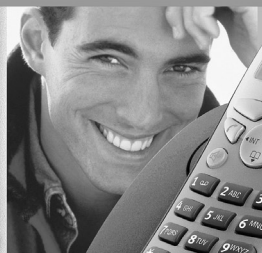


# SIEMENS

Be inspired

**Gigaset**  
isdn  
Comfort  
**4110**



## Operating Instructions

and safety precautions 

# Safety precautions



**Only use the power supply unit supplied**, identified on the underside of the device.



Only use **approved rechargeable batteries of the same type**. Never use ordinary (non-rechargeable) batteries. Otherwise health risks and personal injuries cannot be excluded.



Insert rechargeable batteries in accordance with polarity symbols (the instructions are found in the handset battery compartment).



Use the batteries indicated in these operating instructions (the instructions are found in the handset's battery compartment).



Medical equipment can be affected by the use of the telephone. Observe the conditions in your environment (e.g. doctor's practice).



The handset can cause an unpleasant humming sound in hearing aids.



Do not install the base station in bathrooms or showers. The handset is not splashproof (see also page 87).



Do not use the telephone while driving a vehicle (Walk and Talk mode).



Telephones must be switched off at all times in aircraft (Walk and Talk mode). Prevent accidental activation.



Do not operate the telephone in environments where there is risk of explosion (e.g. paint shops).



Ensure that the operating instructions are included when passing on your Gigaset to a third party



Dispose of batteries and telephone in an environmentally friendly manner.

## Info

Not all functions described in these operating instructions are available in all countries.

# Brief overview of the handset

## Status LED (light-emitting diode)

lights up during a call;  
Flashes for:

- incoming call
- new messages
- alarm calls, reminders, anniversaries

## Display

### Battery level

☺ flat (flashes)  
🔋 full

## Reception strength

## Control key

## Talk key

- Accept call
- Dial call number
- Switch from hands-free to handset mode

## Current functions and softkeys

The softkeys give you access to the current functions.

## End call and on/off key

- Ending the call
- Abort function
- Press briefly: Back one menu level; long press: return to idle condition
- Handset on/off (long press)

## hands-free talking button

## Open PhoneBook

## Message key

Access to the message lists.

## Star key

Long press to switch ringer on and off

## Provider key

- Open provider list: press briefly

## Keylock

On/off long press

Microphone

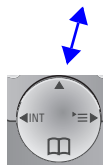
## Relationship between control key and softkeys

### Softkeys

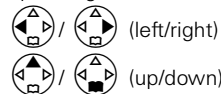


The **softkeys** can be used to perform functions, some of which can also be controlled with the **control key**.

### Control key



The **control key** page which you must select is shown with the following symbols in the operating manual:



## Functions of the control key

The control key has different functions in different situations.

Control key	On standby	In lists and menus	In an input field
		Up	Cursor one line up
	Open PhoneBook	Down	Cursor one line down
	Activate menu	Select entry (OK)	Cursor right
	Dial internal subscribers	One menu level back (cancel)	Cursor left

## Display symbols

Depending on the situation you will see the following symbols above the softkeys:

Symbol	Meaning
	Menu key: On standby, opens the general menu. During a call, opens a context-sensitive menu.
	Confirm and select menu function, end input and store.
	Delete key (backspace): Deletes entries from right to left.
	Last number redial: Opens a list of the last five numbers called.
	Shown only in the connection status for dialling an internal user.
	Shown only in the connection status for new messages, the T-net box, in the caller list and the SMS list.
	One menu level back, cancel (locally and in the connection status)


## Navigating the menus to set the hands-free volume


- or press right softkey
- Scroll down to **Sound Settings**.
- or Select **Sound Settings**.
- or Select **Handset Volume**.
- or Set the volume you prefer.
- Save the volume.

# Quick reference guide

## Handset

Activate/deactivate handset hold down 

Activate/deactivate keypad pro-hold down   
tection






Activate/deactivate tones hold down 

Make an external call  

Redial a number  if necessary  select entry 

Save a call number in the directory    Copy to Dir. OK

Dial with the directory   [Name] if necessary   or  

Dial with the caller list   Caller List OK if necessary   entry 




Set the handset volume   Sound Settings OK Handset Volume OK  
  Save







Make an internal call  and  internal user 

Call all handsets  Call All  or 

Transfer call to other handset  and  internal user OK 

Internal enquiry calls  and  internal user OK :end: End

Set date, time   Calendar/Clock OK  Date/Time OK  
Set date and time Save

Set the alarm clock   Calendar/Clock OK  Alarm Clock OK  
Enter settings    Save

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**Dear customer,**

Your opinion is important to us.

Please spare a few minutes of your time to take part in our internet survey:

**<http://www.siemens.com/customersurvey>**

Participants are entered in regular prize draws where there are attractive prizes to be won.

**Many thanks**

# Putting the telephone into operation

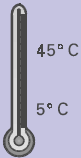
## Product package

- 1 base station
- 1 mains connector cable with plug-in power supply unit
- 1 ISDN connector cable
- 1 set of operating instructions
- 1 Gigaset 4000 Comfort
- 2 rechargeable batteries
- 1 belt clip for the handset

## Setting up the base

### Notes on setup

The base is designed for operation in protected areas with a temperature range of +5 °C to +45 °C. It should be set up at a central location in the apartment or house, such as a hallway.



- The Gigaset must never be exposed to any of the following: sources of heat, direct sunlight, other electrical equipment.
- Protect your Gigaset from moisture, dust, aggressive liquids and vapour.

## Range and reception strength

The range in the open is approximately 300 m; a range of up to 50 m can be attained in buildings. The reception strength display indicates the quality of radio contact between the base and handset:

- ▣▣▣▣ Reception strength 100%
- ▣▣▣▣ Reception strength 75%
- ▣▣▣▣ Reception strength 50%
- ▣▣▣▣ Low reception strength
- ▣▣▣▣ No reception (flashing)

### Info

#### Power failure:

Your base station, the handsets registered on it and corded terminal equipment will **not** be able to function in the event of a power failure. All settings and stored information (messages, telephone directory entries) will be retained indefinitely.

Step  
by  
step

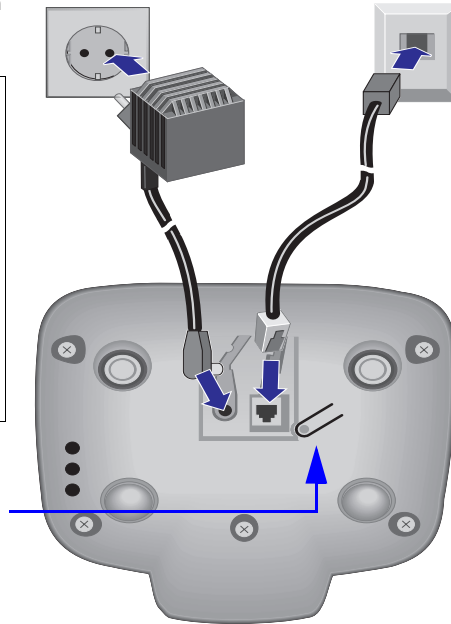
## Connecting the base

Plug-in power supply unit  
(220/230 V with  
mains cable)

Phone connector with phone cable

- 1**
- Plug the **small mains cable connector** into the socket,
  - Place the cable in the cable channel,
  - Connect the plug-in power supply unit to the socket.

Key for  
registering other  
handsets  
(see page 18)



- 2**
- Plug the **phone cable's connector** into the socket (latches into position),
  - Place the cable in the cable channel,
  - Plug the phone connector into the phone socket/NTBA.

**Info**

- **Only use the plug-in power supply unit provided** (as identified on the underside of the base).



Only use the cable provided.

## Step by step

### Putting the handset into operation

The display is foil-protected.  
**Please remove the protective foil.**



### Insert the batteries



- Insert the batteries with the **correct polarity** – see illustration left.
- **Place** the cover section on the battery compartment and slide it **up** until it latches into position.
- **To open**, press on the ribbed section of the cover and slide it **down**.

### Info

- Only use recommended, rechargeable **batteries** (page 94). Never use ordinary batteries; doing so may be hazardous to health and cause injury.
- Do not use any charging equipment other than the unit supplied or the batteries may be damaged.

### Place the handset in the base and charge the batteries

Before using your handset, place it in the base with the display facing upward.

Leave the handset in the base for about five hours to charge up the batteries, which are supplied non-charged. The charge status of the batteries is indicated on the handset by flashing of the charge status display:

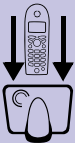
- |  |   |  |                                 |
|--|---|--|---------------------------------|
|  | Batteries dead (battery symbol flashes) |  | Batteries $\frac{2}{3}$ charged |
|  | Batteries $\frac{1}{3}$ charged         |  | Batteries fully charged         |

### Note:

Your equipment is now ready for use. For correct time-logging of calls, you will now need to set the date and time, see page 26.

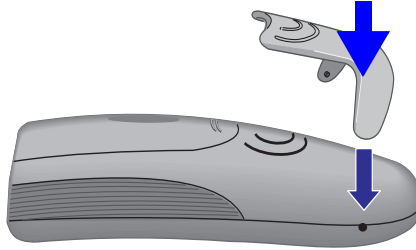
### Info

- After initial charging you can replace your handset in the base after each call. The charging process is electronically controlled, ensuring that the batteries will be charged in the best possible way that will take care of them.
- The batteries will become warm during the charging process; this is normal and not hazardous.
- The batteries' charge status will only be shown correctly after uninterrupted charging/discharging. For this reason you should not open the battery compartment unnecessarily.




### Step by step

### Attaching the belt clip



Press the belt clip against the rear of the handset until the side “lugs” latch into the cut-away sections.

### Activating/deactivating the handset

 : To activate/deactivate the handset, **long**-press the “replace handset” key – you will hear a confirmation tone .


### Info


The handset will switch on automatically when the batteries have been inserted after it has been placed in the base.

### Activating/deactivating the key lock

You can “lock” the handset’s keypad, for example when carrying the handset around with you. Accidental key actuations will then have no effect.

The keypad lock will be deactivated automatically if a call arrives and reactivated on completion of the call.

To answer a call: press the “lift handset” key  .

 : To activate/deactivate the keypad lock, **long**-press the “replace handset” key – you will hear a confirmation tone.

---

\* Confirmation tone = sequence of ascending tones,  
Error tone= sequence of descending tones.



**Step  
by  
step**

## Setting and operating the base station

To configure the base station you will need a Gigaset 4000/3000/2000 series Comfort handset (Comfort/Micro).

The functionality described in these operating instructions is also fully applicable to the Gigaset 4000 Micro handset.



## Operating the 4000 Classic handset

Please refer to page 96.

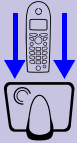
### Operation of the 4000 and 3000/2000 Comfort handsets compared

Description	4000	3000/2000
Up		(softkey)
Down		(softkey)
Up one menu level		(softkey)
Select entry		(softkey)
Open telephone directory		(key)
Dial internal user		(softkey)
Open menu		(key)

# Registering and de-registering handsets

To be able to phone using your handset, you have to “introduce” it to the base (register it). Registration is a very straightforward procedure that takes place automatically.

In contrast to this, other manufacturers’ handsets have to be registered manually (see page 18).



## Automatic registration

### of Gigaset 4000 handsets on a Gigaset 4110isdn base

Automatic registration (“introduction”) is only possible with the handset supplied and each additionally purchased handset. Before switching your handset on, **place it in the base with the display facing upward.**

After about a minute you will receive the advisory “Time not activated”. To make the setting, please proceed as described on page 26.

The handset’s internal number will then be displayed (“Internal 11” for example).

Your handset has now been registered and is ready for operation.

The handset will automatically be assigned the next free internal number (12-18). **In the event of full occupancy, please de-register a registered handset first.**


It is possible to assign a handset another internal name later (page 31).

## Step by step

### Manual registration

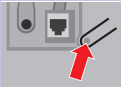
#### Gigaset 4000Comfort/Micro handsets on a Gigaset 4110isdnbase

If a handset is already registered on another base, you must now specifically register it on your own base.

1. Press  for selection menus.
2. Select using [**↓**] and [OK]: *Settings* → *Register H/Set*.
3. Select using [**↓**] and [OK]: *Base 1 - Base 4*.
4. Key in the system PIN and confirm with [OK] (factory setting: 0000) – *Regstr.Procedure Base 1* will be displayed, for example.
5. **Long**-press the key on the underside of the base. You can confirm the internal number you are offered with [OK], or select another internal number with [**↓**] and confirm it with [OK].

**In the event of full occupancy, please de-register a registered handset first.**

After successful registration the handset will return to the idle condition. The internal number will appear on the display (example: "Internal 11").



#### Registering Gigaset 2000/3000 handsets and other manufacturers' handsets on the Gigaset 4110isdn base

##### Prerequisite:

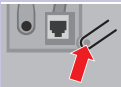
Other manufacturers' handsets must support the **GAP standard**.

Not all the functions of your handset may be available despite this.

GAP	<b>Generic Access Profile</b> = Standard for interoperation between handsets and bases of other manufacturers
-----	--

**Info** Your Siemens handsets and bases support the GAP profile. On page 96 you will find a compatibility table for using simple or older handsets on your base.

1. Register your handset according to the relevant handset's operating instructions.
2. Press the key on the underside of the base for longer than 1 second.



After registration, your Siemens base will assign the handset the **first free** internal call number.




## Step by step

### Registering a Gigaset repeater

A Gigaset repeater for extending the handsets' range does not require a free registration space. You can register up to 6 Gigaset repeaters on a base station (see page 86 for a description).

### De-registering devices




The de-registering of a handset can be done using any 4000 Comfort handset. Handsets that remain registered will retain their previous internal numbers.

1. Press  for selection menus.
2. Select using [] and [OK]: *Service Set Up* or *Base Settings* → *Settings* → *Setup user* → *De-register*.
3. A list of internal numbers will be displayed.  
Select using []: (*required internal number*).
4. Press [OK ], the device with this internal number has been de-registered.

### Changing the base

**Prerequisite:** The handset is registered on several bases.

You can set the handset

- permanently to a specific base (at home or in the office, for example)
  - or ● to *Best Base* – resulting in automatic change-over to the base with the best reception.
1. Press  for selection menus.
  2. Select using [] and [OK]: *Settings* → *Select Base*.
  3. Select using [] and [OK]: select *Base 1 - Base 4* or *Best Base* and confirm.

# Time functions


Your Gigaset will support you in organising your schedule like a clock, with an appointment reminder and alarm function.

The date and time will be set automatically when the first outgoing call is made.

## Set date and time

The date and time setting is required for correctly displaying the arrival time of messages/calls.

You can also set the mode for the time. Choose between a 12-hr (**am** or **pm**) and a 24-hr display.


1. Press  for selection menus.
2. Select using [**↓**] and [OK]: *Calendar/Clock* → *Date/Time*.  
The current setting will be displayed.
3. Enter the date in the specified format » - - . - - . - - « day/month/year.
4. Use [**↓**] to select [Time], and enter this in the format » - : - - « hours/minutes.  
The factory setting is a 24-hr display. If **am** or **pm** is shown next to the time, it means the 12-hr display is active. If you have already selected the "Time" line, you can change over from **am** to **pm** using the left-hand display key.
5. Use [**↓**] to select [Mode]: choose between a 12-hr and a 24-hr display mode if necessary.
6. Select using: *Save*.

## Setting the alarm






You can also use your handset as an alarm clock.

**Prerequisite:** the date and time must have been set, see page 20.

### Activate the alarm

Once activated, the alarm will ring every day at the time that was set. If you have set a time for the alarm, this will be displayed by the symbol .


#### The telephone is in the idle condition:

1. Press .
2. Select using [**↓**] and [OK]: *Calendar/Clock* → *Alarm Clock*.  
The current setting will be displayed.
3. Select using  : *On*
4. Use  to skip one line down.
5. Enter the time for the alarm, let's say 0600 hours/minutes. So for this example: 6.00 hrs.
6. Use  to skip one line down.

#### Select ringer melody for the alarm

Select using  : ringer melody.

7. Select using: *Save*.




A stored alarm time will be displayed by the symbol  when the handset is in the idle condition.

#### Info

No alarm will be signalled if the room monitoring function has been activated or during automatic redial.

### De-activate the alarm

Although the alarm has been set, you don't want it to ring every day.

1. Press .
2. Select using [**↓**] and [OK]: *Calendar/Clock* → *Alarm Clock*.  
The current setting will be displayed.
3. Select using  : *Off*
4. Select using: *Save*.


**Step  
by  
step**

## Switch off the alarm



An alarm is signalled like an incoming call. The handset rings and the status LED flashes (for about 30 sec.).  
You switch the alarm off by pressing any key.

## Appointments





Your handset can remind you of **one** appointment. The required time has to be stored for this. You can only set one appointment at a time.

If you have set an appointment, this will be displayed by the symbol .


### Setting an appointment

1. Press  for selection menus.
2. Select using [] and [OK]: *Calendar/Clock* → *Set Appoints..*

### Activate the appointment function

3. Select using  : *On* if the current setting is *Off*.
4. Use  to skip one line down.
5. Enter the date, let's say 2005 day/month. So for this example: 20.05.
6. Use  to skip one line down.

### Enter the time

7. Enter, for instance, 0905 hours/minutes. So for this example: 9.05 hrs.
8. Use  to skip one line down.

### Select the ringer melody for the appointment function

9. Select using  : ringer melody.
10. Select using: *Save*.




**Info**

An appointment will only be sounded if the handset is in the idle condition. An appointment melody will not be played if the room monitor function has been activated or during automatic redial or while an internal or external call is in progress.

## Switching off appointment signalling

An appointment reminder is signalled like an incoming call. The handset rings and the status LED flashes (for about 30 sec.)  
You switch appointment signalling off by pressing any key.

Step  
by  
step**Activating the appointment function**

1. Press  for selection menus.
2. Select using [**↓**] and [OK]: *Calendar/Clock* → *Set Appoints..*
3. Select using  : *On* if the current setting is *Off*.
4. Select using: *Save*.


**Display appointments and anniversaries you have not responded to**

Any appointments or anniversaries that were signalled by your handset but were not responded to by you will be stored in a list.


A new appointment/anniversary that was not responded to will be displayed with "Missed Appoint." Press the right-hand display key to display the list of events.

Then select *Missed Appoint.*  [OK].

Do the following if you want to view your already displayed appointment again:

1. Press  for selection menus.
2. Select using [**↓**] and [OK]: *Calendar/Clock* → *Missed Dates*.
3. Select using [**↓**] and [OK]: select the expired appointment. The information about this missed appointment will be displayed.

An expired appointment is identified with .

An expired anniversary (see page 48) is identified with .

4. Use *Delete* to delete an expired appointment/anniversary.
- or 4. Use [OK]: return to the list.



# Getting into the ISDN world is easy\*

## What is an MSN?

MSN stands for multiple subscriber number. You can apply for a maximum of ten different telephone numbers for the ISDN multiple device connection. An MSN is one of the telephone numbers assigned to you **without** the area code.

## Configuring Gigaset 4110isdn and MSNs

Your Gigaset 4110isdn telephone system will use MSNs in exactly the way you wish. A distinction is made here between:

- Receive MSN: the call number that can be accepted on certain Gigaset 4110isdn handsets for incoming calls.
- Transmit MSN: the call number that is used for outgoing calls and via which invoicing by the provider will be carried out.
- In addition to the above options you can also set the required MSN for the next outgoing call on the Comfort handset.

### Possible internal users are:

11-18	You can assign the internal call numbers 11-18 during registration
-------	--

Example: You use 2 MSN call numbers.

You have assigned handset 11 both the business and private call number. But handset 12 has only been assigned the private number.

This means that both business and private calls will be signalled on handset 11. The call number entered first, 11111, is always used for outgoing calls. For private calls you can also use the private call number for the "MSN next choice" function.

Usage	Receive MSN	calls where	Ans. machine	Transmit MSN	MSN next choice
business	11111	11	1	11111	22222
private	22222	11, 12	2	22222	—

\* The ISDN functions described in the user guide are dependent on the country and network provider.

Step  
by  
step

## Ring delay per incoming MSN


Using the ring delay feature you can configure a handset for each individual incoming MSN to delay response to the call signal. However, during this ring delay time the handset can accept the call using the "call pickup" function without a call signal queuing. For more details about Setting ring delay, see page 49.

# The Installation Assistant


The Installation Assistant can be called up any time to help you set the most important functions. The following settings can be completed in sequence:

- Date and time.
- Determining/entering MSNs
  - To determine MSNs (can only be queried if an MSN has not yet been entered).
  - Enter own number (MSNs = your telephone numbers) without a prefix.
- Set incoming MSN = call allocation of subscribers to a telephone number.
- Set outgoing MSN = call number via which external calls are conducted and invoiced; the number can be individually set for each handset.
- Exchange code (when used with a telephone system).
- Exchange code (with installation behind a PABX)

## Starting the Installation Assistant

1. Press  for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Installation*.
3. Confirm the prompt for starting the Installation Assistant with [YES].

## Entering the date and time

1. Confirm the prompt for entering the time with [YES].
2. Enter the date in the format "- - . - - . - -" (day, month, year) and the time in the format "- - : - -" (hour, minute) and confirm with [].
3. Select using [**↓**] and [OK]: *Save entry*.

Step  
by  
step

### Finding your own numbers (MSNs)

The network provider will have notified you of your MSNs when they sent you the order confirmation for your ISDN line. Provided the connection permits it, these numbers can be requested from the central office and entered and displayed by Gigaset 4110isdh.




1. Confirm the prompt *Find own numbers (MSN)?* by selecting [YES].

If the display shows a positive answer (e.g. "3 numbers (MSNs) found") and you do not want to enter any names for the MSNs, you can skip the following procedure with [NO].

If this function is not supported by the service provider, the MSNs must be entered manually; see next chapter.

### Enter own numbers (MSNs) and name for the MSNs

You can store up to 10 numbers. For easier identification, you can enter a name for each number.

1. Confirm the prompt for entering the call number with [YES].
2. Confirm the prompt for entering the first MSN with [YES].
3. Enter name or use  to change to the call number; enter or change the call number **without the area code** and confirm with .
4. Select using [&#9648;] and [OK ]: *Save entry*.




You are prompted for the next MSN.



Your handset will not ring if you have entered the call number incorrectly (for example if you have put the area code in front of the required number).

### Setting incoming MSNs

The number is used to call your handset/terminal. You can assign several MSNs.

1. To confirm the incoming MSN prompt, select [YES].
  2. To confirm the allocation prompt select [YES].
- or
2. To move to the next internal number, select [NO].
  3. Press [&#9648;] and [OK ] to select: *(one or more MSNs)*. To confirm, press .
  4. To end the procedure select .

Allocations for further internal parties are offered.

**Step  
by  
step**

## Setting outgoing MSNs

This number can be used to make an outgoing call. This number is transmitted to the called party and the service provider charges the call costs to this MSN. You can only assign one outgoing MSN to each handset/terminal.

- 1.** To confirm the outgoing MSN prompt, select [YES].
- 2.** To confirm the allocation prompt select [YES].
- or**
- 2.** To move to the next internal number, select [NO].
- 3.** Press [↓] and [OK ] to select: *(one MSN)*.  
To confirm, press [✓].
- 4.** To end the procedure select [↵].

Allocations for further internal parties are offered.

## Operation using a telephone system

If you are connecting your base station to a telephone system:

- 1.** Select [YES] in response to the telephone system prompt.
- 2.** Select [YES] to confirm the prefix prompt (exchange code).
- 3.** Enter prefix and select [≡] to confirm.
- 4.** Press [↓] and [OK ] to select: *Save entry*.



Installation is completed with the help of the installation assistant.

# Setting up ISDN call numbers (MSN)


Your ISDN connection provides you with 2 phone lines (B-channels) that can be used at the same time. You can set up a maximum of 10 own call numbers (MSN) on your base station. If you have not yet stored all the call numbers using the installation assistant (see page 26), you can do this now. **All call numbers stored subsequently will automatically be assigned to all registered handsets.**

## Set up call number (MSN)

Every newly set up call number will **automatically** be given its own ringer melody, which you can change individually. This will allow you to tell straight away from the ring tone who the call is intended for.

1. Press  for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Settings* → *ISDN settings* → *Set up MSN*.
3. Select using [**↓**] and []: (*required MSN*).
4. Select using [**↓**] and [OK]: *Edit entry*.

In this menu, you also have the option of setting another ringer melody and of deleting or displaying the entry.

5. Enter new **or** modified MSN and/or names and confirm with [].
6. Select using [**↓**] and [OK]: *Save entry*.



## Assigning call numbers (MSNs)

You can now assign the registered handsets the previously set up call numbers (MSN). In doing so you will specify

- the call numbers (there can be more than one) under which a registered terminal will ring (**receive MSN**),
- the call number from which an internal subscriber should dial (**outgoing MSN**). You can set one outgoing MSN for each internal subscriber. This MSN is displayed to the called party and any call charges incurred are assigned to the appropriate subscriber (see also the table on page 24).



## Assigning an incoming MSN

A newly registered handset will ring under all configured call numbers. If you want to assign a specific incoming MSN to the handset:

1. Press  for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Settings* → *Setup user* → *Setup device*.
3. Select using [**↓**] and []: (*required internal subscriber*).
4. Select using [**↓**] and [OK]: *Receive MSN* → (*relevant MSN*).
5. Now use [**↓**] and [OK] to activate the required *Receive MSN* (✓ in front of the menu item = ON/without = OFF).

### Step by step

### Assigning an outgoing MSN


1. Press  for selection menus.
2. Select using [↓] and [OK]: *Base Settings* → *Settings* → *Setup user* → *Setup device*.
3. Select using [↓] and : (*required internal subscriber*).
4. Select using [↓] and [OK]: *Send MSN* → (*required MSN*).
5. Now use [↓] and [OK] to activate the required *Send MSN* (✓ in front of the menu item = ON/without = OFF).

# System settings

The abbreviations in brackets after the titles stand for the corresponding ISDN feature. Some features can only be used if enabled by the provider (additional charge).

## Changing the names for internal subscribers

With the factory default, the names *Int.11*, *Int.12* etc. are allocated to all the internal numbers in accordance with their numbering. These entries may be changed to suit your requirements.

1.  is pressed for menus.
2. Press [**↓**] and [OK] to select: *Base Settings* → *Settings* → *Setup user* → *Setup device* → (required internal no.) → [**≡**] → *Name*.
3. Change the name and select [**≡**] to confirm.
4. Press [**↓**] and [OK] to select: *Save entry*.  
The name is now displayed in the internal list and also when an internal call is made from this internal no.

## Call waiting - activating/deactivating CW

This feature can be set up separately for each user. When call waiting is activated, the caller hears the on-hook signal if you are already conducting a call.

If call waiting is deactivated, the caller hears the ring tone if you are already conducting a call and additional devices are assigned to this MSN.

If call waiting is deactivated, the caller hears the busy signal if you are already conducting a call, and are either the only user assigned this MSN, or if the feature Busy signal when MSN is engaged (Busy on Busy) see page 32 has been activated.

1. Press  for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Settings* → *Setup user* → *Setup device* → (required internal user) → [**≡**] → *Call waiting*



## Step by step

### Rejecting calls for entire MSN group

You have the option of rejecting an external call, not only to your handset, but also for all the members of an MSN group. By pressing [REJECT] the caller will receive a busy signal instead of the ringing tone. The entire group will no longer be called. During a call, a "call waiting" may also be rejected. The call is picked up in the caller list.

#### Configuring "reject" for the entire MSN group

1. Press for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Settings* → *ISDN settings* → *Reject all*.
3. Select using [**↓**] and [OK ].  
The selection is confirmed with .

### Busy signal when MSN is engaged (Busy on Busy)

With this setting, callers immediately hear the busy signal if a call is currently being conducted through this MSN, regardless of the setting *Call waiting*.

Example:

You are currently conducting a call to number 4711. Any caller who dials this number will hear a busy signal.

1. Press for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Settings* → *ISDN settings* → *Busy on busy*.
3. Select using [**↓**] and [OK ].  
The selection is confirmed with .

### Setting external/internal enquiry call

You can set your phone so that:

- in the case of an enquiry call from an external call to another external party, connecting will be carried out directly in the exchange so that your 2nd ISDN line will be kept free;
- in the case of an enquiry call from an external call to another external party, connecting will be carried out in your base; this will mean both ISDN lines will be seized (see also "Configuring music-on-hold" on page 32).

**Info** *Ext. enq. call* is the factory setting.

1. Press for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Settings* → *ISDN settings* → *Int. enq. call* → (✓ in front of menu item = ON / no = OFF).
- or 2. Select using [**↓**] and [OK]: *Base Settings* → *Settings* → *ISDN settings* → *Ext. enq. call* → (✓ in front of menu item = ON / no = OFF).
3. Confirm with [OK ].

### Configuring music-on-hold

The caller hears music-on-hold when put on hold by the base station rather than the exchange (e.g. in the case of internal transfer). Please also note the section "Setting external/internal enquiry call" on page 32.

## Audio settings

With this setting you can define a ringer melody for each MSN, valid for all called handsets.

### Info

The ringer melody cannot be set on the handset itself. Depending on the MSN called, the base station assigns a ringer melody to a handset.

### Assigning a ringer melody to an MSN

Each newly assigned MSN is automatically assigned its own ringer melody.

**This setting enables you to change the type of melody.**

1. Press for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Settings* → *ISDN settings* → *Set up MSN*.
3. Select using [**↓**] and []: (*required MSN*).
4. Select using [**↓**] and [OK]: *Ringer melody*.
5. Select a melody from 1 to 10 using [**←**] or [**→**] and confirm with [OK].

## Changing long-distance codes

The long-distance codes are the first digits in the prefix for dialling another city (national) or country (international).

Default settings:

- 0 for connections to other local networks (national)
- 00 for connections to other countries (international)

If the long-distance codes are different in your country you need to change the settings. Otherwise you will not be able to use the callback function for all calls in the missed calls list.

1. Press for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Settings* → *ISDN settings* → *Lg.-dist. code*.
3. Select using [**↓**] and []: (*national or international*).
4. Select using [**↓**] and [OK]: *Change number*.
5. Enter the new **or** changed code and confirm with [].
6. Select using [**↓**] and [OK]: *Save entry*.

## Step by step



### Restoring the factory setting

You can choose the settings that are to be restored:

- *Operational* – All MSNs and prefixes (exchange codes) are deleted.
- *Reset all* – All functions are reset to the default settings. The system PIN is reset to "0000". All entries (missed calls list, costs) are deleted.

#### Info

**For both functions:** Before resetting, you must deactivate all active call forwarding settings. Remote control of the answering machine is disabled. The handsets remain registered.

1. Press  for selection menus.
2. Select using [] and [OK]: *Base Settings* → *Settings* (key in system PIN if necessary) → *System settings* → *Spec. function* → *Factory setting*.
3. Confirm with [OK].
4. Enter the system PIN and confirm with [OK].
5. *Operational* is displayed. Confirm with [OK].

Acknowledge the message

*Settings*  
*reset*

and wait for the confirmation tone.

- or
5. Select using [] *Reset all* and confirm with [OK].

6. Answer [YES] to the question



*Reset*  
*factory*  
*defaults?*

Confirm the message *Reset all* and wait for the confirmation tone.

### Querying the status

You can query the status of the following settings:




- Callback
- Withhold no.
- Call forwarding
- Ext.occupations

1. Press  for selection menus.
2. Select using [] and [OK]: *Base Settings* → *Status*
3. Press [OK] to open the status list (✓ before an item = system function active).

# Set handset individually

You can set your handset to suit your own specific requirements to make it different from the default settings and gain an optimum level of convenience.

## Changing a handset's display language









1. Press  for selection menus.
2. Select using [] and [OK]: *Settings* → *Language*.  
The current setting will be displayed.  
The active language has a ✓ mark (factory setting: English).
2. Select  and [OK]: (*required language*).

**Info** If need be, you can set a changed display language back to the original by restoring the handset to the factory settings.

## Changing the volumes, melodies and tones

### Handset and loudspeaker volume

You can adjust the handset volume in three stages, and the loudspeaker for hands-free talking in five stages (**also while an external call is in progress**).

1. Press  for selection menus.
2. Select using [] and [OK]: *Sound Settings* → *Handset Volume*.  
The current setting will be displayed.  
The tone will be heard at the current volume.
3. Select using  : (*required hands-free talking volume*).
4. Use  to skip one line down.
5. Select using  : (*required handset volume level*).  
The current volume will be heard and the associated level will be displayed.
6. Select using [] and [OK]: *Save*.

**Step  
by  
step**

## Ringer volume and melody

You have several options:

- Five ringer volumes (the factory setting is volume 5),
- “Crescendo” ringing (volume becomes louder),
- Ring tone off,
- Select from ten ringer melodies,

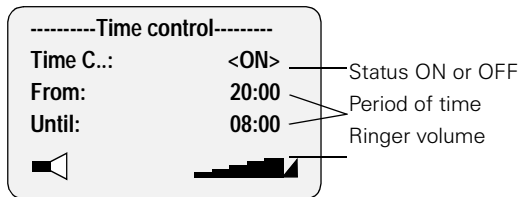
**This setting enables you to change the type of melody** (see also the Section “Assigning a ringer melody to an MSN” on page 33).

1. Press for selection menus.
2. Select using [**↓**] and [OK]: *Sound Settings* → *Ringer Settings*.  
The current setting will be displayed.  
The current **ringer volume** will be heard and displayed.
3. Select using : (*required ringer volume*).
4. Use to skip one line down.
5. Select using [**↓**] and [OK]: *Save*.

## Time control for ringer volume (“ring tone”)

You can set a different ringer volume for a specific period of time (quieter, for example, in order not to be disturbed).

1. Press for selection menus.
2. Select using [**↓**] and [OK]: *Sound Settings* → *Ringer Settings*.  
The current setting will be displayed.  
The current ringer volume will be heard and displayed.
3. Press [Time C.].






4. Select using : (*switch time control on or off*).
5. Enter the period of time for the required ring tone (from – until).
6. Use to skip one line down.
7. Select using : (*ringer volume (Quiet or Loud)*).
8. Use [Save] to save the time-control settings.
9. [Save] or press .

Step  
by  
step

## Alerting tone

When switching off the ring tone you can activate an alerting tone. When a call arrives you will then hear a **short tone** ("beep") instead of the ring tone.

**Long-press**  , then press the **Bleep** display key **within 3 seconds**. Calls will then be signalled by **one** short alerting tone. The display shows .












### To deactivate the alerting tone:

**Long-press**  .

The ring tone has now been reactivated.




## Activate/deactivate advisory tones

- **Key click:** every key actuation will be confirmed.
- **Acknowledgement tones:** confirmation tone (ascending sequence) at the end of inputs/settings and when placing the handset in the base; error tone (descending sequence) when incorrect entries are made; end-of-menu tone at the end of the menu.
- **Low-battery tone:** the battery needs recharging.

1. Press  for selection menus.
2. Select using  and [OK]: *Sound Settings* → *Advisory Tones*.  
The current setting will be displayed.
3. Select using  : *On* or *Off* to activate/deactivate **key click**.
4. Use  to skip one line down.
5. Select using  : *On* or *Off* to activate/deactivate **acknowledgement tones**.
6. Use  to skip one line down.
7. Select using  : select *On*, *Off* and *In Call* (battery-low tone while call is in progress) to activate/deactivate **battery-low tone**.
8. Select using  and [OK]: *Save*.


**Step  
by  
step**

## Activate/deactivate automatic call answering

1. Press  for selection menus.
2. Select using [**↓**] and [OK]: *Settings* → *Auto Talk*.  
The current setting will be displayed.
3. Select function and activate/deactivate with [OK] (✓ = function on).  
A call arrives, your handset is in the base station or charging unit. Please note the following:  
Function activated: **do not press** the  key (to answer the call).  
Function deactivated: **press** the  key (to answer the call).

## Restore the handset to the factory settings

Resetting will not delete the telephone directory or missed calls list.  
Registration on the base will be retained.


1. Press  for selection menus.
2. Select using [**↓**] and [OK]: *Settings* → *Reset Handset*.  
The current setting will be displayed.
3. Confirm the security query with [ YES ].


Function	Factory setting
Handset volume	1
Ringer volume	5
Ringer melody	1
Automatic call answering	on
Battery-low tone	on
Hands-free talking volume	3
Babyphone level	high
Time control	off
Display language	country-specific


# Convenient telephoning

Some of the functions described are provider-dependent.

## External calling

1. External calls are calls made into the public telephone network.
2. Enter the call number, correcting individual digits using the display key  if necessary.

3. Press the lift handset  key.

or 3. Press the replace handset  key to end a call.

### Info

- You can also first **press the lift handset**  **key** (you will hear dial tone), then key in the call number – each digit will be dialled immediately.
- You can **cancel dialling** by pressing the replace handset  key.
- You can insert a **dial pause** between the prefix and call number: after keying in the prefix code, press the display key  to open the supplementary menu and select the item “Insert Pause”.

## Internal calling

If you have several handsets or additional devices you can make internal calls free of charge.

1. Press .


Your own internal call number will be displayed.

2. Key in the number of the internal user you require.

Possible users are:

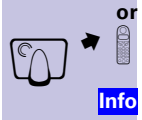
11-18 handsets

or 2. Press [LIST].

3. Select using  and [OK]; (*required internal user*). The internal user will be called.



**Step  
by  
step**



## Answering a call

Your handset rings (ring tone), the status LED and hands-free talking key are flashing.

Press the / lift handset or hands-free talking key.

Just take the handset from the base (factory setting: "Automatic call answering," (see page 38).

**Info**

- If the **ring tone causes a nuisance**, press the display key [SILENT].
- You can answer a call using the lift handset key or hands-free talking key while the call is still being shown in the display.
- You can also adjust the handset volume while a call is in progress (see page 35).

## Display the caller's number (CLIP)

The following is displayed when a call arrives (example):



If the received call number is stored in the handset's telephone directory, the stored name will be displayed (Example: *Anna*).

or *Unknown* if number display has been deliberately "suppressed" (**CLIR**).

<b>CLIP</b>	Calling Line Identification Presentation = Display of caller's number
<b>CLIR</b>	Calling Line Identification Restriction = Display of caller's number is suppressed


Step  
by  
step

## Hands-free talking







Hands-free talking gives you the following advantages:

- you can hear dial tone before dialling, without having to raise the handset to your ear;
- other people are able to listen in to a conversation and talk;
- you have your hands free to take notes, for instance.


### Hands-free talking when dialling

1. Dial the number.
2. Press the  hands-free talking key.

### Hands-free talking while a call is in progress

1. Activate  hands-free talking.
  2. **Adjust the volume:** press the hands-free talking key  again.
  3. Select using  : adjust the volume up or down.
  4. Press [Save]. Save the volume level you have set.
-  Change from hands-free talking to handset operation.
-  End the call.

**Info**

If you want to replace the handset in the base/charging unit while a call is in progress, **keep the hands-free talking key  pressed down** when doing this.

## Muting the microphone

You can switch the microphone off when conducting an external call. This will allow you, for example, to converse discretely with other people in the room. The other person on the phone will not be able to listen in when the microphone is muted, and you will not be able to hear that person.

**To mute the microphone:**

Press *MUTE*.

**To reactivate the microphone:**

Press *AUDIBLE*.

The person on the other end will be able to hear you again.

**Step  
by  
step**

## Number redial

Your handset automatically stores the five last-dialled call numbers or names.

### Manual number redial

1. Press **[>>]**: display call number/name.
2. Use **[A/B]** to select the required call number/name.
3. Press the **[hook]** lift handset key: the call number will be dialled.

### Automatic redial

Dialling of the call number is repeated automatically ten times at 20-sec. intervals. The hands-free talking key and status LED flash, open listening is activated. **The function will be deactivated automatically after 10 unsuccessful attempts at dialling.** Press *Off* or any key to cancel automatic redial.

Your call partner cannot be reached:

1. Press **[>>]**: display call number/name.
2. Select **[A/B]** **[≡]** call number/name and open the menu.
3. Select using **[A/B]** and **[OK]**: *Automatic Redial*

If the person answers:


4. Press the **[hook]** lift handset key.


**Info**

Automatic redial will be deactivated if a call is conducted in the meantime. You will need to reactivate it again afterwards.

Step  
by  
step







## Telephone directory/Provider list

The **telephone directory**  will make it easier for you to dial up to 200 numbers (depending on the size of the entries).

You can use the **provider list**  to store phone companies' prefix codes (call-by-call) for cost-conscious phoning.

The telephone directory and provider list are operated in exactly the same way.

### To store an entry

1. Open the  /  telephone directory/provider list.
2. Select using  and [OK ]: *New Entry*
3. Enter the **call number** (up to 32 characters).  
Entering letters and symbols (see page 44).
4. Use  to skip one line down.
5. Skip to the name field and enter the **name** (in the telephone directory: enter an anniversary date if applicable, see page 48).
6. Use  to open the menu.
7. Select using  and [OK ]: *Save Entry*.

### Info

Many private branch exchanges require users to key in a "trunk access code" in front of the call number (a "0" for example) in order to dial out when making outside calls. If this is the case, you will need to dial this prefix as the first digit in front of every call number (see page 81).

Step by step

### Table of symbols

Press the appropriate key several times or use long pressing:

	1x	2x	3x	4x	5x	6x	7x	8x	9x	10x	11x	12x	13x	14x
	Space	1	€	£	\$	¥	¤							
	a	b	c	2	ä	á	à	â	ã	ç				
	d	e	f	3	ë	é	è	ê						
	g	h	i	4	ï	í	ì	î						
	j	k	l	5										
	m	n	o	6	ö	ñ	ó	ò	ô	õ				
	p	q	r	s	7	ß								
	t	u	v	8	ü	ú	ù	û						
	w	x	y	z	9	ÿ	ý	æ	ø	å				
	a→A	*	/	(	)	<	=	>	%					
	.	,	?	!	0	+	-	:	¿	¡	“	’	;	_
	#	@	\	&	§									

Info

The **initial letter** of the name will **automatically be a capital** (also after a punctuation mark); it will be followed by lower-case letters.

To change a letter from **upper to lower case**, or vice versa: press .

**Control** the cursor using .

The character to the left of the cursor is **deleted** using .

Characters are always **inserted** to the left of the cursor.

Entries are sorted in the **following sequence**:

1. Space
2. Digits: (0–9)
3. Letters (alphabetic)
4. Other characters



To bypass the alphabetic sequence of entries in the telephone directory, insert a blank in front of the name. That entry will then move to first position (example: you could key in “ Karla”).


Step  
by  
step

## Dialling using the telephone directory




1. Open the  telephone directory.

**for example**  


Key in the initial letter of the name (for the name “Emma,” for instance, the initial letter “E”): press the  key twice quickly and scroll using the  key. Names are sorted alphabetically.

2. Press the  lift handset key. The number will be dialled.

**Info**


After selecting the number you can also open the menu [>≡], select *Display Number*, add to/change the number using  and dial using the  lift handset key.



## Provider list (call-by-call)


You can use the provider list () to store phone companies’ numbers (call-by-call). You can conveniently select stored call-by-call numbers before entering the call number.

### Dialling using the provider list



This function lets you put a provider’s prefix in front of the call number (“chaining”).

1. Call up the provider list using .

2. Select using  and []: select call-by-call number and open the menu.

3. Select using  and [OK]: *Display Number*




4. Enter the call number for “chaining.”

- or
4. Select using   and [OK]: call number for “chaining” from the telephone directory.

5. Press the  lift handset key.

**Info**







### Storing, changing, deleting provider list entries:

You can administer provider list entries just like entries in the telephone directory . Call up the provider using , select the required entry and press []. Then select the required function.

## Step by step

### Store provider number (call-by-call) for speed dialling





You can store eight numbers (2–9) from the provider list for speed dialling. To do this you must enter the digit for speed dialling **in front of** the provider name. Example: **2** and then the **provider name**.

1. Call up the provider list using .
2. Select using  and [OK]: (*provider*).
3. Press [View]: display entry.
4. Press [Change]: open the entry field.
5. Use  to move the cursor into the name field.
6. Use  to move the cursor to the first position in the name field.
7. Enter, for example, 4 x  for speed dialling number **2**.
8. Use  to open the menu.
9. Confirm with [OK]: *Save Entry*.

#### Info

Save a new entry and simply enter the speed dialling number as the first character of the provider name.

#### To use the speed dialling number:

1. **Long**-press, for example, key :  
The stored provider name will be displayed.
2. Enter the call number for “chaining”.
- or 2. Select using   and [OK]: call number for “chaining” from the telephone directory.
3. Press the  lift handset key.

**Step  
by  
step**

### Display and change a telephone directory entry/provider list

1. Use / to open the telephone directory/provider list.
2. Use to select the required entry.
3. Press [View]: display all information about the entry.  
You can change call number/name if you need to:
4. Press [Change]: open the entry field and make the required changes.
5. Change the call number if you need to.
6. Use to skip to the name field and change the name if you need to. (In the telephone directory: enter an anniversary date if necessary, see page 48). Entering letters and symbols (see page 44).
7. Use to open the menu.
8. Select using [OK ]: *Save Entry*.

### Deleting a single entry

1. Use / to open the telephone directory/provider list.
2. Use to select the required entry.
3. Use to open the menu.
4. Select using and [OK ]: *Delete Entry*  
You will hear a confirmation tone. The entry has been deleted.

### Display memory space

1. Use / to open the telephone directory/provider list.
2. Use to select the required entry.
3. Use to open the menu.
4. Select using and [OK ]: *Memory*:

The amount of free memory space will be displayed.

**Info** The memory space is shared between the telephone directory and provider list.





The free memory space of both lists is always displayed.






## Step by step

### Enter birthdays/anniversary dates

You can store a date and time for birthdays/anniversaries/general explanations, and be given a reminder.

1. Use  to open the telephone directory.
2. Use  to select the required telephone directory entry.
3. Display [View] entry.
4. Use [Change] to open the entry field.
5. Use  to move the cursor into the field for the "anniversary".
6. Confirm [Change].
7. Enter or change the date (day/month).
8. Use  to skip one line down and enter the time.

If **am** or **pm** is shown next to the time, it means the 12-hr display has been activated. If you have already selected the "anniversary date" line, you can change over from the 12-hr to the 24-hr display, and vice versa, using the left-hand display key.






9. Use  to skip one line down.
10. Select signalling using  .  
You can choose from among the 10 ring tone melodies with a display, or select an "optical" display without a ring tone melody.
11. Confirm with [OK].
12. Save your entries.
13. You can delete the anniversary reminder using the display key [Delete].

### Collective call/Group call


You can make a collective call from any handset to all registered internal subscribers.

#### Configuring internal collective call groups

In the basic configuration, all registered subscribers of the "Telephone" or "Neutral" device type are configured in the collective call group.

1. Press  for selection menus.
2. Select using [] and [OK]: *Base Settings* → *Settings* → *Setup user* → *Setup device*.
3. Select using [] and []: (*required internal subscriber*).
4. Select using [] and [OK]: *Hunt group* (✓ in front of menu item = ON / no = OFF).

#### Starting a collective call to all internal subscribers

1.  → [LIST].
2. Select using [] and [OK]: *Collective call*.

- or
1. .
  2. Press [\*].

All available internal subscribers are called. You are connected to the first internal subscriber who answers the call.

Step  
by  
step

## Ring delay

Using the ring delay feature you can configure a handset for each individual incoming MSN to delay response to the call signal. However, during this ring delay time the handset can accept the call using the *Accept?* function without a call signal queuing.

### Setting ring delay

1. Press for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Settings* → *Setup user* → *Setup device*.
3. Select using [**↓**] and []: (*required internal subscriber*).
4. Select using [**↓**] and [OK]: *Ring delay*.
5. Select using [**↓**] and [OK]: (*required MSN*).
6. Set *No. of rings* using - , = off.

### Picking up calls during ring delay

1. A call is coming through to the assigned MSN.
  2. Press the key, the following appears in the display: *Accept?*
  3. Press [YES]. You can then answer the call.
- or
3. Press [NO]. You can set up your own external or internal call.

## Conducting calls with more than one subscriber

### Internal enquiry call

You would like to call an internal subscriber during an external call.

1. Press and enter the call number for the second subscriber.  
A connection is established with the internal subscriber.
- or
1. → [LIST].
  2. Select using [**↓**] and [OK]: (*required internal subscriber*).  
A connection is established with the internal subscriber.  
If the internal subscriber dialled is busy:
  3. Press [BACK]: You are reconnected with the external caller.  
The internal subscriber answers the call:
- or
3. Toggling: you can switch between call parties with [**↑**] and [**↓**].
- or
3. Three-way calling: press [CONF]. This establishes the conference circuit.



## Step by step

### Toggle

By toggling, you switch from the active (1st call) to the inactive (2nd call) connection. The first call remains connected.

1. To switch between called parties, select  and  or  and .

### Ending an enquiry call/toggle

1. Press  for the menu.
2. Select using  and [OK]: *End*.

You are reconnected with the subscriber on hold.

### Conference circuit

A conference circuit enables you to talk to two parties at the same time. These can either comprise two external subscribers, or one external and one internal subscriber.

### Setting up three-way calling

You are conducting an enquiry call. The first subscriber is put on hold.

1. Press [CONF]: This establishes the conference circuit.



### Ending three-way calling

You are conducting three-way calling.

1. Press [INDIV.]: The conference call is terminated. The connection which was active immediately before three-way calling was set up is re-established as the active connection. The other subscriber is put on hold once more.



### Setting up an external enquiry call

You would like to call an internal subscriber during an external call; To set, see:

1. Press  for the menu.
2. Select using  and [OK]: *Enquiry call*.
3. Enter the call number for the second subscriber.

### Ending an external enquiry call





You are conducting an enquiry call which you would like to end:

1. Press  for the menu.
2. Select using  and [OK]: *End*.

### Transferring calls on/before answer – ECT (Explicit Call Transfer)

ECT is currently only supported behind PABXs. To activate/deactivate call transfer, see page 83.



You are conducting an external call which you would like to transfer to another external subscriber.

1. Press  for the menu.
  2. Select using  and [OK]: *Enquiry call*.
  3. Enter the call number to which the call is to be transferred.
  4. Replace the handset: press .
- or
4. Conduct the enquiry call.
  5. Replace the handset: press .

Step  
by  
step

## Entering numbers in the telephone directory

During a call, you can enter the number of the other party in the telephone directory, or add his/her name and then call them from the telephone directory.

1. Press  for the menu.
2. Select using [**↓**] and [OK]: *Copy to dir.*
3. Enter name.
4. Select [] and [OK] to store.

## Rejecting calls

You receive a call or you are conducting a call and receive a second call. The call is signalled acoustically and displayed for all members of this MSN group.

Depending on the setting, either your own handset\* or that of the entire MSN group will be rejected. Setting up see page 32.

### Rejecting calls

You are conducting a call and receive a second call at the same MSN.


1. Press the softkey: [REJECT].

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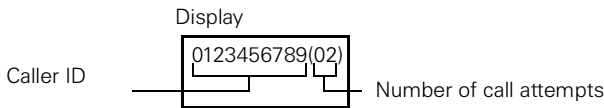
\* The call is only disconnected for this user, the other users in the call group remain connected.

**Step  
by  
step**


## Missed calls list





Call numbers (max. 32 digits) of calls which you do not answer ("Missed calls" list with number of call attempts) or which you answer ("Answered calls" list), are saved together with the date and time. If the numbers are included in the telephone directory of the handset, the caller's name is displayed. Calls made with the calling line identification restriction set are indicated as "unknown" in the "Missed calls" list and are not shown in the "Answered calls" list. New entries in the calls list are indicated by flashing of the status LED and by a text message in the display (note: this also applies to new sms messages\*). In the connected state the  sign also appears.

Each of the two lists can contain up to 20 entries. When the list is full, the oldest entry is deleted and the most recent entry is added at the beginning of the list. If you return the call, or if the calling party manages to reach you later on, the entry for this caller is removed from the list.





### Dialling from the Calls List using the Message key

On the Gigaset 4000 Comfort, new calls in the missed calls list are indicated by a message on the display and a flashing status LED. Pressing the message button  gives you direct access to new calls.

- 1.** Press .
- 2.** Select using [↓] and : (required call).
- 3.** Select using [↓] and [OK]: *Dial number.*
- or 3.** Press  (do not confirm the  key first)  
The call number is dialled.

### Dialling from the Caller List list via the menus

- 1.** Press  for selection menus.
- 2.** Select using [↓] and [OK]: *Base Settings* → *Missed calls.*
- or 2.** Select using [↓] and [OK]: *Base Settings* → *Accepted calls.*
- 3.** Select using [↓] and : (required call).
- 4.** Select using [↓] and [OK]: *Dial number.*

The call number is dialled. If a call is established in this way the entry is automatically deleted from the relevant *Caller List*.

It is possible to dial from the *Caller List* list before or after the  key is pressed (the menu item *Base Settings* is no longer used).

---

\* if available

Step  
by  
step

### Copying numbers from the Caller List list to the directory

1. Press for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Missed calls*.
- or 2. Select using [**↓**] and [OK]: *Base Settings* → *Accepted calls*.
3. Select using [**↓**] and []: (*required call*).
4. Select using [**↓**] and [OK]: *Copy to dir*.
5. Insert **name**.
6. Press [] and [OK] for saving.

### Checking and deleting numbers in a caller list, deleting a list or changing a number

1. Press for selection menus.

#### Displaying an entry:

2. Select using [**↓**] and [OK]: *Base Settings* → *Missed calls* (or → *Accepted calls*) → (desired number) [] → *Display entry* and confirm with [OK]. Together with the telephone number, the date and time of the call are also displayed.

#### Deleting an entry:

- or 2. Select using [**↓**] and [OK]: *Base Settings* → *Missed calls* (or → *Accepted calls*) → (desired number) [] → *Delete entry and confirm with [OK]*.

#### Deleting a list:

- or 2. Select using [**↓**] and [OK]: *Base Settings* → *Missed calls* (or → *Accepted calls*) → (call number) [] → *Delete list* and confirm with [OK]. Confirm security inquiry with [YES].

#### Changing a number:

- or 2. Select using [**↓**] and [OK]: *Base Settings* → *Missed calls* (or → *Accepted calls*) → (desired number) [] → *Change number* and confirm with [OK].
3. Change the number by using the softkeys and by entering digits directly.
4. Press [] → *Save entry* and confirm with [OK].

## Step by step

### Internal call forwarding

#### Configuring a forwarding destination

1. Press for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Int. call forw.* → *Forward. dest.* → (required internal subscriber).

Only one forwarding destination can be selected for internal call forwarding.

#### Activating/deactivating internal call forwarding

Internal call forwarding can only be activated if a forwarding destination extension has been configured.

1. Press for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Int. call forw.* → *Activate?* **or** *Deactivate?*

#### Defining the number of ring cycles

Ring delay is used to define the number of ring cycles to be completed before a call is forwarded. Between 0 to 9 ring cycles can be configured.

1. Press for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Int. call forw.* → *No. of rings.*
3. Enter the number of ring cycles and confirm with [OK].

### External call forwarding - CF

If call forwarding is configured, it is activated at the provider exchange. Both telephone lines assigned to your ISDN connection are free during call forwarding. You must pay the connection costs together with a surcharge. You can define the following conditions for call forwarding:

Immediately — On busy — On no reply

#### Configuring a new call forwarding destination

1. Press for selection menus.
  2. Select using [**↓**] and [OK]: *Base Settings* → *Ext. call forw.*
  3. Press [**≡**] to select: *New entry* → (MSN for which call forwarding should apply) → *Immediately, On busy* **or** *On no reply.*
  4. Enter the required destination call number and confirm with [**≡**].
  5. Select using [**↓**] and [OK]: *Save entry.*
  6. Confirm the prompt with [YES]: Call forwarding is activated.
- or**
6. Confirm the prompt with [NO]: Call forwarding is not activated.

#### Activating/deactivating external call forwarding

1. Press for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Ext. call forw.*
3. Select using [**↓**] and [**≡**]: (required call forwarding).
4. Select using [**↓**] and [OK]: *Activate?* **or** *Deactivate?*

Step  
by  
step

### Edit entry

1. Press for selection menus.
  2. Select using [↓] and [OK]: *Base Settings* → *Ext. call forw.*
  3. Select using [↓] and []: (*required call forwarding*).
  4. Select using [↓] and [OK]: *Edit entry*.
  5. Enter the required destination call number and confirm with [].
  6. Select using [↓] and [OK]: *Save entry*.
  7. Confirm the prompt with [YES]: Call forwarding is activated.
- or
7. Confirm the prompt with [NO]: Call forwarding is not activated.

### Deleting external call forwarding

1. Press for selection menus.
2. Select using [↓] and [OK]: *Base Settings* → *Ext. call forw.*
3. Select using [↓] and []: (*required call forwarding*).
4. Select using [↓] and [OK]: *Delete entry*.

### Switching internal/external call forwarding

Calls can be forwarded by the base station (internal) or by the provider (external). In the case of internal call forwarding, the second B- channel is used.

1. Press for selection menus.
2. Select using [↓] and [OK]: *Base Settings* → *Settings* → *ISDN settings* → *Int. call forw.* or *Ext. call forw.*

### Transferring incoming calls - CD (Call Deflection)

With CD you can transfer an incoming call to another call number while it is ringing. You do not need to answer the call, see also page 59.

### Transferring incoming external calls manually

You receive an external call.

1. Press for the menu.
2. Select using [↓] and [OK]: *Forward* → (*predefined forwarding destination*).

As well as using a predefined forwarding destination, you can also select a call number from the directory or enter a new number.

### Predefining the forwarding destination

You can define a forwarding destination for incoming calls. This destination call number is offered as a preset in the case of manual transfer.

1. Press for selection menus.
2. Select using [↓] and [OK]: *Base Settings* → *Settings* → *ISDN settings* → *Forward. dest.*
3. Enter the call number for the call forwarding destination and confirm with [].
4. Select using [↓] and [OK]: *Save entry*.



## Automatic external callback

### on busy – CCBS

If the called party is currently in a call you can initiate automatic callback. This will save you having to dial again and again.

### On no reply – CCNR


If the called party does not answer you can initiate automatic callback. As soon as the other party is free again you will receive the callback. This feature must be supported by the central office. The callback order will be automatically cancelled after about two hours (depending on the central office).

### Activating callback

1. To activate callback confirm the softkey [CALLBACK].
2. Wait for confirmation from central office.

### Accepting a callback

The handset rings with a specific ring tone and the callback number is shown on the display.



1. Press : the connection is established.

### Deleting a callback

The handset rings and the callback number is shown on the display.

1. Confirm [DELETE]. The callback is deleted.

### Checking or deleting the callback number

1. Press  for selection menus.
2. Select using [] and [OK]: *Base Settings* → *Status* → *Callback*.

The current callback number is shown on the display.

3. Confirm [BACK]. The callback remains active.
- or 3. Confirm [DELETE]. The callback is deleted.

## Call waiting - CW

Call waiting - activating/deactivating CW see page 31

### Accepting/rejecting external call waiting

You hear the call waiting tone during your call (internal or external).


- 1.** Confirm [ACCEPT]. You accept the waiting call and the first call is put on hold. Both parties are shown on the display, the current party is highlighted.
- or 1.** Confirm [REJECT]. Reject the waiting call.

### Ending an active call

- 1.** Press  for the menu.
- 2.** Confirm with [OK ]: *End*.

### Forwarding waiting calls internally

You can forward waiting calls internally without taking the call.


- 1.** Press  for the menu.
- 2.** Select using [ $\downarrow$ ], *Forward* and [OK ]: *(internal subscriber)*.  
Continue the active call.

**Info** Calls can only be forwarded to internal subscribers who have not been called already.

## Holding calls (Call Hold)


### Putting external subscribers on hold

You are engaged in an external call.

- 1.** Press [INT]: The external subscriber is put on hold.  
The waiting external subscriber hears music-on-hold. You can conduct an internal enquiry call.
- 2.** As soon as the internal subscriber ends the enquiry call, [BACK] appears on the display for 10 seconds. Pressing [BACK] reconnects you to the external caller. If this option is not used, the ring tone sounds again after 10 seconds.
- or 2.** To end the internal call, press  for the menu and select [End] followed by [OK ]. You are then returned to the external call and the internal subscriber hears the busy tone.

### Putting internal subscribers on hold

You are conducting an internal call.




- 1.** Press [CONSULT]: The internal subscriber is put on hold.  
You can set up an external enquiry call.
- 2.** To end the external call, press  for the menu and select [End] followed by [OK ]. You are then returned to the internal call and the external connection is closed.
- or 2.** Three-way calling: press [CONF]. This establishes the conference circuit.

## Step by step

### Calling line identification restriction (CLIR)



If you withhold your number from other parties, you can activate the calling line identification restriction. You can set up CLIR for just the next call or permanently. If set up permanently your call number will be suppressed both for outgoing calls (CLIR) and for incoming calls (COLR). This feature must be supported by your provider.

#### Temporary calling line identification restriction

1. Press  for selection menus.
2. Select using [] and [OK]: *Base Settings* → *Call preparat.* → *Temp.withhold.* (✓ in front of Temp.withhold = ON / no = OFF).
3. Confirm with [OK].
4.  is pressed.

**Info** After the call, this restriction is lifted. Your number will not be withheld from the next party called. This applies even if you select a number from the redial list.

#### Permanent calling line identification restriction

1. Press  for selection menus.
2. Select using [] and [OK]: *Base Settings* → *Settings* → *ISDN settings* → *Withhold no.* (✓ in front of Withhold no. = ON / no = OFF)
3. Confirm with [OK].

### Reserving a line

You cannot make external calls when both external lines are being used by other internal subscribers. In this case you can "reserve a line". When an external channel becomes available, the system calls you automatically and you can make external calls again.


#### Reserving a line

You attempt to set up an external connection but all external lines are busy.

1. Press [CALLBCK].

#### Accepting a free line

An external line becomes available. A recall is implemented.

1. Lift the handset: Press .
2. Set up the external connection as normal.

#### Deleting a line reservation

An external line becomes available. A recall is implemented.

1. Press [DELETE].  
The external line reservation is deleted.

## Set MSN for next call

Even if you have defined individual outgoing MSNs for outgoing calls on handsets you can select a different outgoing MSN for the next call (for example for separate billing)

1. Press for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Call preparat.* → *MSN next call.*
3. Select using [**↓**] and [OK] (desired MSN) and confirm.

**Info** Menu item *MSN next call* is marked. The next call is made with the selected MSN (see page 24).

## Seize specific MSNs

If this setting is activated, a list of available MSNs is displayed before each call is made when the talk key or speaker key is activated. Even if you have specified an individual outgoing MSN for the handset, before every call you can use it to select specifically an MSN as the outgoing MSN, e.g. for separate recording of costs.

However, further MSNs are only displayed for selection if these have been allocated to the handset as incoming MSNs (see page 29).

With SMSs you should ensure that the outgoing/incoming MSN corresponds to the number registered with your MSN centre.

1. is pressed for menus.
2. Press [**↓**] and [OK] to select: *Base Settings* → *Settings* → *Setup user* → *Setup device.*  
List of internal numbers entered is displayed.
3. Press [**↓**] and [OK] to select (required internal no.).
4. Press [**≡**] key, → *MSN next call* and [OK]  
(✓ before menu item = ON / none = OFF)
5. Press .

## Automatic call forwarding due to inaccessible handset

This service can only be used if the CD feature has been activated for your connection. Further information can be obtained from your network provider.

For instance, if your handset is outside the base station range, the battery has run out or the handset is switched off, this feature reroutes all calls to a defined external number.

Prerequisite: You have assigned an exclusive MSN to your handset, (see page 29). This MSN must not be assigned to any other device, even on the ISDN bus.

## Enter a number and activating/deactivating automatic call forwarding

1. Press for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Settings* → *ISDN settings* → *Auto.forwarding.*
3. Press [OK]: a list of all MSNs entered is displayed.
4. Select using [**↓**] and [OK] (desired MSN) and enter an external destination number.
5. Press [**≡**] and select *Save entry* followed by [OK]. Automatic call forwarding is now activated. (✓ in front of MSN = *Auto.forwarding* ON, no ✓ = *Auto.forwarding* OFF).

## Tracing switch



The tracing switch is used to identify nuisance or malicious callers. This feature can be requested from your provider only in justified cases.

### During or immediately after the call

You have received a malicious call from an anonymous caller. You can activate this function:

During the call or as soon as the caller has terminated the call.




Do not hang up.

1. Press  for selection menus.
2. Select using []: *Identify caller* and press [OK ].



The caller and his/her number are identified in the central office and recorded together with the date and time at which the call was made. A printout can be supplied by the network provider at a later point in time.

## Parking/continuing calls ("unpark")




You are conducting an external call which you would like to transfer to another telephone at your ISDN connection, for example.

1. Press  for the menu.
2. Select using [] and [OK ]: *Call park*.
3. Enter a parking number (one or two digits) and confirm with [OK ].
4. Press .

### Unparking a call before answering

1. Press  for selection menus.
2. Select using [] and [OK ]: *Base Settings* → *Call preparat.* → *Canc. call park*.
3. Enter the parking number assigned previously and confirm with [OK ].

### "Cancel CallPark" after answering a call

1. Press .
2. Press  for the menu.
3. Select using [] and [OK ]: *Canc. call park*.
4. Enter the parking number assigned previously and confirm with [OK ].

# Using several handsets

## Transferring telephone directory entries

If you have registered two or more Gigaset 4000 series Comfort handsets, you will be able to transfer the entire telephone directory, or individual entries, from one handset to another. Read the relevant operating instructions to do this.

### Sending an entry to another handset

You can transfer an entry to another Comfort handset to save having to make the same entries twice.

1. Use / to the directory/provider list.
2. Use to the required entry.
3. Use to open the menu.
4. Select using and [OK]: *Copy Entry*.
5. Select the internal user by keying in the two-digit number (receiving handset) and confirm with [OK].  
The send procedure will be initiated.

#### Send another entry:

6. Press [ YES ].
7. Select the required entry.
8. Confirm [Copy]. Initiate send procedure.

#### Conclude send procedure:

9. Press [ NO ]. You will hear a confirmation tone on the receiving handset if transfer was successful.

### Send directory or provider list

You can transmit the **entire** directory or provider list to another Comfort handset. This will save you making multiple entries.

1. Use / to the directory/provider list.
2. Use to the required entry.
3. Use to open the menu.
4. Select using and [OK]: *Copy List*
5. Select the internal user by keying in the two-digit number (receiving handset) and confirm. The send procedure will be initiated.

#### Info

You will hear a confirmation tone on the receiving handset if transfer was successful. Any existing entries will be retained.

Transfer will be interrupted if, the memory of the receiving handset is full.

The current transfer of an entry will be completed.

### Step by step

### Receive directory or provider list

Transfer of the directory or provider list is automatic.

The display at the end will show how many entries the phone has accepted. Entries with an identical number will not be overwritten.

This means the number of stored entries may differ from the number of transferred entries.

### Room monitor

Your handset will allow you to monitor sounds in the room where your baby is sleeping from another location.

The handset should be placed at least **1 to 2 meters** from the baby. The microphone must be directed towards the baby. The handset will automatically dial a **call number stored** by you when a certain sound level is reached (such as when the baby cries):

- an **internal call number**  
you will need another registered handset.
- an **external call number**  
you can store, for example, a mobile phone number or another call number from the fixed network on which you can be reached.

You will hear the sounds in the baby's room when you answer the call.

### Info

Be sure **not to store a barred call number** as the external call number.

If you use an external call number for the room-monitoring call, you should let the owner of the line know so that the monitoring call will be accepted.

Make sure an answering machine has **not** been activated there so that the monitoring call will be heard.

### Incoming calls on the handset with the room-monitoring function activated

Incoming calls on the handset with the room-monitoring function activated will be:

- signalled **without a ring tone**;
- calls will only be indicated on the display;
- the keypad and display will not be illuminated.






### Info

The activated room-monitoring function will considerably reduce the handset's operating time.


You can, however, also leave the handset in the charging unit when the room-monitoring function has been activated.

Step  
by  
step

## Storing an internal call number for the room monitor




1. Use  to open the menu.
2. Select using  and [OK]: *Add. Features.*
3. Select using [OK]: *Room Monitor.*
4. Select using  : *On* if the current setting is *Off*.
5. Use  to skip one line down.
6. Press [Change].

Open the entry field for call number.

If an external call number has been **pre-assigned** to the input field, you will first have to delete it with .

7. Press [INT]: key in the required internal call number as a two-digit number.
8. Press [Save]. Save the call number.

or
















7. Delete an existing **internal** call number with [Change] (security prompt)
8. Select the internal user by keying in the two-digit number (receiving handset) and confirm with [Save].
9. Use  to skip one line down.
10. Select using  : set the sound level sensitivity to "high" or "low."
11. Press [Save]. Save the setting.

The room-monitoring function is now active. It can be deactivated with the display key *Off*.



### Step by step

### Storing an external call number for the room monitor

1. Use  to open the menu.
2. Select using  and [OK ]: *Add. Features.*
3. Select using [OK ]: *Room Monitor.*
4. Select using  : *On* if the current setting is *Off*.
5. Use  to skip one line down.
6. Press [Change].
7. Open the input field for call number.  
If an external call number has been **pre-assigned** to the entry field, you will first have to delete it with .
8. Key in external call number.
9. Use  to open the menu.  
**or**
7. Use [>] to open the telephone directory.
8. Select using [>] and [OK ]: (*select external party*).
- or**
- Remove an existing **internal** call number with [Delete].
7. Press [Save].
8. Press [Change].  
Key in external call number (see also page 81 for use behind PABXs).
- or**
7.  open the telephone directory.
8. Select using  and [OK ]: (*select external party*).
9. Use  to open the menu.
10. Confirm with [OK ]: *Save Entry.*
12. Use  to skip one line down.
12. Select using  : set the sound level sensitivity to "high" or "low".
13. Press [Save]. Save the setting.  
The room-monitoring function can be switched off with the display key *Off*.

## Walk and Talk mode

This function makes communication between handsets (**Gigaset 4000 Comfort**) possible outside the range of the base. The handsets will not be accessible for incoming calls in walk and talk mode.

### Example:

You are on holiday with friends, and each has a handset with walk and talk mode activated. This will allow you to communicate with each other **free of charge**.

### Prerequisite for the handsets



Communication will only function between:

- handsets that are registered on **the same base**, with both handsets having selected, for instance, "Base 1"; see page 19;
- or ● handsets that have set "**Best Base**" as the base selection:  
**Important: All** "other people's" handsets that are also within range and have had walk and talk mode set with "Best Base" as the base selection will also be called;
- or ● handsets that are **not** registered:  
**Important: All** "other people's" handsets that are also within range, have had walk and talk mode set and are not registered on a base will also be called.

### Info

The maximum range between handsets operated in walk and talk mode is 300 metres. The operating time of the handsets will be considerably reduced.

### Activating walk and talk mode on the handset

1. Use  to open the menu.
2. Select using  and [OK]: *Add. Features*.
3. Select using [OK]: *Walk and Talk*

Activate walk and talk mode.

The walk and talk mode can be switched off with the display key *Off*.

### Using walk and talk mode

**Two handsets** are in **walk and talk mode**:


#### Calling handset:

Press [Call].

#### Called handset:

The call is signalled on the display with a message.

[SILENT ] deactivate ringer.

Press .


The two handsets are connected.

## Night service

Night service allows you to set up time-controlled call forwarding so that calls are redirected from the office to a private line after business hours, for instance. Just as in the case of call forwarding to an external destination, with night service the only MSNs that can be redirected are those the relevant handset has as the receive MSN. If night service has already been activated it will have to be deactivated in order the change the forwarding destination.

**Step  
by  
step**

## Setting an internal/external Night Service forwarding destination

1. Press  for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Night service* → (required MSN) → *Forward. dest.* → *External, Internal*


### Entering an external destination call number:

3. Enter the external destination call number for night service and press [**≡**].
4. Select with [OK]: *Save entry*.


### Entering an internal destination call number:

- or
3. Select using [**↓**] and [OK]: (required internal subscriber).

## Entering an automatic start/end time for night service

1. Press  for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Night service* → (required MSN) → *Start time* or *End time*.
3. Enter start time or end time and confirm with [**≡**].
4. Select using [**↓**] and [OK]: *Save entry*.

## Activating/deactivating all-day night service for Saturday/Sunday

1. Press  for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Night service* → (required MSN) → *Sat/Sun all day*.
3. Press [OK] key, night service is activated. (✓ before *Sat/Sun all day* = ON, none ✓ = OFF).

## Activating/deactivating night service

1. Press  for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Night service* → (required MSN) → *Select Activate?* or *Deactivate?*

# Charge and call duration display

## Call charge display

You can use call charge display if you have registered for this with your provider.


The units/total charges accumulated and the cost of the last call completed can (depending on programming) be checked using your Comfort handset. The total cost includes the charges incurred by the handset. If you do not receive tariff information from your provider the duration of the call will be displayed.

## Configuring determination of costs

Check with your provider as to whether the call costs will be transmitted as tariff units or as amounts. You can then set the accounting method accordingly as either *Units cent.off.* or *Costs cent.off.*

If you have selected *Costs cent.off.* but only units have been transmitted by the service provider, the device automatically switches to *Units cent.off.* when the call is completed.

### Setting up Costs cent.off.


1. Press  for the selection menus.
2. Select using [↓] and [OK]: *Costs*.
3. Select using [↓] and [OK]: *Type of calcul.*
4. Select using [↓] and [OK]: *Costs cent.off.*

If the item is marked with ✓ the call costs transmitted by the provider will be displayed. No further settings are needed.

### Info

If you have also entered a rate (see section , “Entering the price per unit”) the call costs will be multiplied by this rate. You can also use a rate if you want to bill for higher call costs, otherwise disable the rate (the cost display is to be increased by factor 2, for example).

### Setting up Units cent.off.

1. Press  for the selection menus.
2. Select using [↓] and [OK]: *Costs*.
3. Select using [↓] and [OK]: *Type of calcul.*
4. Select using [↓] and [OK]: *Units cent.off.*

If the item is marked, the units transmitted by the provider will be displayed or used to calculate the costs. If the default setting *No rate* is used, the units will be displayed.

**Step  
by  
step**

## Entering the price per unit

Before the charges for each call can be calculated, the currency and price per unit must be defined (the default setting is *No rate*). For determining the costs, *Units cent.off.* must be set (default).

1. Press for the selection menus.
2. Select using [↓] and [OK]: *Costs*.
3. Select using [↓] and [OK]: *Type of calcul.*
4. Select using [↓] and [OK]: *Rate --* (with decimal point) or *Rate —* (without decimal point).
5. Enter the basic price and confirm with [≡].
6. Select using [↓] and [OK]: *Save entry*.  
If you would like to set an additional currency:
7. Enter the currency and confirm [≡].
8. Select using [↓] and [OK]: *Save entry*.  
If *No rate* was already set a prompt is displayed.
9. Confirm the prompt for accounting method with [YES].

All accounts are reset and the option is highlighted.

## Displaying a cost overview

Depending on the setting, call or charge units are displayed for each internal subscriber, for each configured MSN, and for the system as a whole.

1. Press for the selection menus.
2. Select using [↓] and [OK]: *Costs*.
3. Select using [↓] and [OK]: *Cost overview*.

The accounts for each internal subscriber and for each configured MSN are displayed. The total amount is shown at the start of the list.

## Deleting the cost overview total

You are in the cost overview display:

1. Select using [↓] and [≡]: (*required cost overview*).
2. Select using [↓] and [OK]: *Delete amount*.

**Info**

Totalled and individual costs must be deleted separately. This means that if you delete an MSN total for example, the individual charges incurred remain stored in the handset and must be deleted individually.

## Display last call costs

The total costs and the costs for the last call made on this handset can be displayed when the "talk" key is pressed.

1. is pressed for the menu.
2. Press [↓] and [OK] to select: *Costs* → *Last charge*  
(✓ before menu item = ON / none = OFF)
3. Press .

# Short messages (SMS)

With Gigaset 4000 Comfort/Micro Comfort handsets you can send and receive short messages (SMS – Short Message Service). You will need an SMS service provider for this function.

Through your SMS service provider you can send SMS messages to any line in the fixed network and, depending on the service offering, also send them in mobile radio networks. Your SMS can be received as a short message on SMS-enabled devices (mobile phone, PC, another phone).

Incoming SMS messages are stored in the base. This means you can read, write or forward your messages on any handset to which the receiving call number has been assigned. If several handsets are being operated, only one of them can use the SMS function at any time.

## Prerequisites

- You may have to store, then activate, the call number of the SMS service centre in your Gigaset 4110isdn (see sections “Entering call numbers of SMS centres” and “Activating SMS transmit centre.”)

Ask your SMS service provider

- what the charges will be for sending and, possibly, for receiving SMS messages,
- which mobile radio carriers you can send SMS messages to and which mobile radio carriers you can receive SMS messages from,
- what functions your SMS service offers.

## Administering SMS service centres

SMS messages are exchanged via SMS centres. To send and receive SMS messages you will need the call number of your service provider’s SMS centre. You can enter up to 10 SMS centres in your Gigaset 4110isdn.

The meanings of the entries for sending and receiving SMS messages are described below.

### **Sending SMS messages**

The call number of the SMS centre via which you want to send SMS messages must have been entered in your Gigaset 4110isdn and activated, (see next section).

This call number will be used automatically for all SMS messages for SMS sending. This means you can only send SMS messages via that SMS centre.

### **Receiving SMS messages**

To receive SMS messages as text you must register with this SMS centre (see Registering/de-registering with the SMS centre, page 71).

### Step by step

## Entering, changing or deleting call numbers of SMS centres

You can enter up to 10 SMS centres.

Before making any entries or changes, please find out about any special features of the SMS service provider and what is being offered.

1. Press for selection menus.
  2. Select using and [OK]: *Base Settings* → *Settings* → *Service centres*. (The call number list will appear)
  3. Select using and : *<empty>* or existing call number.
  4. Select using and [OK]: *Edit entry*
  5. Enter the call number of another SMS centre and confirm.
  6. Select using and [OK]: *Save entry*.
- or
4. Select using and [OK]: *Delete entry*. The SMS centre has been deleted.

### Info

If you are operating your Gigaset 4110isdn on a PBX, please note that on many PBXs the call number has to have an access code\* (prefix) in front of it. In this case, ask the manufacturer whether or not your PBX requires a prefix. If you are unable to obtain the information, you can find out by experimenting (Sending SMS messages, see page 71) whether or not you need to prefix a code.

## Activating/deactivating the SMS transmit centre

The required SMS centre must be activated in order to send SMS messages. By doing this, you specify the particular SMS centre via which the SMS messages are sent. SMS messages can be received via all SMS centres that have been entered, provided you have previously made yourself known there as an SMS-enabled phone using the appropriate registration procedure (see next section).

1. Press for selection menus.
  2. Select using and [OK]: *Base Settings* → *Settings* → *Service centres*. (The call number list will appear)
  3. Select using and : *required call number*.
  4. Select using and [OK]: *Serv. centre on?* The display changes to *Send off?* SMS centre has been activated. The call number of the transmit centre is marked with ✓.
- or
4. Select using and [OK]: *Send off?* SMS centre has been deactivated.

### Info

You will not be able to send any SMS messages if you have not activated an SMS centre as the transmit centre, but once registered with a centre you will be able to receive SMS messages as text from any SMS centre that has been entered.

---

\* The digit (generally "0") used to access an outside line.

### Step by step

### Registering/de-registering with the SMS centre

To receive SMS messages using your Gigaset 4110isdn, you must first have your call number registered with the SMS service provider. You have to register with an SMS centre to be able to receive messages as text via this SMS centre. Registration normally takes place when you send an SMS message via this service provider. Your ISDN call number is registered as an SMS-enabled connection. For this, you must first enter and activate the SMS centre's call number (see previous section). You may need other information in order to register and de-register. This can be obtained from the relevant service provider.

### Info

Please note that the call number (MSN) which is registered is the one assigned as the transmit MSN to the handset you used to send the SMS message. If you also want to send and receive SMS messages over other handsets using different transmit MSNs, you will need to have these call numbers registered, too.




### Writing, saving and sending SMS messages

An SMS message can be up to 160 characters in length. SMS messages will only be saved automatically if there is an interruption in sending. If you have written an important SMS message and want to save it, you must do so **before sending it**.



**Step  
by  
step**

## Producing an SMS message

1. Press  for selection menus.
2. Select using [] and [OK]: *Text Message*
3. Select using [] and [OK]: *Write Message*
4. Key in your short message.

Hi Peter, I can't come to training today as I've got a dental appointment.>|<



**Info**

### Input functions



Controlling the cursor in the text field.  
Characters can be inserted afterwards to the right of the cursor.




**Delete** characters to the left of the cursor.




Enter a single **space**.



Change over once between **upper/lower case** after a space.

5. Use [] to open the menu.

## Saving an SMS message (without sending it)

1. Produce an SMS message as described on page 72.
2. Select using  and [OK]: *Save Text*  
The SMS message will be saved in the outbox list and can be sent later.

Step  
by  
step

## Sending an SMS message (without saving it)

1. Produce an SMS message as described on page 72.

2. Select using [OK]: *Send Text*

3. Enter the recipient's call number (destination number). The call number must always include the local area code (even within the same local network). "00" must be entered for call numbers with an international prefix. You cannot enter "+".

Examples:


089 12345678 - national call number in the German fixed network

0171 1234567 - call number in the mobile radio network

or 3. Use [☰] to open the menu and select using [↓] and [OK]: *No.from dir.*  
Select the required entry and confirm with [OK]. The call number will be transferred.

If you have stored this call number in your directory with a prefix code, this code must be deleted for sending an SMS message.

4. Use [☰] to open the menu.

5. Select using [OK]: *Send* and press .


The SMS message will be transmitted; the SMS centre will automatically insert your line number as the sender's address.

## Info

- If you are called or receive an SMS message while writing or sending one yourself, the SMS message you were processing will be saved in the outbox list. You can answer the call and resume writing or send your SMS message later.
- You should bear in mind that some service providers charge for setting up a connection to the SMS centre.
- SMS messages that cannot be sent after several attempts will be saved to the inbox list with an error status attached (see error code list on page 78).
- All settings and the saved SMS messages will be retained after a power failure.

## Interrogating available memory space

You can interrogate the available space in your SMS memory (in %).

1. Press  for selection menus.

2. Select using [↓] and [OK]: *Text Message*

3. Select using [↓] and [OK]: *Available memory* The free memory space will be displayed as a percentage.

**Step  
by  
step**

## Inbox list



All received SMS messages and any that have not been successfully sent will be stored in the inbox list, with unsuccessfully sent messages being provided with an error status.

### Reading and deleting received SMS messages


New SMS messages are signalled on Gigaset 4000 Comfort/Micro Comfort handsets with the same receive MSN by means of the message *You have new messages* in the display and by flashing of the status LED.

The date and time (as transmitted from the SMS centre) will be indicated for each received SMS message. The SMS messages are stored in the order of their arrival. New SMS messages appear before old SMS messages.

#### If there are no missed calls (call list)

1. Press  for *New messages*. The inbox list will be opened directly and the last received SMS message will be displayed.
2. Select using [**↓**] and []: (*required SMS*).

#### If there are new entries in the call list

1. Press  for *New messages*.
2. Select using [**↓**] and [OK]: *Textmessage(SMS)*.

#### Reading SMS messages

3. Select using [**↓**] and [OK]: *Read textmessage*. You can display the continuation of the SMS message with .

A new SMS message will be given the status "Old SMS message" when you have read it.


#### Deleting SMS messages

- or
3. Select using [**↓**] and [OK]: *Delete textmess..*  
Confirm security inquiry with [YES].  
When you have deleted a message, the next or previous SMS message will be displayed (if there is one to show).

#### Deleting all received SMS messages



- or
3. Select using [**↓**] and [OK]: *Delete list*.  
Confirm security inquiry with [YES].

**Info**

- You can also open the inbox list by selecting , *Text Message* [OK] and [**↓**] *Inbox* [OK].
- If the receive memory is full you will receive the advisory: *Text list full! Please delete entries*. Delete no longer required SMS messages from the inbox and outbox list one by one. You can store a total of at least 25 but no more than 99 SMS messages in both lists.

Step  
by  
step

## Display or dial the call number from the SMS message or save it to the directory

1. Press  for selection menus.
2. Select using [OK]: *Text Message*
3. Select using [↓] and [OK]: *Incoming*
4. Select using [↓] and : *(required SMS)*.

**Display receive MSN (who is the SMS message for?)**

5. Select using [↓] and [OK]: *Display entry*.  
The receive MSN will be displayed.

**Display the call number of the sender of the SMS message (who is the SMS message from?)**

6. Select using [↓] and [OK]: *Display entry*. The call number will be displayed.

**Dial the call number of the SMS message**

- or
  5. Select using [↓] and [OK]: *Dial number*.




**Store the call number of the SMS message in the directory**

- or
  5. Select using [↓] and [OK]: *Copy to dir*.


**Step  
by  
step**

## Options when reading an SMS message


You can use the following functions via the menu when reading an SMS message.

1. Press  for selection menus.
2. Select using [OK]: *Text Message*
3. Select using [ $\downarrow$ ] and [OK]: *Inbox 1/2* (e.g. 1 new, 2 old entries)
4. Select using [ $\downarrow$ ] and : *(required SMS)*.
5. Select using [ $\downarrow$ ] and [OK]: *Read textmessage*
6. Use  to open the menu.


### Write a new text as the reply

7. Select using : *Write Message*. The entry field will be opened. You can write an SMS message then send or save it (see page 71).


### Answer with "Yes" or "No"

- or
7. Select using : *Answer: Yes.* or *Answer: No.* "Yes" or "No" is attached to the received SMS message. You can then send the message or save it to the outbox list (see page 71).


### Change a read SMS message and reply

- or
7. Select using : *Use Text*. You can change or add to the received SMS message then send it or save it to the outbox list (see page 71).

### Forward an SMS message

- or
7. Select using : *Forward Text* The call number field will be opened. Enter the call number, together with the local area code, to which the message is to be forwarded.

### Transfer the SMS call number to the directory

- or
7. Select using : *Copy to Directory*.

## Outbox list

In the outbox list, all SMS messages are displayed:



- which you have selectively saved (see page 71),
- which were automatically saved by the system because you were interrupted while writing a message (when a call arrived, for instance)

These SMS messages remain saved until you delete them.

**Info**

- Any messages sent without being saved have been deleted.
- You can store a total of at least 25 but no more than 99 SMS messages in the inbox and outbox list.

Step  
by  
step**Reading and deleting stored SMS messages**

1. Press  for selection menus.
2. Select using [OK]: *Text Message*
3. Select using [↓] and [OK]: *Outbox 3* (e.g. 3 entries)
4. Select using [↓] and : *(required SMS)*.

**Read a stored SMS message**

5. Select using [↓] and [OK]: *Read textmessage* You can display the continuation of the SMS message with [↓].



**Delete a stored SMS message**

- or 5. Select using [↓] and [OK]: *Delete textmess..* When you have deleted a message, the next or previous SMS message will be displayed (if there is one to show).

**Delete all stored SMS messages**

- or 5. Select using [↓] and [OK]: *Delete list*.  
Confirm security inquiry with [YES].

**Display or dial the call number from the stored SMS message or save it to the directory**

1. Press  for selection menus.
2. Select using [OK]: *Text Message*
3. Select using [↓] and [OK]: *Outbox 3* (e.g. 3 entries)
4. Select using [↓] and : *(required SMS)*.

**Display the call number of the stored SMS**

5. Select using [↓] and [OK]: *Display entry*. The call number will be displayed.

**Dial the call number of the stored SMS**

- or 5. Select using [↓] and [OK]: *Dial number*.




**Save the call number of the stored SMS to the directory**

- or 5. Select using [↓] and [OK]: *Copy to dir..*

**Step  
by  
step**

## Options when reading a stored SMS message

You can use the following functions via the menu when reading a stored SMS message.

1. Press  for selection menus.
2. Select using [OK]: *Text Message*
3. Select using [ $\downarrow$ ] and [OK]: *Outbox 3* (e.g. 3 entries)
4. Select using [ $\downarrow$ ] and : *(required SMS)*.
5. Select using [ $\downarrow$ ] and [OK]: *Read textmessage*
6. Use  to open the menu.

### Write a new text as a reply

7. Select using [OK]: *Write Message*. You can write a new SMS message then send it (see page 71).

### Send a stored SMS message

- or
7. Select using [ $\downarrow$ ] and [OK]: *Use Text*. You can change or add to the stored SMS message then send it (see page 71).

## Other SMS features

Find out what SMS features your carrier offers and what call numbers and codes you have to use.

Your provider can give you details of the current offering for SMS services.

## SMS on PBXs

If your Gigaset 4110isdn is connected to an ISDN PBX, please refer to your PBX's operating instructions for information about SMS functionality (see "Entering, changing or deleting call numbers of SMS centres" on page 70).

## Errors while an SMS message is being transmitted

An interruption in transmission results in charges.

The following **error codes** may be displayed when this occurs:

Error code	Description
E0	Permanent call number suppression activated (CLIR).
FE	Error while message was being transmitted
FD	Error while connection was being set up to the Service centre
C3	Incorrect call number

E0: messages cannot be sent if the transmission of your call number has not been enabled.

FD: Sending and receiving SMS messages will not be possible if the number of the SMS centre is missing or if it has been incorrectly stored. The SMS centre's incorrect number will also appear in your missed calls list; please delete the number there. Check whether the SMS centre's number has been stored correctly (see page 70).







**Info**

SMS messages with special contents such as images or sound are not supported on your Gigaset 4110isdn.

# Security settings


## Change system PIN

With the system PIN (Personal Identification Number) you can make the following settings in the base station to protect your equipment from unauthorised access:

-  → *Costs*
-  → *Base Settings* → *Ext. call forw.*
-  → *Base Settings* → *Int. call forw.*
-  → *Base Settings* → *Night service*
-  → *Base Settings* → *Settings*
-  → *Base Settings* → *Installation*

The system PIN is only effective if it is  $\neq 0$ .

Your Gigaset 4110/4115isdn comes supplied with the PIN number 0000.

1. Press  for selection menus.
2. Select using [ $\downarrow$ ] and [OK]: *Base Settings* → *Settings* → *Security*.
3. Select using [ $\downarrow$ ] and [OK]: *Change PIN*.
4. Enter the new system PIN (max. 8 digits) and confirm with [OK].
5. Re-enter the new system PIN and confirm with [OK].





It is important that you remember your new system PIN. If you forget it, the device will have to be opened up. In this case contact the Siemens hotline.

## Specifying the class-of-service

You can set different classes-of-service for all registered devices:

1. **Unrestricted**  
(factory setting)  
All devices can accept incoming calls and be used to make external/internal calls.
2. **Incoming only**  
The devices can only accept incoming calls. External calling is not possible. It is possible to make internal calls. Emergency numbers can be dialled.
3. **Internal only**  
The devices can only accept and be used to make internal calls. Emergency numbers can be dialled.

1. Press  for selection menus.
2. Select using [ $\downarrow$ ] and [OK]: *Base Settings* → *Settings* → *Security*.
3. Select using [ $\downarrow$ ] and [OK]: *Authorisation* → *(required internal user)* →  → *(required class-of-service, ✓ in front of the menu item = ON / without = OFF)*.





## Step by step


### Emergency numbers

Two or three emergency numbers (country-specific) have been entered in the base station. Five additional emergency numbers can be entered on the following list items.

#### Set up new emergency number

1. Press  for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Settings* → *Security*.
3. Select using [**↓**] and [OK]: *Emergency nos.* → *<no entry>*.
4. [] confirm.
5. Select using [**↓**] and [OK]: *Change number*.

You can also delete or display an emergency number in this additional menu.


6. Enter a new emergency number (max. 32 digits) and [] confirm.
7. Select using [**↓**] and [OK]: *Save entry*.

In this additional menu you can also transfer a number from the telephone book or a provider's number (if supported) as an emergency number.

**Info** If your Gigaset 4110/4115 isdn is connected to a PBX, you will need to prefix the emergency number with the applicable access code ("0" for example). This also applies to the permanently entered numbers "110 and "112", which you will have to replace with, for instance, "0110" and "0112".

#### Dialling the emergency number

**Info** The emergency number can also be dialled on a handset with a restricted class-of-service (such as *Internal only*).

1. Press any key **or** .
2. Confirm [EMERG.].
3. Enter emergency number.

# Operation using a telephone system

If you want to use your Gigaset 4110isdn behind a PBX (private telephone system), please pay attention to the following device parameters that are described in detail:

- Prefix
- Call transfer
- Dialling options.


Please refer to page 50 for details of how to operate the **External consultation** and **Toggleing** functions.

## Prefixes (access codes)

If your telephone is connected to a PABX, you may initially have to enter a prefix (access code) for external calls. Please refer to the operating instructions for your PABX. The prefix can consist of one to four digits.

In the case of incoming calls, the prefix is automatically added to the caller's number in the display, in the missed calls list and thus also in the telephone directory (if copied there from the missed calls list). The number stored can be dialled directly from the missed calls list (see page 52).

### Entering a prefix (access code)


1. Press  for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Settings* → *System settings* → *Access code*.
3. Confirm with [**≡**] and enter the desired code.
4. Press [**→** **←** **↶**] to select: delete, change or insert.
3. Confirm with [**≡**] and select *Save entry* followed by [OK].

**Info** When dialling manually or entering telephone directory, emergency or DSS numbers, or the number for external room monitoring, the prefix must be specified explicitly.

## Call transfer - ECT (Explicit Call Transfer)

With some ISDN PBXs, when a call is in progress and an enquiry call is initiated, your two call partners will not be connected to each other when you press the "replace handset" key.


### Step 1: Activate ECT

1. Press  for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Settings* → *ISDN settings* → *Transfer(ECT)*.
3. Use [OK] to set (✓ in front of the menu item = ON / without = OFF)

## Step by Step


### Step 3: External enquiry call

During an external call you want to call another "external" party; see "Setting external/internal enquiry call" on page 32 for setting details:

1. Press  for selection menus.
2. Select using [**↓**] and [OK]: *Enquiry call*.
3. Enter the call number for the second party.

### End external enquiry call

You are conducting an enquiry call and wish to terminate it:



1. Press  for menu.
2. Select using [**↓**] and [OK]: *End*.

### Dialling options

With the KEYPAD function, you can control certain service elements by entering sequences of characters and numbers.

The KEYPAD function should be set when connecting your Gigaset 4110isdn to an ISDN telephone system or a switching centre (e.g. Centrex) which is controlled by the KEYPAD protocol. In this case, the numbers/characters *0-9, \*, #* are sent as keypad information elements. For the information and codes you can send, please contact your service provider.

If your Gigaset 4110isdn is linked to a Centrex system, you can use the following features.

<b>Calling Name Identification (CNI)</b>	In the case of incoming calls from other CENTREX subscribers, the number and name of the caller is shown on the display.
<b>Message Waiting Indication (MWI)</b>	On comfort handsets, the display key  is offered if there are new callers in the caller list. Calling up the caller list results in deletion of the display key  .
<b>CENTREX call</b>	The CENTREX call is signalled acoustically as an internal call.

## Setting options

You have the option of switching between *Standard dial* (factory default) *Auto keypad* and *Dial \* and #* settings.

### Standard dial

Having switched on, *Standard dial \* and #* are not transmitted when dialling and when \* and # are entered, the unit does not switch to keypad.

### Auto keypad


When \* or # are input, this setting automatically switches signalling to keypad when dialling. This automatic switching is required for commands to the switching centre or telephone system.

### Dial \* and #


When *Dial \* and #* are activated, the characters \* and # are sent as commands to the switching centre or telephone system when dialling.

Regardless of the above setting options, the system is automatically switched to tone dialling (DTMF) when dialling is **complete**, e.g. for telecontrol of an answering machine.


## Activating standard dialling (ISDN)

1.  is pressed for menus.
2. Press [↓] and [OK] to select: *Base Settings* → *Settings* → *System settings* → *Spec. function* → *Dial properties* → *Standard dial* (✓ before menu item = ON / none = OFF).

## Activating automatic keypad switching

1.  is pressed for menus.
2. Press [↓] and [OK] to select: *Base Settings* → *Settings* → *System settings* → *Spec. function* → *Dial properties* → *Auto keypad* (✓ before menu item = ON / none = OFF).

## Activating \* and # dialling


1.  is pressed for menus.
2. Press [↓] and [OK] to select: *Base Settings* → *Settings* → *System settings* → *Spec. function* → *Dial properties* → *Dial \* and #* (✓ before menu item = ON / none = OFF).

## Activating/De-activating the keypad during a call

In addition to the long-term settings described above, you also have the option of switching temporarily to keypad.

The setting only applies to an ongoing external call and is automatically de-activated when the call is finished.


**Requirement:** You are currently making a call.

1.  is pressed for menus.
  2. Press [↓] and [OK] to select: *Keypad on?*
  3. Enter keypad character sequence (code).
- or
2. Press [↓] and [OK] to select: *Keypad off?*

## Step by Step

### Activate the keypad for the next call only

All dialling characters (0-9, \*, #) are sent as a keypad character sequence when the next connection is made (dialling and call). When connected, the keypad is retained and the unit does not automatically switch to tone dialling (DTMF).

1.  is pressed for menus.
2. Press [↓] and [OK] to select: *Base Settings* → *Call preparat.* → *Temp. keypad* (✓ before menu item = ON / none = OFF).

### Special requirements

If you encounter problems when connecting your Gigaset 4110/isdn behind your ISDN PBX, such as:

- handset does not ring to signal incoming calls, or
- a fault message is displayed

you should consider the following essential requirements:

#### First requirement:

Each Gigaset terminal (handset) requires a **separate send MSN**.

#### 1st step

Store 1 internal MSN of your PBX for each Gigaset terminal.

1.  is pressed for menus.
2. Press [↓] and [OK] to select: *Base Settings* → *Settings* → *ISDN settings* → *Set up MSN* .

#### 2nd step

Assign each Gigaset terminal one of the previously stored MSNs as the **send MSN** (such as "Internal 0" to "Internal 2").

1.  is pressed for menus.
2. Press [↓] and [OK] to select: *Base Settings* → *Settings* → *System settings* → *Setup user* → *Setup device* → Press [≡] to open the additional menu → *Send MSN*.

#### Second requirement:

It is not possible for several MSNs of the Gigaset to be called **simultaneously** from your PBX.

To ensure that the registered handsets can **ring at the same time** when a call arrives, first make the following setting:

#### 3rd step

Store another internal MSN of your PBX in your Gigaset 4110isdn. This internal MSN of your PBX serves as a call group address for Gigaset terminals that can be combined in step 2.

1.  is pressed for menus.
2. Press [↓] and [OK] to select: *Base Settings* → *Settings* → *ISDN settings* → *Set up MSN* .

### Step by step

#### 4th step

Now additionally assign the Gigaset terminals (e.g. "Internal 0" and "Internal 1") the previously stored fourth MSN as the **receive** MSN.

1.



is pressed for menus.

2.

Press [↓] and [OK] to select: *Base Settings* → *Settings* → *System settings* → *Setup user* → *Setup device* → Press [≡] to open the additional menu → *Receive MSN*.

#### 5th step


Now store this *Receive MSN* in your ISDN PBX as the internal MSN. Calls for this internal MSN will then be signalled simultaneously for example at "Internal 0" or "Internal 1." Proceed as described in steps 3 to 5 to form additional call groups.

# Operation with Gigaset repeater

You can use the Gigaset repeater to increase the range of your handsets. Your Gigaset 4110isdn is prepared for use of a Gigaset repeater (accessory).

### Activate/deactivate repeater capability

Use this function to activate or deactivate repeater capability.

1. Press  for selection menus.
2. Select using [**↓**] and [OK]: *Base Settings* → *Settings* → *System settings* → *Spec. function* → *Repeater*.
3. Set with [OK] (✓ in front of the menu item = ON / without = OFF)
4. Press the [NEXT] key to accept, the handset will briefly stop operating.

### Registering a repeater

1. The Gigaset repeater is switched off (unplugged from mains).
  2. Press the registration key on the base station.
- Info** Make sure there are no other base stations near the Gigaset repeater in the registration state when doing this.
3. Connect the Gigaset repeater to the mains.
  4. An LED on the Gigaset repeater will flash continuously. This diode will soon be permanently lit, indicating completion of the registration process and the ready-to-operate condition.

More detailed information can be found in the Gigaset repeater's operating instructions.

# Appendix

## Maintenance

Simply wipe the base station and handset with a **damp cloth** or an antistatic wipe. **Never** use a dry cloth as this can cause static discharge.

### Contact with liquid




If the handset should come into contact with liquid, **on no account switch the device on. Remove all batteries immediately.**

Allow the liquid to drip out of the device, and then dab all parts of the device dry.



Keep the handset with the batteries removed in a warm, dry place for at least 72 hours. In many cases, you will then be able to use it again.

## Questions and answers

If any questions occur to you while you are using your device, we are available 24 hours a day at **www.my-siemens.com/customercare**. You will find the most frequently asked questions and answers below.

Question	Possible cause	Possible solution
The handset does not ring after the ISDN call number (MSN) has been set up.	The local area code was saved with the MSN.	Save the MSN <b>without</b> the local area code (page 27)
The handset does not ring.	Ring tone has been deactivated.	Press activate ring tone  .
	Night service active	Deactivate night service (page 66)
There is no display.	The handset is not switched on.	Press the replace handset key  for <b>1 second</b> .
	The batteries need charging.	Charge or replace the batteries (page 14).
Nothing happens when I press the keys.	The keypad lock is activated.	Press  for <b>1 second</b> .
There's no radio link to the base – <b>looking for base</b> flashes, for example.	The handset is outside the range of the base.	Move the handset and base closer together.
	The handset has not been registered.	Register the handset (page 18).
	The base is not switched on.	Check the plug-in power supply on the base (page 12).



Question	Possible cause	Possible solution
There is no display of units/costs.	No charge rate information supplied.	Apply to the phone company to have metering pulses transmitted.
There is no display of call costs.	Cost per unit = 0.	Set cost per unit (page 67).
I can't hear anything.	The  key has been pressed – the microphone has been “muted.”	Press  to resume your conversation.
The caller's number is not displayed.	Call number transmission has been barred.	The caller must apply to his/her provider to enable transmission of the number.
No numbers can be dialed.	The long-distance code has changed.  The phone has been locked.	Check and correct the long-distance code (page 33).  Check the status displays, unlock the phone if necessary (page 15).
<b>No calls</b> are being received.	“Permanent” call forwarding has been activated.  The MSN has not been assigned to the internal user.  The “internal” class-of-service has been set.	Deactivate “permanent” call forwarding (page 55).  Specify the receive MSN (page 27).  Change the class-of-service (page 79).
The <b>forwarding conditions</b> are not displayed for <b>call forwarding</b> .	Internal forwarding has been activated.	Activate “external” forwarding (page 54). Apply to your provider to enable this.
The phone also rings when there are <b>fax/PC calls</b> .	The call number is in the base phone's call number list.	Delete the relevant call number (MSN) from the list (page 24).
<b>No call charges</b> are displayed.	Call charge display has not been activated or this feature has not been enabled by your provider.	Activate call charge display (page 67).  Apply to your provider to enable the “Charge transmission” feature.
<b>For PABXs:</b> There is no connection or a wrong connection after dialling a call number.	The access code has not been entered or has been entered incorrectly.	Check and correct the access code (page 82).

Question	Possible cause	Possible solution
<b>The handset</b> does not ring as it was set to.	Other ringer melody setting for MSN.	Change the ringer melody setting (page 33).
Some of the <b>ISDN functions</b> do not work as indicated.	Feature not enabled?	Contact your provider for information.
Another <b>phone</b> on the So bus <b>does not ring</b> .	The same MSN number was assigned for the phones. <b>Internal</b> forwarding has additionally been activated for one of the phones.	Deactivate internal forwarding or set external call forwarding (page 55).
Caller receives ringing despite MSN being busy.	MSN has been stored in devices additionally operated on the ISDN line.	Where applicable, delete the call number for which do-not-disturb is to apply while a call is in progress from the list of call numbers of each additional device.
Handset does not receive SMS as text	You are not registered with both SMS centres	Register with SMS centres (page 71).

## Guarantee

### Scope

- This equipment guarantee applies to end users (“customers”). This guarantee does not in any way affect the customer’s statutory rights.
- The guarantee applies to the supplied devices and all their components but not to their installation or configuration or to the services provided by the dealer. Manuals and any software supplied on a separate data medium are excluded from the guarantee. This guarantee does not apply to decorative covers or any other personalised parts or software not included in the scope of supply. The guarantee also does not apply to decorative top or bottom shells for special editions.
- The guarantee provides for devices or components that, despite proper care and use, have demonstrably developed defects due to faulty workmanship and/or faulty materials to be replaced or repaired at our discretion free of charge. The guarantee does not cover normal wear and tear. Alternatively, we reserve the right to replace the defective device with a successor model or reimburse the original purchase price on return of the defective device. Our decision is final. Any legal claims are excluded.
- Claims under the guarantee cannot be made if
  - the defect or damage was caused by improper care or use. Improper care or use includes the following:
    - Opening the device (this is classed as third-party intervention)
    - Manipulating components on the printed circuit board
    - Manipulating the software
    - 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.).
  - Repairs or other work done by persons not authorised by us.
  - Devices fitted with accessories not authorised by Siemens.
- Any further claims due to damage are excluded, such as damage arising outside the device, provided this was not due to gross negligence and/or intent on our part.
- Claims under the guarantee must be made as soon as the defect is noticed.
- A till receipt showing the date of purchase must be presented as proof. Each claim under the guarantee is accepted with the express reservation that subsequent investigations confirm the validity of the claim.
- Any devices or components that are replaced become our property.
- The costs of materials and labour will be borne by us, but not the costs of transport, postage or freight.
- We are entitled, at our discretion, to make technical changes (such as firmware updates) beyond repair or replacement in order to upgrade the device to the latest state of the art. There is no additional charge to the customer for this work. Our decision is final. Any legal claims are excluded.
- The guarantee is valid in the country of purchase. It applies only if the device is operated in the relevant geographical area in accordance with the information on the packaging and in the operating instructions.

- Any further claims are excluded. Siemens is not liable in any circumstances for downtime, loss of profits, loss of data or loss of any other information. The customer alone is responsible for safeguarding such data and information.
- Changes to this guarantee require prior approval by Siemens in writing.

### Guarantee period

- The guarantee applies in countries in the EU from 1 January 2002 for a period of 24 months.
- In all other countries the guarantee period shall be the relevant minimum statutory guarantee period, but no longer than 24 months.
- The guarantee period starts on the day of purchase by the customer.
- A successful claim under the guarantee does not extend the guarantee period.
- Work under the guarantee is handled by our Customer Care Centres.

The guarantor is Siemens Aktiengesellschaft Deutschland, Schlavenhorst 88, D-46395 Bocholt.

#### Info

To redeem the guarantee please contact your local Customer Care Center (see page 92).

## Service

You can get assistance easily when you have technical questions or questions about how to use your device by using our online support service on the internet at:

**[www.my-siemens.com/customer-care](http://www.my-siemens.com/customer-care)**

or by referring to the section entitled **Questions and answers** in this manual (page 87).

If the device needs to be repaired, please contact one of our service centers:

Abu Dhabi.....	0 26 42 38 00	Mauritius.....	2 11 62 13
Australia.....	18 00 62 24 14	Morocco.....	22 66 92 32
Argentina.....	0 80 08 88 98 78	Netherlands.....	0 90 03 33 31 02
Austria.....	05 17 07 50 04	Norway.....	22 70 84 00
Bahrain.....	40 42 34	Oman.....	79 10 12
Bangladesh.....	0 17 52 74 47	Pakistan.....	02 15 67 35 65
Belgium.....	0 78 15 22 21	Philippines.....	28 14 98 88
Brunei.....	02 43 08 01	Poland.....	08 00 22 09 90
Bulgaria.....	02 73 94 88	Portugal.....	8 00 85 32 04
Cambodia.....	12 80 05 00	Qatar.....	00 97 44 69 67 00
Canada.....	1 88 87 77 02 11	Russia.....	09 57 37 29 51
China.....	0 21 50 31 81 49	Saudi Arabia.....	0 26 51 50 94
Croatia.....	0 16 10 53 81	Sharjah.....	0 65 33 66 42
Czech Republic.....	02 33 03 27 27	Singapore.....	8 45 48 18
Denmark.....	35 25 86 00	Slovak Republic.....	07 59 68 22 66
Dubai.....	0 43 55 99 88	Slovenia.....	0 14 74 63 36
Egypt.....	0 13 31 31 44	South Africa.....	08 60 10 11 57
Estonia.....	6 30 47 35	Spain.....	9 02 11 50 61
Finland.....	09 22 94 37 00	Sweden.....	0 87 50 99 11
France.....	01 56 38 42 00	Switzerland.....	0 12 12 00 90
Germany.....	0 18 05 33 32 22	Taiwan.....	02 25 18 65 04
Greece.....	0 16 86 43 89	Thailand.....	0 27 15 51 00
Hong Kong.....	22 58 36 36	Tunisia.....	01 86 19 02
Hungary.....	06 14 71 24 44	Turkey.....	0 21 65 71 89 89
Iceland.....	5 11 30 00	United Kingdom.....	0 87 05 33 44 11
India.....	01 16 92 39 88	USA.....	1 800 777 0211
Indonesia.....	02 14 61 50 81	Vietnam.....	45 63 22 44
Ireland.....	18 50 77 72 77	Zimbabwe.....	04 36 94 24
Italy.....	02 66 76 44 00		
Ivory Coast.....	80 00 03 33		
Jordan.....	0 79 55 96 63		
Kuwait.....	4 81 87 49		
Latvia.....	7 50 11 14		
Lebanon.....	01 44 30 43		
Libya.....	02 13 35 02 31		
Lithuania.....	2 39 77 79		
Luxembourg.....	43 84 33 99		
Malaysia.....	03 79 52 51 84		
Malta.....	00 35 32 14 94 06 32		

Your Gigaset is intended for operation in your country, as depicted on the underside of the base station. Country-specific features have been taken into account.

The conformity of the device with the essential requirements of the R&TTE directive is confirmed by the CE symbol.

## Excerpt 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 registration number “Q810820M” in compliance with ANNEX V of R&TTE Directive 99/05/EC. 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. For an original copy of the signed Declaration of Conformity (DoC) please contact the Siemens hot-line.

**CE 0682**

## Technical data

### Recommended batteries:

Nickel-Cadmium (NiCd)	Nickel-Metal Hydride (NiMH)
Sanyo N-3U (700 mAh)	Saft RH 6 NiMH 1300 (1300 mAh)
Mobile Power 700 (700 mAh)	Panasonic HHR-110 AA (1100 mAh)
Panasonic 600 DT (600 mAh)	Sanyo HR-3U (1600 mAh)
Emmerich 700 (700 mAh)	GP GP130 AAHC (1300 mAh)
	Varta Phone Power (1300 mAh)
	Emmerich 1300 (1300 mAh)

### Handset operating/charging times:

Capacity (mAh)	Operating time (hours)	Talk time (hours)	Charging time (hours)
700	up to 180	over 10	about 5.5
1200	up to 300	over 17	about 11
1600	up to 400	over 23	about 14

**Info**

We recommend allowing the full, uninterrupted charging time (see table) when charging for the first time – regardless of what the charging status display shows.

The batteries' charge capacity will be less after a few years. This is for technical reasons.

### Power consumption:

- In standby state (without charging), approx. 2.6 watt.
- In standby state while charging, approx. 5.7 watt.
- In the talk state (without charging), approx. 3.0 watt.

## General technical data

Feature	Status
DECT standard	supported
GAP standard	supported
Number of channels	60 duplex channels
Radio frequency range	1880 MHz to 1900 MHz
Duplex system	Time-division multiplex, 10 ms frame length
Channel spacing	1728 kHz
Bit rate	1152 kbit/s
Modulation	GFSK
Voice coding	32 kbit/s
Transmit power	10 mW, mean power per channel
Range	up to 300 m in the open, up to 50 m in buildings
Power supply	Base 220/230 V ~/ 50 Hz (C30280-Z4-C373 plug-in power supply unit)
ISDN connection	Euro ISDN point-to-multipoint connection IAE
Ambient operating conditions	+5°C to +45°C 20% to 75% relative humidity
Dimensions Base	approx. 136.6 x 149 x 64.2mm (L x W x H)
Dimensions Handset	approx. 155 x 53.6 x 36.2 mm (L x W x H)
Weight	Base 175 g Handset with battery cells < 175 g
Connector cable length	Telephone connector cable, approx. 3 m Mains cable, approx. 3 m



# Compatibility

The list shows you which functions of your Gigaset 4000 Classic handset and other manufacturers' handsets are supported.  
It is possible to register up to 4 Gigaset 4000 Classic handsets.

Function	Gigaset 4000 Classic	Other manuf.
Registration	+	+
Dialling	+	+
Provider list/Speed dialling	+	+
Charge display	-	-
Call duration	+	+
Callback	-	-
CLIP call number display	+	-
Accept call waiting	(R)	R key
Reject call waiting	-	-
Extending external calls	(R) 0+	R key, then 0 key
3-party conference	-	-
Toggle	(R)	R
Enquiry call user 1	(R)	R
Enquiry call user 2	0+	0
Collective call, internal (with automatic line seizure deactivated)	Seize, (*2)	Seize, then * key
Internal calling (with automatic line seizure deactivated)	Seize, 11-16	Seize, 11-16
Display new messages	-	-
Interrogate missed calls list	-	-
Ring tone discrimination per MSN	-	-
Number redial	+	?
Dialling from local telephone book	+	?
Send/receive SMSs	-	-

# Accessories

## Gigaset 4000 Micro handset



- Illuminated keypad
- Vibration alarm
- Connection socket for headset, PC and MP3 player,
- 5-line illuminated graphic display
- SMS,
- walk and talk,
- Hands-free
- Telephone book for approx. 200 numbers/ names,
- Room monitor
- Appointment function

Scope of delivery: Handset with charger

Colour: midnight blue or glacier green\*

## Gigaset 4000 Comfort handset



The Gigaset 4000 Comfort offers an extended range of functions:

- 5-line illuminated graphic display
- SMS,
- walk and talk,
- Hands-free
- Telephone book for approx. 200 numbers/ names,
- Room monitor
- Appointment function

Scope of delivery: Handset with charger

Colour: midnight blue or glacier green\* .

---

\* Country-specific

### Gigaset 4000 Classic\* handset



The Gigaset 4000 Classic offers the following features:

- 12-digit display for time, numbers etc.
- Telephone book with 20 entries,
- Alarm function,
- Redial the last five numbers.

Scope of delivery: Handset with charger

Colour: midnight blue or glacier green\*.

---

\* Country-specific

### Gigaset repeater



With the Gigaset repeater you can expand the receive range from your Gigaset handset to the Base unit.

**(Not available in all countries!)**


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\* Not available in all countries.

# Menu displays

## Gigaset 4000 Comfort menu

Please also refer to the local operating instructions for the Gigaset 4000 Comfort.

Press  with the telephone in its **standby state**.

Step 1	Step 2	Step 3
Text Message	Write Message	Enter
	Inbox    %~/%]	Select
	Outbox    %}	Select
	Available memory	Info
Add. Features	Room Monitor.	Enter
	Walk and Talk	Enter
Calendar/Clock	Set Appoints.	Enter
	Alarm Clock	Enter
	Missed Dates	Enter
	Date/Time	Enter
Sound Settings	Handset Volume	Enter
	Ringer Settings	Enter
	Advisory Tones	Enter
Costs	Cost overview	Select
	Type of calcul.	Select
	Last charge	Select
Settings	Auto Talk	
	Language	List
	Register H/Set	List
	Select Base	List
	Reset Handset	
Base Settings	Calls up the main menu for the base station.	

## Menu of the Gigaset 4110isdn base station

Display on Gigaset 4000 Comfort handset.

Base Settings > Status		
Step 1	Step 2	Step 3
Callback	OK	Display of the numbers with callback
Withhold no.	OK	<input checked="" type="checkbox"/> if set up permanently
Call forwarding	OK	<input checked="" type="checkbox"/> MSN with call forwarding
Ext.occupations	OK	No. of seized B-channels, if any



Base Settings > Missed calls			
Step 1	Step 2	Step 3	Step 4
<input checked="" type="checkbox"/> Missed calls	OK	Number	Dial number
			NET list
			Copy to dir.
			Change number
			Delete entry
			Display entry
			Delete list

Base Settings > Accepted calls			
Step 1	Step 2	Step 3	Step 4
<input checked="" type="checkbox"/> Missed calls	OK	Number	Dial number
			NET list
			Copy to dir.
			Change number
			Delete entry
			Display entry
			Delete list

Base Settings > Call preparat.		
Step 1	Step 2	Step 3
Temp.withhold	<input checked="" type="checkbox"/>	*
MSN next call	OK	<input checked="" type="checkbox"/> MSN **
Temp. keypad	<input checked="" type="checkbox"/>	
Canc. call park	OK	Park No.


\* This feature is only available if supported by the net provider.

\*\* At least one MSN must be assigned to the handset.

Base Settings > Forward. netw.			
Step 1	Step 2	Step 3	Step 4
MSN1 Call... 	New entry	MSN 	Immediately
etc.			On busy
			On no reply
			Activate? <input type="button" value="OK"/>
	Edit entry		
	Delete entry	<input type="button" value="OK"/>	

Base Settings > Forward. base			
Step 1	Step 2	Step 3	Step 4
Activate?	<input type="button" value="OK"/>	Deactivate?	
Forward. dest.	INT11:Internal11 *	<input type="button" value="OK"/> <input checked="" type="checkbox"/>	
No. of rings	0 - 9	<input type="button" value="OK"/>	

\* Display of all available internal numbers.

Base Settings > Night service			
Step 1	Step 2	Step 3	Step 4
MSN1 xy... 	Activate?	<input type="button" value="OK"/>	Deactivate?
usw.	Forward. dest.	External	Dest.call no.
		Internal	INT11:Internal11 *
	Start time:	HH:MM	Save entry
			Cancel
	End time:	HH:MM	Save entry
			Cancel
	Sat/Sun all day	<input type="button" value="OK"/> <input checked="" type="checkbox"/>	

\* Display of all available internal numbers

Base Settings > Settings > Security		
Step 1	Step 2	Step 3
Change PIN	New PIN	New PIN
Authorisation	INT11:Unrestrict *	Unrestricted
		Incoming only
		Int. only
Emergency nos.		Change number
		Delete number
		Display number

\* Display of all available internal numbers.

Base Settings > Settings > Setup user			
Step 1	Step 2	Step 3	Step 4
Setup device	INT11: Internal 11*	Name	☰+
De-register	INT12: Internal 12*	Send MSN	↓ OK
		Receive MSN	↓ OK
		MSN next call	OK ✓
		Call waiting	OK ✓
		Ring delay	↓ OK MSN yx No. of rings
		Hunt group	OK ✓
		Auto. seizure	OK ✓
		↓ OK	

\* Display of all available internal numbers of cordless devices.

Base Settings > Settings > System settings			
Step 1	Step 2	Step 3	Step 4
Music on hold	Internal Off	Select by using 	OK ✓
Date/time	Set time	Day:	Save entry Cancel
		➔ Month:	
		➔ Year:	
		➔ Hour:	
		➔ Minute:	
	24 hours	OK ✓	
12 hours	OK ✓		
	Date DD.MM	OK ✓	
	Date MM.DD	OK ✓	
Costs * (Interrogation of system PIN)	Cost overview	Total amount	☰ Delete amount
	Type of calcul.	units centr.off.	OK ✓
		costs centr.off.	OK ✓
		No rate	OK ✓
		Rate --.	Save entry Insert euro £ Insert pound \$ Insert dollar Cancel
		Rate ---	
	Last charge	OK	
Access code	Access code:	Save entry	OK
		Cancel	OK
Spec. function	Factory setting	Operational	OK
		Reset all	OK
	Dial properties	Standard dial	OK ✓
		Auto keypad	OK ✓
		Dial * and #	OK ✓
	Repeater	Ann. Only	NEXT
SW version	OK		
Ext.room monit.	Dest.call no.	☰ Change number ☰ Delete number	☰ <Number>

\* On the Gigaset 4000 Comfort, "Costs" is accessed from the local menu



Base Settings > Settings > ISDN settings			
Step 1	Step 2	Step 3	Step 4
Set up MSN	MSN x	Edit entry	
		Ringer melody	Ringer melody: x
		Delete entry	OK
		Display entry	Name *
Withhold no.	OK <input checked="" type="checkbox"/>		
Forward. dest.	<Number>	Save entry	
		No.from dir.	
		NET list	
		Cancel	
Lg.-dist. code	National:		
	International:		
Int. enq. call	OK <input checked="" type="checkbox"/>		
Ext. enq. call	OK <input checked="" type="checkbox"/>		
Transfer(ECT)	OK <input checked="" type="checkbox"/>		
Forward. base	OK <input checked="" type="checkbox"/>		
Forward. netw.	OK <input checked="" type="checkbox"/>		
Reject all	OK <input checked="" type="checkbox"/>		
Busy on busy	OK <input checked="" type="checkbox"/>		
Auto.forwarding	MSN x	<Number>	Save entry
			No.from dir.
			NET list
			Cancel
Call beats data	OK <input checked="" type="checkbox"/>		

\* Call number and melody are also displayed

Base Settings > Settings > Service centres			
Step 1	Step 2	Step 3	Step 4
<empty>	Edit entry	<Number>	Save entry
			Cancel
	Serv.centre on?	OK	
	Send off?	OK	
	Delete entry	OK	

# ISDN Glossary

## A

### **Access classes**

Permitted connections (e.g. internal only, incoming or unrestricted call access) are defined on the terminals of a telephone system.

### **Access levels**

Different levels of access can be assigned to different users on your base station telephone. For example, user A may only be allowed to take incoming calls, whereas user B may also make outgoing calls without any restrictions.

### **Advance dialling**, see also en-bloc dialling

On some display telephones you can enter a call number, check it is correct and then dial.

### **AOC-D**

Advice of Charge: During the Call. Charge information is transferred during the call.

### **AOC-E**

Advice of Charge: at the End of the Call. Charge information is not transferred until the end of the call.

### **Automatic callback**

See Callback on busy.

### **Automatic redial**

If the number is busy, further call attempts are made automatically.B

## B

### **Bar/lock**

Protects the line against unauthorised use.

### **Barring certain numbers, outgoing/call restrictions**

With this enhanced feature you can suppress dialing of certain numbers from an ISDN telephone (or from an analogue telephone connected to an ISDN system with the appropriate feature), such as premium rate numbers.

## C

### **Call deflection**

CD. This must be explicitly enabled by the provider for each ISDN line. With CD you can transfer an incoming call to another call number while it is ringing. You do not need to answer the call. Since the caller has no influence on where the call will be forwarded (to a mobile phone for example), you pay the appropriate charges. The caller will be billed only for the normal telephone charges to the number dialled.

### **Call forwarding**

CF (Call Forwarding) You wish to permanently forward calls to a different line. Call forwarding can be set up externally via the exchange or internally on the terminal.

Call forwarding can be set up separately for each of your call numbers (MSNs) - to your mobile phone when you are on holiday, to the office, to a neighbour, etc.

This is set up in the provider's local exchange. The call therefore never reaches the line originally called.

There are three types of call forwarding: immediate (CFU, Call Forwarding Unconditional), on busy (CFB, Call Forwarding Busy) and on no reply (CFNR, Call Forwarding No Reply).

### **Call forwarding (via the second B-channel)/internal call forwarding**

Whereas external call forwarding takes place in the provider's local exchange, internal call forwarding takes place at your telephone. Your telephone forwards the call via the second telephone line of your ISDN line. This means that **both telephone lines are busy for the duration of the call**. You pay the charges for the connection to the forwarded number. However, you save on the fees charged by the provider for this function.

### **Call waiting**

CW Network provider feature. If someone calls you while you are already in a call you will hear a signal tone. ISDN telephones also signal this with a display message. You can then decide whether to accept or reject the second call.

### **Callback on busy.**

The call must have callback activated on his terminal. A connection is automatically set up as soon as the busy status is cancelled on the destination line. When the line becomes free the caller will hear the appropriate signal tone. As soon as he lifts his handset the connection is automatically set up.

### **Callback on no reply.**

If a subscriber does not answer, a caller can activate automatic callback. As soon as the destination subscriber has set up a call and is free again the appropriate signal tone will be sent to the caller. This feature must be supported by the central office. The callback order will be automatically cancelled after about two hours (depending on the provider).

### **Caller identification**

The call number, name or type of connection (e.g. exchange/internal) of the call is shown on the telephone display.

### **Caller list**

Depending on the settings, the list contains the callers whose calls you missed or the callers to whom you have spoken. The last 20 calls made and received are stored along with telephone numbers, dates and times. You can call back directly from this list.

**Calling Line Identification Restriction (CLIR)**

Transfer of your own call number is disabled.

**CCBS** (Completion of calls to busy subscriber)

See Callback on busy.

**CCNR** (Completion of calls no reply)

See Callback on no reply.

**CD** (Call Deflection)

See Call deflection

**CF** (Call Forwarding)

See Call forwarding

**Channel**

An ISDN line, like an analogue telephone line, has two cables running into your house but a distinction is made in ISDN between the two logical user channels, known as the B-channels (which have nothing to do with the physical cables) and the control channel, known as the D-channel.

**Charge display**

See AOC-D and AOC-E.

**CLIP** (Calling Line Identification Presentation)

Subscriber A calls subscriber B. The call number of A appears on B's telephone display.

**CLIR** (Calling Line Identification Restriction)

The number of the calling line is not displayed.

**COLP** (Connected line identification presentation)

Subscriber A calls subscriber B. The call number of B is displayed on A's telephone. If B has programmed call forwarding or deflection to C, then the number dialed and the number transferred will not be the same; the call number of C will be displayed, provided C has not suppressed his number.

**COLR** (Connected line identification restriction)

The call number of C is not displayed on A's telephone if C has set up COLR.

**Conference call**

See Three-party conference.

**CW** (Call Waiting)

See Call waiting

## D

### **Digital exchange**

Computer-controlled memory time switches are used to set up calls quickly and activate enhanced features such as => consultation calls, => call waiting, => three-party conference, => call deflection, etc.

### **D-channel**

Control channel for an ISDN line. See Channel.

## E

### **ECT** (Explicit call transfer)

See Switching.

### **Electronic code lock**

Personal identification number (=> PIN) that you can use, for example, to prevent people using your phone without your consent – calls to the emergency services can still be made however. Incoming calls can still be taken.

### **En-bloc dialling**

Also known as advance dialling. You can key in the number you wish to call and make any necessary corrections. Then you can lift the handset or press the speaker key.

### **Enhanced line**

ISDN line that offers three features more than the standard line: call deflection, advice of charge at the end of the call and T-Netbox.

### **Enquiry call**

You are engaged in a call. You can use the "Enquiry call" function to interrupt the call briefly to set up a second external call or internal call to another subscriber. If you speak to the other person and then end the call, this was an enquiry call. If you switch back and forth between the first and second parties, this is called toggling.

### **Explicit call transfer** (on ISDN telephone systems)

ECT. Subscriber A calls subscriber B, places the call on hold and calls subscriber C. Instead of now all talking in a three-party conference, A now transfers B to C and replaces the handset.

### **Exchange**

A nodal point in the public telephone network. A distinction is made between local exchanges and long-distance exchanges.

## H

### **Hands-free talking**

The hands-free system on a telephone enables you hear the caller via the loudspeaker and talk to the caller via a built-in microphone without lifting the handset. Other people in the room can therefore also take part in the call.

### **Holding calls**

(Hold). Interrupting and restoring an existing call. In particular, this is useful for consultation calls and toggling.

### **Hot key**

This disables the telephone for all call numbers apart from one specific user-defined number. When the handset is lifted and any key is pressed a call is automatically made to the stored number. This is ideal for children who cannot be relied on to dial correctly. Calls to the emergency services can still be made. This function is available on Gigaset 3000/2000 Comfort handsets.

**Internal calls**

These are connections free of charge between the base station telephone and handsets.

**Internal ringer**

Special signal tone on telephone systems to discriminate between internal and external calls.

**ISDN**

Abbreviation for Integrated Services Digital Network. Integration can cover telephone, fax and data transfer for example.

**ISDN abbreviations**

CW	Call waiting
CF	Call forwarding
3PTY	Three-party conference
CCBS	Callback on busy
CD	Call deflection

**K****Keypad**

The keypad supports special function keys such as the star key (\*) and the hash key (#). These can be used with the appropriate codes to access various functions offered by your provider (such as #4711\*).

**L****Lock function/PIN**

A code protects your telephone against unauthorised use. By entering single-digit or multi-digit lock numbers you can prevent certain numbers or groups of numbers from being dialled.

**M****MCID** (Malicious call identification)

See Trace.

**MSN**

Multiple Subscriber Number. The call numbers of an ISDN multiple device connection. They are used to address specific terminals; the fax machine, for example, may have a separate number. Three MSNs are included in the basic price of the standard line and the enhanced line. Up to ten MSNs can be assigned to an ISDN line.

**Multiple subscriber number**

See MSN.

**Multiple device connection**

ISDN line which, in contrast to a system connection, provides up to ten MSNs instead of one extension number block. This is the most usual type of ISDN line for private customers.

**Music on Hold**

Music on hold. Music is played to the waiting caller during a consultation call or call transfer.

**Mute**

Enhanced feature on telephones; deactivates the built-in microphone (in the handset or hands-free system).

## N

### **Notebook function**

During a call you can enter a call number in the telephone's memory so you can dial it later.

### **NT/NTBA**

NT = Network Terminator, NTBA = Network Terminator Basic Access. The public T-ISDN ends at the NT. The NT provides the link to the existing telephone socket. Only the NT can and should be connected to the telephone socket. Analogue terminals must not be connected to the telephone socket. ISDN terminals and other ISDN sockets are connected to the NT.

## O

### **On-hook dialling**

Enhanced telephone function: The handset is not lifted until the called party answers.

### **Open listening**

At the push of a button everyone in the room can listen to the telephone call via the built-in loudspeaker. See also Hands-free talking

### **Outgoing MSN freely selectable**

This is a feature which enables you to determine which MSN is to be used for the subsequent call. This is important not only for call number display on the called party's phone but also for calculating call charges. Call costs, which can be coded by MSN free of charge on the provider's bill, are assigned to the MSN that was used to make the appropriate call.

## P

### **Parking calls**

You park a call when you unplug the telephone during a call or replace the handset so you can pick up the call on another handset connected to the same line. The call remains connected during this time.

### **Phonebook**

Enhanced feature of a telephone; stores the names and call numbers of other subscribers. The numbers can be quickly found and dialled.

### **PIN**

Abbreviation for **P**ersonal **I**dentification **N**umber. This is used to protect against unauthorised use, examples include the system-PIN, answering machine PIN and handset PIN.

## R

**Recording the calls**

This is a feature of the answering machine; enables a call to be recorded.

**Reject call waiting**

Deactivates the call waiting signal.

**Remote replay**

Answering machine function. This involves dialling in to the answering machine to listen to messages; in most cases you can also delete messages and change announcements.

**Remote power-on**

This enables the answering machine to be switched on and off under PIN control during a telephone call.

**Repeater**

With a repeater you can increase the range of the handsets linked to a base station telephone. The unit receives the radio signal from the base station telephone and transmits it on.

**Repertory keys/function keys**

Enhanced feature on a telephone; a limited set of call numbers can be assigned to specific keys. These programmed numbers can then be dialled at the push of a button.

**Ring delay**

For each internal user you can define how many ringing signals are received before ringing is activated. This setting can be made for each MSN. If you are operating your handset on the private call number, ringing should start after, say, three ring tones in addition to the base station telephone (the base station telephone will start ringing immediately), whereas your handset should ring immediately if you receive a call on the business number.

**Room monitoring**

A feature on the answering machine or telephone, for example. Enables you to listen in on a room via the telephone network. PIN-protected.



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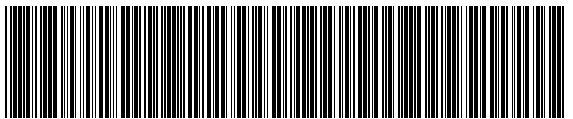
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Issued by  
Information and Communication mobile  
Haidenauplatz 1  
D-81667 München

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Printed in Germany (09/2002).

Siemens Aktiengesellschaft  
<http://www.my-siemens.com>

Reference no.: A31008-G4110-B102-2-7619



A31008- G4110- B102- 2- 7619