser:

Insert the SpeedTouch™ Setup CD-ROM in your PC's CD-ROM drive. The SpeedTouch™ CD Browser will start automatically.

Note

If the SpeedTouchTM CD Browser window does not appear automatically, open a Run window via Start > Run from the Start menu and enter the following path: D:Menu.exe, where D stands for the drive letter of your CD-ROM drive.

- 2 Choose a language in the Choose Language window.
- 3 Click Diagnostics & Maintenance in the SpeedTouch™ CD Browser menu.
- 4 Click Check for new System Software.
- 5 Your web browser appears and loads the SpeedTouch™ upgrade web page.

Firmware upgrades may also be available from your Service Provider. Please contact your Service Provider for more information.

Upgrade mechanisms

Depending on your Operating System and specific requirements, following options are available to upgrade the SpeedTouch TM system software:

- In case you run an MS Windows Operating System or Mac OS X 10.1/10.2:
 For your convenience a SpeedTouch™ Upgrade wizard will guide you through the system software upgrade procedure.
 See "5.1 The SpeedTouch™ Upgrade Wizard" on page 58 for more information.
- In case you run another Operating System, e.g. linux or Mac OS 8.6/9.x, or for
 extra information about advanced system software management:
 See "5.2 Manual System Software Management via BOOTP Server" on page 62 for
 more information.



The SpeedTouch™ Upgrade Wizard

Using the Upgrade Wizard

The procedure described in this section are valid only in case you run an MS Windows Operating System or Mac OS X 10.1/10.2.

During the upgrade procedure all configuration settings are backed up by the wizard and restored after upgrading the system software. Therefore, you do not need to back up the SpeedTouch™ configuration yourself.

Before you start

Make sure that you have a valid SpeedTouch™ system software file available on a local disk or CD-ROM.

System software upgrade procedure

Following procedure describes how to use the SpeedTouch™ Upgrade wizard from a PC running a MS Windows OS. For computers running Mac OS10 the behavior of the wizard is identical.

Proceed as follows:

- Insert the SpeedTouch™ Setup CD-ROM in your computer's CD-ROM drive.
 - MS Windows OSs

The SpeedTouch™ CD Browser will start automatically: If the SpeedTouch™ CD Browser window does not appear automatically, open a 'Run' window via Start > Run from the Start menu and enter the following path: D:\Menu.exe, where D stands for the drive letter of your CD-ROM drive.

The wizard prompts you to select a language. Select the language of your choice and click OK.

To start the SpeedTouch™ Upgrade wizard, click Diagnostics & Maintenance and then click *Upgrade My* SpeedTouch TM .

Mac OS10.1/10.2

Open the CD-ROM and click *UpgradeST* to install the upgrade program. After installation, go to applications: Speed Touch on the OS X partition and double-click UpgradeST.



Speed Touch Upgrade Wizard

Welcome to the Speed Touch Upgrade Wizard

The weard will guide you through the software upgrade of the Speed Touch.

To continue, click Next.

Speed touch

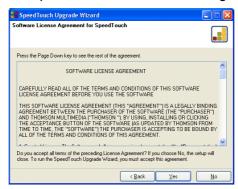
ALCATEL

Built for excellence

2 The Welcome to the SpeedTouch™ Upgrade Wizard window appears:

Click Next to proceed.

3 The SpeedTouch™ Software License Agreement window appears:



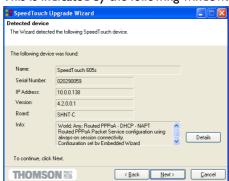
You must accept before continuing. Therefor click Yes to accept.

Note If you have already accepted this License Agreement in a previous upgrade, this window will not be shown.

4 The Setup wizard will continue to search for the SpeedTouch™ on the network. The following window shows the detection progress:







5 The Setup wizard should find your SpeedTouch™ device on the local network. This is indicated by the following window:

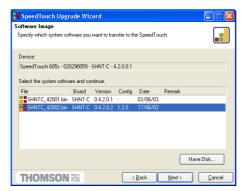
In case more than one SpeedTouch™ device is found, a listing is provided from which you can select your SpeedTouch $^{\mathsf{TM}}$ from.

If the Setup wizard does not find any SpeedTouch™ on the network an Note error window pops up. In this case check:

- Whether the SpeedTouch™ is turned on and fully initialized.
- Whether your computer is correctly connected to the Speed-Touch™.
- Whether no dedicated firewall device or router is placed between your PC and the SpeedTouch™ and whether no personal firewall software is running on your PC.

To repeat the search for the SpeedTouch™, click Back and proceed with step 4 of this procedure.

- 6 Once the SpeedTouch™ Setup wizard has detected your SpeedTouch™ device you can proceed with the upgrade procedure. If more than one SpeedTouch™ device is listed, select the appropriate one. Then, click Next to proceed.
- 7 The following window shows current the firmware version active on the Speed-Touch[™] as well as one or more firmware versions available on the CD-ROM.



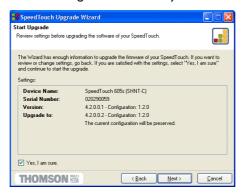
Select the appropriate firmware version and click Next to continue.

Note If the Service Provider has included a separate disk with dedicated upgrade system software, click Have Disk to navigate to the location of the appropriate file.

In case of a system software downgrade you must specifically acknowledge your decision before being able to proceed.

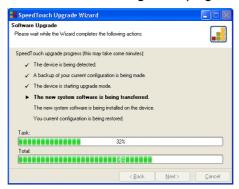


8 The following window allows you to overview your selection:



Click Next to continue.

9 You can follow the configuration progress in following window:



10 After upgrading the SpeedTouch™, a final window appears to announce that the upgrade has been successful:



Click Finish to close the wizard.



5.2 Manual System Software Management via **BOOTP Server**

SpeedTouch™ system software management

The SpeedTouch™ system software is based on BOOTP, a standard mechanism used for booting diskless stations.

The SpeedTouch™ is able to slip in BOOTP mode, allowing a BOOTP server to manage the SpeedTouch™ file system, and submit upgrade files to it.

Important note

It is recommended only to use the procedure described below in case you are familiar with the use of a BOOTP server, and the mechanisms on which BOOTP is based.

Upgrading the system software via the procedure described below will reset the Speed-Touch™ to its factory default settings. Therefore, prior to performing an upgrade of the system software it is recommended to back up the SpeedTouch™ configuration.

Before you start

You need a third party BOOTP server installed on the computer from which you want to perform the SpeedTouch™ system software upgrade.

Make sure that the SpeedTouch™ is connected to your computer via its Ethernet port.

You will need the SpeedTouch™ Medium Access Control (MAC) address of your SpeedTouch™ device. To retrieve this address see "System Information" on page 34.

Make sure a valid SpeedTouch™ system software image file is available on your local disk.

Procedure

To upgrade the SpeedTouch™ system software:

- In a preliminary step, make sure that your SpeedTouch™ is powered off and that a BOOTP server is readily installed on the computer from which you intend to perform the system software upgrade.
- 2 Configure the BOOTP server to use the SpeedTouch™ system software image file in its reply to BOOTP requests from the SpeedTouch™ you want to upgrade.
- 3 To identify the BOOTP requests from the SpeedTouch™, you will need to specify its MAC address and define an IP range for basic communication between the BOOTP server and the SpeedTouch™.
- Use a pencil to press and hold the Defaults button at the back of the Speed-Touch™:





- While holding the Defaults button, power on the SpeedTouch™ and keep holding the Defaults button until the Power/System, Line Tx and Line Rx LEDs lit green (approximately six seconds). This indicates that the SpeedTouch™ entered BOOTP mode and is sending BOOTP requests.
- The BOOTP server will reply to the BOOTP requests and will perform the required operations to send the system software to the SpeedTouch TM .
- 7 After checking whether the received system software is valid for the device, the SpeedTouch™ will start in normal operational mode to complete the upgrade.
- 8 Optionally, you can upload the backup configuration as described in "System" on page 47.





6 Troubleshooting

Introduction

This chapter provides information on how to identify and correct some common problems you may encounter when using and configuring the SpeedTouch TM .

If the following troubleshooting tips do not resolve the problem contact the company from which you purchased the SpeedTouch $^{\mathsf{TM}}$ for assistance.



6.1 General

Configuration problems

If you encounter DSL connectivity problems due to misconfiguration, you might consider a hardware reset to factory defaults (as described further in this chapter).

However, please note that resetting the SpeedTouch™ to its factory settings will revoke all the changes you made to the configuration.

Dr SpeedTouch™

Dr SpeedTouch™ enables you to test your computer and SpeedTouch™ connectivity via its Diagnostics wizard. The SpeedTouch™ Troubleshoot will report what is wrong with your connection.

For more information on Dr SpeedTouch™ see "I.4 Dr SpeedTouch™ Installation" on page 17.

Troubleshooting table

Following table may help you determine the nature of the problem, and provides some plausible solutions:

Problem	Solution		
SpeedTouch™ does not work. (none of the LEDs light up)	Make sure that the SpeedTouch™ is plugged into an electrical outlet.		
	Make sure that you are using the correct power supply for your SpeedTouch™ device.		
LAN LED does not light up. Link integrity/Activity LED of	Make sure that the cables are securely connected to the 10/100Base-T port.		
Ethernet port does not light up.	Make sure that you are using the correct cable type for your Ethernet equipment.		
	Make sure the computer's Ethernet port is configured for auto-negotiation.		
No UPnP.	Make sure UPnP is installed on your PC if you are running Microsoft Windows XP.		
	Your computer doesn't support UPnP if you run an operating system other than Microsoft Windows XP.		
	Make sure that UPnP is not turned off in the SpeedTouch $^{\text{TM}}$.		
No Line synchronization achieved. Line sync LED off or flashing.	Make sure that SHDSL service is enabled on the telephone line the SpeedTouch™ is connected to.		
	Make sure that the correct SpeedTouch™ variant is used for your DSL service.		



6.2 SpeedTouch™ Default Configuration

Reset to default configuration

Proceed as follows to perform a hardware reset to factory defaults:

- Make sure the SpeedTouch™ is powered on.
- Use a pencil to press the Defaults button at the back of the SpeedTouch™ until all the LEDs on the front panel start flashing.



3 Release the button. The SpeedTouch™ reboots and will come online again with factory defaults.

User configuration profile

When you reset the SpeedTouch[™] to its factory defaults, all the configuration profile settings you might have changed will be deleted. It may be necessary to:

reconfigure the system by using the SpeedTouch™ Setup wizard

or

 upload the relevant configuration file. See "1.3 SpeedTouch™ Configuration Setup" on page 7 for more information.







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