Gigaset USB Adapter 108

SIEMENS
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Safety precautions

- The Gigaset USB Adapter 108 can affect medical equipment. Therefore, you should pay attention to the technical conditions of the corresponding environment.
- Make sure you include the operating instructions and the CD-ROM when you pass on your Gigaset USB Adapter 108 to somebody else.
- Under no circumstances try to use a damaged device. If in doubt, please contact our service department, see chapter "Service (Customer Care)" on page 52.

Notes on safe operation

When you have installed and configured the Gigaset USB Adapter 108 on your PC, you should make security settings on the wireless network:

- Change the SSID for all of the wireless devices within your network, see "SSID (Service Set Identifier)" on page 22.
- Encrypt the communication over your wireless network, see "Configuration – Security" on page 25.

Your contribution to the environment (ECO)

We at Gigaset Communications GmbH make our products as environmentally compatible as possible. Our goal is a sustainable process that makes it easier for us to comply with the strict stipulations of the ISO standard 14001 for international environmental management.

Further advantages for the ecology

- Thanks to a switched-mode power supply, all our routers and repeaters use up to 60% less power and so offer higher energy efficiency.
- You can reduce the WLAN's transmitting power for all routers and repeaters and some WLAN clients – depending on the device in question and your PC's operating system.
- You can turn off the WLAN completely.
Your contribution to the environment (ECO)

**Trademarks**

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Super G is a registered trademark of Atheros Communications, Inc.

**Note:**

Trademarks and trade names used in these instructions are meant only to describe the operating steps and this use does not imply that they are freely available. Trademarks and trade names are the property of the corresponding holder of the rights.
The Gigaset USB Adapter 108

The Gigaset USB Adapter 108 is a WLAN network adapter which can be connected to your PC or Notebook by means of a USB (Universal Serial Bus). You can use Gigaset data products to set up a wireless local network (WLAN = Wireless Local Area Network) without having to lay cables.

Your Gigaset USB Adapter 108 can be used to connect your computer to other computers equipped with wireless network adapters (ad-hoc mode).

You can also connect your PC to a wireless router, e.g. to the Gigaset SE 551 WLAN dsl/cable, for Internet access (infrastructure mode).

Since the PCs communicate with each other via radio, it does not matter where they are located, as long as they are within range of the wireless network. Mobile PCs, such as Notebooks, can connect to the WLAN even after changing location. This enables you to use all the files and printers on the network. The Gigaset USB Adapter 108 works to the IEEE 802.11g transmission standard and is backwards compatible with the older standard IEEE 802.11b. The Gigaset USB Adapter 108 also supports Super G technology. This can increase the transmission rate in the network to up to 108 Mbps by bundling channels. For network security, wireless transmission can be encrypted using the WPA standard or 64-/128-bit WEP.

These operating instructions contain important information on how to set up a WLAN and to configure your Gigaset USB Adapter 108.

Wireless LAN Basics

This section provides basic information on wireless LANs to show the role of the Gigaset USB Adapter 108 in setting up a wireless network.

Local Area Network (LAN)

A LAN is a network that exists in a limited area. A network is two or more computers which are connected together in order to share files as well as peripheral devices, e.g. a printer.

Using the Gigaset USB Adapter 108 you can communicate with other computers without having to lay network cable. Thus you can take your computer to another place and still remain connected to the network.

You can use the Gigaset USB Adapter 108 in two different ways. On the one hand, you can establish a connection to one or more PCs equipped with wireless network adapters. This is an ad-hoc network. On the other hand, you can establish a connection to an Access Point, which is used to obtain access to an already existing wired LAN (infrastructure network).
The Gigaset USB Adapter 108

**Ad-hoc network**

In an ad-hoc network, PCs communicate with each other via wireless peer-to-peer connections. An ad-hoc network is set up by participants as and when required. All participating PCs must have a wireless network adapter installed, e.g. a Gigaset USB Adapter 108, a Gigaset PC Card 108 or a Gigaset USB Stick. Ad-hoc networks are used wherever communication networks have to be set up quickly without any existing network infrastructure and the participants are mobile.

**Infrastructure network**

In an infrastructure network, connections between network participants are set up via an Access Point (or several Access Points). The Access Point provides the basis for the wireless network. It controls the connections between the participants and can also establish the connection from the mobile stations of a wireless network to a wired LAN (Ethernet) or the Internet.

**Roaming**

Several Access Points can be installed to extend the range of a wireless network. Participants in the wireless network can move freely between the various Access Points without losing contact to the network. As soon as there is a risk of losing contact, the PC automatically looks for another Access Point with a stronger signal. All Access Points and wireless network adapters must have the same SSID. All Access Points must be connected to the same Ethernet network.

**Security in wireless networks: Encryption**

Any network, be it wired or wireless, is exposed to the risk of eavesdropping. Connecting your local network to the public network exposes your data and applications to not inconsiderable risks. As with an individual connection, you should always protect your network PCs against external attacks, e.g. attacks via emails, with a virus scanner. These virus scanners however do not provide any protection against unauthorised access from outside (hackers). To counter this risk, Gigaset data products offer various encryption procedures that largely rule out unauthorised access (hacking) to your wireless network.
WEP encryption

WEP encryption (Wired Equivalent Privacy) encodes data for sending using a key that you have defined. Once they reach the recipient, who uses the same key, the data are restored to the state before you sent them. Recipients who do not know this key cannot read the content of this data stream or only after a great deal of effort.

There are two security levels for calculating the encryption key:

- 64-bit mode
- 128-bit mode

WPA encryption

WPA is a standard-conformant solution for greater security in wireless networks. WPA is meant to replace the existing WEP standard (Wired Equivalent Privacy) and offers more reliable encryption and authentication methods.

With your Gigaset USB Adapter 108 you can use WPA encryption regardless of the operating system used. WPA encryption is particularly recommended where the highest security is required.

Range of wireless communication via a WLAN

Outdoors, the range is up to 300 m. Indoors, the maximum range is about 30 m. The operating environment, the nature of the rooms and building may reduce the range considerably. You can boost the range of your wireless network by placing a repeater, e.g. a Gigaset WLAN Repeater, at the limit of its range. The device also supports the XR functionality (eXtended Range). This can be used to increase the range. Die conversion to the XR mode is performed automatically at a respectively weak signal and when the partner station is also XR capable.
Installing the Gigaset USB Adapter 108

System requirements

You will require:
- a PC with at least 466 MHz and one of the following operating systems:
  Windows 98SE, Windows ME, Windows 2000, Windows XP or Windows Vista
- 64 MB RAM, more memory is recommended
- at least 30 MB free hard disk space
- a free USB port
- a CD-ROM drive or a DVD drive

Contents

The package contains the following components:
- a Gigaset USB Adapter 108 with USB cable and dipole antenna
- a CD-ROM containing installation and configuration software, detailed operating instructions and Acrobat Reader to read the operating instructions
- a Quick Installation Guide

Notes on positioning the network adapter

Choose a location with the least obstacles to the radio waves. Protect the Gigaset USB Adapter 108 against dampness.

The Gigaset USB Adapter 108 should not be placed in the immediate vicinity of other electronic equipment. Electrical equipment can mutually affect each other, the radio waves may impair the functioning of other devices.

Place the Gigaset USB Adapter 108 on a smooth, non-slip surface. Protect particularly sensitive surfaces.

For the best possible range, we recommend placing the WLAN components in a central and open location. Avoid placing them in niches, under desks or behind cabinets, for example.
Installing the Gigaset USB Adapter 108

Status display

The Gigaset USB Adapter 108 has two LED displays labelled WLAN.

<table>
<thead>
<tr>
<th>LED</th>
<th>State</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>Continuously lit</td>
<td>The Gigaset USB Adapter 108 was installed successfully on your PC and is ready for operation.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>The device is not ready.</td>
</tr>
<tr>
<td>WLAN</td>
<td>Flashing</td>
<td>Data is being transmitted.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>There is currently no data traffic.</td>
</tr>
</tbody>
</table>

Installing the software

Please remember:
Do not insert the USB cable plug into a spare USB port on your PC until the installation software prompts you to do so.

First, the software included in the scope of delivery must be installed. This software not only includes the driver software for the USB device, it can also be used as a configuration and monitoring tool, the Gigaset WLAN Adapter Monitor.

Only this software has been written especially for the Gigaset USB Adapter 108. There are similar drivers available in the Windows driver database. But, as a rule, such drivers do not fully cover all the features or function in a different manner.

Do not connect the Gigaset USB Adapter 108 to your PC until prompted by the installation program. If you connect the Gigaset USB Adapter 108 to your PC before installing the software, Windows will automatically recognise the device and show the dialog box prompting for the appropriate driver. Click on Cancel to close the dialogue. Remove the Gigaset USB Adapter 108 from the PC and install the software.

Please remember:
You may require administrator rights for the installation process on your PC.

Information for users with Windows 98SE/ME:
If you are prompted to restart your computer during installation, click on Restart. After this, installation continues automatically. You should now follow the instructions and steps shown below.

Have your Windows Installation CD on hand. You may be prompted to insert it.
Installing the Gigaset USB Adapter 108

Running installation

➤ Close all running programs.
➤ Insert the CD-ROM supplied into the CD-ROM drive of your PC and wait until the welcome screen appears. If this screen does not appear automatically, start installation manually:
  – Open Windows Explorer.
  – Select the CD-ROM drive.
  – Double-click start.exe.

The language selection screen appears
➤ Select the language.

You will now see a screen showing the contents of the CD-ROM.

Installation
Install the software for the Gigaset USB Adapter 108.

User Guide
This opens the detailed operating instructions on the CD-ROM. If you cannot open the detailed operating instructions on the CD-ROM, you will have to install the free Adobe Reader.

Practical Tips and Configuration Examples
Here you will find solutions to various problems.

Install Adobe Reader

Browse CD
If you are looking for a particular file on the CD-ROM, you can display the CD-ROM contents in an Explorer window.

Back
The program returns to the language selection screen.

Exit
This closes the program.

➤ Click on Installation.

Note:
The screens for the various operating systems differ only marginally. Installation is largely automatic, apart from a few mouse clicks and restarts.

The InstallShield Wizard appears.
Installing the Gigaset USB Adapter 108

ışı
Click on **Next** to continue installation.

The licence agreement screen now appears.

 الشريف
Click on **Yes**.

In the next screen, choose the directory for the installation.

 الشريف
Click on **Browse**, if you want to select another directory. Click on **Next** to continue installation.

During installation, the InstallShield Wizard uses the **Setup Status** screen to show which action is being carried out, and the progress is also displayed.

After completion of this installation step, a message appears prompting you to connect the Gigaset USB Adapter 108 to your PC.

 الشريف
**Please plug in your Gigaset USB Adapter 108 now**
Connecting the Gigaset USB Adapter 108

Now insert the plug into a spare USB port on your PC.

Please remember:

If your PC still has the older USB Version 1.1, you may see an error message to that effect during installation. You can ignore this message. The Gigaset USB Adapter 108 also works with USB Version 1.1. However, the maximum transmission rate under USB V1.1 is lower.
Installing the Gigaset USB Adapter 108

Installing driver software

Once the USB cable has been plugged in, installation continues automatically. The operating system’s automatic hardware opens to install the drivers for the Gigaset USB Adapter 108.

Please remember:
If your PC is equipped with the Windows XP operating system Service Pack 2, the Wizard for looking for new hardware window appears. Select the No, not at this time option, and click on Next.

⇒ Depending on the other settings of your PC, a dialogue box may appear. Select the Install software automatically option, and click on Next.

If the window does not appear, the installation step described here is automatically carried out by the system.

Notes:
- Under Windows 98SE / ME: You may be prompted to insert your Windows Installation CD to continue driver installation. Therefore you should have this CD handy or enter the path name where the Windows installation files are stored on your PC.
- Restart your PC if you are prompted to do so.
- If your PC already contains more recent files, answer the question whether you want to keep them with YES.

After installation, one or two windows will appear, depending on your operating system, prompting you to complete installation.

⇒ Click on Finish.

Installation is completed and your PC restarted.
Installing the Gigaset USB Adapter 108

Checking installation

If installation was successful, you can now use the Gigaset WLAN Adapter Monitor. With the Gigaset WLAN Adapter Monitor you can configure your Gigaset USB Adapter 108 and create a connection to other network adapters or an Access Point.

The Gigaset WLAN Adapter Monitor is represented by an icon in the status area of the taskbar, this icon also shows you if there is already a connection to a connection partner and the quality of the connection. In a wireless network using only Gigaset products and where the standard settings were used (e. g. no encryption), the connection to an Access Point is set up automatically during installation.

The following may be displayed in the status area of the taskbar:

The Gigaset WLAN Adapter Monitor icon is not displayed.

First try to open the Gigaset WLAN Adapter Monitor manually, see Chapter "Opening the monitor" on page 18.

If this fails, then something went wrong during installation.

Deinstall the software, see Chapter "Deinstalling the software" on page 37.

Then install the software again, see Chapter "Installing the software" on page 11.

The Gigaset WLAN Adapter Monitor icon is displayed in the taskbar, with a grey ball above the icon:

The Gigaset WLAN Adapter Monitor is installed; the USB cable has not been inserted or inserted wrongly.

Check the USB connection.

The Gigaset WLAN Adapter Monitor icon is displayed in the taskbar, with a red cross above the icon:

The Gigaset WLAN Adapter Monitor is installed and active; there is no connection to the local network.

Turn to Chapter "Configuring the Gigaset USB Adapter 108" on page 18.

The icon is displayed in the taskbar, with a green ball above the icon:

The Gigaset WLAN Adapter Monitor is installed and active; there is already a connection to the local network. The number of bars in the icon depends on the connection quality (see below).

You are advised to read Chapter "Notes on safe operation" on page 5.

Displaying QuickInfo for the connection

If you point the mouse over the icon in the taskbar, you will see a small window that displays the connection properties.
The following properties are shown:
- SSID (Service Set Identifier) in the Connection line
- the transmission rate (in Mbps) in the Speed line
- the transmission quality (in %) in the Link quality line
If there is no connection, you will see a red ball over the icon and in QuickInfo, Disconnected is displayed.

Reading the connection quality from the icon
The icon changes gradually depending on the current connection quality. The better the connection quality, the higher the transmission speed.

With reasonable to poor connection:
- If possible, move your PC closer to the connection partner for greater field strength.

No WLAN available (red cross over bar)
There is no WLAN within range of your Gigaset USB Adapter 108 that you could connect to.
- Check the configuration of the Access Point and adjust the Gigaset USB Adapter 108 settings accordingly.
OR
- Change your location to reduce the distance to a connection partner.
Configuring the Gigaset USB Adapter 108

The Gigaset WLAN Adapter Monitor

You can use the Gigaset WLAN Adapter Monitor to configure and monitor your Gigaset USB Adapter 108.

Opening the monitor

In the standard setting, the Gigaset WLAN Adapter Monitor is opened automatically in the background when you launch your PC. The Gigaset WLAN Adapter Monitor icon is then displayed in the status area of the taskbar.

OR

- Double-click on the Gigaset WLAN Adapter Monitor icon in the status area of the taskbar to open the monitor user interface.
- Right-click on the Gigaset WLAN Adapter Monitor icon in the status area of the taskbar.
  In the pop-up menu, you will see the available tabs and the Exit option.
- In the pop-up menu, click on the appropriate tab to open the monitor user interface and display this tab directly.
- Use Exit to close the Gigaset WLAN Adapter Monitor.

If you do not see the Gigaset WLAN Adapter Monitor icon in the status area of the taskbar, you will have to run the program first:

- In the start menu, click on Start – Programs – Gigaset USB Adapter 108 – Gigaset WLAN Adapter Monitor.
  This launches the program. The Gigaset WLAN Adapter Monitor icon is then displayed in the status area of the taskbar.
Deactivating Autostart

The Gigaset WLAN Adapter Monitor is opened automatically in the background when you launch your PC. If you do not need the monitor all the time, you can deactivate Autostart.

1. Select Start – Programs – Autostart.
2. Right-click on the entry Gigaset WLAN Adapter Monitor.
3. Select Delete to remove the link to Gigaset WLAN Adapter Monitor from Autostart.

Now that the monitor is no longer opened automatically when you launch your PC, you will have to open it manually when you need it.

Using Gigaset WLAN Adapter Monitor

In the Gigaset WLAN Adapter Monitor user interface, you will find various settings and status displays for your network adapter in various tabs.
Configuring the Gigaset USB Adapter 108

Tabs
You can use the following Gigaset USB Adapter 108 tabs to configure the monitored network adapter:

- **Configuration**: Select profile, change general settings and security options (see "Configuration" on page 21)
- **Status**: Check current operating data and signal strength (see "Status" on page 31)
- **IP Settings**: Check network addresses, register and deregister PC (see "IP settings" on page 32)
- **Site Monitor**: Find available connection partners (see "Site Monitor" on page 34)
- **About**: Check software versions (see "About" on page 36)

Buttons
With the buttons under each tab you can use one of the following options:

Use the **Radio On** and **Radio Off** buttons to switch the wireless operation of your network adapter on and off. The current status of the wireless operation is shown by a green or red icon in the button.

- **Radio On**: The wireless operation of the network adapter is activated (green icon). The PC is available on the network.
  - Click on **Radio On** to deactivate the wireless operation of the network adapter.
  - **Radio Off** is now displayed. The PC is no longer available on the network.

- **Radio Off**: The wireless operation of the network adapter is deactivated (red icon). The PC is not available on the network.
  - Click on **Radio Off** to activate the wireless operation of the network adapter.
  - **Radio On** is now displayed. The PC is available on the network.

Use the **Help** button to open the Gigaset WLAN Adapter Monitor help file.

Use the **Hide** button to close the Gigaset WLAN Adapter Monitor user interface.

The icon in the status area of the task bar shows that the monitor is still active in the background.
- Double-click this icon if you want to open the Gigaset WLAN Adapter Monitor user interface again.
Configuring the Gigaset USB Adapter 108

Closing the monitor

Click on Hide in the monitor user interface. This closes the user interface. The icon in the status area of the task bar shows that the Gigaset WLAN Adapter Monitor is still active in the background.

Closing the program

Right-click on the Gigaset WLAN Adapter Monitor icon in the status area of the taskbar. This opens the pop-up menu.

Select Exit to close the program. This exits the Gigaset WLAN Adapter Monitor. The icon disappears from the status area in the taskbar.

Configuration

In the Configuration tab, you can choose the general basic settings and the security options for operating the Gigaset USB Adapter 108. The Configuration tab is divided into:

- **Common**: Define general basic settings and transmission power (see "Configuration – General" on page 22)
- **Security**: Configure security settings (see "Configuration – Security" on page 25)
- **Profile**: Create and manage various configuration profiles (see "Configuration – Profiles" on page 29)
Configuring the Gigaset USB Adapter 108

Configuration – General

Successful communication in a WLAN depends on all the PCs using the same ID (SSID) and the same radio channel. In addition, the connected PCs must coordinate their transmission rate for successful data transfer.

You can choose the basic settings for each profile in Common of the Configuration tab.

Please remember:
For security reasons, installation should be followed by changing the SSID of your WLAN, as the default SSID may also be known to unauthorised persons.

### SSID (Service Set Identifier)

The SSID is the ID used for the unique identification of a wireless network (WLAN) so that this network can be distinguished from a parallel network. Within a WLAN, all the network adapters must have the same SSID.

- In the SSID field, select the ID of the partner you want to connect your PC to.
  - The default setting is ConnectionPoint.

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Status</th>
<th>IP Settings</th>
<th>Site Monito</th>
<th>About</th>
</tr>
</thead>
<tbody>
<tr>
<td>Profile</td>
<td>Default</td>
<td>New</td>
<td>Save</td>
<td></td>
</tr>
<tr>
<td>Common</td>
<td>Security</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SSID</th>
<th>ConnectionPoint</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network Mode</td>
<td>Infrastructure</td>
</tr>
<tr>
<td>Channel</td>
<td></td>
</tr>
<tr>
<td>Transmission Mode</td>
<td>Super G</td>
</tr>
<tr>
<td>Power Saving</td>
<td>Optimize Throughput</td>
</tr>
</tbody>
</table>

radio On

Help

Help
Configuring the Gigaset USB Adapter 108

The order for defining the SSID depends on the WLAN's **Network Mode**:

- **Infrastructure**: The SSID must be defined on the Access Point first. This SSID is then assigned automatically to every network adapter registering with it.

- **Ad Hoc**: It is important that all the network adapters use the same SSID. The order of entry is irrelevant.

**Operating mode**

- **Enter the **Network Mode** for the network environment:**
  - **Infrastructure**: There are wireless (WLAN) and wired (LAN) PCs in the network environment. The connection between WLAN and LAN is set up via an Access Point.
  - **Ad Hoc**: The network environment does not have a fixed structure, but is set up between the available wireless network adapters as and when required. No Access Point is required.

The default operating mode is **Infrastructure**.

---

Please remember:

In Ad Hoc mode, the device always operates in transmission mode 802.11b, i.e. at a maximum transmission rate of 11 Mbps. In order to quickly transmit very large data volumes, you should use an Access Point.

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You will find a detailed description of the operating modes in Chapter "Wireless LAN Basics" on page 7.

**Channel**

The **Channel** field shows the radio channel used to set up communication with the connection partners. You can choose from radio channels 1-13.

In **Infrastructure** mode, the radio channel is set by the Access Point for all WLAN participants and can only be changed there. In this case, the Channel field shows the channel being used.

For **Ad Hoc** mode, you set the network adapter channel manually.

- **Select the channel used by the desired connection partners in the ad-hoc network.**

If you use a PC with the operating system Windows Vista, the channel will be set automatically in the **Ad Hoc** operational mode.

---

**Note:**

A connection is set up to the device with the strongest transmitting power.

**Transmission Mode**

The Gigaset USB Adapter 108 is designed to operate as per various WLAN standards:
Configuring the Gigaset USB Adapter 108

- Select **802.11g** if the network environment uses this WLAN standard. The maximum transmission rate possible is 54 Mbps.

OR

- Select **802.11b** if the network environment uses this WLAN standard. The maximum transmission rate possible is limited to 11 Mbps.

OR

- Select **802.11 b/g (mixed)**, if the network environment uses both modes. Some of the network adapters use Standard 802.11g, others Standard 802.11b. The maximum transmission rate possible depends on the WLAN standard of the connection partner in question.

OR

- Select **Super G** to double the transmission rate. This mode is based on the **802.11g** mode and enables a maximum transmission rate of 108 Mbps by bundling the channels.

The default setting is **Super G**.

### Notes:
- If you are using a PC with the operating system Windows Vista, the transmission mode is set automatically depending on the access point.
- Super G mode can only be used when the Access Point supports this transmission mode. If this is not the case, and you leave Super G as the default setting, the transmission mode supported by the Access Point will be used.
- If not all components in your wireless network support Super G, this can reduce the transmission rate for technical reasons.
- Super G mode always uses channel 6. You cannot use Super G if this channel is assigned to another network within the transmission range of your wireless network.

### Power Saving

This feature is not available for Windows Vista.

The Gigaset USB Adapter 108 can be used in power saving mode. Your PC remains reachable on the network, but the network adapter's energy consumption is reduced to a minimum.

- Select **Enabled** to use the network adapter in power saving mode.
The range of a wireless network cannot be restricted to an enclosed area. The advantage of a location-independent connection set-up brings with it the risk of unauthorised persons eavesdropping on your wireless communications. To avoid misuse of your data, it is especially important to encrypt transmission over your WLAN.

With Gigaset data products, you can adjust the security settings for each configuration profile to suit your needs. The following encryption methods are available:

- WPA2-PSK/WPA-PSK (recommended)
- WEP encryption (128 bit or 64 bit)
- Authentication with WPA2/WPA (can be used in networks with authentication servers)

Please remember:
Successful communication depends on all the connection partners in a WLAN using the same security settings (type of encryption and the appropriate keys).

You can find the security settings in Security of the Configuration tab.

Activating security options
In the Configuration – Security tab, security mode None has been set by default. This allows you to register with all wireless networks that do not use encrypted data transfer.

If you want to register with a wireless network that checks registration and sends data in encrypted form, you will have to activate the security options of your Gigaset USB Adapter 108.

Select the security mode in the pop-up window Security:

A window opens to configure the mode.

- WPA2-PSK/WPA-PSK (see page 26)
- WEP (see page 27)

WPA2-PSK/WPA-PSK offers greater protection for your network than WEP. You should therefore use WPA2-PSK/WPA-PSK for registration if all components in your network support this.

The following are available for networks with authentication servers:

- WPA2/WPA

If WPA2/WPA is used in your network for authentication, you must select the parameters according to the settings for the network. Contact your administrator.
Configuring the Gigaset USB Adapter 108

**WPA2-PSK/WPA-PSK**

In the **Pre-shared Key (PSK)** field, enter the key you want to use for registering to the network.

Please bear in mind that all the components in a network must use the same **Pre-shared Key (PSK)** to be able to communicate with each other.

If you want to register with a network in **Infrastructure** mode, you normally have to first define a Pre-Shared Key (PSK) on your wireless router for your network. Then apply this key to all the other components in your network. You will find more information in the user guide for your wireless router.

Click on **Apply** to apply the settings.
WEP

In the **Key Length** field, select the required length of the WEP key. Please bear in mind that all the components in a network must use the same key length to be able to communicate with each other.

Use a **128 bit** key if all the network components support it. This offers greater security for the data in your network.

In the **Key Type** field, select the character format for creating keys:

- **HEX**
  The keys are entered as hexadecimal numbers. Only enter digits 0 to 9 and the letters A to F. A 128-bit key uses 26 hexadecimal numbers, a 64-bit key 10 hexadecimal numbers.

- **ASCII**
  The key is formed from any characters in the ASCII set. A 128-bit key uses 13 characters and a 64-bit key 5 characters.
Configuring the Gigaset USB Adapter 108

Once you have selected the key length and key type, you can either use a passphrase for automatic key generation or enter the key manually:

- Generating keys with a passphrase
  For encryption, you can use a passphrase from which the required keys are generated automatically.
  
  ➤ Select the option Use Passphrase.
  This activates the appropriate entry field.
  ➤ In the Use Passphrase field, enter any sequence of characters as the passphrase.
  You can enter up to 260 characters.

Once you have entered the passphrase, you can skip the next steps and save your changes.

- Creating keys manually
  You can enter up to four keys in fields Key 1 to Key 4. The maximum length of the keys entered is determined by the settings in the fields Key Length and Key Type.
  
  ➤ Enter at least one key in one of the four boxes.

Once you have entered the passphrase, you can skip the next steps and save your changes.

Please remember:

- All connection partners must use the same passphrase for encryption.
- Make a note of your passphrase and store it in a secure place.

Please remember:

- All connection partners must use the same key for encryption.

➤ In the Default Key field, select one of these four created keys with which data transfer on your PC is to be encrypted.

➤ Click Apply to accept the changes.

The security options of your Gigaset USB Adapter 108 have now been activated.
Configuration – Profiles

Selecting profiles
The Gigaset WLAN Adapter Monitor can manage several configuration profiles for your Gigaset USB Adapter 108. If you want to use your PC in different wireless networks, for example, you can create several profiles and adjust them to the requirements of the corresponding networks. When changing networks, you only have to choose the appropriate profile for registering your PC in the new network.

The Gigaset USB Adapter 108 always uses the settings for the profile displayed in the Profile field.

Note:
After installation, the DEFAULT profile contains common settings.

Creating a profile

➡️ Click on New next to the field Profile.
This opens a dialogue for entering a profile name.

➡️ Enter a name for the new profile and confirm your entry with OK. The maximum length of the profile name is 29 characters.

Please remember:
To make it easier to recognise them again, it is advisable to use an "illustrative" name for the profiles. A suitable name for a profile could be the location of the wireless network.

The valid settings are still shown.

➡️ Adjust the settings to the requirements of the network environment.

➡️ Click on Save.
This saves your configuration as a new profile. The selection in the Profile field is expanded to include the new profile name.
Selecting a profile

- Open the selection in the **Profile** field.
- Click on the profile name you want to use.
  This activates the selected profile and displays it in the **Profile** field.
- Click on **Apply** to activate the selected profile.

Editing a profile

- In the **Profile** field, select the required profile.
- Make the required changes to the settings.
- Click on **Save**.
  This saves your changes in the selected profile.

Please remember:

**Save** updates the selected profile. The old settings are overwritten and are no longer available.

Deleting a profile

- In the **Profile** field, select the profile you want to delete.
- Click on **Delete**.
  The name of the selected profile is removed from the selection in the **Profile** field.
  The settings in this profile are now lost.

**Note:**

The **DEFAULT** profile cannot be deleted.
Status

The **Status** tab provides information about the status of the wireless network your PC is connected to via the network adapter:

- The left-hand pane shows the valid settings for the active configuration profile.
- The right and lower pane shows the statistics for the past data transfer.

### **SSID**
Shows the ID of the network environment (see "SSID (Service Set Identifier)" on page 22).

### **Network Mode**
Shows the structure of the network environment (see "Operating mode" on page 23).

### **Transmission Rate**
Shows the current transmission rate in Mbps.

### **Channel**
Shows the channel used for radio transmission (see "Channel" on page 23).

### **Transmission Mode**
Shows the WLAN standard used for data transmission (see "Transmission Mode" on page 23).

### **Security**
Shows the encryption method (see "Configuration – Security" on page 25).

### **Received Packets**
Shows how many data packets have been received on your PC from connection partners on the current WLAN since the connection was set up.
Configuring the Gigaset USB Adapter 108

**Sent Packets**
Shows how many data packets have been sent on the current WLAN since the connection was set up between your PC and your connection partner.

**Link Quality**
Shows the quality of the wireless connection.
The graphic display of the link quality is supported with a percentage figure and an evaluation of the signal (*Excellent, Good, Fair* or *Poor*).

**Signal Strength**
Shows the strength of the signal in the wireless connection.
The graphic display of the signal strength is supported with a percentage figure and an evaluation of the signal (*Excellent, Good, Fair* or *Poor*).

**IP settings**
The **IP Settings** tab provides you with all the information relevant for using your PCs in the network (LAN and WLAN). There are two buttons for updating and releasing your PC’s WLAN address. A graphic display in the lower section of the tab shows the process of data traffic over the WLAN.
### Configuring the Gigaset USB Adapter 108

**IP Address**
Shows the Internet Protocol address with which your PC is registered to the WLAN. As a rule the IP address is assigned to your PC by the DHCP server coordinating the PC's access to a network, in a WLAN for example the Access Point's DHCP server.

**Host Name**
Computer name entered for your PC during installation of the operating system.

**MAC Address**
Shows the physical address of your network adapter.

**Subnet Mask**
Shows the value of the subnet mask that defines address pools for the IP-address:
For example, the value 255.255.255.0 shows that the network address is formed by the first three blocks of the IP address. The last block is for the PC address in this network. How many blocks of the IP address are used for PC addressing depends on the size of the network and hence the number of connected PCs.

**DHCP Server**
Shows the IP address of the system which provides the DHCP server for the automatic addressing and coordination of the connected PCs.

**Gateway**
Shows the IP address of the system that enables access to a superior network, for example a connection to the Internet.

#### Renew IP Address

- Click on **Renew IP Address** to connect your PC with a WLAN network.
  
  The network adapter checks whether there is a DHCP server available within its radio range whose settings are compatible with those of the active configuration profile. If this is the case, the DHCP server responds to the query by assigning an IP address that your PC can use to exchange data over the new network.

#### Release IP Address

- Click on **Release IP Address** to deregister your PC from the current WLAN.
  
  Your PC is deregistered at the DHCP server and is no longer available to the WLAN connection partners. The DHCP server can assign the IP address allocated to your PC to a new connection partner.

#### Network utilisation

The diagram in the lower section of the **IP Settings** tab shows the network utilisation achieved between the connection partner and your PC.

Divided into data received and data sent, the actual transmission rates are shown and compared with the theoretical transmission rate available on this WLAN. The percentage values are updated continuously in the diagram.
Configuring the Gigaset USB Adapter 108

Site Monitor

The Site Monitor tab provides a comprehensive overview of the connection partners available via the visible SSID. One click reads in a list with all the relevant information on the potential connection partners. If you want, you can set up a connection to one of the connection partners shown directly from the list.

Reading in the list

- Click on Scan to search the network environment for potential connection partners. This creates a list of the currently available connection partners.
- Click on Scan again to update the displayed list.

Note:
Depending on the reaction time of the various connection partners, updating the list may take 1-2 minutes.
Configuring the Gigaset USB Adapter 108

The list shows the following parameters for each connection partner:

**SSID**
Shows the connection partner's ID (see "SSID (Service Set Identifier)" on page 22).

**BSSID (MAC Address)**
Shows the connection partner's physical address (Basic Service Set Identifier).
In networks with **Infrastructure mode**, the **BSSID** corresponds to the **MAC address** of the Access Point.

**Channel**
Shows the radio channel the connection partner uses to transmit data (see "Channel" on page 23).

**Security**
Shows whether radio traffic to the connection partner is encrypted (see "In the Pre-shared Key (PSK) field, enter the key you want to use for registering to the network." on page 26). If this is the case, you will see a key icon.

**Signal**
Shows the signal strength of the radio traffic between your PC and the connection partner as a percentage (see "Status" on page 31).

**Transmission Mode**
Shows the connection partner's current transmission mode (see "Transmission Mode" on page 23).

**XR**
Shows whether the Access Point's XR function (Extended Range) is active. This function becomes activated when a connection is not established because of excessive range. It increases the range and lowers the transmission rate.

**Network Mode**
Shows the connection partner's current network mode (see "Operating mode" on page 23).

**Establishing a connection**

- Double-click in the list on the connection partner with which you want to set up a connection.
  This connects your PC to the connection partner.

**Note:**
If your network adapter's active configuration profile is not compatible with the connection partner's settings, you will first see the **Configuration – Common** tab.

- Change the settings required for the connection.

OR

- Select a saved profile.
  Then the connection will be set up automatically.
Configuring the Gigaset USB Adapter 108

About

The About tab provides information about the software company and the version number of the software installed on your PC. The Internet address takes you directly to the company’s product page containing the latest information and software updates for your network adapter.
Deinstalling the Gigaset USB Adapter 108

You may have to deinstall the Gigaset USB Adapter 108:

- If an error occurred during installation.
- The Gigaset USB Adapter 108 is not working properly and the problem cannot be rectified (see Chapter "Fault tracing" on page 46).
- You have acquired a newer version of Gigaset USB Adapter 108, and the operating instructions of the new device recommends deinstalling the older version.
- You no longer need the Gigaset USB Adapter 108 and want to free up space on the hard disk and working memory.

Deinstallation involves the following steps:
1. First deinstall the software for the Gigaset USB Adapter 108.
2. Then deinstall the hardware.
3. Complete deinstallation.

Deinstalling the software

To deinstall the software for the Gigaset USB Adapter 108 from your PC:

- Close all running programs.

You will see a warning message.

- Confirm the prompt with OK.

The software and all the drivers will now be removed from your PC.

- Do not restart your PC until you have also removed the hardware.

Note:
If you restart the PC before removing the Gigaset USB Adapter 108 USB cable, Windows will automatically start its hardware recognition program. If this happens, close automatic hardware recognition by clicking on Cancel.

Completing deinstallation

- Remove the USB cable from the PC’s USB socket.
- Follow the remaining instructions and then restart your PC.
Updating device drivers

You should update the driver for the Gigaset USB Adapter 108 when a new version is available. You can find information about the latest driver updates on our website, www.gigaset.com/gigasetusbadapter108.

➡ Download the latest driver.

Then follow the following steps to update the device driver:

➡ Deinstall the software for the Gigaset USB Adapter 108 as described in Chapter "Deinstalling the Gigaset USB Adapter 108" on page 37.

➡ After restarting your PC, open the directory where you downloaded the new drivers to.

➡ Start the update and follow the instructions given.

You will find further information about installation in Chapter "Installing the Gigaset USB Adapter 108" on page 10.
Glossary

Access Point
An Access Point, such as the Gigaset SE 551 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 already existing Ethernet LAN or via 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.

Authentication
Authentication checks the true identity of a PC against a particular property.

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 linking such as Ethernet and wireless LANs. Linking individual segments via Bridges allows local networks of practically unlimited size.

See also Gateway, Hub, Router, Switch

Broadcast
A Broadcast is a data packet not directed to a particular recipient but to all the network components on the network. The Gigaset SE 551 dsl/cable does not pass broadcast packets on; they always remain within the local network (LAN) it administers.

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. It also allows address pools to 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 SE 551 dsl/cable includes a DHCP Server and so it can automatically assign IP addresses for the PCs on its local network. For certain PCs you can specify that their IP addresses are never changed.
Glossary

**DHCP Server**
See DHCP

**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 DNS Server. This in turn knows all the addresses of the PCs in the local network and the next higher DNS 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 (e.g. gigaset.com). The domain name is mapped via the DNS service to the corresponding IP address.

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

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

**Encryption**
Encryption protects confidential information against unauthorised access. With an encryption system data packets can be sent securely over a network.

**Ethernet**
Ethernet is the most widely-distributed network technology for local networks (LAN). It was defined by IEEE as standard 802.3. Ethernet uses a base band cable for data transmission with a transmission rate of 10 or 100 Mbps.
Glossary

Gateway
A Gateway is the system component that connects 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.
See also Bridge, Hub, Router, Switch

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 Bridge, Gateway, Router, Switch

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

IEEE 802.11
IEEE 802.11 is a standard for wireless 2.4-GHz band LANs. In Infrastructure mode, end devices can be connected to a base station (Access Point) or 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 so-called wide-area network (WAN) linking several million users around the world. A number of protocols have been defined for exchanging data known by the name TCP/IP. All participants on the Internet are identifiable by IP addresses. Servers are addressed by a domain name (e.g. gigaset.com). Domain Name Service (DNS) is used to assign domain names to IP addresses.

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.
Glossary

IP
Internet Protocol
The IP protocol is one of the TCP/IP protocols. It is responsible for the addressing of participants 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
An IP address is a network-wide unique 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 (values from 0 to 255) separated by periods (e.g. 192.168.2.1). The IP address comprises the network address and the PC address. Depending on the subnet mask one, two or three parts form the network address, the remainder the computer address. You can find out the IP address of your PC by entering `ipconfig` in the command prompt.

IP addresses can be assigned manually (see static 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.

ISP
Internet Service Provider

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 (e.g. a company site). As a rule the users and operators are identical. A local network can be connected to other local networks or a wide-area network (WAN) such as the Internet.

MAC address
Media Access Control Address
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. You can find out the MAC address of your PC by entering `ipconfig/all` in the "physical address" entry in the command prompt.

Mbps
Megabits per second / Millions of bits per second (MBit/s)
Mbps is a unit which can be used to describe the speed when transmitting data in a network.
Network
A network is a group of devices connected in wired or wireless mode so that they can share resources such as data and peripherals. A general distinction is made between local 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. The connection can be wired or wireless. An Ethernet network card is an example of a wired network adapter. Wireless network adapters are e.g. the Gigaset USB Adapter 108, the Gigaset PC Card 108 or the USB Stick and the Gigaset PCI Card.

A network adapter has a unique address, the MAC address.

Protocol
A protocol describes the agreements for communicating 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.

RC4
RC4 is an encryption algorithm on which WEP and TKIP encryption is based. Particular features of this algorithm are a secret key and variable key length.

Roaming
In order to extend the range of a wireless local network, roaming involves several Access Points with the same SSID and radio channel that are connected via Ethernet. The PCs on the network can switch dynamically between the various Access Points without interrupting an open network connection.

Router
A router directs data packets from one local network (LAN) to another via the fastest route. A router makes it possible to connect networks that have different network technologies. For example, it connects a WLAN to the Internet.

See also Bridge, Gateway, Hub, Switch

SSID
Service Set Identifier
The SSID is used to identify the stations of 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 IP address
A static IP address is assigned to a network component manually during network configuration. Unlike a dynamic address, a static IP address never changes.

See also dynamic IP address
Glossary

**Subnet**
A subnetwork divides a network into smaller units.

**Subnet mask**
The subnet mask determines how many parts of the IP addresses of a network represent the network address and how many parts represent the computer address.

The subnet mask administered by the Gigaset SE 551 dsl/cable is always 255.255.255.0. That means the first three parts of the IP address form the network address and the final part is used for assigning computer addresses. The first three parts of the IP address of all network components are in this case always the same.

**Super G**
Super G is an extension of the IEEE 802.11g mode. Channel bundling can be used to double the maximum transmission rate to 108 Mbps.

**Switch**
A Switch, like a Hub, is an element for linking 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, Gateway, Hub, Router

**TKIP**
Temporal Key Integrity Protocol
TKIP is a further development of WEP encryption. Like WEP, TKIP encryption is based on the RC4 encryption algorithm. TKIP however generates new keys after every 10-Kbyte packet, thus meeting higher security requirements.

**UDP**
User Datagram Protocol
UDP is a protocol of the TCP/IP protocol family that handles data transport between two communication partners (applications). Unlike TCP, UDP is a non-session based protocol. It does not establish a fixed connection. The data packets, 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.

**WAN**
Wide Area Network
A WAN is a network that is not restricted to one particular area, such as the LAN. The Internet is the most frequently used WAN. A WAN is run by one or more public providers to enable private access. You access the Internet via an Internet provider.
Glossary

**WEP**
Wired Equivalent Privacy

WEP is a security protocol defined in the IEEE 802.11 standard. In a WLAN, WEP encryption protects data against unauthorised access. WEP encryption uses the RC4 encryption algorithm.

**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 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 USB Adapter 108 complies with Standard 802.11g.

**WPA**
WPA is a standard-conformant solution for greater security in wireless networks.

Intended to supersede the current WEP Standard (Wired Equivalent Privacy), WPA offers more reliable encryption and authentication methods.

**WPA-PSK**
WPA – Pre-shared key

WPA-PSK is a form of authentication in wireless network that allows users to define their own key. This key must then be used by all connection partners for WPA authentication.

**XR technology**
eXtended Range

XR technology increases the range in a WLAN and thus enables better coverage of the desired range in home or office networks. When activated at the Access Point, this function can double or triple the range to the network adapters.
## Fault tracing

<table>
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<th>Causes and remedies</th>
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</table>
| Drivers not found                                | A WLAN or LAN adapter was perhaps installed on your PC. It is possible that the drivers are being looked for in the wrong installation path.  
  ➡️ Enter the path name for the drivers manually. The drivers are stored in CD-ROM:\Installation\Gigaset USB Adapter 108\Driver                                                                 |
| Gigaset WLAN Adapter Monitor icon does not appear in the task-bar | The Gigaset WLAN Adapter Monitor software or the device drivers were not installed properly or the device has been deactivated in the device manager.  
  ➡️ First check in the device manager of the control panel whether the device exists and has been activated. If not, activate it.  
  If it is not there, deinstall the software and install it again as described in Chapter "Installing the Gigaset USB Adapter 108" on page 10.                                                                 |
| The PC does not recognise the Gigaset USB Adapter 108 | The USB cable jack is not properly in the socket.  
  ➡️ Check to see if it is loose and push it in properly.  
  ➡️ Check in the device manager of the Windows operating system whether the USB socket has been activated or not. If not, activate it.                                                                 |
| The connection quality is poor, or there is interference | ➡️ Increase the distance between your Gigaset USB Adapter 108 and the device causing the interference.  
  ➡️ Make sure that the PC in which the Gigaset USB Adapter 108 is installed and the device causing the interference are connected to the power supply via different sockets.  
  ➡️ Do not place your PC with the Gigaset USB Adapter 108 near microwave devices or devices with wireless video-audio transmission, e.g. room monitors as baby alarms, or near large metal objects. Ask your dealer or an experienced radio technician for advice. |
## Problem

### The connection is not set up at all or not properly

If you cannot set up a connection between your PC with the Gigaset USB Adapter 108 and another wireless network adapter, this may be due to a number of causes:

- The PC you want to connect to has not been powered up.
  - Power up the PC.
- The transmission speed set does not match that of the partners in the network.
  - Check whether you have set a particular transmission speed. If this is the case, change to "Auto" (infrastructure mode).
- You are working in an ad-hoc network and a different radio channel is being used.
  - Select the correct radio channel.
- The wrong mode has been set (infrastructure or ad-hoc mode).
  - Select the correct mode.
- The SSIDs of the devices that are to communicate with each other are different.
  - Make sure that the same SSID is used for all connection partners with network adapters for wireless operation.
- Different encryption is being used.
  - Select the same encryption on all devices.
- Changes in the configuration are not applied by your PC
  - Restart your PC.
- The IP address or the subnet mask is wrongly configured.
  - Make sure that the IP address and the subnet mask are correctly configured in the IP Settings tab.
  - As a rule, it is necessary to assign static IP addresses when operating a network in ad-hoc mode.

### It takes a long time to set up a connection

Depending on the environment and the devices, setting up a connection may take a while.

- In Site Monitor, click on Scan or double-click on the network in question.
Appendix

<table>
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<tr>
<th>Problem</th>
<th>Causes and remedies</th>
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</table>
| You cannot establish a connection to the Access Point | If you cannot set up a connection between your Gigaset USB Adapter 108 and an Access Point, try one or more of the following:  
  ➪ Make sure that the physical connection of the Access Point operates reliably.  
  ➪ Make sure that the same SSID is used for the Gigaset USB Adapter 108 and the Access Point.  
  ➪ Check whether the security settings configured for the Gigaset USB Adapter 108 match those for the Access Point, e.g. the same key for WEP encryption.  
  ➪ Check whether your access to the Access Point is blocked by other security measures, e.g. by a MAC filter or filter for IP addresses.  
  ➪ Make sure that the IP address and the subnet mask are correctly configured in the IP Settings tab.  
  As a rule, it is necessary to assign dynamic IP addresses when operating a network in infrastructure mode. |
| Installation cancelled under Windows 2000    | If the following error message appears when installing the Gigaset USB Adapter 108 under Windows 2000: "1608: Unable to create InstallDriver instance" and the installation is cancelled, the cause is that the Microsoft Network Client component is missing.  
To install the Microsoft Network Client:  
  ➪ Select Start – Settings – Control Panel – Network and Dial-up Connections.  
  ➪ Right-click on LAN Connection, and select Properties.  
  ➪ Then click on the following Install – Client – Add – Client for Microsoft Networks – OK.  
  The Microsoft Network Client component is now installed.  
  ➪ Restart your PC to apply the change.  
  ➪ Install the software, see Chapter "Installing the Gigaset USB Adapter 108" on page 10. |
The data transmission rate seems to be too low

- If possible, position your Gigaset USB Adapter 108 closer to the Access Point or remove any obstacles blocking the line of sight.
- Then realign the Gigaset USB Adapter 108 and Access Point antenna.
- You can also try changing the transmission rate from AUTO to a defined value.
- You can try changing the Gigaset USB Adapter 108 transmission mode to 802.11g.
- Try using a different channel. Remember to change the channel setting on the Access Point first.

The Gigaset USB Adapter 108 does not work properly

- You have checked all of the causes specified above, and still no communication is possible.
- Deinstall the software and install it again as described in Chapter "Installing the Gigaset USB Adapter 108" on page 10.

All measures had no effect

- It is possible that there is a fault in the software. Check on our website at www.gigaset.com/gigusetusbadapter108 if a newer version of the software is available. Proceed as has been described in Chapter "Updating device drivers" on page 38.

<table>
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| The data transmission rate seems to be too low | - If possible, position your Gigaset USB Adapter 108 closer to the Access Point or remove any obstacles blocking the line of sight.  
  - Then realign the Gigaset USB Adapter 108 and Access Point antenna.  
  - You can also try changing the transmission rate from AUTO to a defined value.  
  - You can try changing the Gigaset USB Adapter 108 transmission mode to 802.11g.  
  - Try using a different channel. Remember to change the channel setting on the Access Point first. |
| The Gigaset USB Adapter 108 does not work properly | - You have checked all of the causes specified above, and still no communication is possible.  
  - Deinstall the software and install it again as described in Chapter "Installing the Gigaset USB Adapter 108" on page 10. |
| All measures had no effect | - It is possible that there is a fault in the software. Check on our website at www.gigaset.com/gigusetusbadapter108 if a newer version of the software is available. Proceed as has been described in Chapter "Updating device drivers" on page 38. |
## Appendix

### Specifications

The specifications are subject to change.

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Requirements for the power mains and the operating environment

Temperature
- Operating temperature: 0 °C to +50 °C
- Storage temperature: -10 °C to +70 °C

Humidity
- 5 % to 80 % (non condensing)

Power consumption
- 475 mA transmitting;
- 290 mA receiving

Compliance with security conditions and regulations
- CE, EN 6095

Authorisation

This device is intended for use worldwide. Use outside the European Economic Area (with the exception of Switzerland) is subject to national approval.

In France, this device is only intended for internal use within buildings.

Country-specific requirements have been taken into consideration.

We, Gigaset Communications GmbH, declare that this device meets the essential requirements and other relevant regulations laid down in Directive 1999/5/EC.

A copy of the 1999/5/EC Declaration of Conformity is available at this Internet address: www.gigaset.com/docs.

CE 0682©
Appendix

Disposal

United Kingdom
All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
This crossed-out wheeled bin symbol on the product means the product is covered by the European Directive 2002/96/EC.
The correct disposal and separate collection of your old appliance will help prevent potential negative consequences for the environment and human health. It is a precondition for reuse and recycling of used electrical and electronic equipment.
For more detailed information about disposal of your old appliance, please contact your local council refuse centre or the original supplier of the product.

Ireland
All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
This crossed-out wheeled bin symbol on the product means the product is covered by the European Directive 2002/96/EC.
The correct disposal and separate collection of your old appliance will help prevent potential negative consequences for the environment and human health. It is a precondition for reuse and recycling of used electrical and electronic equipment.
For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

Service (Customer Care)
We offer you support that is fast and tailored to your specific needs!
Our Online Support on the Internet can be reached any time from anywhere.
www.gigaset.com/customercare
It provides you with 24/7 support for all our products. It also provides a list of FAQs and answers plus user guides and current software updates (if available for the product) for you to download.
You will also find frequently asked questions and answers in the appendix of this user guide.
For personal advice on our range of products and assistance with repairs or guarantee/warranty claims you can contact us on:
UK helpdesk: 0 84 53 67 08 12.
Ireland: 18 50 77 72 77.
Please have your proof of purchase ready when calling with regard to guarantee/warranty claims.
Replacement or repair services are not offered in countries where our product is not sold by authorised dealers.
Guarantee Certificate United Kingdom

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, Gigaset Communications 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 guides.
- 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 guides 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 Gigaset Communications shall vest in Gigaset Communications.
- This Guarantee shall apply to new devices purchased in the European Union. For Products sold in the United Kingdom the Guarantee is issued by: Gigaset Communications GmbH, Schlavenhorst 66, D-46395 Bocholt, Germany.
- 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, Gigaset Communications 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 Gigaset Communications telephone service. The relevant number is to be found in the accompanying user guide.
Appendix

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, Gigaset Communications 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:
  ◆ The device is opened (this is classed as third party intervention)
  ◆ Repairs or other work done by persons not authorised by Gigaset Communications.
  ◆ Components on the printed circuit board are manipulated
  ◆ The software is manipulated
  ◆ Defects or damage caused by dropping, breaking, lightning or ingress of moisture. This also applies if defects or damage was caused by mechanical, chemical, radio interference or thermal factors (e.g.: microwave, sauna etc.)
  ◆ Devices fitted with accessories not authorised by Gigaset Communications
  ◆ 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 Gigaset Communications shall vest in Gigaset Communications.
  ◆ 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 Gigaset Communications GmbH, Schlavenhorst 66, D-46395 Bocholt, Germany.
  ◆ 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, Gigaset Communications reserves the right to charge the customer for replacement or repair.
Appendix

- 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 Gigaset Communications helpdesk on 1850 777 277. This number is also to be found in the accompanying user guide.
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