Gigaset

EN Dear Customer,

Gigaset Communications GmbH is the legal successor to Siemens Home and Office Communication Devices GmbH & Co. KG (SHC), which in turn continued the Gigaset business of Siemens AG. Any statements made by Siemens AG or SHC that are found in the user guides should therefore be understood as statements of Gigaset Communications GmbH.

We hope you enjoy your Gigaset.

DE Sehr geehrte Kundin, sehr geehrter Kunde,

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FR Chère Cliente, Cher Client,

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IT Gentile cliente,

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Le auguriamo tanta soddisfazione con il vostro Gigaset.

NL Geachte klant,

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ES Estimado cliente,

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Desejamos que tenham bons momentos com o seu Gigaset.

DA Kære Kunde,

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Vi håber, du får meget glæde af din Gigaset.

FI Arvoisa asiakkaamme,

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Toivotamme Teille paljon iloa Gigaset-laitteestanne.

SV Kära kund,

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Vi önskar dig mycket nöje med din Gigaset.

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Vi håper du får stor glede av din Gigaset-enhet.

EL Αγαπητή πελάτισσα, αγαπητέ πελάτη,

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Σας ευχόμαστε καλή διασκέδαση με τη συσκευή σας Gigaset.

HR Poštovani korisnici,

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SL Spoštovani kupec!

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Želimo vam veliko užitkov ob uporabi naprave Gigaset.

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Gigaset

CS Vážení zákazníci,

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Doufáme, že jste s produkty Gigaset spokojeni.

SK Vážený zákazník,

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RO Stimate client,

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Надяваме се да ползвате с удоволствие вашия Gigaset.

HU Tisztelt Vásárló!

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Reméljük, megelégedéssel használja Gigaset készülékét.

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Życzymy wiele przyjemności z korzystania z produktów Gigaset.

TR Sayın Müşterimiz,

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Gigaset'ten memnun kalmanızı ümit ediyoruz.

RU Уважаемыи покупатель!

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Мы надеемся, что продукты Gigaset удовлетворяют вашим требованиям.

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SIEMENS
mobile

Gigaset SE505 dsl/cable

Gigaset

Contents

Safety precautions 4

The Gigaset SE505 dsl/cable 5

Features and applications 6
Procedure for installation and configuration 8

First Steps 9

System requirements 9
Package contents 9
Operating displays and connections 10
- Front panel 10
- Back panel 12

Setting up the Gigaset SE505 dsl/cable 13
Installing the Gigaset SE505 dsl/cable 13
- Connecting a DSL or cable modem to the router 14
- Creating a LAN connection 15
- Activating 17

Configuring the local network 18

Network configuration for Windows 98, 98 SE, ME 19
- Setting up a PC as a Client for Microsoft Networks 19
- Selecting a computer name and workgroup 20
- Installing the TCP/IP protocol. 21
- TCP/IP protocol settings 22
- Deactivating the http proxy 26
- Synchronising the TCP/IP settings with the Gigaset SE505 dsl/cable 27

Network configuration with Windows XP 28
- Configuring the network 28
- Selecting a computer name and workgroup 30
- Checking the network settings and completing the installation procedure 30
- TCP/IP protocol settings 31
- Deactivating the http proxy 34
- Synchronising the TCP/IP settings with the Gigaset SE505 dsl/cable 35

Network configuration with Windows 2000 36
- Installing network services 36
- Selecting a computer name and workgroup 37
- Installing the TCP/IP protocol. 38
- TCP/IP protocol settings 40
- Deactivating the http proxy 42
- Synchronising the TCP/IP settings with the Gigaset SE505 dsl/cable 43

Checking the connection to the Gigaset SE505 dsl/cable 44

The user interface 45

Launching the user interface 45
Selecting the language 46
The start page 48
UI elements 49

General configuration with Basic Setup 51

Select Country 51
Configuring Internet access 52
Internet Service Providers for Germany and Austria 52
Other Internet providers 52
Testing the WAN connection and completing the configuration 57

Configuring security measures 59

Assign password 59
Setting the SSID and making it invisible 60
Setting the Encryption 61
WPA-PSK 61
WEP 63
Allowing selected PC's access your local network 64
Saving the router configuration and completing the setup 65

Configuration with Advanced Setup 66

Configuring wireless connections 67
Basic Settings 67
Setting the Encryption 69
WPA encryption 70
Access control to local network 72
Wireless Distribution System (WDS) 73
LAN Configuration 74
Defining the router's private IP address 74
Using the universal plug and play function 75
Configuring the DHCP server 76
WAN Configuration 78
Filtering Internet access 81
Preventing ping attacks from the Internet 81
Restricting access of local PC's to the Internet 81
Restricting access to certain Internet domains and sites 82
Setting up the router as a virtual server 82
Opening the firewall for selected PC's (DMZ) 83
Port Forwarding 84
Activating dynamic DNS 85

Administration of the Gigaset SE505 dsl/cable . . 86

Manually open or close an Internet connection 86
Setting the time and time zone 87
Set the time 87
Setting the Time Zone 88
Router management 89
Assign password 89
Setting the Remote Management 90
Restart the router 90
Firmware Upgrade 91
Saving and restoring a configuration 93
Displaying the router's Status 94
Overview 95
Wireless 96
PC's in the Local Network 97
Internet 98
Log File 99

Appendix 100

Fault tracing 100
Restoring the Router's factory settings 103
Specifications 104
Authorisation 105
Open Source Software and GNU General Public License 106
Service (Customer Care) 110

Glossary 124

Index 134

Safety precautions

- Only use the mains adapter (12V DC 1A) that is supplied with the Gigaset SE505 dsl/cable. Comply with the connection values and ratings when connecting the device to the mains.
- Protect the equipment from moisture.
- Never open the device. For electrical safety reasons it may only be opened by authorised service technicians.
- The router may affect medical equipment. Take account of the technical conditions in the relevant environment.
- Make sure you include these operating instructions when you pass on your Gigaset SE505 dsl/cable to someone else.
- Please dispose of the Gigaset SE505 dsl/cable in an environmentally friendly manner.

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Microsoft, Windows 98, Windows 98 SE, Windows ME, Windows 2000, Windows XP and Internet Explorer are registered trademarks of the Microsoft Corporation.

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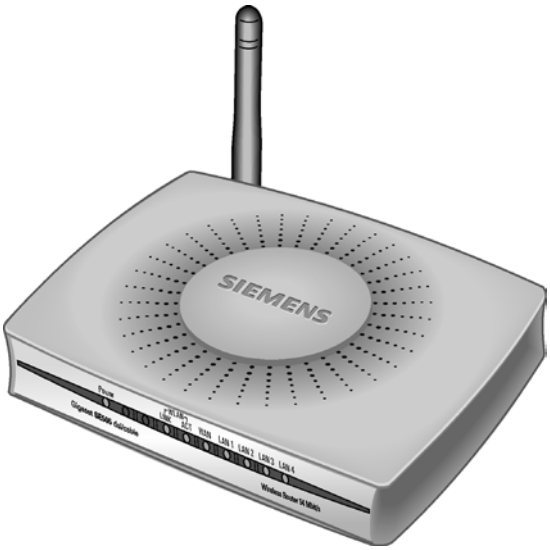
The Gigaset SE505 dsl/cable

The Siemens Gigaset SE505 dsl/cable is a powerful but simple communications device for connecting your PC or local network (LAN) to the Internet (WAN).



The Gigaset SE505 dsl/cable permits Internet access for several users. A single user account can be shared, if your Internet Service Provider permits this. If you want to surf the Internet at the lowest possible cost, then the Gigaset SE505 dsl/cable is a convenient and effective solution.

You can connect either a DSL or cable modem to the WAN socket of your Gigaset SE505 dsl/cable.

The Gigaset SE505 dsl/cable is programmed with numerous functions and is simple to handle. It can be configured and operational within a few minutes.

Features and applications

The Gigaset SE505 dsl/cable's wide range of features make it ideal for a large number of applications, such as:

- **Setting up a local network**

  The Gigaset SE505 dsl/cable provides connections
  - for four devices via Ethernet ports with a transmission speed of 10 or 100 Mbps.
  - for up to 253 mobile terminals via a wireless interface with a transmission speed of 54 Mbps. Here it complies with Standard IEEE 802.11g – i.e. the router can be used together with products of several other manufacturers.

  Using a Gigaset SE505 dsl/cable makes it easy to set up a network at home or in small offices. For example, users can exchange data or share resources on the network, such as a file server or printer.

  With the Gigaset devices for wireless networks you can operate a LAN – as envisaged in Standard IEEE 802.11 – in Ad-hoc mode and in Infrastructure mode.

  The Gigaset SE505 dsl/cable supports DHCP for dynamic IP configuration of the local network and DNS for Domain name mapping.

- **Internet access**

  The Gigaset SE505 dsl/cable permits Internet access via a WAN socket with a transmission speed of 10 or 100 Mbps. You can connect a DSL or cable modem to this socket.
  - Since many DSL providers permit communication with end users with the PPPoE protocol, the Gigaset SE505 dsl/cable has an integrated Client for this protocol, so you no longer have to install this service on your computer.
  - Shared IP address
    If your Internet Service Provider permits this, the Gigaset SE505 dsl/cable can make do with a single IP address for up to 253 users. Several users on your network can then surf the Internet at the same time using only one Internet Service Provider account.

- **Virtual Private Network (VPN)**

  The Gigaset SE505 dsl/cable supports three of the most common Protocols for setting up a Virtual Private Network: PPTP, L2TP and IPSec. This allows you to connect devices at different locations via the Internet securely, if your Internet Service Provider offers this service.

- **Protection against unauthorised access from the Internet**

  The Gigaset SE505 dsl/cable offers comprehensive security measures such as:

  – Firewall
  All the PC's in the local network use the router's Public IP address for their Internet connections, which makes them 'invisible' on the Internet. The router only allows access from the Internet if it has been requested from the local network.
  – With its firewall, the Gigaset SE505 dsl/cable also offers comprehensive protection from attack by hackers.

- **Offering your own services on the Internet**

  – If you want to offer your own services on the Internet, you can configure the router as a virtual server without permitting further access to the local network.
  – DMZ
  This allows you to release a PC on your local network for unrestricted access from the Internet without compromising the security of the other PC's.

- **Restricting Internet access**

  You can configure the Gigaset SE505 dsl/cable so that Internet access is blocked or limited for various users. You can also use filters to control which PC's are able to use which Internet services, and you can disable access to certain Internet domains and sites.

Important information:

i	On the CD supplied you will find a document entitled "Practical Tips and Configuration Examples" which describes many of the uses of the Gigaset SE505 dsl/cable in full detail together with their configuration settings.

Procedure for installation and configuration

1. First install an Ethernet network card or a wireless Network adapter such as the Gigaset PCI Card 54 or Gigaset PC Card 54 in the PC's you want to connect with the Gigaset SE505 dsl/cable. The installation procedure can be found in the product's User Guide.

i	When installing wireless network adapters you should note the following: The default SSID of the Gigaset SE505 dsl/cable is **ConnectionPoint**.

2. Now install the router (refer to the section entitled "Installing the Gigaset SE505 dsl/cable" on page 13).
3. Before the PC's can communicate with the router and with each other in a local network, you have to change their network settings. Configure these network settings on **one** PC first so that it can establish a connection to the router. You can then use that PC to configure the router. To find out how to do this, refer to "Configuring the local network" on page 18.
4. In a wireless connection you establish the link from the PC's wireless network adapter to the router. This is described in the network adapter's operating instructions.
5. Now configure the router to activate the router's Internet access (refer to the section "General configuration with Basic Setup" on page 51).

   This will require the access data from your Internet Service Provider.
6. If you want to connect more PC's to the router, configure their network settings to set up the local network (refer to the section entitled "Configuring the local network" on page 18).
7. If you wish to use the router's other functions, e.g. the comprehensive security features, use the router's Security Setup (see page 59) or Advanced Setup (see page 66).

First Steps

System requirements

To operate your Gigaset SE505 dsl/cable you need

- a PC with
  - a Gigaset PCI Card 54, a Gigaset USB Adapter 54, a Gigaset PC Card 54 or other 802.11g-compatible wireless Network adapter

i	You can also use an 802.11b-compatible network adapter such as the Gigaset PC Card 11 or Gigaset USB Adapter 11. However you will not be able to use the full transmission speed of the Gigaset SE505 dsl/cable of 54 Mbps. The 802.11b-compatible products have a maximum transmission speed of 11 Mbps.

  or
  - an Ethernet network card
- a Web browser, such as Microsoft Internet Explorer 5.0 or higher, Netscape Navigator 6.2 or higher for configuring your router
- for Internet access: a DSL or cable modem and the access data of your Internet Service Provider.

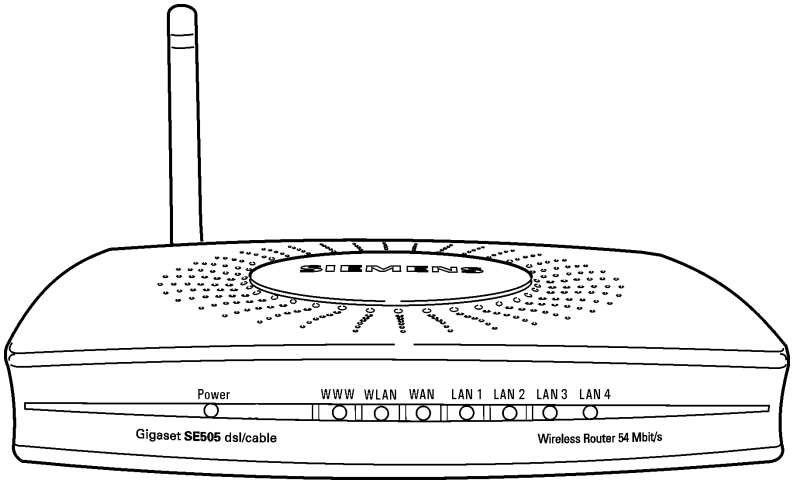
Package contents

The package contains the following items:

- the Gigaset SE505 dsl/cable
- a mains adapter (12V DC 1A)
- an Ethernet cable (CAT-5)
- the Installation CD including these operating instructions and the document "Practical Tips and Configuration Examples"
- a quick installation guide

Operating displays and connections

Front panel



LED displays

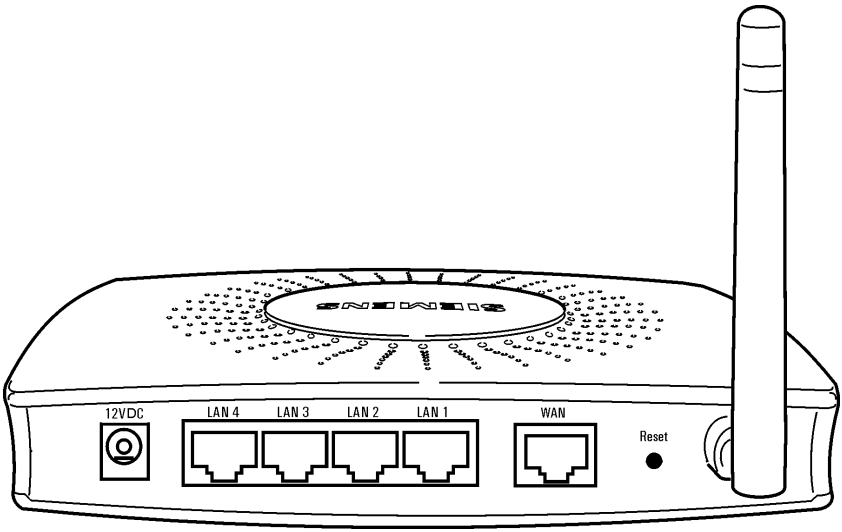
The front panel of the Gigaset SE505 dsl/cable contains LED displays that show the operating state and simplify installation and fault finding in the network.

The LED's show the following:

LED	State	Status
Power	On	The Gigaset SE505 dsl/cable is on.
	Off	The Gigaset SE505 dsl/cable is off.
WWW	On	There is an Internet connection.
	Off	There is no Internet connection.
	!	The WWW LED indicates the correct status when the connection is opened or closed directly by the router. This happens when the DSL connection is configured with the PPPoE or PPTP protocol in the Gigaset SE505 dsl/cable.
WLAN	Flashing	The Gigaset SE505 dsl/cable is sending or receiving data on its wireless interface.
	Off	The wireless interface is not active.

LED	State	Status
WAN	On	A DSL or cable modem is connected.
	Flashing	The WAN port is sending or receiving data (traffic).
	Off	There is no modem connected, or the Gigaset SE505 dsl/cable is off.
LAN1 - LAN4	On	A device is connected to the relevant LAN port.
	Flashing	The LAN port is sending or receiving data (traffic).
	Aus	There is no device connected, or the Gigaset SE505 dsl/cable is off.

Back panel



The back panel of the Gigaset SE505 dsl/cable houses the various sockets.

Element	Description
12V DC	Socket for the mains adapter supplied. **Warning**: Using the wrong power supply unit may damage the router.
Reset	Reset function. Use this button to ◆ boot the router. To do this hold the button down for one second. ◆ reset all settings to the factory default settings (see page 103). **Warning:** This will clear all the configuration settings you have made. Updated firmware will not be affected.
WAN	WAN socket (RJ-45) for a DSL or cable modem.
LAN1 - LAN4	Four 10/100 Mbps switch sockets with automatic recognition (RJ-45). You can connect up to four Ethernet devices (such as PCs, a Hub or Switch).

Setting up the Gigaset SE505 dsl/cable

The Gigaset SE505 dsl/cable can be set up in any suitable location in the home or office. You do not need any special wiring. However you should comply with the following guidelines:

- Operate the Gigaset SE505 dsl/cable only indoors within a temperature range of +5 to +40 °C. Do not position the Gigaset SE505 dsl/cable near a heat source. Do not cover the ventilation slots. High temperatures will reduce the transmitter range.
- A mains socket for 220/230V~ and a connection socket for the DSL modem, cable modem or LAN must be available where you set up the Gigaset SE505 dsl/cable.
- Do not site the router in the immediate vicinity of stereo equipment, TV sets or microwave ovens as this may cause interference.
- Position the Gigaset SE505 dsl/cable so that it is as near to the centre of your wireless network as possible. The general rule is: The higher you place the antenna, the better the performance. Make sure that where you position the Gigaset SE505 dsl/cable has optimum reception throughout the house or office.
- Position the Gigaset SE505 dsl/cable on a non-slip surface.

  The router feet do not normally leave any traces on the surface they are on. However, some furniture surfaces may contain substances that attack and soften the router's plastic feet. Then the feet may well mark the furniture surface.
- Position the Gigaset SE505 dsl/cable so that it cannot fall down and damage the antenna.
- Lay the cables so that nobody can trip over them. You should not cover the cables with anything.
- Protect the Gigaset SE505 dsl/cable from moisture.

Installing the Gigaset SE505 dsl/cable

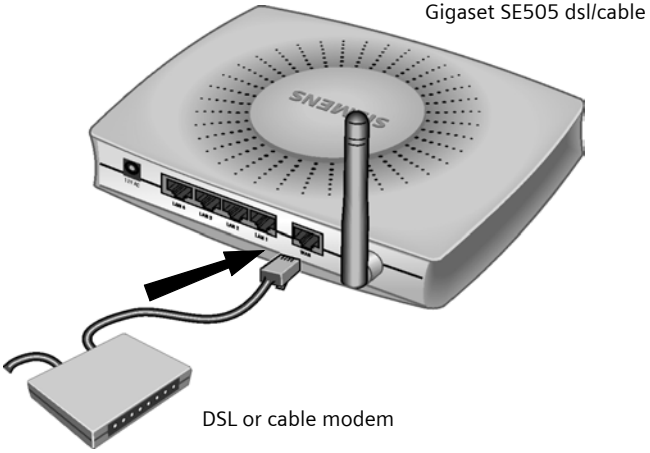
!	◆ Only use the router with the mains adapter (12V DC 1A) that is supplied. ◆ Do not plug any phone jack connectors into the router WAN and LAN sockets. ◆ Use standard network cables for all connections (CAT-5) for the WAN and LAN connections. ◆ An Ethernet cable must not be longer than 100 metres.

Before you start connecting PC's to your Gigaset SE505 dsl/cable make sure that

- a wired or wireless Network adapter is connected to the PC. Please read the operating instructions that came with the adapter. The latest PC's and Notebooks have wired adapters built in at the factory.
- **ConnectionPoint** has been entered as SSID on the network adapter.

Connecting a DSL or cable modem to the router

Connect the socket on the back of the router marked ***WAN*** and your DSL or cable modem with an Ethernet cable.



i	Use a 100-Ohm shielded or unshielded 3, 4 or 5 category Ethernet cable with RJ-45 jacks on both ends for all connections. Please bear in mind that the cable you use must be the right one for the modem (either straight or crossed wiring). Please consult your modem operating instructions. The Ethernet cable supplied has straight wiring.

Creating a LAN connection

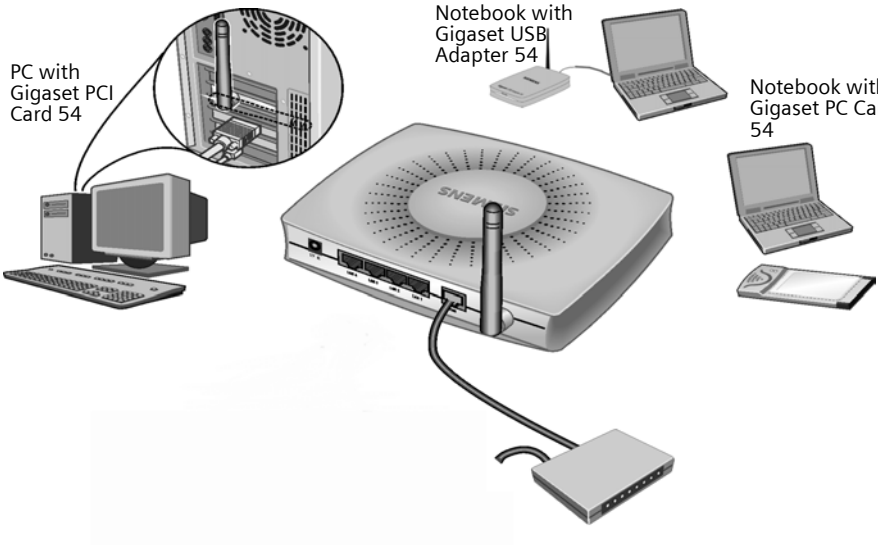
You can connect PC's to your router in wireless or wired mode and so set up a local area network (LAN).

Wireless

A wireless connection is established by a wireless network adapter installed in your PC. This could be, for example, a Gigaset PCI Card 54, a Gigaset USB Adapter 54, a Gigaset PC Card 54 or other 802.11g or 802.11b-compatible wireless network adapter.

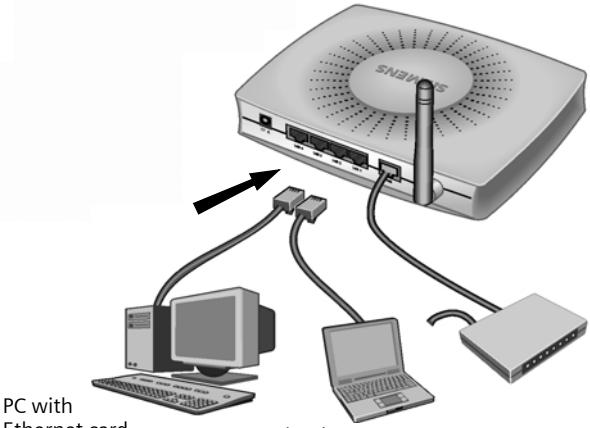
You define a Wireless network by assigning all the devices an identical SSID. Assign the router's SSID to the network adapters. The factory setting for the router's SSID is **ConnectionPoint**.

If the correct SSID has been entered in your PC's wireless network adapter, the wireless link will be established automatically once you connect your router to the mains power supply (see page 17).



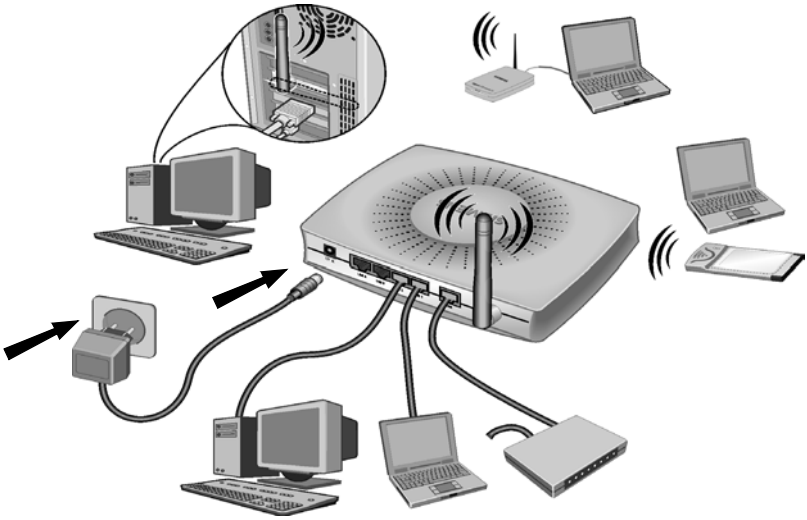
Wired

Insert one end of the supplied Ethernet cable in one of the LAN sockets (***LAN1*** - ***LAN4***) on the back of the router and the other end in the PC's Ethernet network card. The four LAN sockets can automatically set the transmission speed to 10 Mbps Ethernet or 100 Mbps Fast Ethernet and the transmissions mode to Half duplex or Full duplex depending on the performance of the network adapter in your PC.



Activating

Connect the mains adapter cable to the 12V DC socket on the router. Plug the mains adapter into a mains socket.



This activates the Gigaset SE505 dsl/cable. The power LED on the front lights up. The power LED and the WAN LED on the front light up, indicating that the modem is connected.

The LAN LEDs light up if a device is connected to the corresponding LAN connection.

The LED WLAN lights up, indicating that the wireless interface of the Gigaset SE505 dsl/cable has been activated.

The wireless link to the PC's connected via a wireless network adapter will be established automatically if their network adapters have been configured with the same SSID as the router (see page 15). It can take a few seconds for the wireless connection to be established.

The WLAN and LAN LEDs flash when data is being transferred between the PC and the corresponding router connection.

If this is not the case, please turn to "Fault tracing" on page 100.

Configuring the local network

Once you have set up the hardware and connected all the devices, you have to configure the network settings of all the PC's that will communicate with each other via the Gigaset SE505 dsl/cable.

The LAN is set up as a TCP/IP network. You will have to make certain choices during the configuration procedure. The most important decision is whether you want to use the router's DHCP service or not. The router uses DHCP (Dynamic Host Configuration Protocol) to assign Dynamic IP addresses to the network components, i.e. it automatically assigns a PC that logs in an IP address from a defined range of addresses. The next time the PC logs on it may well be assigned a different IP address. How to configure the router's dynamic address assignment is described on page 74 of the section "LAN Configuration".

In this chapter we assume that you will use the router's DHCP service. This is also the router's default setting.

In many cases however it is advisable to assign Static (fixed) IP addresses, e.g. if you wish to run a wireless network in Ad-hoc mode. How to assign fixed IP addresses is described in "Practical Tips and Configuration Examples" on the CD supplied.

If your network has already been set up you can read on from page 45 in the chapter "The user interface".

The network configuration varies depending on the Windows operating system you are using. You will find the procedure described below for Windows 98 from page 19, for Windows XP from page 28 and for Windows 2000 from page 36.

Have your Windows Installation CD to hand. You may be prompted to insert it.

i	The Windows user interfaces depicted in this guide may differ from those on your screen because of the settings you have made. The illustrations always reflect the state after immediate installation.

Network configuration for Windows 98, 98 SE, ME

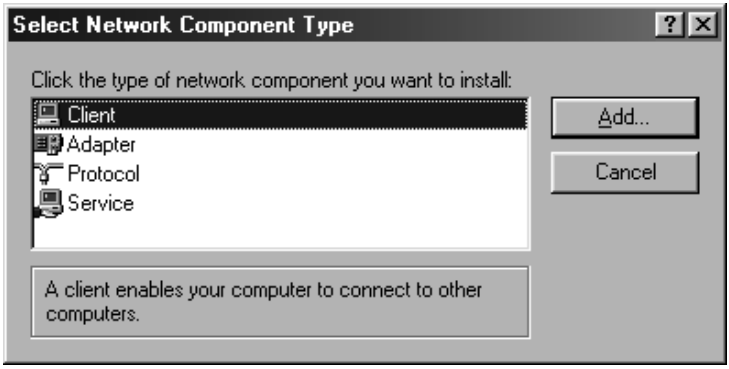
To integrate a PC with Windows 98, 98 SE or ME in a local network, you must carry out the following steps:

1. Set up the PC as the Client for Microsoft Networks (see below).
2. Select computer names and workgroup (see page 20).
3. Install the TCP/IP protocol (see page 21).
4. Make TCP/IP protocol settings (see page 22).
5. Deactivate the http proxy (see page 26).
6. Synchronise the TCP/IP settings to the Gigaset SE505 dsl/cable (see page 27).

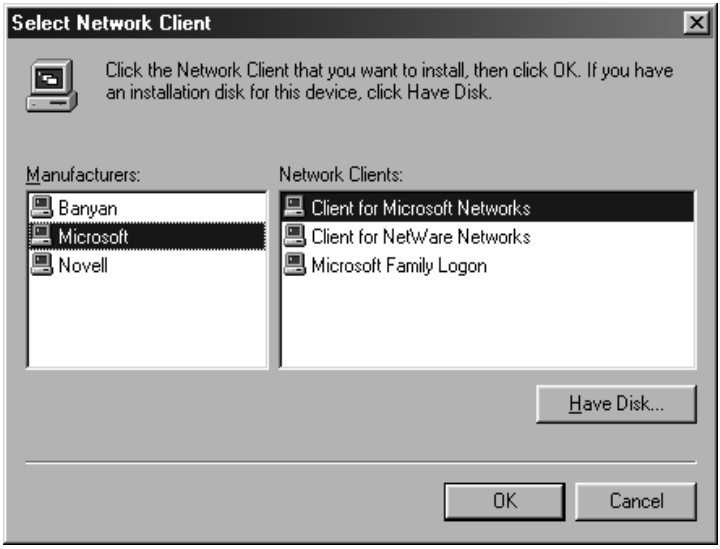
Setting up a PC as a Client for Microsoft Networks

Before the PC's on your network can work together, you have to configure them as Microsoft Network Clients. This is done as follows:

- Click on ***Start*** – ***Settings*** – ***Control Panel***.
- Double click on the ***Network*** icon and open the ***Configuration*** tab in the ***Network*** window.
- Check whether the list of components contains the entry ***Client for Microsoft Networks***.
- If it is not there click on ***Add***.



- Select ***Client*** as the network component type and click on ***Add***.



- Select in ***Manufacturers*** the entry ***Microsoft*** and in ***Network clients*** the entry ***Client for Microsoft Networks***.
- Confirm this with ***OK***.

Selecting a computer name and workgroup

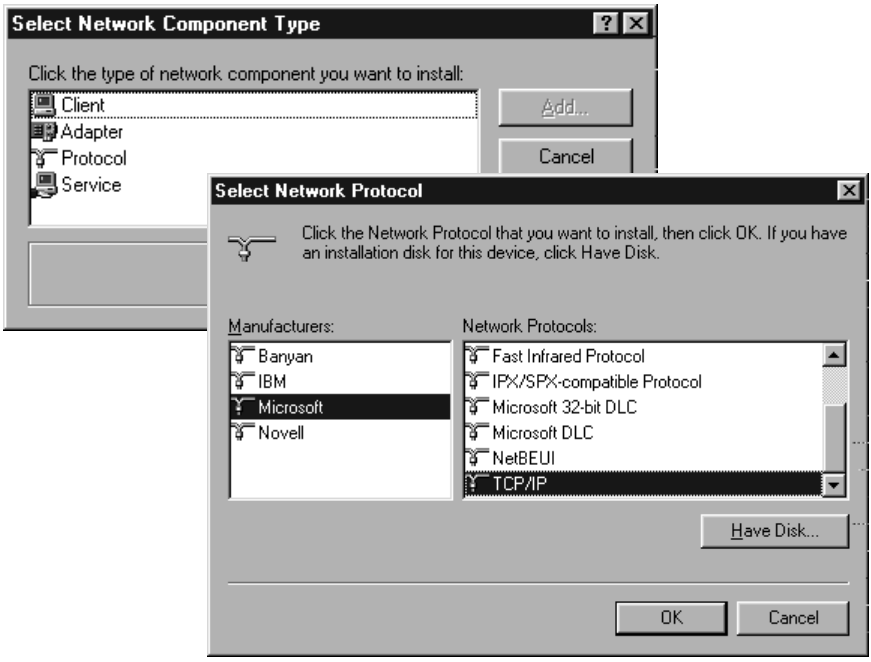
You now have to specify a name for the PC and assign it to a workgroup.

- In the ***Network*** window move from the ***Configuration*** tab to the ***Identification*** tab.
- In the ***Computer Name*** box, enter the name the PC is to appear under in the network. This name must be unique within the network.
- In the ***Workgroup*** box, type a name for the workgroup. This name must be the same for all the PC's in the network.
- The ***Description*** box can be left empty.

Installing the TCP/IP protocol.

The TCP/IP protocol ensures that the PC's in the network can communicate with each other. You must first install this Protocol for the network adapter that establishes the connection to the Gigaset SE505 dsl/cable.

- In the ***Network*** window move from the ***Identification*** tab to the ***Configuration*** tab.
- In the ***Network*** window, check that there is a TCP/IP -> entry for your network card or network adapter in the list of components. If you are using a Gigaset PCI Card 54 as the wireless network adapter for example, then there must be an entry called ***TCP/IP -> Siemens Gigaset PCI Card 54***.
- If the entry does not exist, click on ***Add***.

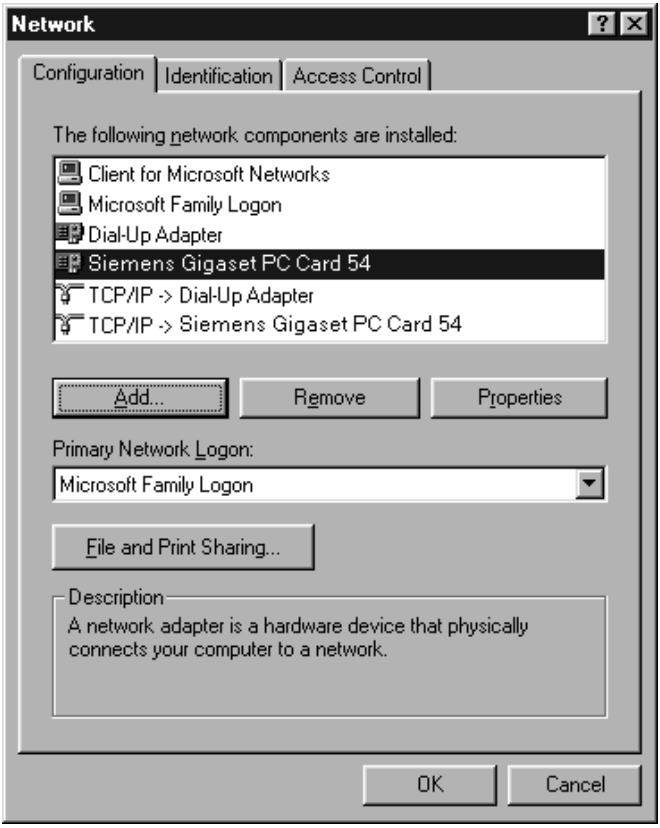


- Select ***Protocol*** as the network component type and click on ***Add***.
- In ***Manufacturers*** select ***Microsoft*** and in ***Network Protocols*** select ***TCP/IP*** before confirming with ***OK***.

TCP/IP protocol settings

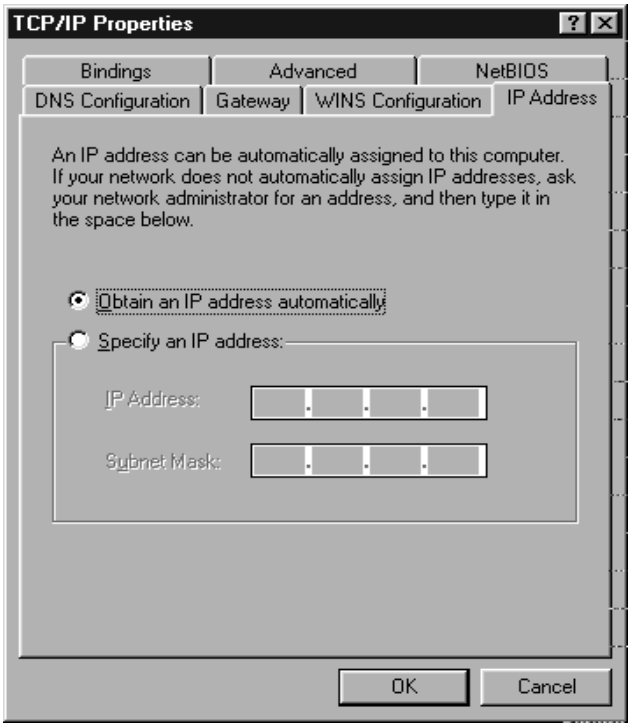
The TCP/IP protocol requires certain settings which you will now make so that it can function smoothly.

- To do this, open the ***Configuration*** tab in the ***Network*** window.
- Select the ***TCP/IP >*** entry for your network card.



- Click on ***Properties***.

- Open the ***IP Address***.tab.



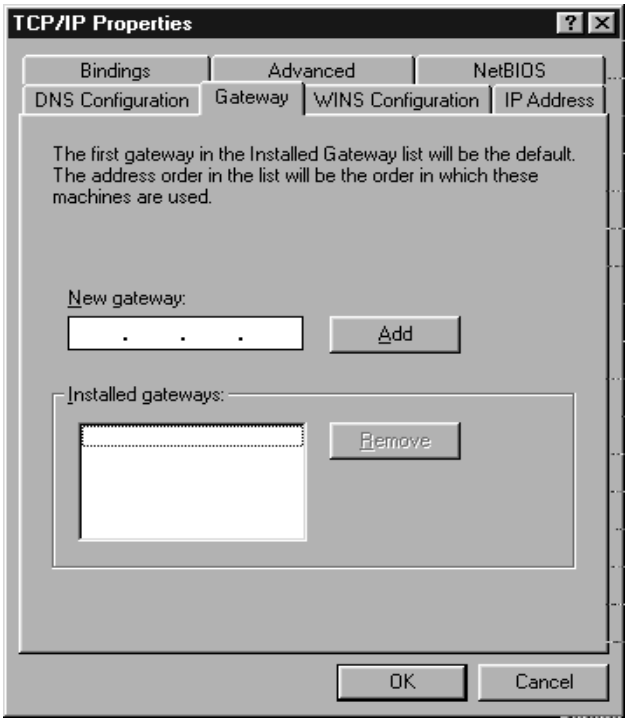
- If ***Obtain an IP address automatically*** has already been activated, your PC is already configured for DHCP. Click on ***Cancel*** and close the next windows with ***OK*** to run network configuration.

  You may be prompted to insert your Windows Installation CD. Follow the instructions in the installation procedure.

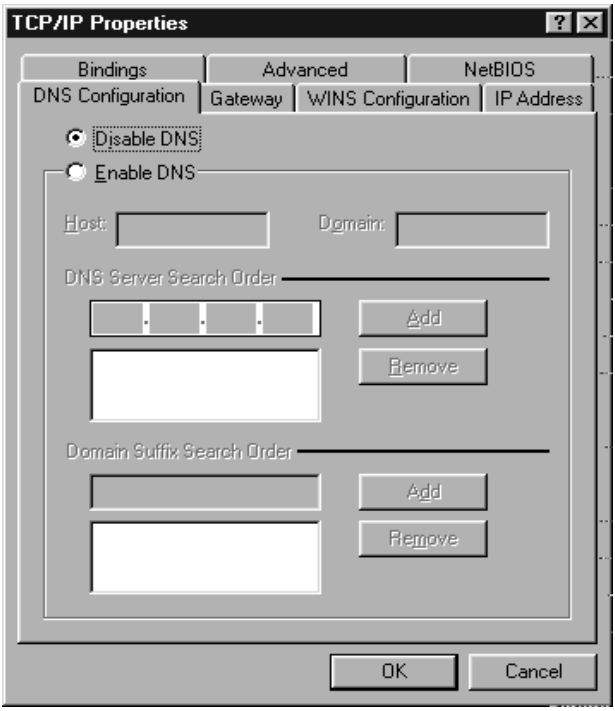
  Once the copying procedure is completed, you will be prompted to reboot your system. Click on ***Yes***. The computer will then be rebooted.

  Then read on from page 26.
- If ***Obtain an IP address automatically*** has not been activated, activate this option now.

- Open the *Gateway* tab and remove any entries from the ***Installed Gateways*** list.



- Open the ***DNS Configuration*** tab. Select ***Deactivate DNS***.



- Click on ***OK.***
- Finish the network configuration with ***OK.***

  You may be prompted to insert your Windows Installation CD. Follow the instructions in the installation procedure.

  Once the copying procedure is completed, you will be prompted to reboot your system. Click on ***Yes***. The computer will then be rebooted.

Deactivating the http proxy

Make sure that the http proxy in your Web browser is deactivated. This function must be deactivated so that your Web browser can access your Gigaset SE505 dsl/cable's configuration pages.

The following section describes the procedure for Internet Explorer and Netscape. First decide which browser you are using and then follow the appropriate steps.

Internet Explorer

- Open Internet Explorer. Click on ***Extras*** – ***Internet Options***.
- In the ***Internet Options*** window click on the ***Connections*** tab.
- Click on ***LAN Settings***.
- Clear all the check boxes in the ***Local Area Network (LAN) settings*** window and click on ***OK***.
- Click on ***OK*** again to close the ***Internet Options*** window.

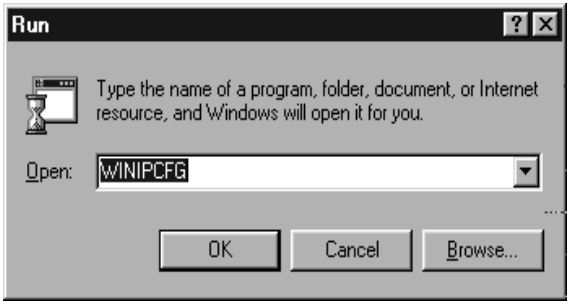
Netscape

- Open Netscape. Click on ***Edit*** and then ***Settings***.
- Double click on ***Advanced Category*** in the ***Settings*** windows and then click on ***Proxies***.
- Select ***Direct Connection to Internet***.
- Click on ***OK*** to finish.

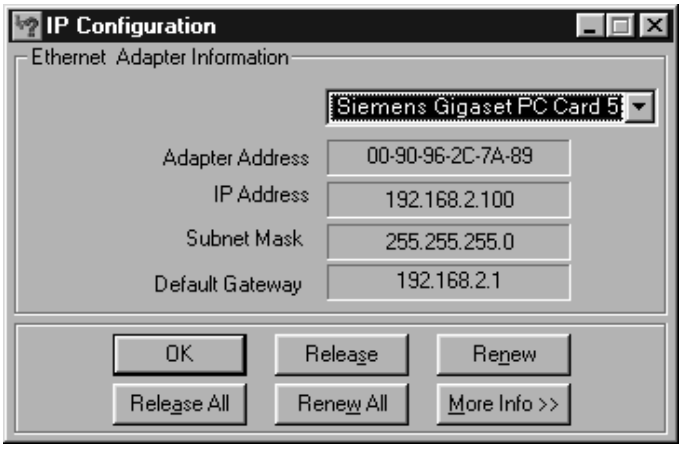
Synchronising the TCP/IP settings with the Gigaset SE505 dsl/cable

You have now configured your PC so that it is ready to be connected to the Gigaset SE505 dsl/cable. You now have to release the old TCP/IP settings and match them to the settings of your Gigaset SE505 dsl/cable.

- Click on ***Start*** – ***Run***.
- Type *WINIPCFG* and click on ***OK***.



There may be a slight delay before the ***IP Configuration*** appears.



- Select your network adapter from the selection list.
- Click on ***Release*** and then ***Update***.

  If the router's default IP address (192.168.2.1) was not changed, the IP address should now read 192.168.1.x (x being a number between 2 and 254). The ***Subnet Mask*** must always be 255.255.255.0 and the ***Default Gateway*** must have the router's IP address (192.168.2.1). These values confirm that your Gigaset SE505 dsl/cable is working.
- Click on ***OK*** to close the ***IP Configuration*** window.

Network configuration with Windows XP

To integrate a PC with Windows XP into a network that is configured with a Gigaset SE505 dsl/cable:

1. Configure the network (see below).
2. Select computer names and workgroup (see page 30).
3. Check the network settings and complete the installation procedure (see page 30).
4. Make TCP/IP protocol settings (see page 31).
5. Deactivate the http proxy (see page 34).

Configuring the network

Configuring the network in this case means selecting ***Internet connection*** as the connection method. You can do this with the network wizard.

- Select ***Start*** – ***Control Panel***.
- Select ***Network and Internet connections***.
- Now select ***Set up or modify home network or small office network***.

This launches the network wizard.

- Skip the welcome screen and the checklist by clicking on ***Next*** each time.

You will be prompted to select a connection method.

- Select ***Other Method*** and confirm with ***Next***.
  You will now see a screen listing various connection methods.

- Select ***This computer connects directly to the Internet. The other computers on my network connect to the Internet through this computer.*** and click on ***Next***.
- In the next window select your network adapter and click on ***Next***.
- Skip the message ***"This network configuration is not advisable"*** with ***Next***.

Selecting a computer name and workgroup

You now have to specify a name for the PC and assign it to a workgroup.

- Enter the name the PC is to appear under in the network. This name must be unique within the network. You can complete the ***Computer description*** box or leave it empty. Then click on ***Next***.
- Enter a name for the workgroup the computer is to belong to. This name must be identical for all the PC's in the network. Continue with ***Next***.

Checking the network settings and completing the installation procedure

You will now see a screen in which you can check the settings you have made and make any changes you want.

- Click on ***Back*** if you want to make any changes or click on ***Next***, if you want to leave them unchanged.

If you do not want to install any more PC's:

- Select ***Only finish the wizard, as it is not run on other computers*** and confirm twice with ***Next***.
- Answer the prompt ***Do you want to restart your computer now?*** with ***Yes***.

If you want to set up a network on other PC's with Windows XP, you can now create a network installation disk.

- Select ***Create a network installation disk*** and click on ***Next***.
- Follow the screen instructions and insert a disk. The necessary data will now be copied. Now label the disk as ***Network installation***.
- Confirm the next two screens with ***Next*** and complete the installation procedure by rebooting the PC.

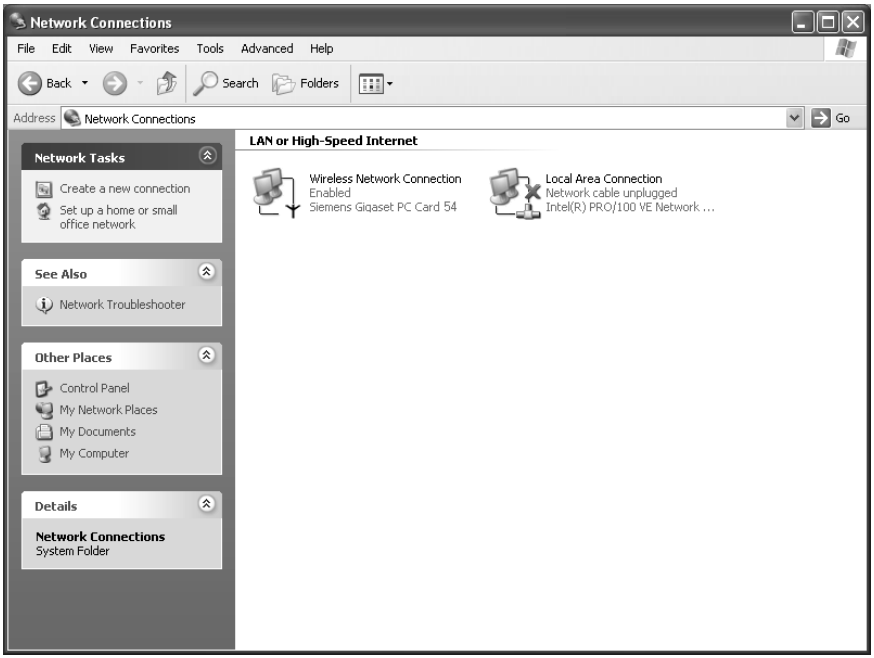
After this your "home network" will have been installed.

To set up the network on the other PC's with the same settings, insert the disk in the drive and run ***Netsetup*** with a double click.

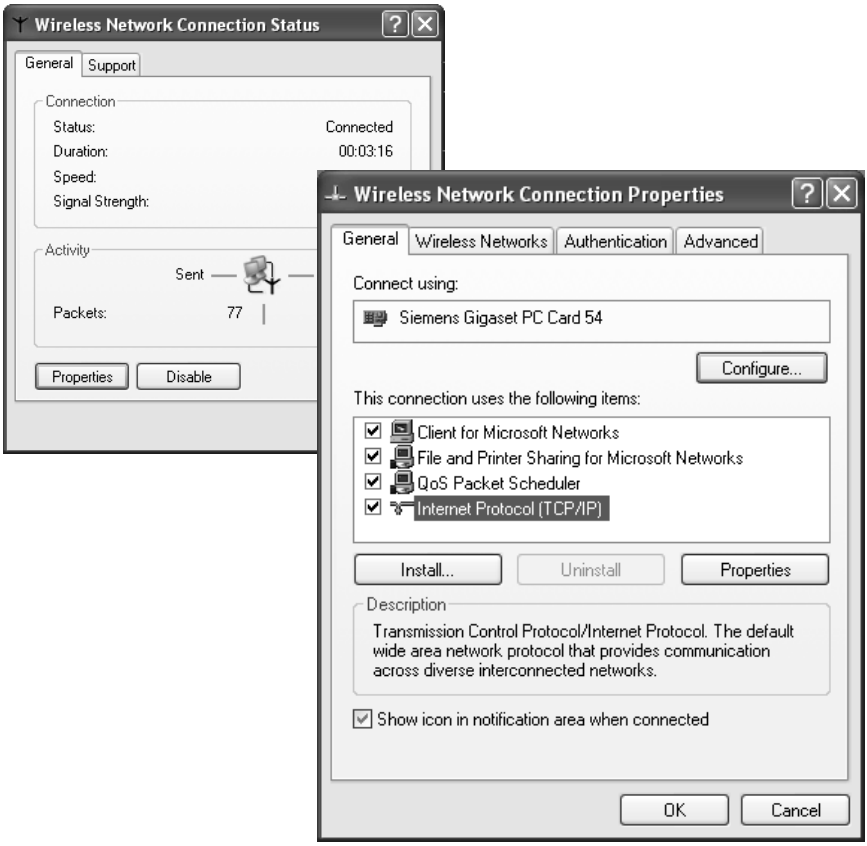
TCP/IP protocol settings

The TCP/IP-Protocol requires certain settings which you should now make or check so that it can function smoothly.

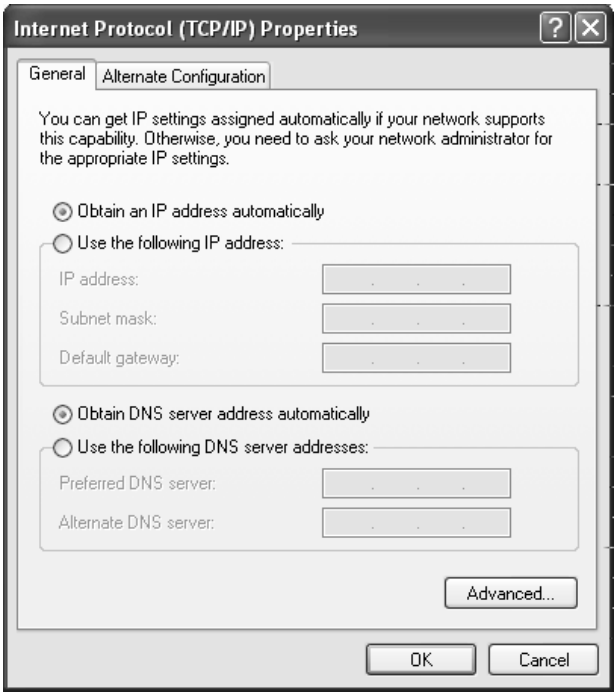
- Click on ***Start*** and select ***Control Panel***.
- Select ***Network and Internet connections*** and then click on the ***Network connections*** icon.



- Double click on the LAN connection with which you are connected to the router.



- Click on ***Properties***.
- Select ***Internet protocol (TCP/IP)*** and click on ***Properties***.



- If the ***Obtain an IP address automatically*** and ***Obtain DNS server address automatically*** options have already been activated, your PC is already configured for DHCP. Click on ***Cancel*** and close the next windows with ***OK*** to save your network configuration.
- If the ***Obtain an IP address automatically*** and ***Obtain DNS server address automatically*** options have not been activated, activate them now and click on ***OK***. Close the following screens.

Deactivating the http proxy

Make sure that the http proxy in your Web browser is deactivated. This function must be deactivated so that your Web browser can access your Gigaset SE505 dsl/cable's configuration pages.

The following section describes the procedure for Internet Explorer and Netscape. First decide which browser you are using and then follow the appropriate steps.

Internet Explorer

- Open Internet Explorer and click on ***Stop***. Click on ***Extras*** and then ***Internet Options***.
- In the ***Internet Options*** window click on the ***Connections*** tab.
- Click on ***Settings***.
- Clear all the check boxes in the ***Local Area Network (LAN) settings*** window.
- Click on ***OK*** and then ***OK*** again to close the ***Internet Options*** window.

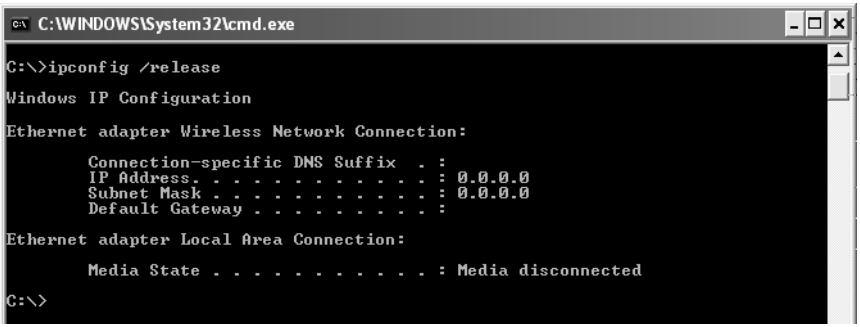
Netscape

- Open Netscape. Click on ***Edit*** and then ***Settings***.
- Double click on ***Advanced Category*** in the ***Settings*** window and then click on ***Proxies***.
- Select ***Direct Connection to Internet***.
- Click on ***OK*** to finish.

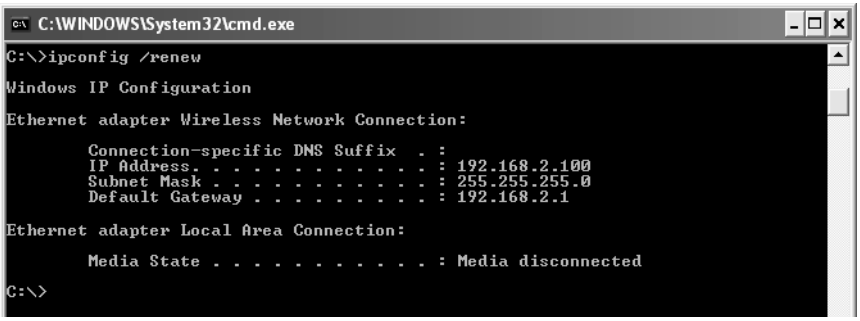
Synchronising the TCP/IP settings with the Gigaset SE505 dsl/cable

You have now configured your computer so that it is ready to be connected to the Gigaset SE505 dsl/cable. You now have to release the old TCP/IP settings and synchronise them with the settings of your Gigaset SE505 dsl/cable.

- Click on ***Start*** on the Windows Desktop and then ***Programs***, followed by ***Accessories*** and finally ***Command prompt***.
- In the ***Command prompt*** window enter the *ipconfig /release* command and press the ENTER KEY.



- Then enter the *IPCONFIG /RENEW* command and press the ENTER KEY.



If the router's default IP address (192.168.2.1) was not changed, the IP address should now read 192.168.1.x (x being a number between 2 and 254). The ***Subnet Mask*** must always be 255.255.255.0 and the ***Default Gateway*** must have the router's IP address (192.168.2.1). These values confirm that your Gigaset SE505 dsl/cable is working.

- Enter *EXIT* and press the Enter Key to close the ***Command prompt*** window.

Network configuration with Windows 2000

To integrate a PC with Windows 2000 into a network that is configured with a Gigaset SE505 dsl/cable:

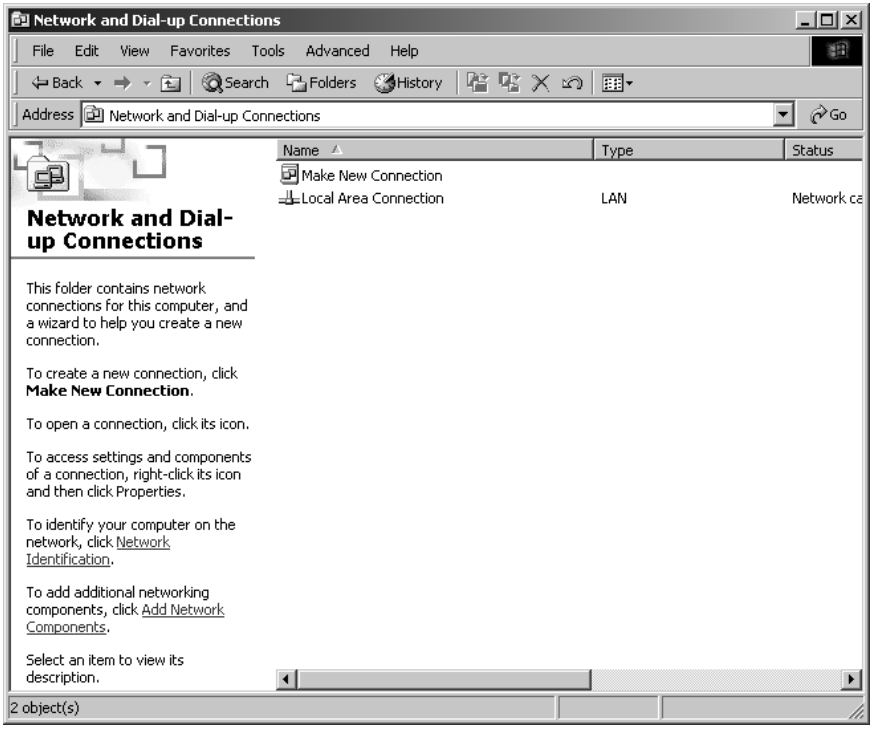
1. Install the network services (see below).
2. Select computer names and workgroup (see page 37).
3. Install the TCP/IP protocol (see page 38).
4. Make TCP/IP protocol settings (see page 40).
5. Deactivate the http proxy (see page 42).
6. Synchronise the TCP/IP settings to the Gigaset SE505 dsl/cable (see page 43).

Installing network services

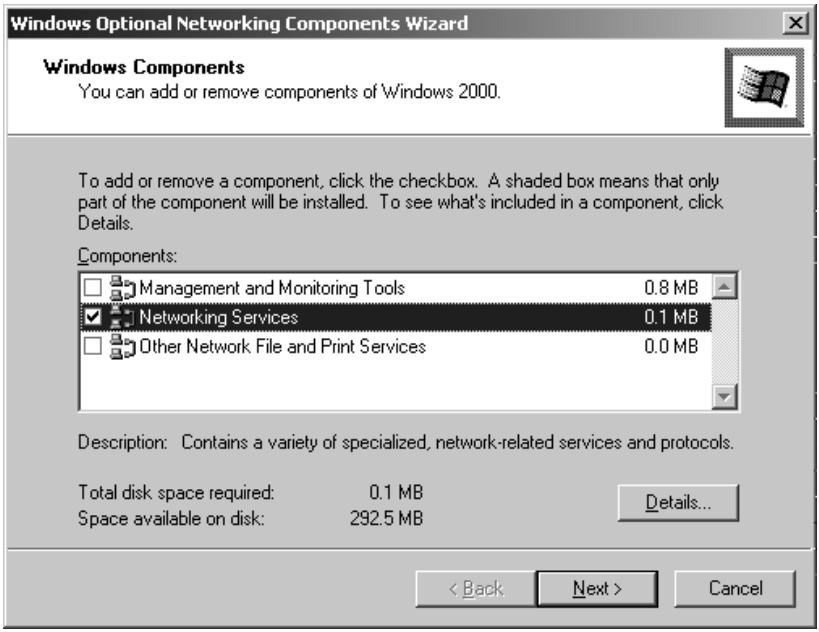
You have to install the network services before the PCs in your network can access shared resources. This is done as follows:

1. Click on ***Start*** – ***Settings*** – ***Control Panel***.

◆ Double click on the ***Network and dial-up connections*** icon.



◆ In the left-hand pane click on ***Add Network Components***.



- Select ***Networking Services*** and click on ***Next***.
- You will now be prompted for the Windows installation CD. Insert the WIN2000 CD and click on the ***OK*** button to install all the required components.

Selecting a computer name and workgroup

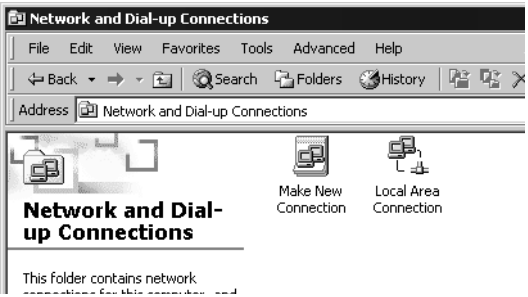
You now have to specify a name for the PC and assign it to a workgroup.

- In the left-hand pane click on ***Network Identification*** and then ***Properties***.
- In the ***Computer Name*** box, enter the name the PC is to appear under in the network. This name must be unique within the network.
- In the ***Workgroup*** box, type a name for the workgroup. This name must be the same for all the PC's in the network.
- Confirm this with ***OK***.

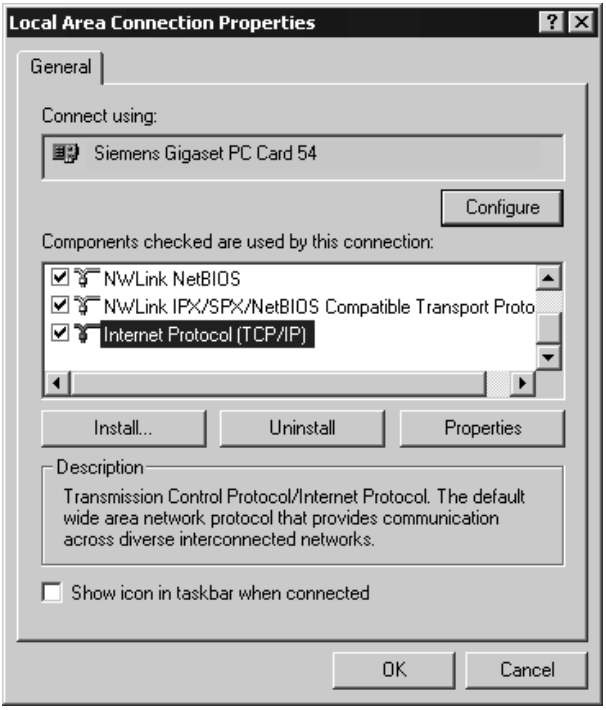
Installing the TCP/IP protocol.

The TCP/IP protocol ensures that the PC's in the network can communicate with each other. You now have to install this Protocol.

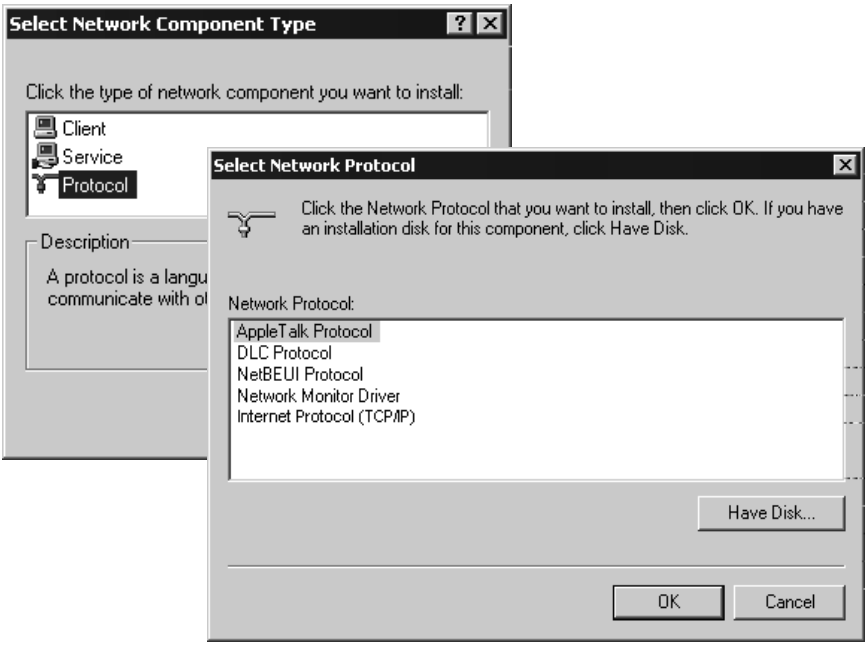
- Right click to open ***Local Area Connection***.



- In the next window click on ***Properties***.



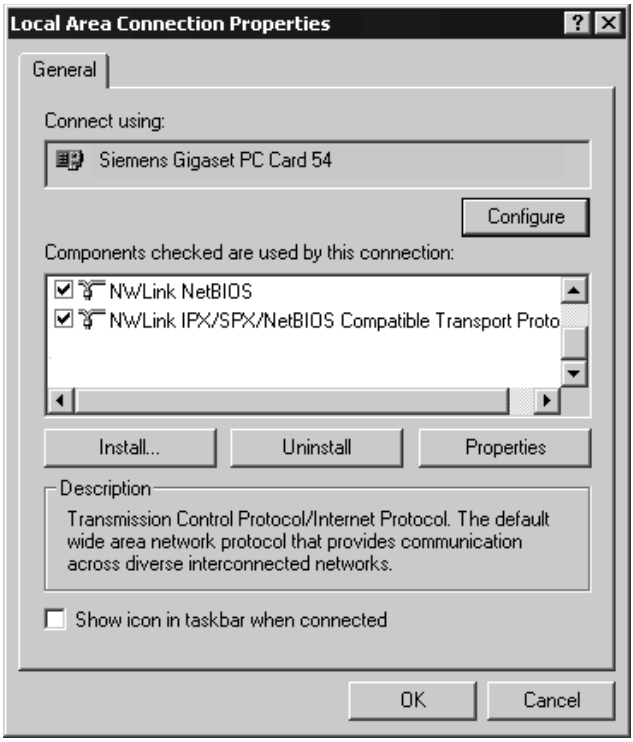
- Click on ***Install***.



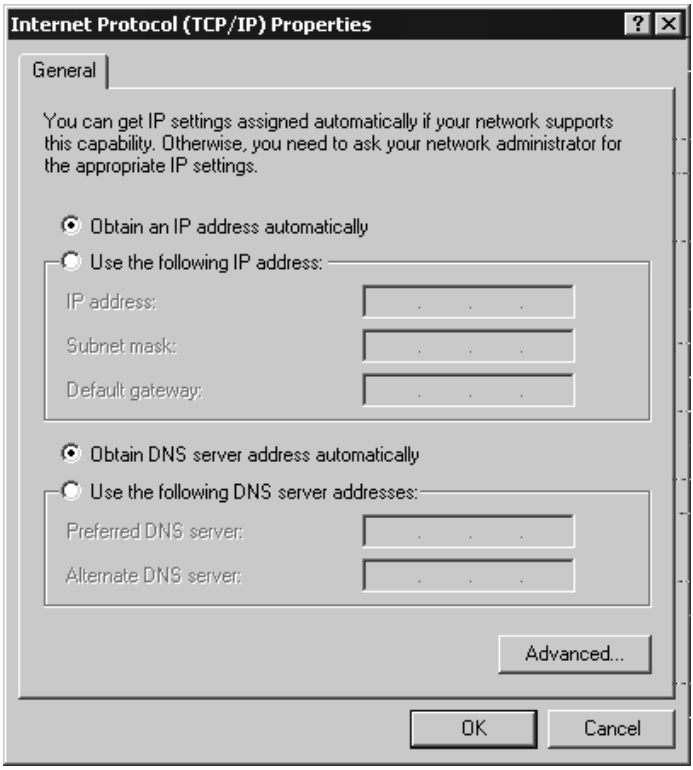
- Select ***Protocol*** and click on ***Add***.
- In the ***Network Protocols*** list, select the entry ***Internet protocol (TCP/IP)***.
- Click on ***OK***.
  You will now see the TCP/IP protocol in the ***Local Area Connection Properties*** window.

TCP/IP protocol settings

The TCP/IP protocol requires certain settings which you will now make or check so that it can function smoothly.



- Select ***Internet protocol (TCP/IP)*** and click on ***Properties***.



- If the ***Obtain an IP address automatically*** and ***Obtain DNS server address automatically*** options have already been activated, your PC is already configured for DHCP. Click on ***Cancel*** and close the next windows with ***OK*** to save your network configuration.
- If the ***Obtain an IP address automatically*** and ***Obtain DNS server address automatically*** options have not been activated, activate them now and click on ***OK***. Close the following screens.

Deactivating the http proxy

Make sure that the http proxy in your Web browser is deactivated. This function must be deactivated so that your Web browser can read your Gigaset SE505 dsl/cable's configuration pages.

The following section describes the procedure for Internet Explorer and Netscape. First decide which browser you are using and then follow the appropriate steps.

Internet Explorer

- Open Internet Explorer. Click on ***Extras*** – ***Internet Options***.
- In the ***Internet Options*** window click on the ***Connections*** tab.
- Click on ***LAN Settings***.
- Clear all the check boxes in the ***Local Area Network (LAN) settings*** window.
- Click on ***OK*** and then ***OK*** again to close the ***Internet Options*** window.

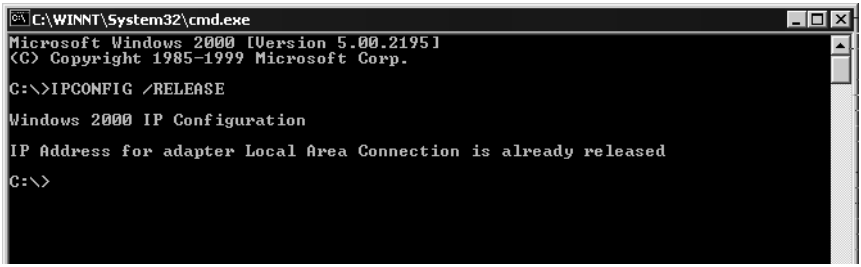
Netscape

- Open Netscape. Click on ***Edit*** and then ***Settings***.
- Double click on ***Advanced Category*** in the ***Settings*** window and then click on ***Proxies***.
- Select ***Direct Connection to Internet***.
- Click on ***OK*** to finish.

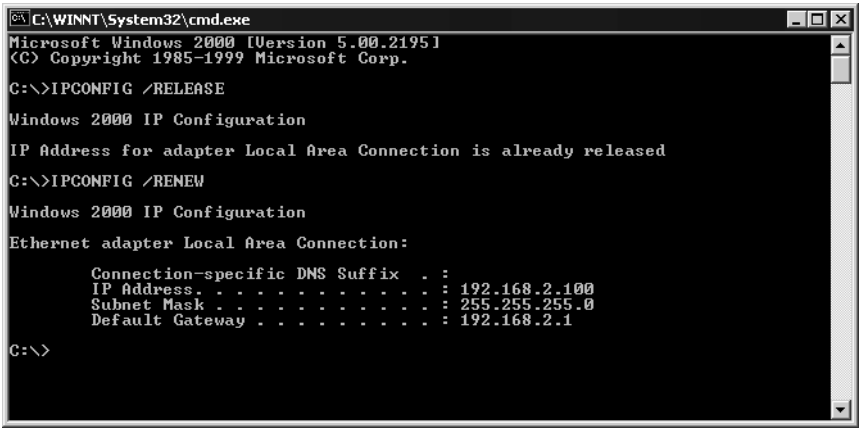
Synchronising the TCP/IP settings with the Gigaset SE505 dsl/cable

You have now configured your computer so that it is ready to be connected to the Gigaset SE505 dsl/cable. You now have to release the old TCP/IP settings and synchronise them with the settings of your Gigaset SE505 dsl/cable.

- Click on ***Start*** – ***Programs*** – ***Accessories*** – ***Command prompt*** in Windows Desktop.
- In the ***Command prompt*** window enter the *ipconfig /release* command and press the ENTER KEY.



- Then enter the *ipconfig /renew* command and press the ENTER KEY.



If the router's default IP address (192.168.2.1) was not changed, the IP address should now read 192.168.1.x (x being a number between 2 and 254). The ***Subnet Mask*** must always be 255.255.255.0 and the ***Default Gateway*** must have the router's IP address (192.168.2.1). These values confirm that your Gigaset SE505 dsl/cable is working.

- Enter *exit* and press the ENTER KEY.

Checking the connection to the Gigaset SE505 dsl/cable

Once the network has been set up on a PC, you can check whether the PC has been successfully connected to the Gigaset SE505 dsl/cable. This can be done as follows:

- Open ***Command prompt***. This can be done by clicking on ***Start*** – ***Programs*** – ***Command prompt***.
- Enter the command *ping 192.168.2.1*.

i	If the router's IP address was changed, enter the new IP address.

The *ping* command sends data packets to the router with the specified IP address and checks whether the router responds. If this is the case, the command presents statistics about the connection, e.g. how many data packets were sent, how many received, how long the transfer took, etc. If you can see this information then the connection to the router is functioning properly.

If the command does not return any statistics, but ends with a time-out, then this means that the components cannot communicate with each other. Check the following points:

1. Is the Ethernet cable between the Gigaset SE505 dsl/cable and the PC properly connected, or is there a wireless connection via a wireless network adapter?

   The LED display for the LAN connections on the Gigaset SE505 dsl/cable and link display for the network card in your PC must light up. For wireless connections the Gigaset WLAN Adapter Monitor must display connection information.
2. Has TCP/IP been properly configured on your computer?

   If the Gigaset SE505 dsl/cable has IP address 192.168.2.1, your PC's IP address must be between 192.168.1.2 and 192.168.1.254, the default gateway must have the address 192.168.2.1.

If you can successfully address the Gigaset SE505 dsl/cable with the *ping* command, then the PC has been configured properly.

The user interface

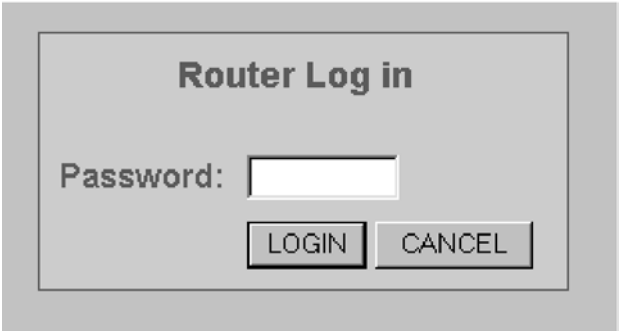
Once you have configured the network settings on a PC in your local network, you can then use that PC to configure the Gigaset SE505 dsl/cable with the router's user interface. The Gigaset SE505 dsl/cable can be configured using any browser that supports Java, e.g. Microsoft Internet Explorer 5.5 or higher, Netscape Communicator 6.2 or higher.

i	Please note that the settings on your browser must allow popups to be displayed. In addition, no proxy can be configured in the browser. If working with Windows XP SP2, popups are blocked by default. This setting can be deactivated using Internet Explorer: ◆ via the ***Tools*** – ***Popup manager*** menu item or ◆ via ***Tools*** – ***Internet options***, ***Privacy*** tab.

Launching the user interface

To access the Gigaset SE505 dsl/cable's user interface:

- Launch your Web browser.
- Enter the router IP address in the Web browser address bar.
  http://192.168.2.1
  You will then see a login window:



- Click on ***LOGIN*** (the default is no password).

i	For security reasons you should assign a password at a later stage (see page 59).

You will now see the start page.

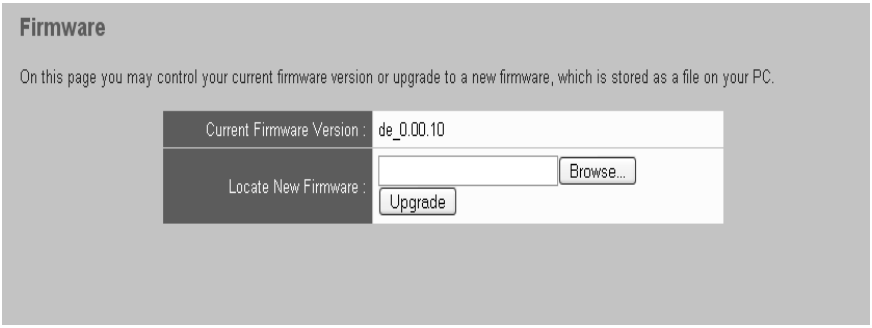
Selecting the language

The first time you launch the user interface it will appear in English. If you do not want to change the language, you can skip this section.

- If you wish to change the user interface language to German, French, Italian, Spanish or Dutch, select the required language from the ***Select your language*** pick list.
- If the language you require is pre-installed, the user interface will now be displayed in this language.

i	English and German are pre-installed at the factory.

- If the appropriate language has not been pre-installed, you must update the firmware. You will see a prompt - click on ***OK*** to confirm. This opens the ***Firmware*** screen.



- Load the installation CD supplied into your CD-ROM drive and click on ***Browse.***

- Select your language file in the file selection screen and click on ***Open.***

  The file you want is on the CD-ROM in the directory for the corresponding country, and has the format *siemens_nn.x.yy.zz*, *nn* being the symbol for the required language:

de	Germany
fr	France
it	Italy
nl	Netherlands
sp	Spain

  x.yy.zz for the version number of the firmware, e.g. *siemens_fr_3.00.05*.

- Click on ***Upgrade***.
  - A window now opens in which you must confirm the firmware upgrade. Click on ***OK***.
  - The next window will warn you that the router will not be available for about a minute during the update procedure. Acknowledge this message **quickly** by clicking on ***OK***.

  The firmware will now be upgraded.

!	Do not switch off the router or PC during this procedure, and do not interrupt the connection. Make sure there is a secure wireless connection or connect the router via a cable, ensuring that the connection is uninterrupted during the update procedure. We recommend a cable connection. If the update procedure is not carried out properly, the device may become unusable.

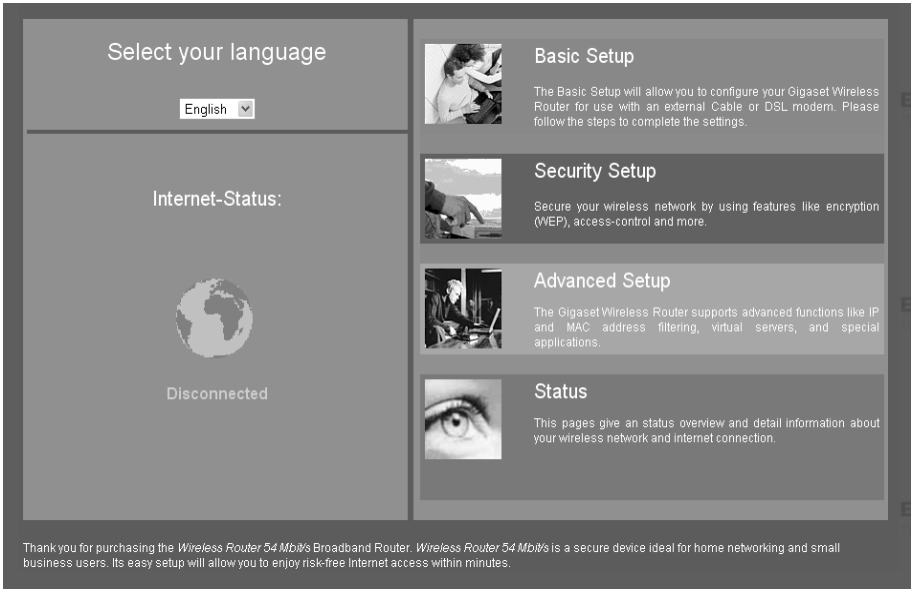
  After a successful update, the router is automatically rebooted. All LED's go out when this happens. The power LED lights up again when the upgrade is complete. The browser displays the router's logon screen.

- Now log on to the router again and select your required language. The user interface will now appear in your selected language.

i	If a new firmware version is available when you wish to change the user interface language, you can download it from the Internet. Please read the description on page 103 to find out how to do this.

The start page

The start page is the starting point for all configuration and administration activities.



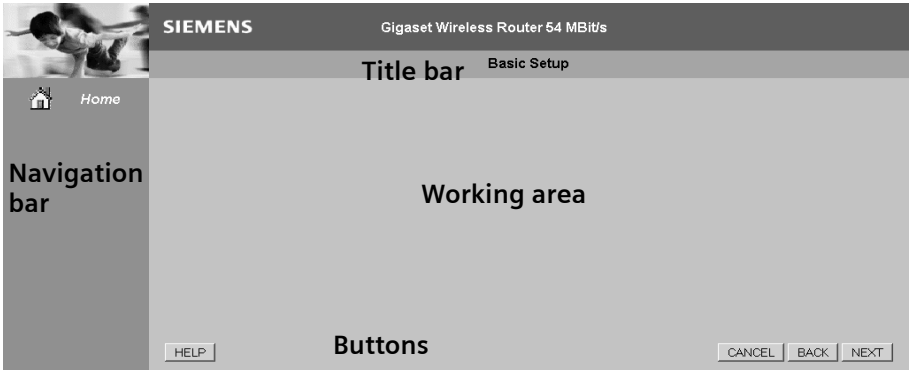
In the start screen you can

- select the language for the user interface (see page 46),
- open or close an Internet connection (see page 86),
- view Status information about the router (see page 94),
- make configuration settings for the router with the Basic Setup, Security Setup or Advanced Setup.

Basic Setup	Use Basic Setup for the settings required for connecting to the Internet via a DSL or cable modem. This is described from page 51.
Security Setup	The Security Setup allows you to take precautions against unauthorised access to your router and LAN. For example, you can assign a password and set up encryption for wireless transmissions. This is described from page 59 on. For the protection of your network we recommend that you carry out this setup.
Advanced Setup	Advanced Setup provides additional functions. For example, you can back up and restore your configuration data, set up your router as a virtual server for your network, and much more. These configuration steps are optional and can be carried out at a later stage. This is described from page 66 on.

UI elements

The UI pages contain the following elements:



Title bar

The title bar indicates whether you are in Basic Setup, Security Setup or Advanced Setup, or whether a status page is open.

Navigation bar

The navigation bar always displays ***Home***. It finishes the setup or closes the status screen and returns to the start screen.

In Advanced Setup, the navigation bar also lists the configuration options of the Gigaset SE505 dsl/cable. Clicking on an option opens a menu in which you can select the function you want.

If you have opened the router's status screen, the navigation bar lists all of the topics on which you can view information. Click on the topic you require and the page with the information opens.

Working area

Use the working area for configuration.

With configurable parameters you will see a dialog box or selection list with default settings. There may be some limitations on the possible entries, e.g. entering special characters or certain value ranges. If your entry does not meet the rules for the box in question, you will see an error message. You can then repeat the input.

If you need information about a screen, click on ***HELP*** to view help about the displayed screen.

As soon as you have changed the configuration in a screen, you can activate the new setting by clicking on ***APPLY*** or ***NEXT*** at the bottom of the screen.

i	Please read the following information if you are using Internet Explorer 5.0. Once you have entered the command, the screen will be properly updated if you have configured Internet Explorer as follows: In ***Extras*** – ***Internet Options*** – ***General*** – ***Temporary Internet Files*** – ***Settings*** the setting for ***Check Newer Versions*** should be set to ***Every Visit***.

Buttons

Basic Setup and Security Setup:	***NEXT***	Opens the screen for the next configuration step.
	BACK	Returns to the previous configuration step.
	CANCEL	Clears all the entries on a screen since the last time it was opened.
	FINISH	Transfers the settings you have made to the router configuration.
	HELP	Displays help information about the current screen.
Advanced Setup:	***APPLY***	Transfers the settings you have made to the router configuration.
	CANCEL	Deletes all the entries in a screen since the last time ***APPLY*** was run.
	HELP	Displays help information about the current screen.

Other buttons may be visible depending on the function in question. These are described in the relevant sections.

General configuration with Basic Setup

Use Basic Setup for the general configuration of the Gigaset SE505 dsl/cable. This includes the settings for the WAN interface.

The router's WAN interface is used to provide a connection to the Internet for all the PC's connected to the router. For the setup you will need the access data you have received from your Internet Service Provider. Please have this data to hand.

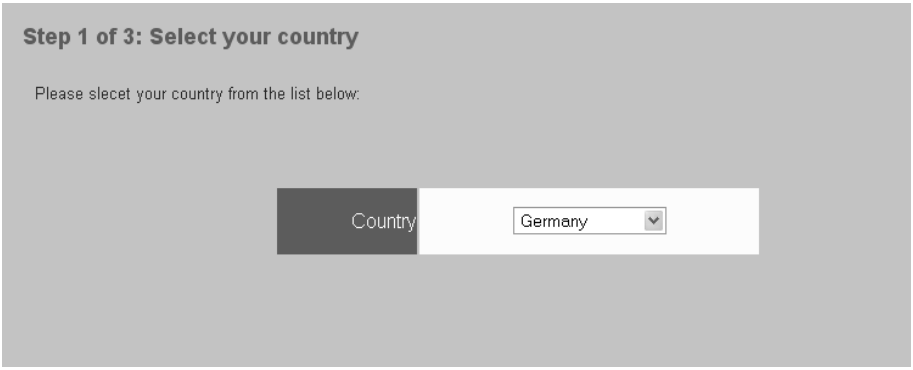
i	Remember that configuration saves the access data in the router. Before passing your router on to somebody else or having your dealer replace it, you should first restore the factory settings. Otherwise unauthorised persons may use your Internet access data at your expense. You will find information about resetting the router on page 103.

The router user interface guides you through configuration step by step. Once you have completed a screen, click on ***NEXT***. If you want to make any changes or check your entries, click on ***BACK.***

Select ***Basic Setup*** in the start screen to launch the configuration.

Select Country

The first step of the ***Basic Setup*** is to select the ***Country*** in which you wish to operate your router.



- Select your ***Country*** from the pick list.
- Click on ***NEXT***.

i	Selecting the country automatically selects the time zone as well. If necessary, you can set the time zone separately using Advanced Setup (see page 88).

Configuring Internet access

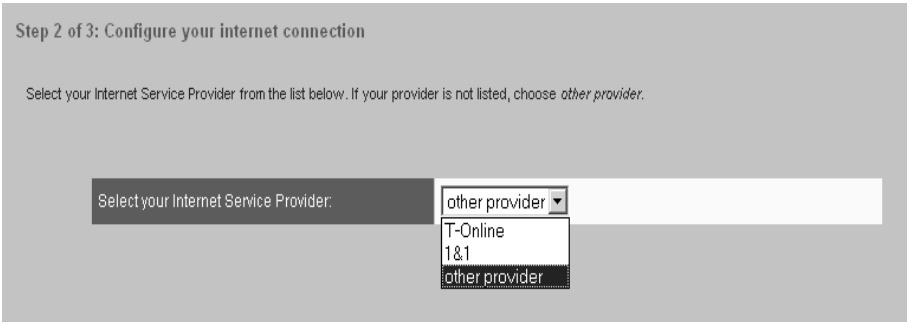
In the next step you have to enter the data for your Internet connection. You will have received the necessary information from your Internet Service Provider (ISP).

Please read the following section if you chose German as the language and ***Germany*** or ***Austria*** as the country. Otherwise, please go to page 52.

Internet Service Providers for Germany and Austria

If you chose ***German*** as the language and ***Germany*** or ***Austria*** as the country, the next step is to choose your Internet Service Provider from a list.

Here is an example for Germany.



- Click on ***WEITER***.

  A window opens, where you can enter the data which your Internet Service Provider has provided for you. More information on page 57.
- If your Internet Service Provider is not in the list, choose ***Andere DSL-Betreiber***.
- Click on ***WEITER***.

Other Internet providers

Next, choose the type of internet connection you have from the following:

- ***PPPoE*** (see page 53)

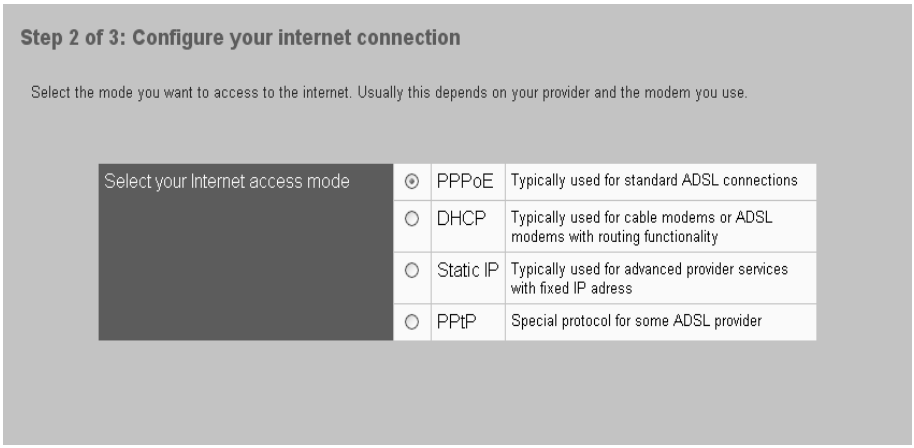
  Standard connection type for connections using DSL modem.
- ***Dynamic*** (see page 54)

  Connection type for connections using dynamic IP address.
- ***Static IP address***

  Connection type for connections using fixed IP address.
- ***PPTP*** (see page 56)

  Special connection type for connections using DSL modem with secure transmission (Tunneling).

You will find information about the connection type and the access data you need for further configuration in the paperwork you received from your Internet Service Provider.

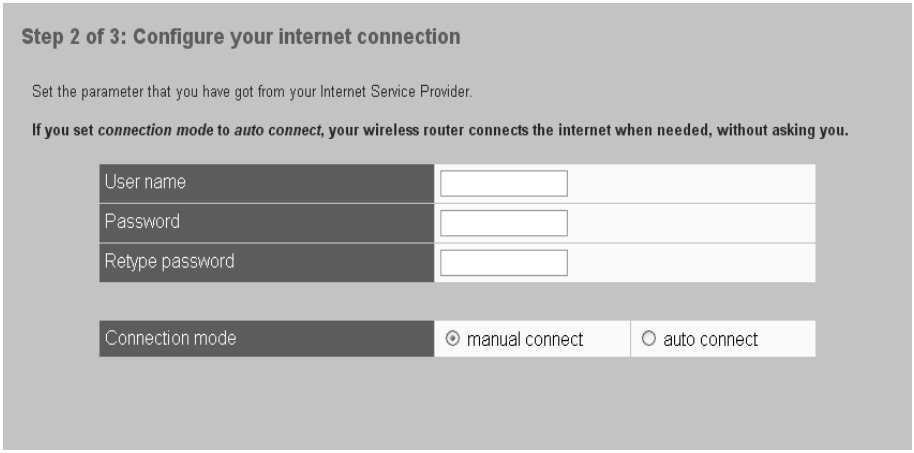


- Click on the connection type you are using.
- Click on ***NEXT***.

Depending on the connection type, you will see another screen in which you should enter the connection data.

Configure connection for DSL modem with PPPoE

Complete this screen if you dial up the Internet with a DSL modem with PPPoE.



- Enter the ***User name*** and the ***Password*** which you have been given by your Internet Service Provider.

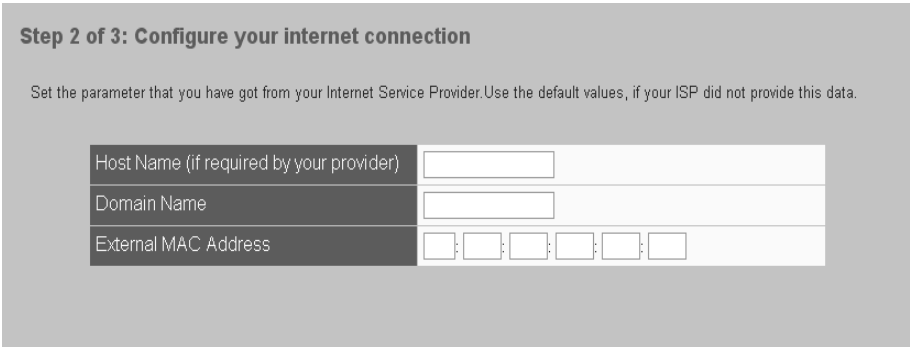
- Type the password again in the ***Retype password*** window.

!	Select ***manual connect*** if you always wish to connect manually to the Internet. This can save connection charges if you use a time-base rate. Manually opening and closing a connection is detailed on page 86. Select ***auto connect*** if you want to allow applications such as a Web browser or an e-mail program to connect to the Internet automatically. In either case a connection is automatically terminated after a certain period of inactivity (the default is 5 minutes). You can change this default in the Advanced Setup (see page 79).

- When you have entered the data, click on ***NEXT***.

Configure connection with dynamic IP address

Complete this screen if your Internet Service provider has given you a Dynamic IP address for your Internet connection. In this case your router is a DHCP Client.

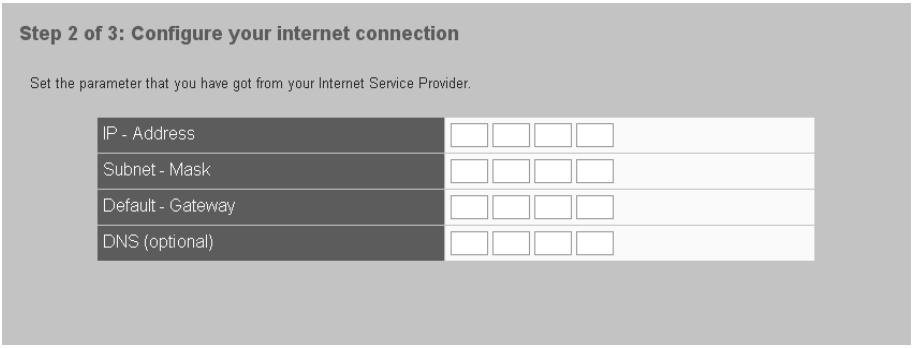


- If you have been given a host name by your Internet service provider, please enter it in the ***Host name*** window.
- If your Internet Service Provider has given you a Domain name, enter in the ***Domain name*** window.
- The MAC address is set by default to the hardware address of the router's WAN port. Do not change this unless required to do so by your Internet Service Provider.
- When you have entered the data, click on ***NEXT***.

i	In this connection type your router is assigned a Dynamic IP address by the Internet Service Provider. If you want to use a PC in your network as a server, you can use the router's DynDNS service (see page 85).

Configure IP address connection

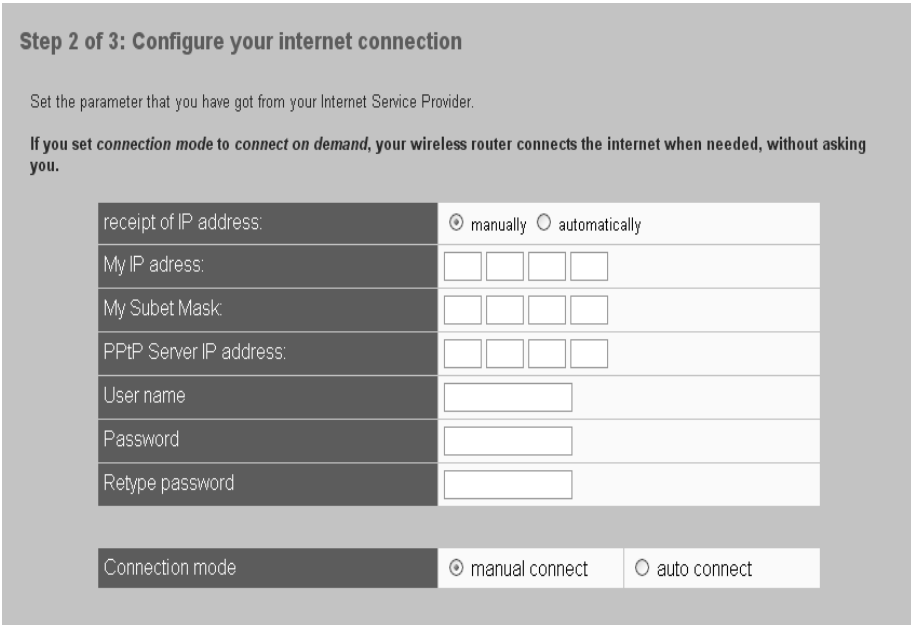
Complete this screen if your Internet Service provider has given you a Static (fixed) IP address for your router.



- Enter the data which you have received from your Internet Service Provider in the ***IP Address***, ***Subnet Mask*** and ***Default Gateway*** dialog boxes.
- You can specify the IP address of a preferred DNS server in the ***DNS (optional)*** box. If you leave this box blank then your ISP will use his default DNS server.
- When you have entered the data, click on ***NEXT***.

Configure connection with PPTP

Complete this screen if you connect to the Internet using a DSL modem with the Point-to-Point Tunneling Protocol (PPTP).



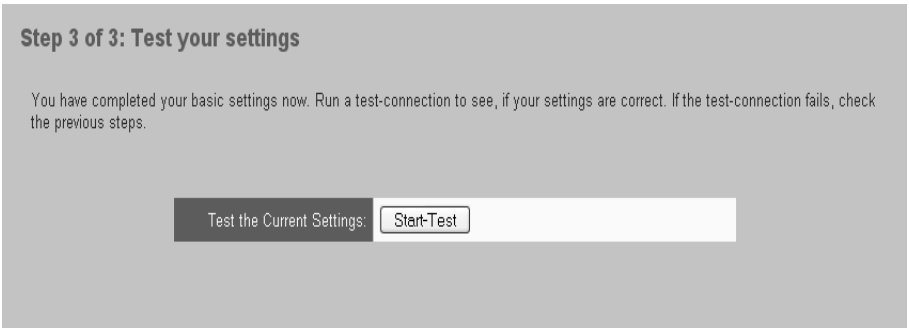
- If your Internet Service Provider has given you a Static (fixed) IP address for your router, select the ***manually*** option next to ***Receipt of IP address*** and enter the IP address and the subnet mask you have been given.
- If the router receives its IP address automatically (by DHCP), select ***automatically*** beside ***Receipt of IP address***.
- Enter the other access data, the ***IP address of the PPTP server*** and the ***User name*** and ***Password*** in the appropriate boxes.
- Type the password again in the ***Retype password*** window.

!	Select ***manual connect*** if you always wish to connect manually to the Internet. This can save connection charges if you use a time-base rate. Manually opening and closing a connection is detailed on page 86. Select ***auto connect*** if you want to allow applications such as a Web browser or an e-mail program to connect to the Internet automatically. In either case a connection is automatically terminated after a certain period of inactivity (the default is 5 minutes). You can change this default in the Advanced Setup (see page 79).

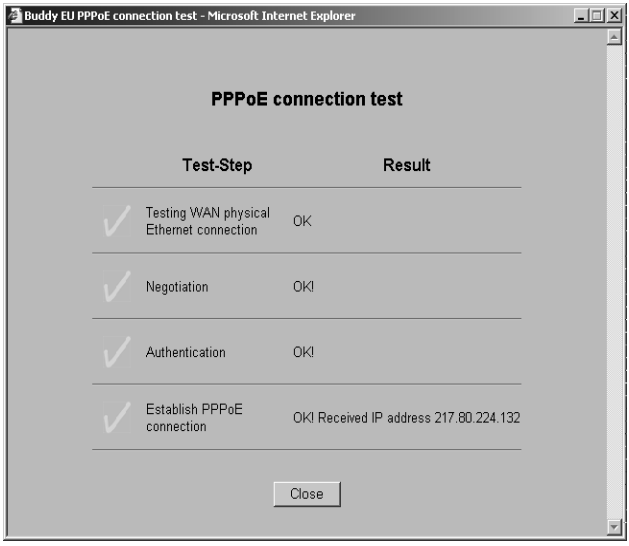
- When you have entered the data, click on ***NEXT***.

Testing the WAN connection and completing the configuration

In the next step you can test whether your Internet access is working correctly.



- To start the connection test, click on ***Start test***.
  This opens a window in which you will see the test steps and the test result.



If the test fails, check that

- all the necessary cables are connected
- the various devices are connected to the power supply
- the necessary LED's light up

If you cannot find any hardware problems, check your settings again. To do this click ***BACK***.

- Close the test window.
- If the test is successful, click on ***NEXT***.
- In the next screen, click ***FINISH*** to complete your setup.

Your router will now try to open a connection to the Internet. A successful Internet connection is indicated on the router's start screen by a revolving world icon and the word ***Connected***.

Your router is now configured and ready to use.

Configuring security measures

In the Security Setup you can configure additional settings that will enhance your network's security. You can

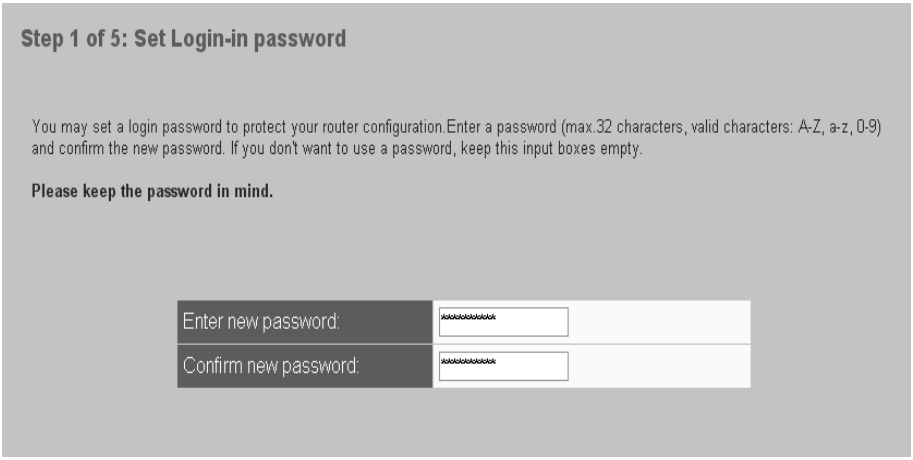
- set a password for your router's configuration (see below),
- change the default SSID (see page 60),
- set Encryption for wireless transmissions (see page 61),
- restrict access to your LAN to certain PC's (see page 64),
- backup your router's configuration in a file (see page 65).

The router's user interface will guide you through the security configuration step by step. Once you have completed a screen, click on ***NEXT***. If you want to make any changes or check your entries, click on ***BACK.***

Select ***Security Setup*** in the start screen to launch the security configuration.

Assign password

You can set a password in the first step of the Security Setup. After installation, your router configuration is not yet protected with a password. To prevent unauthorised changes to the configuration, you should set a password and change this password from time to time.



- Enter a password in the ***Enter New Password*** box and type it again in the box ***Confirm New Password***.

  The password can be up to 32 alphanumerical characters long. It is not case sensitive. Avoid proper names and all too obvious words. Mix letters and numbers together.

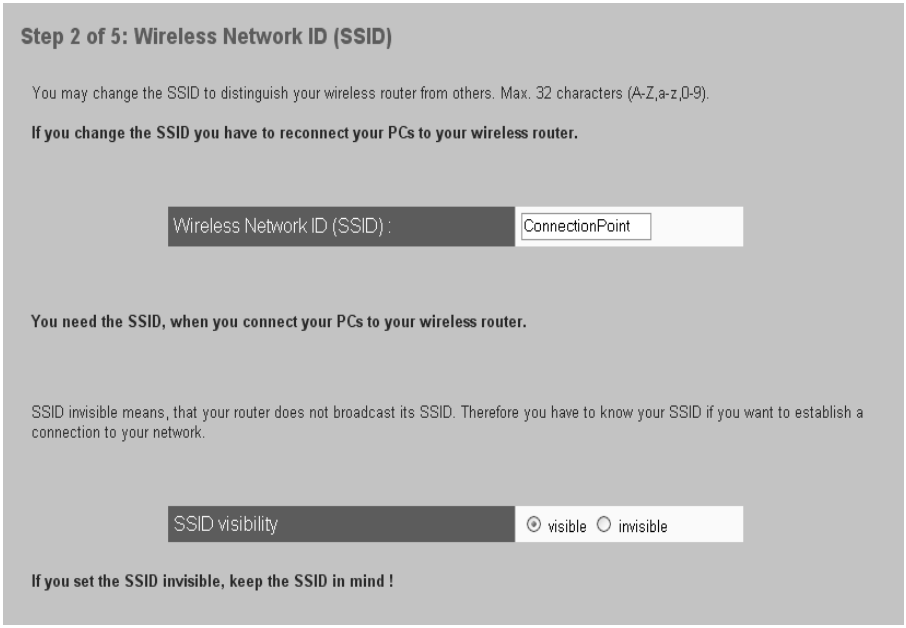
i	If you ever forget the password you will have to reset your router (see page 103). Please bear in mind that this will restore all the settings to the factory configuration. No password will be active either

- To go to the next step in the Security Setup, click on ***NEXT***.

Setting the SSID and making it invisible

Before the wireless network components can communicate with each other, you must use the same SSID (Service Set Identifier).

The Gigaset SE505 dsl/cable comes supplied with the SSID configured as **Connection-Point**. For security reasons you should change this SSID and deactivate the broadcast function (***SSID visible***).



- ***Service Set ID (SSID)***

  Enter a character string of your choice. It is not case sensitive. It can be up to 32 alphanumerical characters long.

i	◆ Remember that after you have completed the Security Setup the connection to the wireless network adapters will be interrupted until the new SSID has been entered in them as well. ◆ You will find a detailed example of how to change the SSID in "Practical Tips and Configuration Examples" on the CD supplied.

- ***SSID visible***

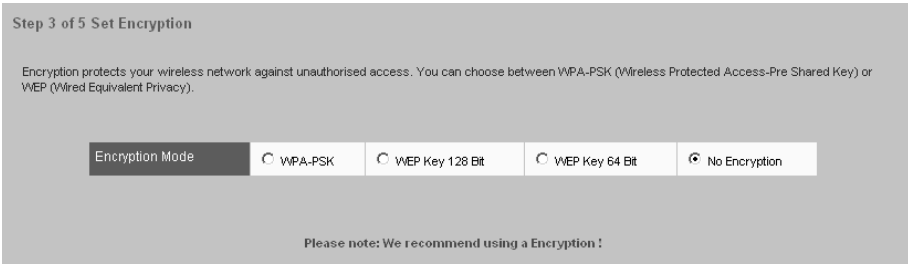
  If you have selected this option the Gigaset SE505 dsl/cable will send the SSID in all data transmissions. In this case eavesdroppers could use the SSID to gain access to your network. Your router's SSID will also be displayed on PC's with a wireless network adapter.

  If you have deselected this option, wireless network components that want to connect to the LAN must know the SSID. This offers a certain degree of protection against unauthorised access.
- To go to the next step in the Security Setup, click on ***NEXT***.

Setting the Encryption

If you are sending sensitive data over wireless channels, we recommend that you activate encryption on your wireless network components. Your Gigaset SE505 dsl/cable offers you two encryption methods: the WPA-PSK mode and WEP-Encryption. WPA PSK offers greater protection for your data. We therefore recommend that you choose this method, assuming it is supported by all components in your wireless network.

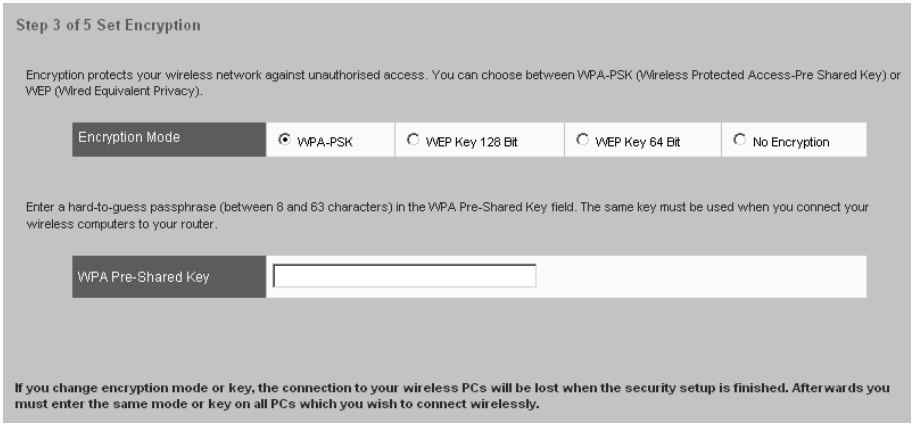
i	◆ Encryption protects data that is sent from one wireless node to another, but not data transmitted in your wired network or via the Internet. ◆ If you are operating your router in a network with a RADIUS authentication server, please use Advanced Setup for configuration (see page 69).



WPA-PSK

WPA is a standard method for user identification during network login as well as for data encryption during transmission. WPA is safer than WEP.

- Choose ***WPA-PSK*** in the ***Encryption mode*** field.



- Enter a key in the ***Pre-shared key*** field. It should contain between 8 and 63 characters. The same key must be used when you connect your wireless PCs to the router.
- To go to the next step in the Security Setup, click on ***NEXT***.

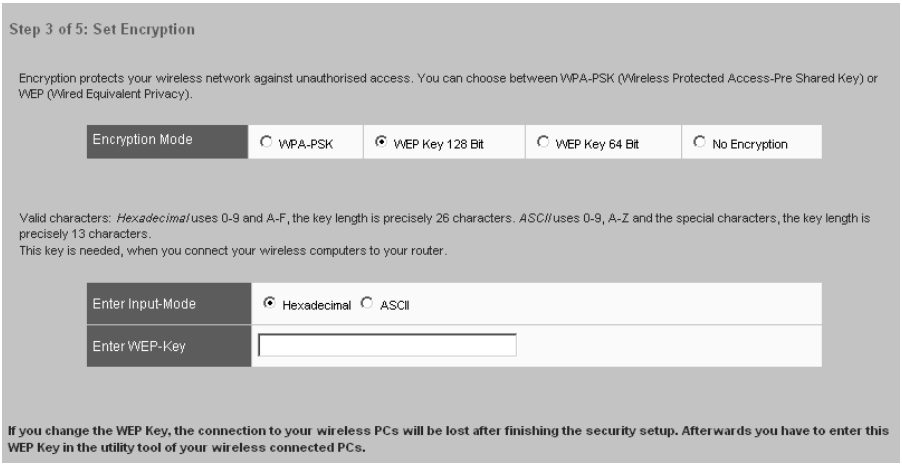
For alternative ways of setting up WPA encryption, please see the chapter headed "Configuration with Advanced Setup" on page 70.

i	You must ensure that your WLAN adapter supports WPA as well, and that the security settings correspond to those on your router.

WEP

To activate WEP encryption on your wireless network components:

1. Activate WEP encryption on your Gigaset SE505 dsl/cable and generate a 64 or 128 bit key. Make a note of the generated key.
2. Activate WEP encryption on the wireless network adapters and enter the generated 64 or 128 bit key.



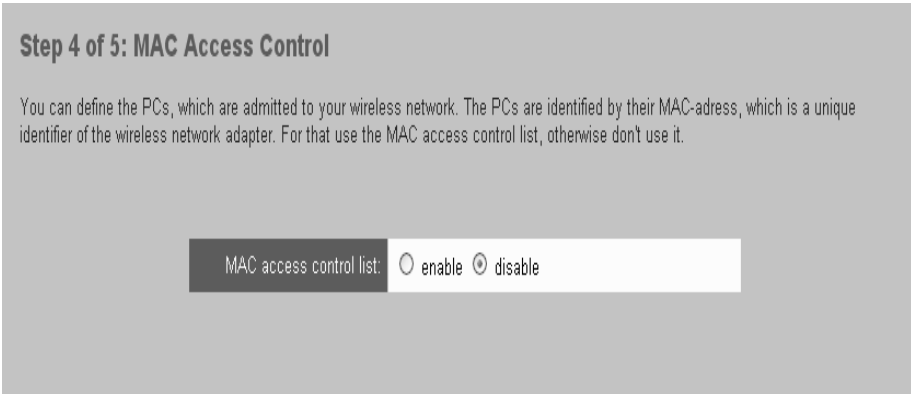
You can choose either the standard 64 bit key or the more robust 128 bit key for encryption. The keys are generated in hexadecimal or ASCII format. You must use the same keys for encryption and decryption for the Gigaset router and all your wireless network adapters.

i	You will find a detailed example of how to set up WEP encryption in "Practical Tips and Configuration Examples" on the CD supplied.

- To go to the next step in the Security Setup, click on ***NEXT***.

Allowing selected PC's access your local network

In this next step you can specify up to 32 PC's that are allowed to access your LAN. All other computers will be denied access. Access control is based on the MAC address of the specified PC's.



The access control is disabled by default. This means that all PC's that use the correct SSID can log in. If you wish to keep this setting, click on ***NEXT***.

If you wish to use the access control, select ***MAC access control list***. The access control list that was last defined is displayed and enabled. Now only these PC's can log in to your router.

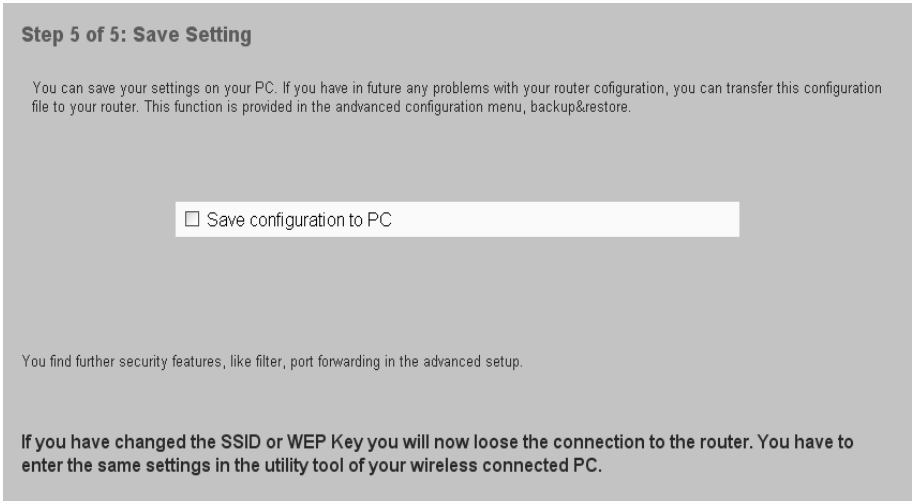
!	When you activate the MAC access control you should at least enter the PC from which you configure the router, otherwise you will no longer be able to access the router's user interface and will see an error message to this effect. If you have denied all your PC's access to the router by mistake, you have two options: ◆ You can completely reset the router (see page 103). ◆ You can connect one PC to the router by one of the LAN connections. Because the MAC access control only applies to PC's that are connected 'wirelessly', you can use this PC to change the router's configuration.

i	You will find a detailed example of how to generate a ***MAC access control list*** in "Practical Tips and Configuration Examples" on the supplied CD.

◆ To go to the next step in the Security Setup, click on ***NEXT***.

Saving the router configuration and completing the setup

In the last step of the Security Setup you can backup the current settings of your router in a file and save them on your PC or other data medium. You can then use that file to restore the current configuration of your router if necessary. The backed up data are restored in the Advanced Setup with ***Administration*** – ***Backup and Restore***.



- To backup the current settings, select ***Save configuration to PC***.
- If you do not want to backup the current configuration, deselect ***Save configuration to PC***.
- Click on ***FINISH*** to finish the Security Setup.

If you have selected ***Save configuration to PC***, you must now specify where you wish to save the file and give it a name.

The settings will now be active on your router.

i	Next, you must configure the same SSID and the WEP key for your PC's wireless network adapter, if this has been configured with other values. Once you have done this you can log on to your router once more.

Configuration with Advanced Setup

In Advanced Setup you can configure all the Gigaset SE505 dsl/cable options. If necessary, you can also make changes to the settings you made in Basic Setup or Security Setup. The following table shows the options available in Advanced Setup.

Menu	Description
Wireless Settings	Here you can configure the options for wireless communication (channel, SSID and encryption), restrict access to the router and integrate Repeater (see page 67) into the wireless network.
LAN	This option lets you change the router's Private IP address and configure dynamic address assignment (see page 74). You can also activate and deactivate the router's universal plug and play function (UPnP) (see page 75).
WAN	Here you can check and change the configuration of your router's Internet access or select the operating state (Router or Bridge) (see page 78).
Filter	Here you can configure a number of security and special functions, e.g. access control for local PCs to the Internet or preventing hacker attacks (see page 81).
Virtual server	In this option you can make the settings needed to provide your own services on the Internet (see page 82).
Administration	Here you can perform a number of administration tasks such as backing up your router's configuration, assigning a password or setting the router's time zone (see page 86).

Configuring wireless connections

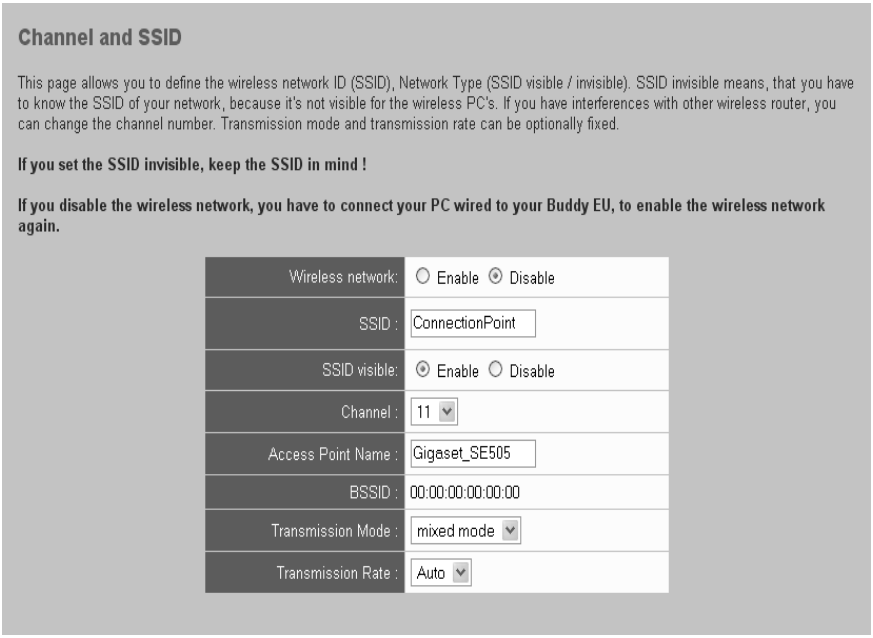
If you want to connect PC's together in wireless mode with the Gigaset SE505 dsl/cable, then you must configure the router as the Access point of a wireless network (WLAN). You should also take steps to enhance the security of your wireless network. Use ***Wireless Settings*** for this configuration. Here you can

- activate the router's wireless module and make a number of basic settings (see below),
- set Encryption for wireless transmissions (see page 69), and
- restrict access to the router's LAN (see page 72).

Basic Settings

Use this screen to configure your router as the Access point for a wireless LAN. You can enable or disable the wireless module and make other settings for wireless operation.

- In the ***Wireless Settings*** menu, select ***Basic Settings***.



- ***Wireless network***

  Wireless devices cannot log in to your router unless its wireless module has been activated. You should therefore enable this option.

- **SSID**

  Before the wireless network components can communicate with each other, you must use the same SSID (Service Set Identifier).

  The Gigaset SE505 dsl/cable comes supplied with the SSID configured as **ConnectionPoint**. You should change this SSID for security reasons.

  Enter a character string of your choice. The SSID is case sensitive. It can be up to 32 alphanumerical characters long.

i	◆ Remember that the connection to the wireless network adapters will be interrupted until you enter the new SSID on them as well. ◆ You will find a detailed example of how to change the SSID in "Practical Tips and Configuration Examples"on the CD supplied.

- ***SSID visible***

  If this option is enabled, the Gigaset SE505 dsl/cable will send the SSID in all data transmissions, and your router's SSID will be displayed on PC's that have a wireless network adapter. In this case eavesdroppers could use the SSID to gain access to your network.

  Your router's SSID will not be displayed if you disable the SSID option. This will increase protection against unauthorised access to your wireless network. Make a note of the SSID however - you will need it to log your PC onto your router.

- ***Wireless Channel***

  Channel used by the Gigaset SE505 dsl/cable to communicate with other wireless network components. You must use a common channel so that the wireless network components can communicate with one another.

i	The available channel settings are governed by your country's regulations. They define the number of available channels. The default setting is determined by the country setting (see page 51). You should not change this setting unless you have a good reason to do so.

- ***Access point name***

  You can enter a name for your router here. This name will be used if you want to do Roaming with your router. If you do not need Roaming, you leave the default name as it is.

- ***BSSID***

  The router's BSSID is displayed here. This is for information only – it cannot be changed.

- ***Transmission mode***

  The transmission mode indicates whether the wireless transmission complies with IEEE Standard 802.11b or IEEE 802.11g, or whether both transmission modes are possible (***Mixed mode***). The main difference between the two standards is the ***Transmission rate***: IEEE 802.11b – maximum 11 Mbps, IEEE 802.11g – maximum 54 Mbps. If the units use different standards in the wireless network, then you should leave the default ***Mixed mode***.

- ***Transmission rate***

  The transmission rate depends on the selected transmission mode. The possible transmission rates are shown in the pick list. You should leave the default set to ***Auto***.

- Click on ***APPLY*** to apply the settings.

Setting the Encryption

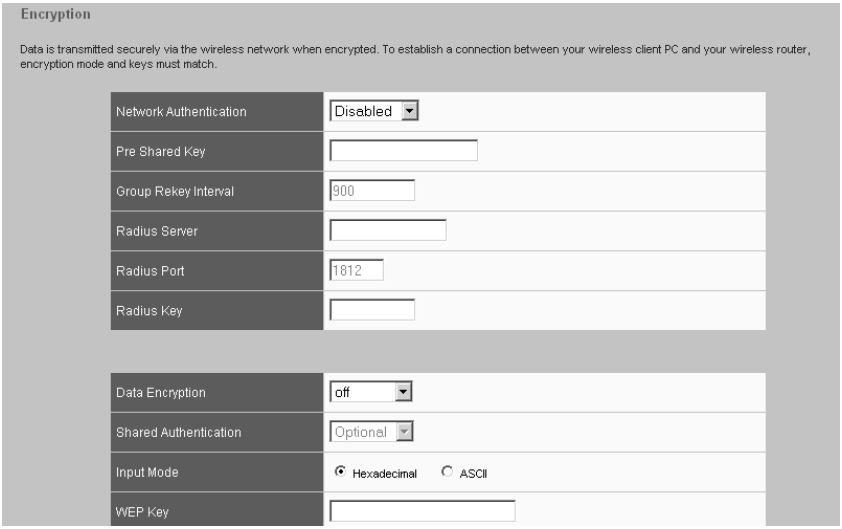
Wireless networks are open to the risk of eavesdropping.

The Gigaset SE505 dsl/cable makes use of effective encryption methods to prevent unauthorised access as far as possible.

- From the ***Wireless Settings*** menu, select ***Encryption***.

  The following security mechanisms are currently available:

  – WPA without authentication server (see page 70)
  – WPA with authentication server (see page 70)
  – Authentication according to Standard 802.1x (see page 70)
  – WEP encryption (Wired Equivalent Privacy, see page 71)



WPA encryption

WPA increases the security of your wireless network with the help of a robust and complex encryption method, e.g. TKIP (Temporal Key Integrity Protocol). TKIP allows the access code to be generated from a combination of the MAC address and a freely definable key. WPA also supports the use of an authentication server.

To ensure a secure and fast connection, we advise you to use WPA-PSK for authentication and TKIP for data encryption.

i	Every PC (network adapter) that requires access to a wireless network protected by WPA must also support WPA. To find out whether and how you can use WPA on your PC, read your network adapter's operating instructions.

WPA with Pre-Shared Key (WPA-PSK)

WPA-PSK is a special WPA mode that offers encryption protection for users at home and in small offices without a company authentication server. Encryption is automatically generated with the Pre-shared Key and automatically changed (known as "Rekeying") and authenticated between the devices after a certain period of time (Rekey Interval).

Proceed as follows to activate WPA encryption on your router:

- In the ***Network authentication*** field, select the ***WPA-PSK*** entry.
- Enter a key in the ***Pre-shared key*** field. It can be between 8 and 64 characters long.
- In the ***Group Rekey Interval*** field, enter the number of seconds after which the keys are automatically changed. The default setting is 900 seconds.
- In the ***Data encryption*** menu select the encryption protocol: TKIP, AES or TKIP-AES are available as algorithms.
- Click on ***APPLY***.

WPA with authentication server

In large networks (e.g. in companies) WPA enables the use of an additional authentication service. In this case, user access is controlled by user accounts and passwords, in addition to WPA encryption. A RADIUS server acts as an authentication server.

Proceed as follows to activate WPA with an authentication server:

- In the ***Network authentication*** field, select the ***WPA*** entry.
- Enter your RADIUS server in the ***Radius Server*** field.
- In the ***Radius Port*** field enter the port number used for the RADIUS service (default value is 1812).
- In the ***Radius key*** field, enter a keyword conforming to the conventions of the RADIUS server, which is to be used by the server for authentication.
- In the ***Data encryption*** menu select the encryption protocol: TKIP, AES or TKIP-AES are available as algorithms.
- Click on ***APPLY***.

802.1x

The IEEE 802.1x standard facilitates secure and easy connections in your wired and wireless networks. Enter the authentication data used to access an authentication server. Standard 802.1x provides automatic encryption.

Proceed as follows to activate 802.1x:

- Choose ***Network authentication*** in the 802.1x field.
- In the ***Radius Server*** field, enter your RADIUS server.
- In the ***Radius Port*** field enter the port number used for the RADIUS service (default value is 1812).
- In the ***Radius key*** field, enter a keyword conforming to the conventions of the RADIUS servers, which is to be used by the server for authentication.
- Click on ***APPLY***.

WEP encryption

If WPA is not supported by all network components, we advise you to activate the WEP-Encryption on your wireless network components.

To do this you must perform the following steps:

1. In the ***Network authentication*** field, select the ***Deactivated*** setting.
2. In the ***Data encryption*** field, select ***WEP-65*** (for a 64 bit key) or ***WEP-128*** (for a 128 bit key) and Hexadecimal or ASCII as the format in the ***Input mode*** field.
3. In the next field enter a key of your choice.
4. Activate WEP encryption on the wireless network adapters and enter the generated 64 or 128 bit key.

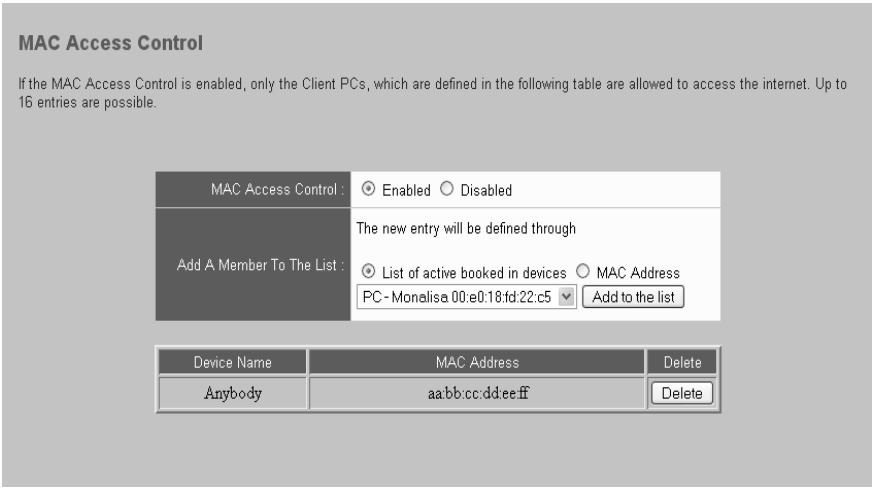
You must use the same keys for encryption and decryption for the Gigaset SE505 dsl/cable and all your wireless network adapters.

i	You will find a detailed example of how to set WEP encryption in the document entitled "Practical Tips and Configuration Examples" on the accompanying CD.

Access control to local network

In this screen you can specify which PC's will have access to your router and hence to your LAN.

- In the ***Wireless Settings*** menu, select ***Access control***.



The default setting for access control is **disabled**. This means that all PC's that use the correct SSID can log in.

Access control is based on the MAC addresses of the network adapters of the PC's. If you wish to use access control, you must put the PC's that will be allowed access on the access control list.

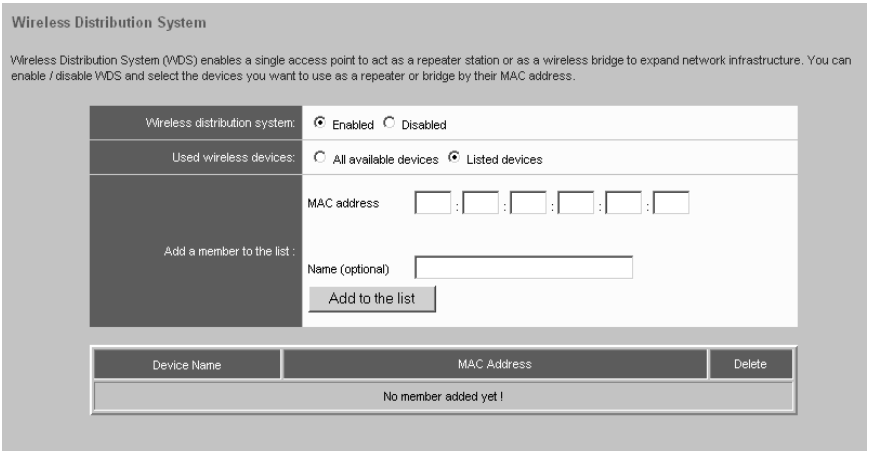
!	When you activate the MAC access control you should at least enter the PC from which you configure the router, otherwise you will no longer be able to access the router's user interface and will see an error message to this effect. If you have denied all your PC's access to the router by mistake, you have two options: ◆ You can completely reset the router (see page 103). ◆ You can connect one PC to the router by one of the LAN connections. Because the MAC access control only applies to PC's that are connected 'wirelessly', you can use this PC to change the router's configuration.

i	You will find a detailed example of how to create an access control list in "Practical Tips and Configuration Examples" on the CD supplied.

Wireless Distribution System (WDS)

If you use a Repeater in your wireless network to extend the range, you must activate the Wireless Distribution System (WDS) function.

- In the ***Wireless Settings*** menu, select ***Wireless distribution system***.



- In the ***Wireless distribution system*** field, select the ***Aktiviert*** option.
- If, in the ***Cableless devices used*** field, you select the ***All available devices*** option, all Repeaters picked up within transmission range will be used for extending the range.

With this option, there is a risk that repeaters from outside networks can gain access to your network. It is safer to enter your network's individual repeaters in a list by means of the MAC address.

- In the ***Cableless devices used*** field, select ***Device list*** and enter the MAC address in the fields underneath. You will find the repeater's MAC address on the underside of the device or in the Site Monitor of the Gigaset WLAN adapter.
- If you are using several repeaters, you can enter a name in the ***Name*** field for easier identification of the device.
- Click on ***Add to list***.
- Once all repeaters are entered in the list, click on ***APPLY***.

i	You will find a detailed example of how to use a repeater in the document entitled "Practical Tips and Configuration Examples" on the accompanying CD.

LAN Configuration

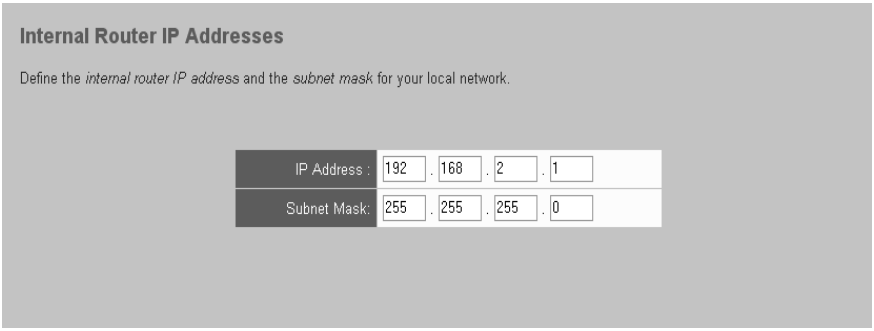
You can use LAN configuration to

- define an IP address for the router (see below),
- enable or disable the router's UPnP functionality (see page 75) and
- configure the router's DHCP server (see page 76).

Defining the router's private IP address

You can change the router's IP address in this screen. The default IP address for the router is 192.186.2.1. This is the router's Private IP address. This is the address under which the router can be reached on the local network. It can be freely assigned from the block of available addresses. The IP address under which the router can be reached from outside is assigned by the Internet Service Provider.

- In the ***LAN*** menu, select ***Private IP address***.



- If you want to assign the router a different IP address, enter it in ***IP Address***.

i	We recommend using an address from a block that is reserved for private use. This address block is 192.168.2.1 - 192.168.255.254.

- The Subnet mask is 255.255.255.0 by default. We advise that you do not change this setting.
- Click on ***APPLY*** to apply the settings.

Using the universal plug and play function

PCs with UPnP (Universal Plug & Play) can offer their own network services and automatically use services offered on the network.

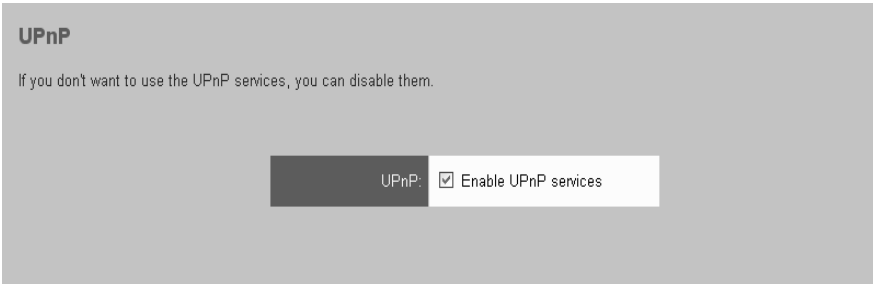
i	The PC must have Windows ME or Windows XP as its operating system. Check whether the UPnP function has been installed in your PC's operating system. It may be necessary to retrospectively install the UPnP components even on Windows XP or Windows ME systems. Please consult your PC's operating instructions.

Once you have installed UPnP in a PC's operating system and activated it on the router, applications on that PC (e.g. Microsoft Messenger) can communicate over the Internet without you having to specifically permit this. In this case the router performs automatic Port Forwarding (see page 84), thereby facilitating communication over the Internet.

Once you have activated UPnP on the router you will see an icon for your Gigaset SE505 dsl/cable on the task bar of the PC's on which UPnP is installed. Windows XP systems will also include the icon under network connections. Clicking on this icon opens the Gigaset SE505 dsl/cable's configuration screens.

To activate the router's UPnP function:

- In the ***LAN*** menu, select ***UPnP***.



- Activate UPnP.
- Click on ***APPLY***.
- Aktivieren Sie UPnP.

i	When the UPnP function is active, external system applications can assign and use Ports on a PC. This may pose a security threat so you should disable the UPnP function if you do not wish to use it.

PC's on which a UPnP application is currently running and the ports that are opened by the application are entered in the UPnP Port Forwarding list.

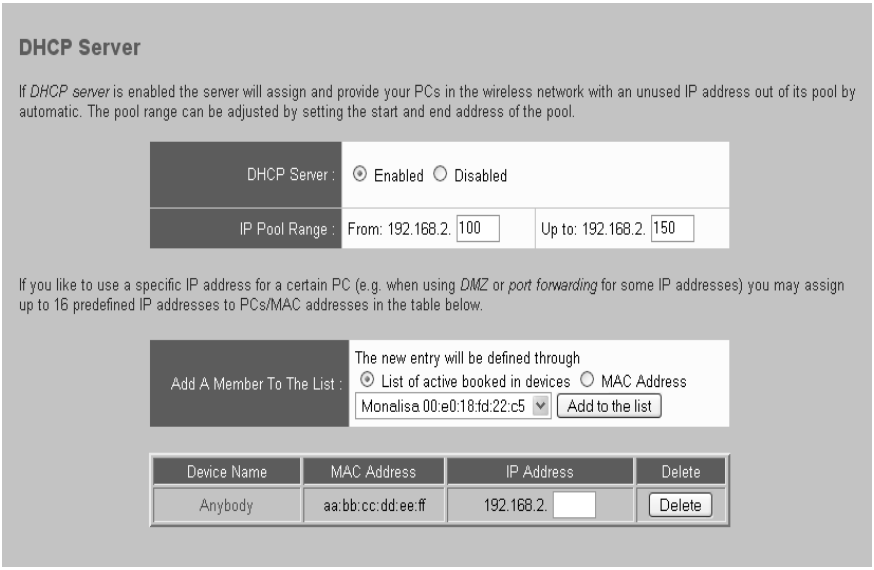
- To view this list, select the ***Port Forwarding*** option on the ***Virtual server*** menu. The list is displayed in then bottom half of the screen.

Configuring the DHCP server

The router has a DHCP Server, whose factory setting is active. As a result, the IP addresses of the PC's are automatically assigned by the router. If you want to assign static IP addresses for the PCs, you will have to deactivate the DHCP server.

i	◆ If the router's DHCP server is active, configure the network settings of your PC's so that the ***Obtain an IP address automatically*** option is checked. To find out how to do this, please turn to the chapter entitled "Configuring the local network" which starts on page 18. ◆ If you deactivate the router's DHCP server, you will have to assign a static IP address for the PC's using the network settings. This is described in "Practical Tips and Configuration Examples" on the CD supplied.

◆ In the ***LAN*** menu, select ***DHCP Server***.



◆ Select ***DHCP Server***.

- IP Pool Range

  In IP Pool Range enter the range of IP addresses which the router should use for automatically assigning IP addresses to the PC's.

  Enter the first and last addresses.

i	The first three fields of the first and last IP address always have the first three fields of the router's IP address as their default setting because the subnet mask is always 255.255.255.x. This means that the first three address segments for all network components must be identical.

In the bottom half of the screen you can create a list of PC's to which the DHCP server will always assign the same IP address. This function is useful when you wish to define filter rules for certain PC's or forward ports to certain PC's (refer to "Filtering Internet access" on page 81 or "Port Forwarding" on page 84). The relevant PC must always have the same IP address.

You can create the list of PC's in two ways:

- From the list of logged-in PC's.

  You should use this option when the appropriate PC's are logged on.

  – To do this, select the ***List of logged on PC's*** option in the ***Define New Entry*** window.
  – From the list, select the PC's you wish to add to the list, then click on ***Add to list***.

- By entering their MAC address

  You should use this option when the PC's you wish to add to the list are not currently logged onto the router.

  Note: You can find out the MAC addresses of the wireless network adapters of the PC's with the command *ipconfig /all* on the relevant PC's.

  – In the ***Define New Entry*** window, select ***MAC Address***.
  – Now enter the MAC addresses of the PC's you wish to add to the list. To improve clarity, type in a name for the PC, then click on ***Add to list***.

- To remove an entry from the list, click on ***Delete*** in the right hand column of the list entry.

- Click on ***APPLY*** to apply the settings.

WAN Configuration

Once you have configured your router with the Basic Setup, you have already configured the WAN connection (Internet access) of your router. Use the WAN configuration option in Advanced Setup to check and change these settings.

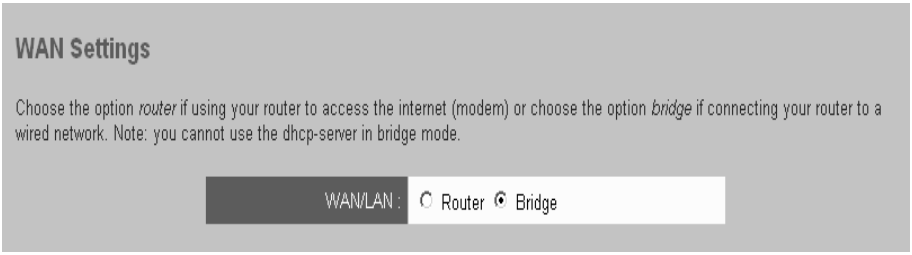
You can also change the operating mode of the Gigaset SE505 dsl/cable. The Gigaset SE505 dsl/cable is supplied as Router but you can also use it as a Bridge.

i	In ***Bridge*** mode, the WAN connection is configured as a connection with other LAN's and cannot be used for Internet access.

To edit the router's WAN settings:

- Select the ***WAN*** menu.
- Select the desired operating mode ***Router*** or ***Bridge***.

Configuring as a Bridge



If you select ***Bridge*** for the router, it can be used as a link between its local network (LAN) and other LAN segments.

i	You must select ***Bridge*** mode if you wish to use the Roaming function with your Gigaset SE505 dsl/cable. In this case you should connect it up to an Ethernet with the WAN connection.

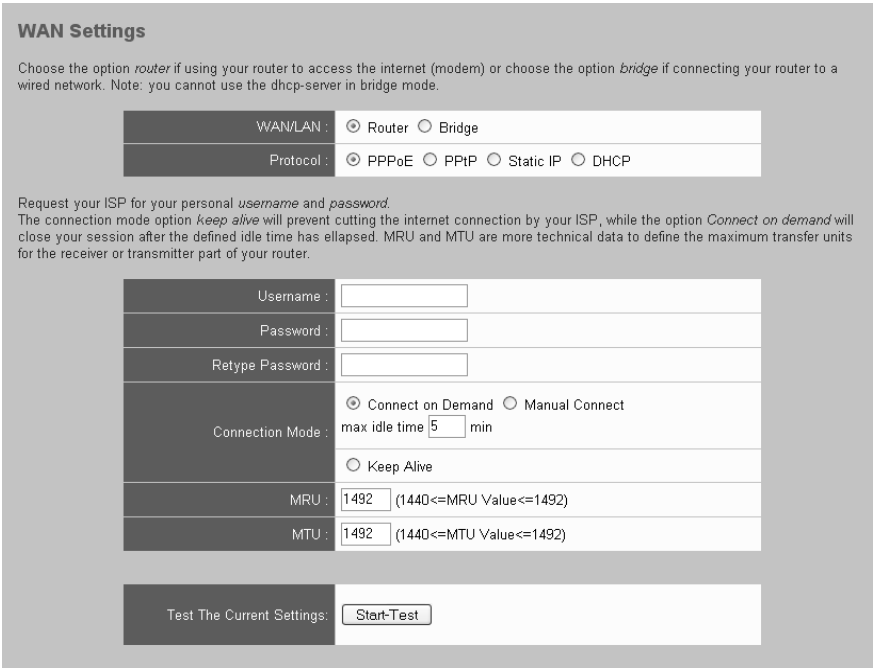
- Click on ***APPLY*** to apply the setting.

Configuring as a Router

When you select Router mode, the various WAN connection types are shown.

- Click on the connection type you are using.

  You will now see the corresponding configuration parameters (PPPoE in this example).



The following connection types are available:

- Select ***PPPoE***, if you use PPP over Ethernet (PPPoE) for your WAN connection (e. g. for T-DSL (T-Online)). Configuration is similar to Basic Setup, as described on page 53.

  In addition to the parameters available in Basic Setup, you can also make the following entries:

- ***Maximum idle time***

  This is the period of time after which the Internet connection is closed down automatically if no data is transmitted.

  – If you select ***Keep Alive*** the Internet connection will be on continuously. This can lead to high charges if you are using a time-based pricing system!
  – You should not normally have to change the settings for MRU and MTU.

- Select ***PPTP***, if you use the Point-to-Point Tunneling Protocol (PPTP) for your WAN connection. Configuration is similar to Basic Setup, as described on page 56.

  In addition to the parameters available in Basic Setup, you can also make the following entries:

- ***Maximum idle time***
  This is the period of time after which the Internet connection is closed down automatically if no data is transmitted.
- If you select ***Keep Alive*** the Internet connection will be on continuously. This can lead to high charges if you are using a time-based pricing system!

◆ Select ***Static***, if the router's WAN connection is assigned a Static (fixed) IP address by your Internet Service Provider. Configuration is similar to Basic Setup, as described on page 55.

In addition to the parameters available in Basic Setup, you can also make the following entries:

- ***DNS Server***
  Enter the IP addressed of your preferred DNS servers. If you do not specify a DNS server, your Internet Service Provider will use his default DNS server.
- ***Domain name***
  Enter your router's domain name if your ISP has given you one.

◆ Select ***Dynamic***, if the router's WAN connection is assigned a Dynamic IP address by your Internet Service Provider. Configuration is similar to Basic Setup, as described on page 54.

i	If your Internet Service Provider used the MAC address of one of your PC's for registration when setting up your Internet access, only connect the PC with the registered MAC address to the router and click on ***Clone MAC Address***. This will replace the router's current MAC address by the already registered MAC address of the PC. If you are not sure which PC was used as the identifier, have your Internet Service Provider register a new MAC address for your account. Then use this MAC address for the router.

◆ Once you have entered the access data and parameters, launch the connection test by clicking on ***Test***.

This opens a window in which you will see the test steps and the test result (see page 57).

If the test fails, check that

- all the necessary cables are connected
- the various devices are connected to the power supply
- the necessary LED's light up

If you cannot find any hardware problems, check your settings again.

◆ Close the test window.

◆ Click on ***APPLY*** to apply the setting.

i	Remember that configuration saves the access data for your WAN connection in the router. Before passing your router on to somebody else or having your dealer replace it, you should first restore the factory settings. Otherwise unauthorised persons may use your Internet access data at your expense. Turn to page 103 to find out how to reset your router.

Filtering Internet access

You can use the ***Filter*** menu to make settings that will enhance the security of your network. You can

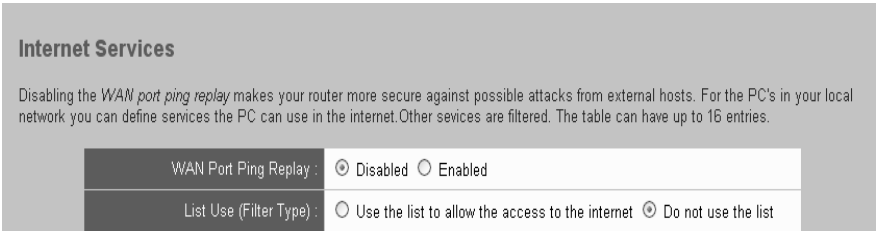
- protect your LAN against ping attacks from the Internet (see below),
- restrict Internet access to selected PC's and for selected services (see below), and
- restrict access by members of your LAN to selected websites (see page 82).

Preventing ping attacks from the Internet

Ping is a command which can be used on the Internet to find out the existence of network members. If your router is 'visible' on the Internet, it may be an easy target for attack by hackers. You should therefore deselect this option.

For test purposes, trouble-shooting etc. it may be useful to reply to a ping, and you can enable the option temporarily in this case.

- In the ***Filter*** menu, select ***Internet Services***.



- Select or deselect ***WAN Port Ping Reply***.
- Click on ***APPLY*** to apply the setting.

Restricting access of local PC's to the Internet

By default, your router is set up to allow all PC's that are logged on to it to use all Internet services.

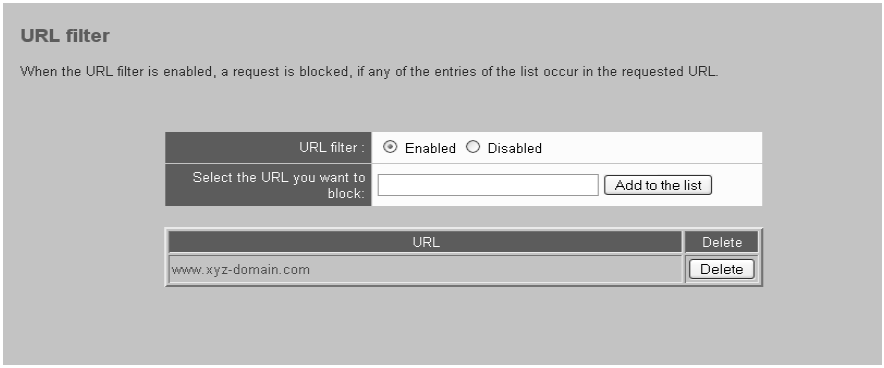
You can use the filter function to specify which PC's are allowed to use which service, and so enhance the security of your LAN. To do this, use the ***Filter*** screen shown above.

i	You will find an example of how to create an Internet filter in "Practical Tips and Configuration Examples" on the CD supplied.

Restricting access to certain Internet domains and sites

You can prevent members of your LAN accessing certain Internet domains and sites by defining a filter for URL's. Filtering a URL means that the specified URL and all of the URL's downstream of it are blocked for access. Specifying a domain name blocks the complete domain with all of its dependent URL's.

- In the ***Filter*** menu, select ***URL Filter***.



i	You will find a detailed example of how to set up URL blocks in "Practical Tips and Configuration Examples" on the CD supplied.

Setting up the router as a virtual server

If you want to offer files or Web services that are on a PC in your local network to other Internet users, set the PC up as a server (e. g. as FTP or HTTP server). However the router's Firewall function does not normally allow PC's in the LAN to be accessed from "outside". To make services that are provided by local PC's available on the Internet therefore, you should

- either put the PC on which the server application is running in a so-called demilitarised zone (DMZ) (see page 83) or
- set up the router as a virtual server. In this case, Port Forwarding will forward requests for the service which the router receives from the Internet to the PC that provides the service (see page 84).

  If your router gets a Dynamic IP address from your ISP, you must make sure that the service is always available despite the router's changing IP address. You can use the router's DynDNS function for this (see page 85).

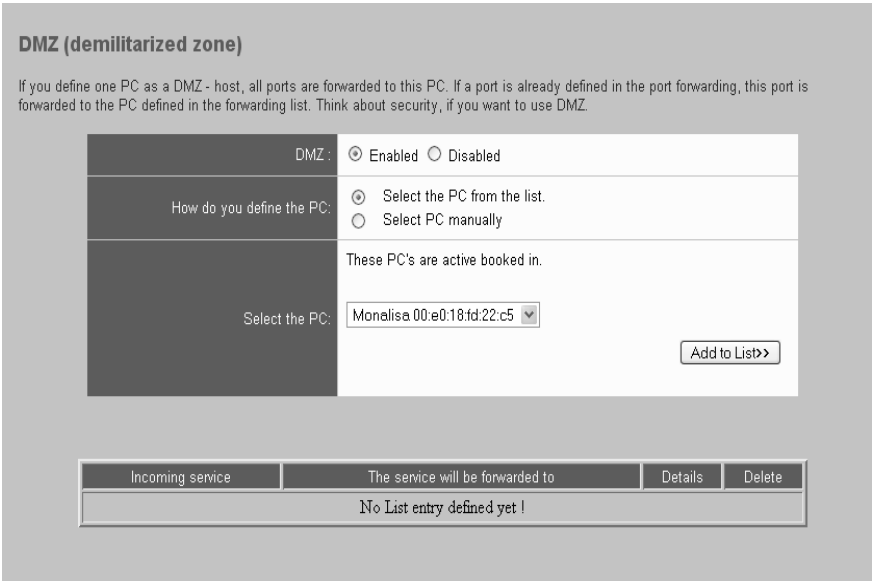
i	You will find a detailed example of how to set up URL blocks in "Practical Tips and Configuration Examples" on the CD supplied.

Opening the firewall for selected PC's (DMZ)

PC's inside the LAN cannot be accessed from the Internet by default. The router protects the LAN by its Firewall. Some applications do not work properly behind a firewall because they require unrestricted data flow in both directions. In this case you can define a so-called demilitarised zone (DMZ) for a PC running such applications. When you create a DMZ, all requests for a service that come from the Internet will be forwarded to that PC unless the service has already been forwarded to another PC by Port Forwarding (see page 84).

!	Please bear in mind that the demilitarised PC is no longer protected against unauthorised access from the Internet and as such could be a security risk for your network. You should use this option only in emergency situations.

- To create a DMZ for a PC, select ***DMZ*** in the ***Virtual server*** menu.



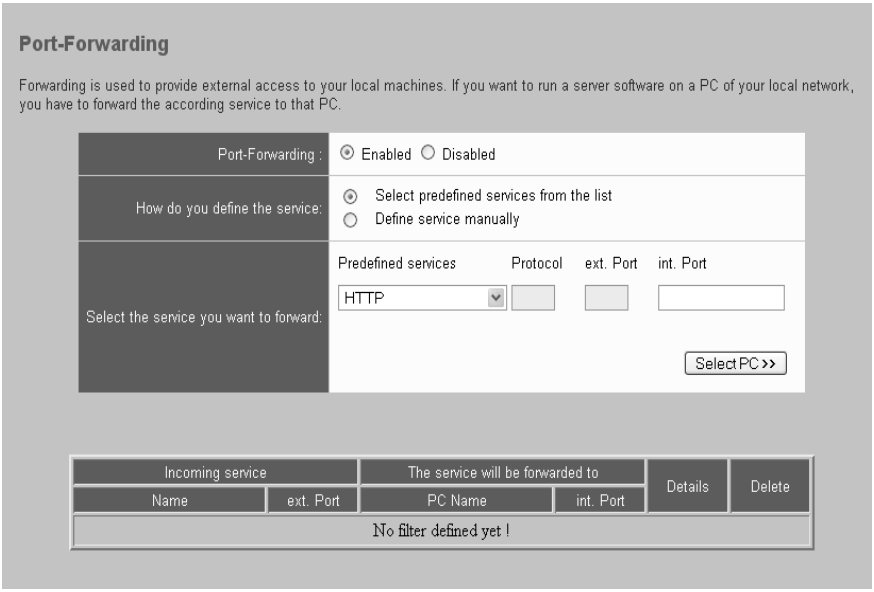
i	You will find an example of how to create a DMZ in "Practical Tips and Configuration Examples" on the CD supplied.

Port Forwarding

Port Forwarding (the forwarding of requests to particular ports) is needed when you wish to operate Server services for the Internet on a PC in your LAN. For example, on one of your PC's you could run a Web server which provides HTML pages. In this case the router acts as the Virtual server, forwarding requests for an HTML page from the Internet to the designated PC on which the Web server is running. Externally the router takes on the role of the server. It receives requests from remote users under its public IP address and automatically redirects them to local PC's. The private IP addresses of the servers on the local network remain protected.

Internet services are addressed by defined Ports. The router needs a mapping table of the port numbers to redirect the service requests to the server that actually provides the service. You must create this mapping table.

- To set up Port Forwarding for a service, select ***Port Forwarding*** in the ***Virtual server*** menu.



i	You will find an example of Port Forwarding in "Practical Tips and Configuration Examples" on the CD supplied.

Activating dynamic DNS

A service which you wish to provide on the Internet can be accessed by a Domain name. Your router's Public IP address is assigned to this Domain name. If your Internet Service Provider assigns the IP address for your local network's WAN connection dynamically, then the IP address of the router may change. The assignment to the Domain name will no longer be valid and your service will no longer be available.

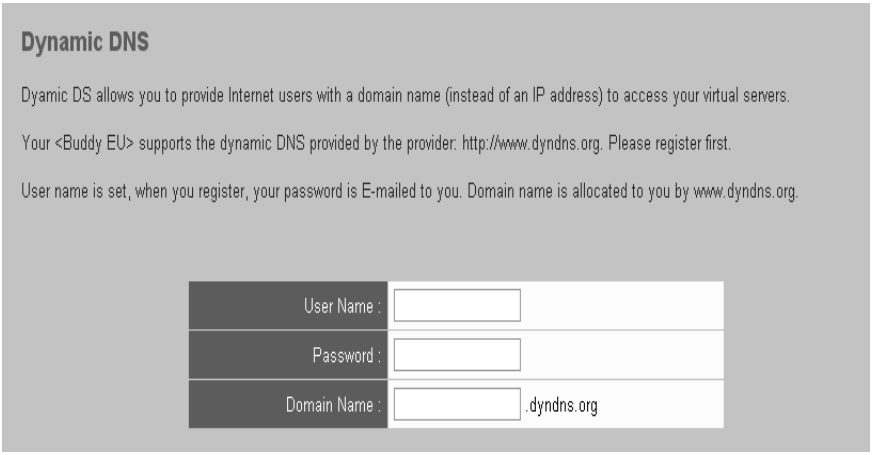
In this case you must ensure that the assignment of the IP address to the Domain name is regularly updated. This is handled by the dynamic DNS Service (DynDNS). You can use the DynDNS service to assign your Gigaset Router an individual static Domain name on the Internet even if it does not have a static IP address.

There are various providers on the Internet offering free DynDNS Service. The Gigaset SE505 dsl/cable uses the DynDNS Service from **DynDNS.org** (http://www.DynDNS.org). If you use the service of this DynDNS provider, then your service can be reached on the Internet as a subdomain of one of the DynDNS.org domains.

If you have activated the router's DynDNS function, it will monitor its public IP address. When this changes, it will open a connection to DynDNS.org and update its IP address there.

i	You have to open an account with DynDNS.org before you can use the router's DynDNS function. Follow the instructions on the DynDNS.org website. Then enter the account user data when configuring the router.

- To use the router's DynDNS function, select ***Dynamic DNS*** in the ***Virtual server*** menu.



- Enter the ***User name***, ***Password*** and ***Domain name***. You will have received these from DynDNS.org when you registered. A typical domain name might be: my_domain.dyndns.org
- Click on ***APPLY*** to apply the settings.

Administration of the Gigaset SE505 dsl/cable

The Gigaset SE505 dsl/cable user interface includes several helpful functions for administering your router. You can

- open and close an Internet connection manually (see below),
- set the router's time and time zone (see page 87),
- set or change a configuration password (see page 89),
- assign a PC for Remote Management (see page 90),
- restart the router (see page 90),
- update the router firmware (see page 91),
- save, and if necessary restore, the router's configuration settings (see page 93),
- view information about the router configuration and status (see page 94).

Manually open or close an Internet connection

You can open or close an Internet connection manually. If for example you deactivated Auto Connect when you configured your Internet access, Internet applications (such as your browser or email application) will not automatically open a connection when they are launched. In this case, you will have to open the connection manually when it is required and also close it again when you are finished with it.

Opening and closing an Internet connection manually:

- Open the router's start screen as described on page 45.

  If you have already started the configuration environment, click on ***Home*** on the navigation bar.

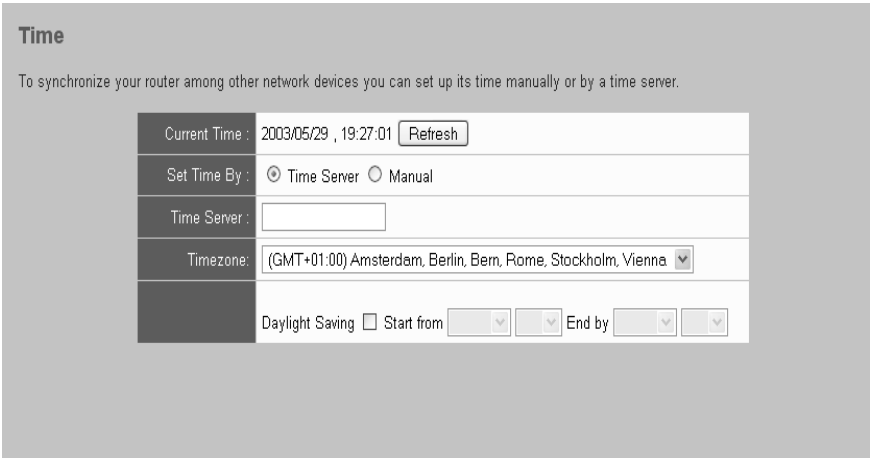
  If you have not yet started the configuration environment, start it now and log on.
- Click on ***Connect*** to open a connection to the Internet.

  Click on ***Disconnect*** to close an Internet connection.

Setting the time and time zone

To set the time or the time zone on your router, proceed as follows:

- In the ***Administration*** menu, select ***Time***.



Set the time

You can set the time on your router in one of two ways:

- Manually
  To do this, select the ***manual*** option in the ***Set Time By*** window.
  You will now see boxes in which you can enter the year, month, day, hours and minutes.
- Automatically
  To do this, select the ***Time Server*** option in the ***Set Time By*** window.
- Enter the name or IP address of a Time Server in the ***Time Server*** window.

i	Possible time servers include: ◆ ptbtime1.ptb.de ◆ ntp.curie.fr ◆ tempo.cstv.to.cnr.it ◆ ntp0.nl.net ◆ chronos.csr.net

- Click on ***Refresh*** to obtain the current time from the Time Server.
- Click on ***APPLY*** to apply the settings.

Setting the Time Zone

Information about the time zone is important for various time-dependent operations on the Internet. For example, the data packets sent in a particular country have to be sorted in the correct chronological order in the receiver's country. Access control to particular services can also be defined using time-based rules.

If you have configured your router with Basic Setup, then the time zone was automatically defined according to your setting for the ***Country***. You can change the setting here.

- Select your time zone from the selection list.
- If your time zone has summer and winter time, select ***Daylight Saving*** and use the pick lists to specify the start and end of summer time (daylight saving).
- Click on ***APPLY*** to apply the settings.

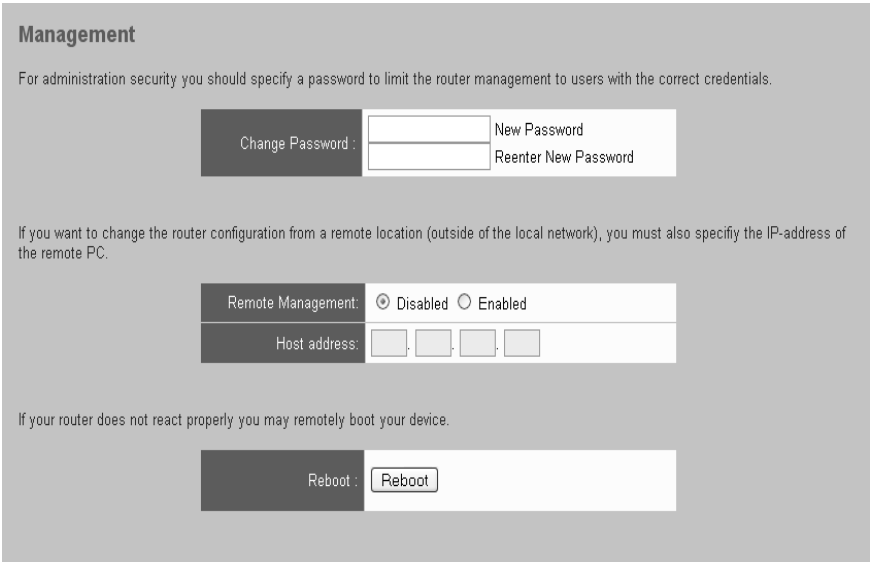
Router management

You can use the administration functions of your router

- to set a password for your router's configuration environment,
- to select a PC for Remote Management and
- to restart the router.

This is done as follows:

- In the ***Administration*** menu, select ***Management***.



Assign password

After installation, your router configuration is not yet protected with a password. To prevent unauthorised changes to the configuration, you should set a password and change this password from time to time. You may have already set a password in the security setup. If so, you can change it here.

- Type a password in the ***New password*** window.

- Type the password again in the ***Reenter new password*** window.

The password may contain up to 32 characters. It is not case sensitive. Avoid proper names and all too obvious words. Use a combination of letters, numbers and special characters.

i	If you ever forget the password you will have to reset your router (see page 103). Please bear in mind that this will restore **all** the settings to the factory configuration. No password will be active either.

- Click on ***APPLY*** to apply the settings.

Setting the Remote Management

Remote Management enables a PC that is not on your local network to be used to configure the Gigaset SE505 dsl/cable with a standard Web browser.

- Select ***Remote Management***.
- In ***Host address*** enter the IP address of the PC that is to have access to the router's user interface from outside your local network.

i	◆ Remember that the Internet Service Provider may assign a dynamic IP address to the PC and so that it will change. Make sure that the PC always has the same IP address. ◆ If you use the IP address 0.0.0.0, any PC can be used to manage the Gigaset SE505 dsl/cable.

- Click on ***APPLY*** to apply the settings.

Restart the router

You can reboot your router if it no longer functions properly. It should then be ready for use again.

- To do this, click on ***Reboot***.

  Rebooting the router takes a few seconds.

i	You can also reboot the router by unplugging the power lead and then plugging it in again.

Firmware Upgrade

Update the firmware,

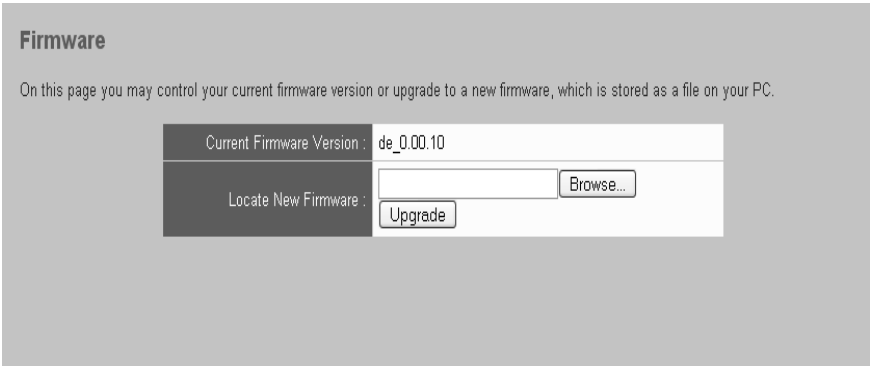
- when Siemens provides a new firmware version
- you wish to use a language that is not preset in the router (the preset languages are English and German). Please refer to the description on page 46.

If you wish to load the latest firmware on your router you will first need the new firmware release. You will find this on the Siemens website www.siemens-mobile.com/gigasetse505. Download the new firmware from the Siemens website and save it on your PC.

i	If you have undertaken an extensive configuration on your router, it makes sense to save the configuration before you load the new firmware onto the router (see section entitled "Saving and restoring a configuration" on page 93).

Now proceed as follows:

- Close down all network activities on your local network.
- In the ***Administration*** menu, select ***Firmware Upgrade***.



- Click on ***Browse*** and from your file system select the file you have downloaded from the Internet. The required file has the format *siemens_nn.x.yy.zz.*, *nn* being the symbol for the required language:

  de Germany
  fr France
  it Italy
  nl Netherlands
  sp Spain

  x.yy.zz stands for the release number of the firmware, e.g. *siemens_fr_3.00.05*.

i	Each of the above language versions loads the English firmware on the router at the same time.

- Click on ***Upgrade***.
- A window will appear prompting you to confirm that you want to update the firmware. Click on ***OK***.

!	Do not switch off the router or PC during this procedure, and do not interrupt the connection. Make sure there is a secure wireless connection or connect the router via a cable, ensuring that the connection is uninterrupted during the update procedure. We recommend a cable connection. If the update procedure is not carried out properly, the device may become unusable.

- The next window will warn you that the router will not be available for a short while during the update procedure. Acknowledge this message **promptly** with ***OK***.

!	Some browsers will cancel the update procedure if you do not click on ***OK*** immediately.

The firmware will now be updated.

After a successful update, the router is automatically rebooted. All the LED's will go out. The power LED will light up again when the process is complete. The browser will show the router login screen.

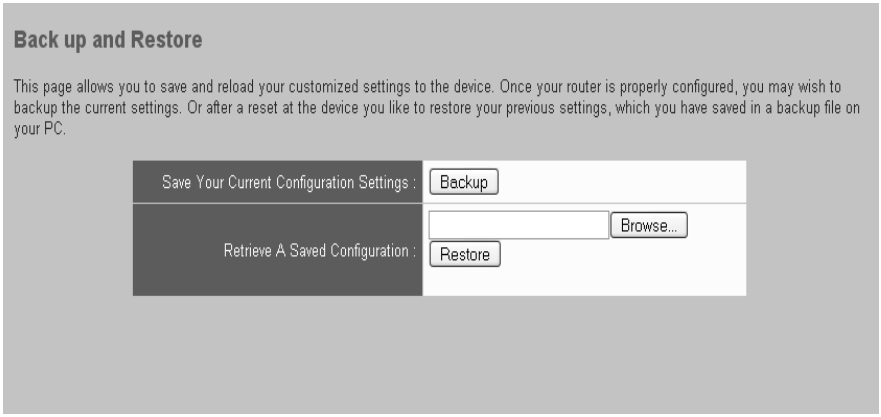
i	- In the ***Status*** screen on the ***Overview*** page, you can check whether the update was successfully executed (see page 95). The router's current firmware version is displayed here. - If you have successfully loaded a more recent firmware version onto the router, we recommend that you reset the router to its factory defaults (see page 103). Then restore the configuration (see section entitled "Saving and restoring a configuration" on page 93).

Saving and restoring a configuration

Once you have configured your router, it is advisable to back up the settings. Then you can restore them at any time, should they be accidentally deleted or overwritten.

i	If you have loaded a new firmware version onto the router before resetting the configuration, the configuration will not be restored in a small number of cases. If this happens, the saved old data will not match the new firmware. In this case, we recommend that you reset the router to its factory defaults (see page 103) and manually re-enter the configuration data.

- In the ***Administration*** menu, select ***Backup and Restore***.



Save configuration data

- Click on ***Backup***.
- Your browser opens a file selection window where you can specify the file you wish to store in the backup file. On your local PC select a directory where you wish to store the configuration file, and enter a name for the file.

Once the procedure has been completed, the current configuration data of your router will have been backed up in the specified file.

Restoring the back-up

- Click on ***Browse*** and in your file system select the backup file with which you wish to restore the configuration.
- Click on ***Restore***.
- A window will appear prompting you to confirm the restore. Click on ***OK***.
- The next window will warn you that the router will not be available for a short while during the procedure. Click on ***OK*** to close this message.

The configuration will now be updated.

Displaying the router's Status

The Status screens show information about the router's configuration and connection status. You can view the following status screens:

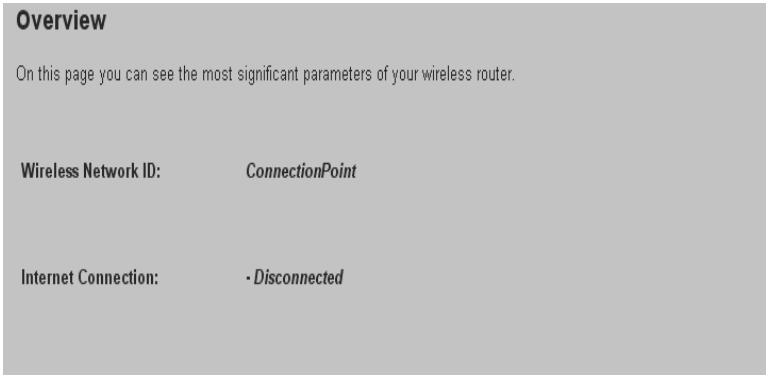
- Overview (see page 95)
- Wireless (see page 96)
- PC's in the Local Network (see page 97)
- Internet (see page 98)
- Log File (see page 99)

To view a Status screen, proceed as follows:

- Select ***Status*** on the main screen.
- On the navigation bar, select the option with the information you require.

Overview

The ***Overview*** screen displays the following information:



Service Set Identifier (SSID) Your router is identified in the wireless local network by this identifier. You must use this SSID for all additional PC's which you wish to log on to your router.

Internet Connection Indicates the type of Internet access.

PPPoE	Connected by Point to Point Protocol over Ethernet
PPTP	Connected by Point to Point Tunneling Protocol
Static	Connection with fixed IP address
Dynamic	Connection with dynamic IP address (DHCP Client)

It also shows whether you are currently connected to the Internet or not.

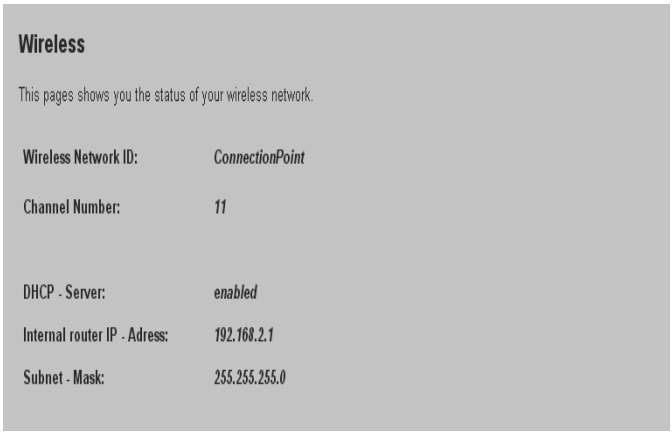
System Time Shows the current date and the current time.

You can set the system time in the *Advanced Setup* with the ***Administration - Time*** option.

Firmware Version Shows the firmware version of your router. You should be able to quote the firmware version when getting help on the Siemens Hotline.

Wireless

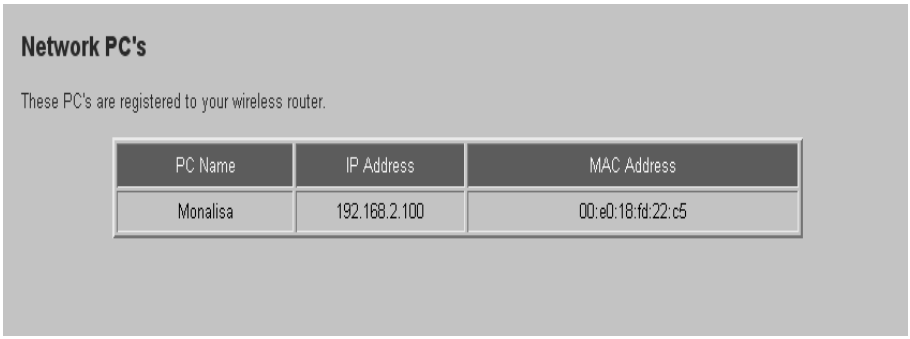
The ***Wireless*** screen displays the following information:



Service Set Identifier (SSID)	Your router is identified in the wireless local network by this identifier. You must use this SSID for all additional PC's which you wish to log on to your router. You can change this ID in the Advanced Setup using the ***Wireless Settings*** - ***Basic Settings*** option.
Channel Number	The channel on which your router communicates with the PC's which are connected to it wirelessly. You can set the channel number in the *Advanced Setup* with the ***Wireless Settings*** - ***Basic Settings*** option.
DHCP Server	The DHCP Server of the router automatically assigns dynamic IP addresses to the PC's in the local network when it is activated. This shows whether the DHCP Server is enabled or disabled. You can change this setting in the *Advanced Setup* with the ***LAN*** - ***DHCP Server*** option.
Internal Router IP Address	Shows the Private IP address of your router in the local network. This is different from the IP address which your router has on the Internet (Public IP address). The default internal IP address for the router is 192.168.2.1. You can change this setting in the *Advanced Setup* with the ***LAN*** - ***Private IP address*** option.
Subnet Mask	Indicates the router's Subnet mask. All PC's that are connected to the router must use this subnet mask.

PC's in the Local Network

You will find information about the PC's currently logged on to the router on the page entitled ***PC's in the Local Network***.



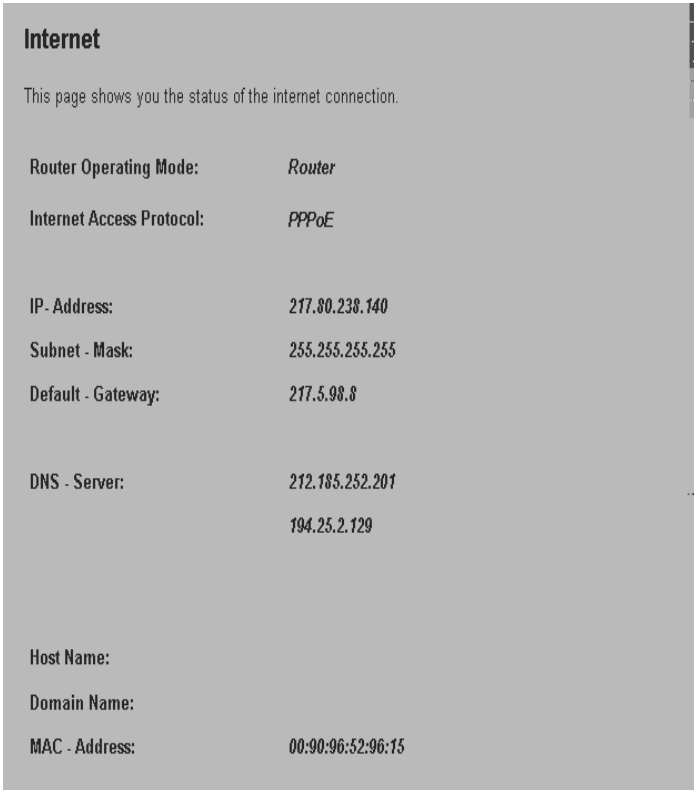
PC Name Name of the PC (if any), e.g. (*MyWindowsPC*).

IP Address IP address of the PC in the local network.

MAC address The hardware address of the network adapter with which the PC is connected to the router.

Internet

The ***Internet*** screen displays the following information:



Router Operating Mode Your router can be used as a router for Internet connections or as a bridge to connect the wireless local network to other local networks (e.g. Ethernet).

You can change this setting in the *Advanced Setup* with the ***WAN*** option.

Internet Access Protocol The Protocol that is used for Internet access will depend on your ISP.

PPPoE	Connected by Point to Point Protocol over Ethernet
PPTP	Connected by Point to Point Tunneling Protocol
Static	Connection with fixed IP address
Dynamic	Connection with dynamic IP address (DHCP Client)

IP Address	Shows the IP address of your router on the Internet (Public IP address). This is different from the IP address which your router has in the local network (Private IP address). The public IP address is assigned to the router by your ISP.
Subnet Mask	Indicates the router's Subnet mask on the Internet. This subnet mask is assigned by your ISP.
Default Gateway	This is the IP address to which your router sends outgoing data packets first.
DNS Server	This is the IP address of the DNS Server.
Host Name	The name of the router on the Internet, if a host name has been configured.
Domain Name	This is the Domain name of the router on the Internet, if a domain name has been configured.
MAC Address	This is the physical address of the WAN connection of your router.

Log File

The log file of Internet connections is shown on the ***Log File*** screen. This file logs information about all the Internet connections and connection attempts. If you experience problems accessing the Internet, then this data may be useful when getting help on the Siemens Hotline.

- To clear the log file, click on ***Delete***. Now the events that occur from this time on will be displayed.

i	The log file has a maximum length. The oldest entries are deleted automatically.

Appendix

Fault tracing

This chapter describes common problems and their solution. The Gigaset SE505 dsl/cable is easy to monitor thanks to its LED displays. Problems can be quickly identified. If you cannot solve the connection problem after checking the LED displays, please consult the other sections of the following table.

Symptom	Possible cause and solutions
Power lamp does not light up.	No power supply. ◆ Check whether the mains adapter is connected to the Gigaset SE505 dsl/cable and a power outlet. ◆ Check whether the power outlet and the mains adapter are working properly. If the mains adapter is not working properly, please get in touch with our customer service unit (see page 110).
The LAN LED on a connected device does not light up.	No LAN connection ◆ Make sure that the connected device is switched on. ◆ Check whether the Ethernet cable is plugged in. ◆ Check that you are using the right cable type (CAT 3, 4 or 5) and that the cable is not too long (100 m). ◆ Check that the network card on the connected device and the cables are not defective. If necessary, replace a defective network card or cable. ◆ Use the Windows device manager (***My Computer*** - ***Properties***) to check whether the network card is functioning. If you see a red cross or a question mark, then the driver may not have been installed or there is a resource conflict. Follow the Windows instructions to remedy the problem.
WAN LED does not light up.	◆ Make sure that the connected modem is switched on. ◆ Check that the connection cable is plugged in.

Symptom	Possible cause and solutions
You cannot connect to the Internet.	◆ Check that you are using the right cable to connect to the modem. Depending on the modem you are using, the cable must have either straight or cross wiring. Please consult your modem operating instructions. The Ethernet cable supplied has straight wiring. ◆ Check whether the ***Auto Connect*** option has been deactivated (for PPPoE or PPTP connections). In this case, connections cannot be opened automatically. Select ***Auto Connect***. Remember that this setting may lead to higher costs if you are billed on the time used. ◆ The connection may have been terminated manually with the ***Auto Connect*** option selected. – Open the connection manually using the ***Connect*** button again or – restart your router. In both cases, the ***Auto Connect*** setting will be active again.
You cannot open a connection from a wireless device to the Gigaset SE505 dsl/cable.	The wireless network adapter is not using the correct SSID. ◆ Change the SSID on the network adapter. Either encryption is enabled on the Gigaset SE505 dsl/cable but not on the wireless network adapter, or it is not using the correct key. ◆ Activate the correct encryption method with the correct key on the network adapter. If you do not know the key, you will have to reset your router (see page 103). **Warning**: Please bear in mind that this will restore **all** configuration settings to the factory settings.
The Gigaset SE505 dsl/cable or other PC's cannot be reached by a PC in the connected LAN with a *ping* command.	◆ Make sure that TCP/IP has been installed and configured on all the PCs on the local network. ◆ Check that the IP addresses have been properly configured. In most cases, you can use the Gigaset SE505 dsl/cable's DHCP function to assign dynamic addresses to the PC's in the LAN. In this case, you have to configure the TCP/IP settings of all the PC's so that they obtain the IP address automatically. If you configure the IP addresses in the LAN manually, remember to use the subnet mask 255.255.255.x. This means that the first three parts of the IP address on each PC and the router have to be identical. The router also has to be configured as DNS server and as default router.

Symptom	Possible cause and solutions
No connection to the router's configuration environment	◆ Use the *ping* command to check whether you can establish a network connection to the Gigaset SE505 dsl/cable. ◆ Check the network cable between the PC you want to use to administer the router and the Gigaset SE505 dsl/cable. ◆ If the PC you want to use is on the router's local network, make sure that you are using the correct IP address administration (see above). ◆ If the PC you want to use is not on the router's local network it must be authorised via Remote Management.
Password forgotten or lost	◆ Reset the router (see page 103). **Warning**: Please bear in mind that this will restore **all** configuration settings to the factory settings.
You cannot access a resource (drive or printer) on a different PC	◆ Make sure that TCP/IP has been installed and configured on all the PC's on the local network and that the PC's all belong to the same workgroup. ◆ Check whether the resource has been released on the PC in question and whether you have the necessary access rights. ◆ Printing: Check whether the printer has been set up as a network printer.

Restoring the Router's factory settings

If you have made configuration settings on the router in error, with the result that you can no longer access the router's configuration interface, you can reset the router to its factory settings.

You may need to do this, for example, if you have forgotten your password, if you have activated WEP encryption but have forgotten the key for configuring the network adapters, or if you activate the access control for wireless access to the local network but the access list is empty (see page 64).

!	Remember that a complete router reset will reset **all** your configuration settings to the factory settings. This means that you will have to reconfigure your router from scratch.

To reset your router to its factory settings, proceed as follows:

- Switch off the router by unplugging the power cord from it.
- Press and hold down the reset button on the rear of the device.
- Still holding the reset button, switch the router on again. Plug the power lead in again as well.
- Wait at least 7 seconds. Then release the reset button.

It will take a few seconds for the router to restart. You can now log on again and configure the router once more.

Specifications

Interfaces

1 WAN Interface	10Base-T/100Base-TX, Autosensing
4 LAN Interfaces	10Base-T/100Base-TX, Autosensing, RJ45

Radio characteristics

Frequency range	2400 to 2484 GHz ISM band (subject to local regulations)
Spreading	Direct Sequence Spread Spectrum (DSSS)
Modulation	CCK, OFDM
Number of channels	IEEE 802.11b: 13 (Europe, ETSI), 11 (North America, FCC, IC) IEEE 802.11g: 13 (Europe, ETSI), 11 (North America, FCC, IC)
Transmission rate	IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps

Operating Environment

Temperature	Operating temperature 0 to 45 °C Storage temperature -10 to 70 °C
Humidity	5 % to 80 % (noncondensing)
LED Displays (green)	Power WWW (Internet connection) WLAN (activity, wireless) WAN (connection to modem) LAN1... LAN4 (connection to PC's, wired)

Compliance with safety conditions and regulations

	CE, EN60950
Software	Browser-based configuration environment Languages D, En, Nl, Fr, It, Sp Router and Bridge modes NAT, PPTP, PPoE, Static IP DHCP Server and Client Virtual Private Network (PPTP, L2TP, IPSec Pass-Through) Virtual Server DynDNS Security Setup Firewall, prevention of hacker attacks MAC address filtering URL filtering, domain blocking DoS blocking, SPI Logging WEP encryption, WPA, WPA-PSK, 802.1x

Authorisation

Your Gigaset is intended for operation in your country, as depicted on the underside of the base station. The CE mark attests to the phone's compliance with the essential requirements of the R&TTE directive.

Extract from the original declaration

"We, Siemens AG, declare, that the above mentioned product is manufactured according to our Full Quality Assurance System certified by CETECOM ICT Services GmbH with ANNEX V of the R&TTE-Directive 99/5/EC. The presumption of conformity with the essential requirements regarding Council Directive 99/5/EC is ensured."

The Declaration of Conformity (DoC) has been signed. You can obtain a copy of the original DoC by calling the company's hotline if you require.

CE 0682 ⓘ

Addition for Switzerland

If you need the Declaration of Conformity for Switzerland, please call Customer Care.

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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Our Online Support on the Internet:

www.siemens-mobile.com/customercare

For fast and dependable assistance with any repairs or guarantee/warranty claims, contact our Service Centres.
Service-Center Ireland: 18 50 77 72 77
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You will be given personal advice about our range of products on our Premium Hotline:
United Kingdom: 0906 9597555 (0.75 £/minute)
Please have your record of purchase ready when calling.

In some countries repair and replace services are impossible where the products are not sold through our authorised dealers.

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Without prejudice to any claim the user (customer) may have in relation to the dealer or retailer, the customer shall be granted a manufacturer's Guarantee under the conditions set out below:

- In the case of new devices and their components exhibiting defects resulting from manufacturing and/or material faults within 24 months of purchase, Siemens shall, at its own option and free of charge, either replace the device with another device reflecting the current state of the art, or repair the said device. In respect of parts subject to wear and tear (including but not limited to, batteries, keypads, casing), this warranty shall be valid for six months from the date of purchase.
- This Guarantee shall be invalid if the device defect is attributable to improper treatment and/or failure to comply with information contained in the user manuals.
- This Guarantee shall not apply to or extend to services performed by the authorised dealer or the customer themselves (e.g. installation, configuration, software downloads). User manuals and any software supplied on a separate data medium shall be excluded from the Guarantee.
- The purchase receipt, together with the date of purchase, shall be required as evidence for invoking the Guarantee. Claims under the Guarantee must be submitted within two months of the Guarantee default becoming evident.
- Ownership of devices or components replaced by and returned to Siemens shall vest in Siemens.
- This Guarantee shall apply to new devices purchased in the European Union. The Guarantee is issued by Siemens plc, Siemens House, Oldbury, Bracknell, Berkshire, RG12 8FZ.
- Any other claims resulting out of or in connection with the device shall be excluded from this Guarantee. Nothing in this Guarantee shall attempt to limit or exclude a Customers Statutory Rights, nor the manufacturer's liability for death or personal injury resulting from its negligence.
- The duration of the Guarantee shall not be extended by services rendered under the terms of the Guarantee.
- Insofar as no Guarantee default exists, Siemens reserves the right to charge the customer for replacement or repair.
- The above provisions does not imply a change in the burden of proof to the detriment of the customer.

To invoke this Guarantee, please contact the Siemens telephone service. The relevant number is to be found in the accompanying user guide.

Guarantee certificate (Ireland)

Without prejudice to any claim the user (customer) may have in relation to the dealer or retailer, the customer shall be granted a manufacturer's Guarantee under the conditions set out below:

- In the case of new devices and their components exhibiting defects resulting from manufacturing and/or material faults within 24 months of purchase, Siemens shall, at its own option and free of charge, either replace the device with another device reflecting the current state of the art, or repair the said device. In respect of parts subject to wear and tear (including but not limited to, batteries, keypads, casing), this warranty shall be valid for six months from the date of purchase.
- This Guarantee shall be invalid if the device defect is attributable to improper care or use and/or failure to comply with information contained in the user manuals. In particular claims under the Guarantee cannot be made if:
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  - The software is manipulated
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  - Devices fitted with accessories not authorised by Siemens
- This Guarantee shall not apply to or extend to services performed by the authorised dealer or the customer themselves (e.g. installation, configuration, software downloads). User manuals and any software supplied on a separate data medium shall be excluded from the Guarantee.
- The purchase receipt, together with the date of purchase, shall be required as evidence for invoking the Guarantee. Claims under the Guarantee must be submitted within two months of the Guarantee default becoming evident.
- Ownership of devices or components replaced by and returned to Siemens shall vest in Siemens.
- This Guarantee shall apply to new devices purchased in the European Union. For Products sold in the Republic of Ireland the Guarantee is issued by Siemens Ireland Limited, Ballymoss Road, Sandyford Industrial Estate, Dublin 18 - The Republic of Ireland.
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Hvis brugen af telefonen giver anledning til spørgsmål, kan du få fat i os via vores onlinesupport på web-adressen www.my-siemens.dk/service 24 timer i døgnet. Her kan du få enkel og let tilgængelig hjælp ved tekniske spørgsmål og spørgsmål vedrørende betjening af din telefon.
Du kan også kontakte vores

HelpDesk 35 25 86 00

Spørgsmål vedrørende det offentlige telefonnet bedes rettet til den

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The Declaration of Conformity (DoC) has been signed. In case of need, a copy of the original DoC can be made available via the company hotline.

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www.my-siemens.com/customercare

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Suomi **09-22943700** aukioloaika: maanantai - perjantai klo 9 - 18

Sinua palvelevat Siemensin asiantuntevat työntekijät, joilta saat tietoa tuotteista ja niiden asennuksesta.

Käänny vikatapauksissa Siemens HelpDeskin puoleen. Myyjä vastaa käyttöä koskeviin kysymyksiin.

DSL- ja kaapeliliittymää koskevissa kysymyksissä sinun pitää kääntyä verkko-operaattorin puoleen.

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The Declaration of Conformity (DoC) has been signed. In case of need a copy of the original DoC can be made available via the company hotline.

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- Tämä takuu koskee uusia laitteita, jotka on ostettu ja joita käytetään Euroopan Unionin alueella. Siemens Osakeyhtiö, osoite Majurinkatu 6, 02600 Espoo, Suomi myöntää tämän takuun Suomesta ostetuille tuotteille.
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- Takuuehtojen mukaiset vaihto- ja korjauspalvelut eivät pidennä takuuaikaa.
- Jos laitteessa ei havaita näiden takuuehtojen mukaista virhettä, Siemensillä on oikeus veloittaa ostajalta laitteen vaihto- tai korjauskulut.
- Laitteen vikatapauksessa pyydämme teitä ottamaan yhteyttä ensisijaisesti jälleenmyyjäänne.

Takuuta koskevissa asioissa kannattaa ottaa yhteyttä Siemensin asiakaspalveluun. Asiakaspalvelun puhelinnumero löytyy tuotteen mukana toimitettavista käyttöohjeista.

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Behöver du hjälp med telefonen kan du kontakta inköpsstället. Du är givetvis även välkommen att kontakta oss

www.my-siemens.com/customercare

Frågor kring nätet och tjänster ställs till din operatör.

HelpDesk 09-22943700

Se till att du har tillgång till kvittot.

I länder där vår produkt inte säljs via auktoriserade återförsäljare erbjuds ingen bytes- resp. reparationsgaranti. Gigaset är avsedd för användning i ditt land i enlighet med specifikationerna på undersidan av apparaten. Hänsyn har tagits till särskilda förhållanden i olika länder.

CE-märkningen bekräftar att apparaten uppfyller de grundläggande kraven i direktivet om radioutrustning och teleterminalutrustning.

Utdrag ur originaldeklarationen:

"We, Siemens AG, declare, that the above mentioned product is manufactured according to our Full Quality Assurance System certified by CETECOM ICT Services GmbH in compliance with ANNEX V of the R&TTE-Directive 99/05/EC. The presumption of conformity with the essential requirements regarding Council Directive 99/05/EC is ensured."

Senior Approvals Manager

The Declaration of Conformity (DoC) has been signed. In case of need, a copy of the original DoC can be made available via the company hotline.

CE 0682 ⓘ

Garantivillkor (Sverige)

Denna garanti begränsar inte de rättigheter som användaren (köparen) av enheten har gentemot återförsäljaren. Tillverkaren beviljar garanti för enheten och dess komponenter enligt följande garantivillkor:

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Kundeservice (Customer Care)

Vår **online-brukerstøtte** på Internett:

www.my-siemens.com/customercare

I forbindelse med nødvendige reparasjonsarbeider eller evt. garantikrav får du rask og pålitelig bistand hos våre

servicesentre 22 70 84 00

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Din Gigaset er godkjent for bruk i Norge, slik det fremgår av emballasjen og apparatet. Forhold som er spesifikke for landet er ivaretatt. Ved spørsmål som skyldes forskjeller mellom de offentlige telefonnettene må du ta kontakt med forhandler eller nettoperatør.

CE-merkingen bekrefter at apparatet er i samsvar med de grunnleggende kravene i EU-direktivet for aktivt telekommunikasjonsutstyr.

Utdrag fra originalerklæringen:

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Garanti (Norge)

Gyldighet

Denne apparatgarantien gjelder for sluttbrukeren ("Kunden"). Kundens lovfestede krav overfor forhandler/selger blir ikke ugyldiggjort eller begrenset av denne garantien.

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- Eiendomsretten til utskiftede apparater og deler tilhører oss.
- Kostnadene for materialer og arbeidstid bæres av oss.
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Garantiperiode

- Lovfestede minimumsperioder for tilsvarende garantier vil alltid gå foran våre regler, men ikke mer enn 24 måneder.
- Garantiperioden begynner den datoen kunden kjøper apparatet.
- En utført garantiytelse medfører ikke at garantiperioden forlenges.
- Garantiytelser behandles over hele landet i våre kundeservicesentre.

Garantigiver er Siemens Aktiengesellschaft Tyskland, Schlavenhorst 88, D-46395 Bocholt.

i	Ved innfrielse av garantien ber vi deg kontakte ditt nærmeste "Kundeservice (Customer Care)" på side 113

Serviço de Apoio Clientes (Customer Care)

O nosso **Serviço de Apoio a Clientes** na Internet:

www.my-siemens.com/customercare

No caso de ser necessário reparar os equipamentos, que estejam dentro da garantia, poderá obter ajuda rápida e credível em:

Serviço de Apoio a Clientes Telefone: 21 417 85 85
E-mail: customer.care@siemens.com

Por favor, conserve disponível o recibo da compra.

Para informações técnicas relacionadas com os equipamentos:

Hotline Siemens Telefone: 808 201 521
E-mail: portuguese.helpdesk@siemenssg.com

Tenha à mão a factura de compra quando efectuar a chamada.

Nos países onde os nossos produtos não são vendidos por revendedores autorizados não são oferecidos quaisquer serviços de substituição ou reparação.

O seu Gigaset foi concebido para funcionar no seu país como está indicado na parte de baixo do aparelho. São consideradas particularidades específicas dos países.

A conformidade do aparelho com as exigências da directiva europeia R&TTE é comprovada pelo símbolo CE.

Extracto da declaração original:

"We, Siemens AG, declare, that the above mentioned product is manufactured according to our Full Quality Assurance System certified by CETECOM ICT Services GmbH in compliance with ANNEX V of the R&TTE-Directive 99/5/EC. The presumption of conformity with the essential requirements regarding Council Directive 99/5/EC is ensured"

Senior Approvals Manager

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CE 0682 ⓘ

Garantia (Portugal)

Independentemente dos seus direitos por causa de defeitos perante o vendedor, ao consumidor (cliente) é concedida uma garantia do fabricante, sujeita aos seguintes termos e condições:

- Os equipamentos novos e os respectivos componentes que apresentarem defeito de fabrico dentro de 24 meses a partir da data da compra serão gratuitamente reparados ou substituídos por um equipamento que corresponda ao nível técnico actual. Fica ao critério da Siemens reparar ou substituir o equipamento. Para as peças sujeitas a desgaste (por ex. teclados, baterias, caixas), esta garantia tem validade de seis meses a partir da data da compra.
- Excluem-se desta garantia todos os danos causados por manuseamento incorrecto e/ou por inobservância das informações nos manuais.
- Esta garantia não é aplicável ou extensível a serviços executados por vendedores autorizados ou pelo próprio cliente (por ex., instalação, configuração, download de software). Manuais e software fornecidos num suporte de dados separado também estão excluídos da garantia.
- O talão de compra (com data) é válido para a comprovação da garantia. As reclamações devem ser apresentadas dentro de um mês após a constatação do defeito com direito a garantia.
- Os equipamentos ou componentes substituídos e devolvidos à Siemens passam a ser propriedade da Siemens.
- Esta garantia é válida para novos equipamentos adquiridos na União Europeia. A emissora da garantia é, para Produtos vendidos em Portugal Siemens S.A, Rua Irmão Siemens nº 1, 2720-093 Amadora
- Estão excluídos outros direitos adicionais ou diferentes dos referidos nesta garantia do fabricante. A Siemens não assume a responsabilidade por interrupções operacionais, lucros cessantes, danos indirectos, nem pela perda de dados, de software adicional instalado pelo cliente ou de outras informações. O cliente é responsável pelas cópias de segurança das suas informações. A exclusão da garantia não é válida nos casos em que a garantia seja obrigatória por lei, por exemplo, segundo a lei de responsabilidade civil do produtor, ou em casos de dolo, danos à saúde ou à vida.
- A duracão da garantia não é prorrogada após a execução de um serviço no âmbito da garantia.
- A Siemens reserva-se o direito de cobrar do cliente os custos decorrentes de uma substituição ou de uma reparação que não sejam defeitos abrangidos pela garantia.
- As condições mencionadas nos parágrafos anteriores não estão vinculadas a uma alteração das regras do ónus da prova para a desvantagem do cliente.

Para exercer os seus direitos de garantia, contacte o serviço de assistência técnica por telefone da Siemens. Os números encontram-se no manual de utilização fornecido.

Glossary

802.1x
802.1x is an IEEE standard for the authentication and key management in networks. The purpose of the standard is to provide a secure client login to an Access point. The Access point relays the client's login data (user name and password) to an authentication server (often a RADIUS server). This server verifies the authenticity of the login and the Access point permits login

Access point
An Access Point, such as the Gigaset SE505 dsl/cable, is the centre of a wireless local network (WLAN). It handles the connection of the wireless linked network components and regulates the data traffic in the wireless network. The Access Point also serves as an interface to other networks, e.g. an existing Ethernet LAN or via a modem to the Internet. The operating mode of wireless networks with an Access Point is called Infrastructure mode.

Ad-hoc mode
Ad-hoc mode describes wireless local networks (WLAN), in which the network components set up a spontaneous network without an Access point e.g. several Notebooks in a conference. All the network components are peers. They must have a wireless Network adapter.

Auto Connect
Auto Connect means that applications such as Web browser, Messenger and Email automatically open an Internet connection when they are launched. This can lead to high charges if you are not using Flat rate. This function can be deactivated at the Gigaset SE505 dsl/cable to save call charges.

Bridge
A Bridge connects several network segments to form a joint network, e. g. to make a TCP/IP network. The segments can have different physical characteristics, e. g. different connections such as Ethernet and wireless LANs. Linking individual segments via Bridges allows local networks of practically unlimited size.

See also: Switch, Hub, Router, Gateway

Broadcast
A Broadcast is a data packet not directed to a particular recipient but to all the network components on the network. The Gigaset SE505 dsl/cable does not pass broadcast packets on; they always remain within the local network (LAN) it administers.

BSSID
Basic Service Set ID

BSSID permits unique differentiation of one wireless network (WLAN) from another. In Infrastructure mode the BSSID is the MAC address of the Access point. In wireless networks in Ad-hoc mode the BSSID is the MAC address of any one of the participants.

Client
A Client is an application that requests a service from a Server. For example, an http Client on a PC in a local network requests data, i.e. Web pages from an HTTP Server on the Internet. Frequently the network component (e.g. the PC) on which the Client application is running is also called a Client.

DHCP

Dynamic Host Configuration Protocol

DHCP handles the automatic assignment of IP addresses to network components. It was developed because in large networks – especially the Internet – the defining of IP addresses is very complex as participants frequently move, drop out or new ones join. A DHCP Server automatically assigns the connected network components (DHCP clients) dynamic addresses from a defined IP pool range thus saving a great deal of configuration work. ClientIP Pool RangeDynamic IP address In addition, the address blocks can be used more effectively: since not all participants are on the network at the same time, the same IP address can be assigned to different network components in succession as and when required.

The Gigaset SE505 dsl/cable includes a DHCP Server and so it can automatically assign IP addresses for the PC's on its local network. For specific PC's you can specify that their IP addresses are never changed.

DHCP Server

See DHCP

DMZ

Demilitarised Zone

DMZ describes a part of a network that is outside the Firewall. A DMZ is set up, as it were, between a network you want to protect (e.g. a LAN) and a non-secure network (e.g. the Internet). A DMZ is useful if you want to offer Server services on the Internet which for security reasons are not to be run from behind the firewall or if Internet applications do not work properly behind a firewall. A DMZ permits unrestricted access from the Internet to only one or a few network components, while the other network components remain secure behind the firewall.

DNS

Domain Name System

DNS permits the assignment of IP addresses to computer or Domain names that are easier to remember. A DNS Server has to administer this information for each LAN with an Internet connection. As soon as a page on the Internet is called up, the browser obtains the corresponding IP address from the DNS Server so that it can establish the connection.

On the Internet the assignment of domain names to IP addresses follows a hierarchical system. A local PC only knows the address of the local Name Server. This in turn knows all the addresses of the computers in the local network and the next higher Name Server, which again knows addresses in its network and that of the next Name Server.

DNS Server

See DNS

Domain name

The Domain name is the reference to one or more Web Servers on the Internet. The Domain name is mapped via the DNS service to the corresponding IP address.

DSL
Digital Subscriber Line
DSL is a data transmission technique in which a connection to the Internet can be run at 1.5 Mbps over normal telephone lines. A DSL connection is provided by an Internet Service Provider. It requires a DSL modem.

Dynamic IP address
A dynamic IP address is assigned to a network component automatically by the DHCP. This means that the IP address of a network component can change with every login or at certain intervals.
See also: Static (fixed) IP address

DynDNS
Dynamic DNS
Domain Name Service (DNS) is used to assign Domain names and IP addresses. For Dynamic IP addresses this service is now enhanced with so-called Dynamic DNS (DynDNS). This permits the use of a network component with a changing IP address as a Server on the Internet. DynDNS ensures that a service can always be addressed on the Internet under the same Domain name regardless of the current IP address.

Encryption
Encryption protects confidential information against unauthorised access. With an encryption system data packets can be sent securely over a network. The Gigaset SE505 dsl/cable offers, for safe data transmission in wireless networks, WEP encryption or WPA encryption.

Ethernet
Ethernet is a network technology for local networks (LAN) and has been defined by the IEEE as Standard IEEE 802.3. Ethernet uses a base band cable with a transmission rate of 10 or 100 Mbps.

Firewall
Firewalls are used by network operators as protection against unauthorised external access. This involves a whole bundle of hardware and software actions and technologies that monitor and control the data flow between the private network to be protected and an unprotected network such as the Internet.
See also: NAT

Flat rate
Flat rate is a particular billing system for Internet connections The Internet Service Provider charges a monthly fee regardless of the duration and number of logins.

Full duplex
Data transmission mode in which data can be sent and received at the same time.
See also: Half duplex

Gateway
A Gateway is a device for connecting networks with completely different architectures (addressing, protocols, application interfaces etc.). Although it is not totally correct, the term is also used as a synonym for Router.

Global IP address
See Public IP address

Half duplex
Operating mode for data transfer. Only one party can receive or send data at a time.
See also: Full duplex

http proxy
An HTTP proxy is a Server that network components use for their Internet connections. All requests are sent via the proxy.

Hub
A Hub connects several network components in a star-topology network by sending all the data it receives from one network component to all the other network components.
See also Switch, Bridge, Router, Gateway

IEEE
Institute of Electrical and Electronic Engineers
The IEEE is an international body for defining network standards, especially for standardising LAN technologies, transmission protocols and speeds, and wiring.

IEEE 802.11
IEEE 802.11 is a standard for wireless LAN's in the 2.4 GHz band. In so-called Infrastructure mode terminals can be connected to a base station (Access point) or they can connect with each other spontaneously (Ad-hoc mode).

Infrastructure mode
Infrastructure mode is a way of operating wireless local networks (WLAN), in which an Access point handles the data traffic. Network components cannot establish a direct connection with each other as is the case in Ad-hoc mode.

Internet
The Internet is a wide-area network (WAN) linking several million users around the world. A number of Protocols have been created for exchanging data, and these are known collectively as TCP/IP. All parties on the Internet can be identified by an IP address. Servers are addressed by a Domain name (e.g. siemens.com). Domain names are assigned to IP addresses by the Domain Name Service (DNS).
Among the most important Internet services are:

- electronic mail (email)
- the World Wide Web (WWW)
- file transfer (FTP)
- discussion forums (Usenet / Newsgroups)

Internet Service Provider
An Internet Service Provider offers access to the Internet for a fee.

IP
Internet Protocol
The IP Protocol is one of the TCP/IP protocols. It is responsible for addressing parties in a network using IP addresses, and routes data from the sender to the recipient. It decides the paths along which the data packets travel from the sender to the recipient in a complex network (routing).

IP address

The IP address is the unique network-wide address of a network component in a network based on the TCP/IP protocol (e.g. in a local network (LAN) or on the Internet). The IP address has four parts (decimal numbers) separated by periods (e.g. 192.168.2.1). The IP address comprises the network number and the computer number. Depending on the Subnet mask one, two or three parts form the network number, the remainder the computer number. You can find out the IP address of your PC using the *ipconfig* command.

IP addresses can be assigned manually (see Static (fixed) IP address) or automatically (see Dynamic IP address).

On the Internet Domain names are normally used instead of the IP addresses. DNS is used to assign Domain names to IP addresses.

The Gigaset SE505 dsl/cable has a Private IP address and a Public IP address.

IP Pool Range

The Gigaset SE505 dsl/cable's IP address pool defines a range of IP addresses that the router's DHCP Server can use to assign Dynamic IP addresses.

IPSec

Internet Protocol Security

The term IPSec covers a number of Protocols used for the encrypted transmission of data packets over the Internet. IPSec uses digital certificates for device authentication. IPSec is offered by Internet Service Providers for implementing Virtual Private Networks (VPN).

See also: PPTP, L2TP

ISP

Internet Service Provider

L2TP

Layer Two Tunneling Protocol

L2TP is an extension of PPTP and is offered by Internet Service Providers for implementing Virtual Private Networks (VPN). It covers most of the features of PPTP but with less overhead and is better for managed networks.

LAN

Local Area Network

A local network links network components so that they can exchange data and share resources. The physical range is restricted to a particular area (a site). As a rule the users and operators are identical. A LAN can be connected to other LAN's or to a wide-area network (WAN) such as the Internet.

With the Gigaset SE105 dsl/cable you can set up both a wired local Ethernet network and a wireless IEEE 802.11g-standard network.

Local IP address

See Private IP address

MAC address

Media Access Control

The MAC address is used for the globally unique identification of a Network adapter. It comprises six parts (hexadecimal numbers), e.g. 00-90-96-34-00-1A. The MAC address is assigned by the network adapter manufacturer and cannot be changed.

Mbps
Million bits per second
The transmission speed in a network.

MRU
Maximum Receive Unit
The MRU defines the maximum user data volume within a data packet.

MTU
Maximum Transmission Unit
The MTU defines the maximum length of a data packet that can carried over the network at a time.

NAT
Network Address Translation
NAT is a method for implementing IP addresses (mostly Private IP addresses) in a network on one or more Public IP addresses on the Internet. With NAT several network components in a LAN can share the router's public IP address to connect to the Internet. The network components of the local network are hidden behind the router's IP address registered on the Internet. Because of this security function NAT is frequently used as part of the network Firewall. If you want to make services on a PC in the local network available on the Internet despite NAT, you can configure the Gigaset SE505 dsl/cable as a Virtual server.

Network
A network is a group of devices connected in wired or wireless mode so that they can share resources such as files and peripherals. A general distinction is made between local area networks (LAN) and wide-area networks (WAN).

Network adapter
The network adapter is the hardware device that implements the connection of a network component to a local network. An Ethernet network card is an example of a wired network adapter. The Gigaset PC Card 54 and the Gigaset PCI Card 54 are examples of wireless network adapters.
A network adapter has a unique address, the MAC address.

Port
Data is exchanged between two applications in a network across a port. The port number addresses an application within a network component. The combination of IP address/port number uniquely identifies the recipient or sender of a data packet within a network. Some applications (e.g. Internet services such as HTTP or FTP) work with fixed port numbers, others are allocated a free port number whenever they need one.

Port Forwarding
In Port Forwarding the Gigaset SE505 dsl/cable directs data packets from the Internet that are addressed to a particular Port to the corresponding port of the appropriate network component. This enables servers within the local area network to offer services on the Internet without them needing a Public IP address.
See also: Virtual server

PPPoE

Point-to-Point Protocol over Ethernet

PPPoE is a Protocol for connecting network components in a local Ethernet network to the Internet via a modem.

PPTP

Point-to-Point Tunneling Protocol

An Internet connection using PPTP Protocol that creates a "tunnel" within an Internet connection for a secure private connection in which the data are sent in encrypted form. The PPTP protocol is used in a Virtual Private Network (VPN).

Private IP address

The private IP address is a network component's address within the local area network (LAN). The network operator can assign any address he or she wants. Devices that act as a link from a local network such as the Gigaset SE505 dsl/cable have a private and a Public IP address.

Protocol

A protocol describes the agreements for communication on a network. It contains rules for opening, administering and closing a connection, about data formats, time frames and error handling. Communications between two applications require different protocols at various levels, e.g. the TCP/IP protocols for the Internet.

Public IP address

The public IP address is a network component's address on the Internet. It is assigned by the Internet Service Provider. Devices that create a link from a LAN to the Internet, such as the Gigaset SE505 dsl/cable, have a public and a Private IP address.

Rekey Interval

The rekey interval is the period after which new keys are automatically generated for data encryption with WPA-PSK.

Remote Management

Remote Management refers to the ability to manage a network from a network component that is actually outside the local area network (LAN).

Repeater

A repeater extends the range of a wireless local area network by relaying data from the Access point to additional PCs or Network adapter.

Roaming

In order to extend the range of a wireless local network, roaming involves several Access points or Repeaters which use the same SSID and radio channel and are connected via Ethernet. The PC's within the network can switch dynamically between several Access Points without losing an existing network connection.

Router

A router directs data packets from one local area network (LAN) to another via the fastest route. A router makes it possible to connect networks that have different network technologies. For example, it can link a local network with Ethernet or WLAN technology to the Internet.

See also: Bridge, Switch, Hub, Gateway

Server
A server makes a service available to other network components (Clients). The term Server is often used to refer to a computer or PC. However it can also mean an application that provides a particular service such as DNS or a Web service.

SMTP
Simple Mail Transfer Protocol
The SMTP Protocol is part of the TCP/IP protocol family. It regulates the exchange of electronic mail on the Internet. Your Internet Service Provider provides you with access to an SMTP server.

SSID
Service Set Identifier
The SSID is used to identify the stations in a wireless network (WLAN). All wireless network components with the same SSID form a common network. The SSID can be assigned by the network operator.

Static (fixed) IP address
A static IP address is assigned to a network component manually during network configuration. Unlike a Dynamic IP address, a static (fixed) IP address never changes.

Subnet
A subnet divides a network into smaller units.

Subnet mask
The subnet mask determines how parts of the IP addresses of a network represent the network number and how many the computer number.
The subnet mask administered by the Gigaset SE505 dsl/cable is always 255.255.255.0. That means the first three parts of the IP address form the network number and the final part is used for assigning computer numbers. The first three parts of the IP address of all network components are in this case always the same.

Switch
A switch, like a Hub, is an element used to link different network segments or components. Unlike a Hub however, the Switch has its own intelligence that enables it to forward packets to only that subnet or network component they are meant for.
See also: Bridge, Hub, Router, Gateway

TCP
Transmission Control Protocol
The TCP Protocol is part of the TCP/IP protocol family. TCP handles data transport between communication partners (applications). TCP is a session-based transmission protocol, i.e. it sets up, monitors and terminates a connection for transporting data.
See also: UDP

TCP/IP
Protocol family on which the Internet is based. IP forms the foundation for each computer-to-computer connection. TCP provides applications with a reliable transmission link in the form of a continuous data stream. TCP/IP is the basis on which services such as WWW, Mail and News are built. There are other protocols as well.

Tunneling
Tunneling is a procedure in which the data traffic of one Protocol is transmitted with the help of a different protocol. For example, data packets of a private network can be packed into IP packets and sent over the Internet as if through a tunnel. Tunneling procedures are used nowadays for the secure transmission of data in a Virtual Private Network (VPN). The IP packets from the local network are encrypted using a tunneling protocol (e. g. PPTP) before being sent over the Internet.

UDP
User Datagram Protocol
UDP is a Protocol of the TCP/IP protocol family that handles data transport between communication partners (applications). Unlike TCP, UDP is a non-session based protocol. It does not establish a fixed connection. The data packets, so-called datagrams, are sent as a Broadcast. The recipient is responsible for making sure the data is received. The sender is not notified about whether it is received or not.

UPnP
Universal Plug and Play
UPnP technology is used for the spontaneous linking of home or small office networks. Devices that support UPnP carry out their network configuration automatically once they are connected to a network. They also provide their own services or use services of other devices on the network automatically.

URL
Universal Resource Locator
Globally unique address of a Domain on the Internet.

Virtual server
A virtual Server provides a service on the Internet, that runs not on itself, but on another network component. The Gigaset SE505 dsl/cable can be configured as a virtual server. It will then direct incoming calls for a service via Port Forwarding directly to the appropriate Port of the network component in question.

VPN
Virtual Private Network
A VPN is a network connection in which the data are transmitted over the Internet using special Tunneling protocols (e.g. PPTP, L2TP, IPSec) securely, i.e. encrypted. VPNs are used to connect private networks at different locations with each other without having to lease a transmission line. The Internet is used instead.

WAN
Wide Area Network
A WAN is a network that is not restricted to one particular area, such as the Internet. A WAN is run by one or more public providers to enable private access. You access the Internet via an Internet Service Provider.

WEP
Wired Equivalent Privacy
WEP is a security protocol defined in the IEEE 802.11 standard. It is used to protect wireless transmissions in a WLAN against unauthorised access through Encryption of the data transmitted.

Wireless network

See WLAN

WLAN

Wireless LAN

Wireless LANs enable network components to communicate with a network using radio waves as the transport medium. A wireless LAN can be connected as an extension to a wired LAN or it can form the basis for a new network. The basic element of a wireless network is the so-called cell. This is the area where the wireless communication takes place. A WLAN can be operated in Ad-hoc mode or Infrastructure mode.

WLAN is currently specified in Standard IEEE 802.11. The Gigaset SE505 dsl/cable complies with Standard 802.11g.

WPA

WPA was developed to improve security provided by WEP. To generate keys, WPA uses more complex methods, e.g. TKIP (Temporal Key Integrity Protocol). In addition, WPA can use an authentication server (e.g. a RADIUS server) to increase security.

WPA-PSK

WPA Preshared Key: Variant of WPA data encryption, in which new keys are automatically generated at regular intervals by means of a keyword (Pre-shared key). The key is updated after defined periods (Rekey Interval).

Index

Numerics

10 Mbps 16
10/100 Mbps Switch Port 12
100 Mbps 16
128 bit key 63, 71
64 bit key 63, 71
802.1x 70

A

Access control 72
Access point 67, 124
  name 68
Access to the local network
  allowing 64
  denying 64
Activating 17
Address block for IP addresses 74
Ad-hoc mode 6, 124
Advanced Setup 48
Antenna 13
Assigning IP addresses automatically . 18
Authentication server 70
Auto Connect 124

B

Back panel 12
Backup 65, 93
Basic Setup 48, 51
Bedienoberfläche
  Schaltflächen 50
Bridge 78, 124
Broadcast 60, 68, 124
Browser 45
  Popup window 45
BSSID 124
Buttons
  Advanced Setup 50
  Security Setup 50

C

Cable modem
  connecting to the router 14
  connection with dynamic IP address 54
  connection with fixed IP address . . . 55
Channel Number 60
  setting 68
Checking network settings
  (Windows XP) 30
Client 124
  for Microsoft Networks 19
Command
  exit 43
  ipconfig / release 43
  ipconfig / renew 43
  ping 44, 81
Command prompt
  opening the 44
Configuration
  backing up 65
Configuration data
  backing up 93
  restore 93
Configuration file 93
Connection
  checking to router 44
  statistics 44
Connection method 29
Connection type
  selecting 52
ConnectionPoint 13, 15
Country selection 51
Creating a network installation disk
  (Windows XP) 30
Customer Care 110

D

Deactivating the http proxy
  Windows 2000 42
  Windows 98 26
  Windows XP 34
Declaration of Conformity
  DoC 105
Default Gateway 99
Define computer name
  Windows 2000 37
  Windows 98 20
  Windows XP 30
Define workgroup
  Windows 2000 37
  Windows 98 20
  Windows XP 30

Demilitarised zone see DMZ
DHCP 18, 125
DHCP Server 76, 125
DHCP Service see DHCP
Digital Subscriber Line see DSL
DMZ 7, 83, 125
DNS 125
DNS Configuration
  Windows 2000 41
  Windows 98 25
  Windows XP 33
DNS Server 99, 125
Domain name 85, 99, 125
Domain Name Service see DNS
DSL 126
DSL connection
  with PPPoE 53
  with PPTP 56
DSL modem
  configuring connection 53
  connecting to the router 14
Dynamic DNS see DynDNS
Dynamic DNS Service see DynDNS
Dynamic Host Configuration Protocol see DHCP
Dynamic Host Configuration Protocol see DHCP
Dynamic IP address 80, 126
dynamic IP address 18
DynDNS 85, 126
DynDNS Service see DynDNS
DynDNS.org 85

E

Encryption 61, 63, 71, 126
Ethernet 6, 126
  cable 13, 16
  transmission speed 6
Ethernet cable 16
  maximum length 13
exit command 43

F

Fast Ethernet 16
Features 6
Filter 81
Firewall 7, 126
Firmware update 91
Flat rate 126
Front panel 10
full duplex 126

G

Gateway 24, 126
Gigaset PC Card 54 . . . . . 9, 15
Gigaset PCI Card 54 9
Gigaset Router see Router
Gigaset USB Adapter 54 9
Global IP address see Public IP address
Group rekey interval 70

H

Hacker attack 7, 81
Half duplex 127
Host name 54, 99
HTTP proxy 127
Hub 127

I

IEEE 127
Infrastructure mode 6, 127
Installation 8
Installing network services (Windows 2000) 36
Installing the TCP/IP protocol
  Windows 2000 38
  Windows 98 21
Institute of Electrical and Electronic Engineers see IEEE
Internet 127, 128
Internet access 5
  restricting 81
Internet Access Protocol 98
Internet connection 51
  close 48
  close manually 86
  information 98
  open 48
  open manually 86
  testing 57, 80
Internet Explorer 9, 45
Internet filter 81
Internet Protocol see IP address
Internet Service Provider 127
  selecting 52
IP address 99
  address block 74
  assigning automatically 74

assigning static addresses 76
dynamic 18, 80, 85, 126
private 130
public 84, 130
router 45
static 131
static (fixed) 55
IP address pool 128
IP Pool Range 77
IP Protocol 127
IP-Adresse 128
ipconfig / release 43
ipconfig / renew 43
IPSec 128
ISP see Internet Service Provider

L

L2TP 128
LAN 128
LAN connection
creating 16
creating a wired 16
setting up wireless 15
LAN socket 12
Transmission speed 16
Layer Two Tunneling Protocol see L2TP
LED displays 10
Local Area Network 6, 128
configuring 18
Local IP address see private IP address
Log file
clear 99
view 99
Login screen 45

M

MAC Access Control List 72
MAC Address 54, 99, 128
MAC filtering table 64
Mains adapter
socket 12
Maximum Receive Unit see MRU
Maximum Transmission Unit see MTU
Mbps 129
MRU 129
MTU 129

N

NAT 129
Navigation bar 49
Netscape 9, 45
Network 129
Network adapter 129
Network Address Translation see NAT
Network configuration 18
Windows 2000 36
Windows 98 19
Windows XP 28

O

Obtain an IP address automatically
Windows 2000 41
Windows 98 23
Windows XP 33
Opening screen 46, 48
Operating mode 78, 98
bridge 78
router 78
Operating state 10

P

Password 45
assigning 59, 89
changing 59, 89
forgotten 59
PC
defining a name (Windows 2000) . .37
defining a name (Windows 98) 20
defining a name (Windows XP) 30
IP address 18
network settings 18
set up as Client for Microsoft Networks 19
ping command 44, 81
Point-to-Point Protocol over Ethernet see PPPoE
Point-to-Point Tunneling Protocol see PPTP
Popup 45
Port 129
Port Forwarding 84, 129
Port number 129
mapping 84
PPPoE 6, 53, 79, 130
configuring connection 53
PPTP 56, 79, 130
configuring connection 56
Private IP address 130

Problem solving 100
Protocol 130
Public IP address 130

R
RADIUS server 70
Reboot 90
Rekey 70
Rekeying 70
Releasing TCP/IP settings
  Windows 2000 43
  Windows 98 27
  Windows XP 35
Remote Management 90, 130
Repeater 73
Reset 12
reset 103
Reset button 12
reset button 103
Reset function 12
Restore 65, 93
Restoring 103
Roaming 68, 130
Router 78, 130
  activate 17
  back panel 12
  backup configuration 65, 93
  booting 12
  configuration file 65, 93
  configuring 45
  connecting 13
  dynamic IP address 85
  front panel 10
  host name 54
  installation 8
  IP address 45, 74
  launching the user interface 45
  operating mode 98
  protecting with a password . . . 59, 89
  reboot 90
  reset 12
  restore configuration 93
  restoring 103
  security 59
  set up as virtual server 82
  setting up 13
  status information 48, 94
  temperature range for operation . . 13
  view information 94
Router status 48, 94

S
Safety precautions 4
Schaltflächen
  Basic Setup 50
Security 59
Security measures 7
Security Setup 48, 59
Selecting the language 46
Server 131
  virtual 132
Service 110
Service Set Identifier see SSID
Set time by 87
Setting daylight saving 88
Setting the time
  by Time Server 87
  manually 87
Setting the time zone 88
Setting up a Network Client
  (Windows 98) 19
Simple Mail Transfer Protocol see SMTP
SMTP 131
Socket
  for cable modem 12
  for DSL modem 12
  for mains adapter 12
  LAN 12
  WAN 12
SSID 8, 60, 95, 96, 131
  factory setting on router 8
  invisible 61, 68
  preconfigured 60
  visible 61, 68
Start screen 48
Static IP address 80, 131
Status
  Internet 98
  log file 99
  overview 95
  PC's in the Local Network 97
  wireless 96
Subnet 131
Subnet mask 77, 96, 99, 131
Supplied items 9
Switch 131
Synchronising the TCP/IP settings
  with the router

Windows 2000. 43
Windows 98. 27
Windows XP. 35
System requirements. 9
System time 95

T
TCP. 131
TCP/IP 131
TCP/IP network 18
TCP/IP settings
Windows 2000. 40
Windows 98. 22
Windows XP. 31
Temperature range for operation 13
Time Server. 87
Title bar 49
TKIP (Temporal Key Integrity Protocol) 70, 133
Trademarks 4
Transmission Control Protocol see TCP
Transmission mode 69
full duplex 16
half duplex 16
Transmission rate 69
Transmission speed 129
in Ethernet LAN 6
in wireless LAN 6
LAN socket. 16
Tunnel 130
Tunneling 132

U
UDP 132
UI elements 49
Universal Plug and Play see UPnP
Universal Resource Locator see URL
Update 91
UPnP. 74, 132
activating 75
UPnP Port Forwarding list 75
URL. 132
filtering 82
User Datagram Protocol see UDP
User interface
buttons 50
dialog box 49
launching 45
navigation bar 49
selecting the language 46
selection list 49
working area 49

V
View firmware version 95
Virtual Private Network see VPN
Virtual server 7, 82, 132
setting up 84
VPN 6, 132

W
WAN 132
WAN connection
with DHCP 54
with DSL modem 53
with dynamic IP address 54
with fixed IP address 55
with PPPoE 53
WAN interface
configuring. 51
WAN socket 12
WDS 73
WEP. 132
WEP (Wired Equivalent Privacy) 69
WEP encryption 63
WEP-Verschlüsselung 69
Wide Area Network see WAN
Wired Equivalent Privacy see WEP
Wireless cell 133
Wireless Distribution System 73
Wireless LAN see WLAN
Wireless network 133
Wireless Settings 67
WLAN 133
transmission speed 6
Working area 49
WPA-PSK 70

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