bintec elmeg
Teldat Group Company

**elmeg CS410
elmeg CS410-U
elmeg CS400xt
elmeg IP-S400
Answering machine
T400, T400/2**

**Operating instructions
English**

Please note!

The system telephones and corresponding systems in this user guide use the following abbreviations:

System / PABX:	Abbreviation:
elmeg PABX	elmeg PABX
elmeg Hybird 300 elmeg Hybird 600	elmeg hybird. Alternative configuration of the system telephones (see also page)
Bintec TR200aw	as PABX
Bintec TR200bw	as PABX

Declaration of Conformity and CE Mark

This device meets the requirements of R&TTE Directive 1999/5/EC:

$C\mathcal{E}$ Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity.

The Declaration of Conformity can be viewed at the following web address: http://www.bintec-elmeg.com.

The crossed-out waste bin icon on the device indicates that the device must be disposed of separately from normal household waste at the disposal sites provided at the end of its service life. You can find additional information on the individual return of used devices at www.bintec-elmeg.com.

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Telephone user interface

Bild:

①	Loudspeaker
②	Receiver with connector cord
③	The PABX menu is called for CS400xt.
④	6 softkeys
⑤	7-line display with background lighting
⑥	Menu key: Open the programming menu by pressing this key. If you are already in a menu and press this key, the functions available in this menu will be displayed or you will be taken back one programming step.
⑦	ESC key: By pressing the ESC key (Escape key), the system telephone is once again at rest during programming.
⑧⑩	Right/left arrow keys: The arrows »←« and »→« in the right-hand corner of the top line of the display show you that you can access other functions in the bottom line by using the arrow keys.
⑨	OK key: Pressing this button confirms an entry and stores a setting in the system telephone.
⑪	C-key: You can go back one menu step by pressing this key in any menu. If you are in input mode, you can delete individual characters using this key.
⑫	Star key / hash key.
⑬	Dialling keys.
⑭	Loudspeaker / hands free key.
⑮	Disconnect key.
⑯	Redial key.
⑰	Hold for enquiry key.
⑱	Microphone.

ⓘⓘ elmeg CS410 / CS410-U, IP-S400: 5 programmable function keys with LEDs: Each key has a two-colour LED (Level 1 - Red / Level 2 - Yellow). These LEDs can be used to indicate specific functions.

CS400xt: 5 programmable function keys with LEDs:
Each key has a (red) LED available. These LEDs can be used to indicate specific functions.
The LEDs for both of the lower function keys have two colours (Level 1 - Red / Level 2 - Yellow).

⑳ Label field for function keys.

㉑ Status LED, LED for call signalling, signalling received messages UUS, SMS and MWI (red) and answering machine (yellow). The desired function display for messages and calls can be configured.

Description and installation

The system telephone can be operated by an internal connector of a elmegPABX that supports system functions. Together with the elmegPABX, the system telephone provides various performance features that are typical of this system.

The internal connector on the elmegPABX is simultaneous and automatically the system interface for the system telephone. Please consult the user's guide for your elmegPABX to see whether or not this offers the typical system performance features combined with various system telephones.

> ⚠️ A complete configuration of the CS400xtPABX and directly via the system telephone is possible on all elmegPABX (excluding elmeg hybird) using the Professional Configurator.

> ⚠️ A complete configuration of the telephone using the elmeg hybird is not possible. Some of the performance features can only be set up using the telephone's own interfaces. However, this is only possible if the system telephone has a USB or Ethernet interface.
>
> Functions that cannot be fully configured via the elmeg hybird are marked at appropriate points in the text.

Differences in configuration between the elmegPABX and the elmeg hybird

⬭ Press a softkey or an arrow key. On the elmeg hybird this key does not have to be pressed again if the display ◖▶ is different, as the function is already displayed or is not available.

The following message indicates if differences exist.
Cannot be configured using the system telephone on the elmeg hybird!

A summary of these functions can be found on page under »Restricted system telephone configuration«.

CS400xt

This system telephone is delivered with a key extension module (T400/2), providing you with 10 additional, freely configurable keys.

It is designed for connection to an internal S0 port (4-wire cable) of a PABX system. The system telephone is not equipped with a USB or serial port for configuration or other uses. This phone must be configured via the internal ISDN port using the WinTools Professional Configurator. There are also no »Audio functions« implemented and you can not use the Answering machine or Up0 modules or functions. None of the functions for this module are shown in the display, nor can they be used.
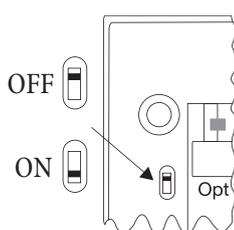
This telephone is equipped with the function »Emergency operation«. »Off« = Emergency operation off, »On« = Emergency operation On. meaning it can be operated at NT via the PABX system on a loss of 230 V~ power. If more than one telephone is connected to the ISDN system, the emergency operation function may only be configured on one of the ISDN system telephones. All calls are signaled at this phone. The volume of the ringing tone is set to low. In addition to making normal calls, the following functions are also available:

- Selection of a call number from the telephone directory or the speed dial memory after lifting the handset.

- Display of call duration and costs.

- Mute.

- Terminate call.

The phone number (MSN) that the network service provider assigned to you as the first (master) number will be transmitted to external subscribers. Charge billing is effected for this. Observe the information concerning emergency operation in the PABX system. Ongoing connections are interrupted in the event of a power failure.

☞ Refer to the operating manual of your PABX system to see if your system supports emergency operation.

Configuring emergency operation (PtMP and PtP connections)

Emergency operation is not configured as a factory default feature. A slide switch is located on the bottom of the system telephone that can be used for configuring emergency operation.

To configure the emergency operation feature, slide the switch on the left side on the bottom of the phone down. To de-activate emergency operation, slide the switch back to the top position.

☞ Attention: Before you move the emergency operation switch unplug the ISDN connector for the system telephone. Use a non-metallic tool to move the switch.

Configuring emergency operation at a point-to-point (PtP) connection

If you wish to also use your system telephone for emergency operation at a PtP connection you must also activate this feature using the PC configuration for your system telephone. You can use the configuration program to set emergency operation at a PtP connection.

Making calls during emergency operation at a point-to-multipoint connection

The system telephone begins emergency operation when power supply for the PABX system and the NT is lost. Emergency operation, followed by a telephone symbol is then shown in the system telephone display.

If the 230 V AC power supply is restored during an ongoing call, all normal, configured functions are available again only after you hang up the handset. If the 230V~ power supply is restored when the handset is in the cradle, the emergency operation display is replaced by the normal display when the handset is lifted, or on the next call.

Making calls at emergency power supply mode on a point-to-point connection

During emergency power supply mode at a point-to-point connection, you will see the normal operation displays.

elmeg CS410

This system telephone is designed for connection to an internal S-connector (4-wire cable) on a elmeg PABX. If you want to use the telephone on an internal Up0 connection, you must install the internal module »Up0/S0« on the telephone or use the external »Up0/S0« converter.

CS410-U

This system telephone is designed for connection to an internal U-connector (2-wire cable) on a elmeg PABX. You then no longer require the internal module »Up0/S0« or the external »Up0/S0 converter«.

Settings / Configuration elmeg CS410, CS410-U. CS400xt

On the system telephone itself, you can only perform a restricted configuration of the supported performance features. A full configuration is only possible with the Professional Configurator from the WIN-Tools CD-ROM via the USB interface on the system telephone or the internal S/U-connector (please refer to page B to see whether or not this function is supported) on a PABX.

elmeg IP-S400

This system telephone is connected to the corresponding LAN connector (or network) of the PABX via a Cat. 5 cable. The system telephone has a PC output to which further IP terminals can be connected. The system telephone has a hands free function.
Power supplied via plug-in power supply unit, or via Ethernet PoE (Power over Ethernet).

☞ A further description on configuring the system telephone can be found in the detailed user guide on the CD-ROM.

Extensions for the system telephone

Module Up0/S0 (elmeg CS410, CS410-U, CS400xt)

- To connect the system telephone to a U-connector on a PABX, you can install the »Up0/S0« module on your system telephone. You then no longer need the external »Up0/S0-Converter«.

Answering machine module (only elmeg CS410, CS410-U)

- This module expands your system telephone with a digital answering machine offering numerous functions.
  E.g.: Individual configuration for each number of the system telephone, time control of the announcement for each number, automatic notice for recorded calls, recording of dictations, listening in on calls, PIN-protected remote operation.
  A special key and an LED are provided for the operation of the answering machine.

Key extension T400

- The key extension has 20 keys with LEDs that can be used in two layers as function keys. The LED is assigned to the first key layer. Two other LEDs are used to display additional information.
  You can connect up to three key extensions in sequence (cascading) to your system telephone. A plug power supply unit must be used if using more than two key extensions. Only use the plug power supply unit (220872.5) or T1-UK (220873.3) available as an accessory.

Key extension T400/2

- The key extension has 10 keys with LEDs that can be used in two layers as function keys. The LED is assigned to the first key layer. Two other LEDs are used to display additional information.

Safety notices

- Note the ambient temperature for the storage and operation of the device in the specifications. The device must only be connected once the permissible ambient operating temperature is reached.

- Please note that when switching from cold to warm temperatures, condensation may form on or in the device. Only remove the device from the packaging when the permissible ambient operating temperature has been reached.

- During a storm, you should not connect or disconnect any cables and do not make any calls.

- Only connect the cords to the connectors provided.

- Lay the cords so that they are protected in the event of an accident.

- Avoid the following influencing factors:
  Direct sunlight
  Source of heat (e.g. radiator)
  Electronic devices (e.g. sound systems, office equipment or microwave devices)
  Penetrating moisture or liquids
  Aggressive liquids or vapours
  High levels of dust

- Do not use the device in humid rooms or in explosive atmospheres.

- Only open the areas of the device indicated in the assembly/operating instructions.

- Do not touch the plug contacts with sharp, metal or damp objects.

- If the device is not permanently mounted, position the device or the accessory on a non-slip surface.

- Please ensure that you only clean the system with a slightly damp cloth.

- Please ensure you only use approved accessories.

- Only terminals that offer SELV (safety extra low voltage) and/or meet ETS 300047 may be connected to the device. Correct use of the permitted terminals meets these requirements.

Plug power supply unit

- Only use the plug power supply unit supplied or available as an accessory (DSA-0101F-05 UP or L15 D52 AB DDLAWO).

- Do not use any plug power supply units that show signs of damage (breaks or cracks in the casing).

Electrostatic charges (ESD protection)

The system telephone is supplied with ESD protection above the permissible values against the effects of electrostatic charges. In spite of this, be sure to avoid excessive static charges. Various causes can result in the electrostatic charge achieving values that far exceed the permissible values required and that exceed interference immunity of the system telephone. The causes or circumstances such as low humidity or carpets must be eliminated. The manufacturer of the system telephone accepts no liability for damages resulting from these causes.

Unpacking and positioning the system telephone

Unpacking

- System telephone.

- Receiver with cord.

- 2 device feet.

- S-connector cord, approx. 6 m (only elmeg CS410 and CS410-U).

- Cat.5 connector cord, approx. 2 m (only elmeg CS410 and CS410-U).

- PC connector cord, USB cable, approx. 3m (only elmeg CS410 and CS410-U).

- PC audio cord, 3.5mm stereo jack plug, approx. 2.5m (only elmeg CS410 and CS410-U).

- Adapter cable for headsets with 4-pin cord, 8-pin / 4-pin.

- Cable clip, after removing the adhesive protective film (only elmeg CS410 and CS410-U).

- User's guide and labels for function keys.

- WIN-Tools CD-ROM, including:
  Professional Configurator, phone book, download and sound managers,
  TAPI, USB, CAPI and NDISWAN drivers, Adobe Acrobat Reader,
  Operator's manual and Adobe Acrobat file for printing your own labels.

Setting up the system telephone

Before setting up the rear device feet must be mounted on the system telephone in the positions marked ⑥ in the picture.
Please remember that the system telephone device feet may leave marks on delicate surfaces, such as on fittings for examples. The system telephone manufacturer shall not be liable for any such damage. Please ensure therefore that you place your system telephone on a non-slip surface.

Cleaning the system telephone

The system telephone has been designed for normal usage conditions. Only clean the device when necessary with a slightly damp cloth or use an anti-static cloth. Never use solvents. Never use a dry cloth; the electrostatic charge could cause electronic faults. Make sure that no moisture can enter the system telephone and cause damage.

Connecting the system telephone (connector and receiver cord)

In order to operate your system telephone, you must insert the cords for the telephone connector and the receiver.

Connecting the receiver cord

Connect the receiver cord ① as shown in Fig. . Place the receiver cord in the cable guide ④ and clamp it securely under the cable clips ⑤
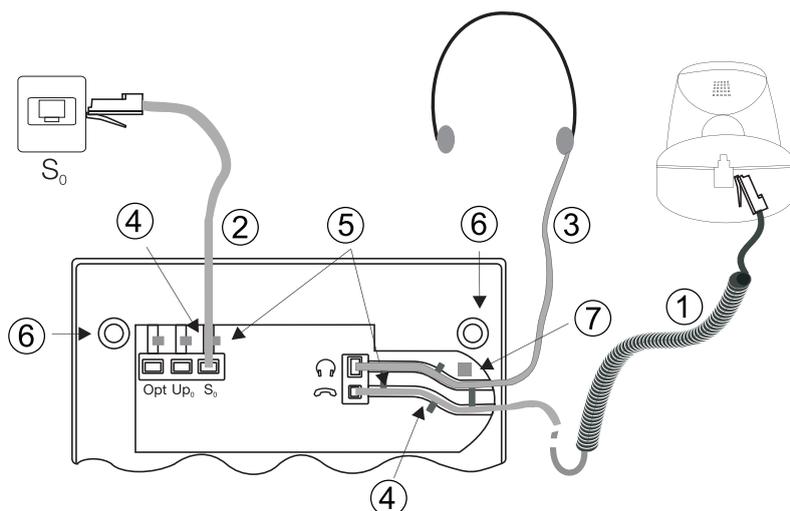
Figure:

Connecting the cord

S-connector
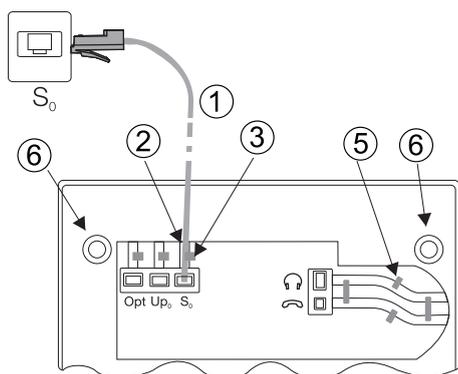
Figure: 3

Connect the S-cord ② as shown in Fig. (socket S0). Please note that the longer ISDN plug must be inserted in the ISDN socket and the shorter ISDN plug must be inserted in the ISDN socket on the system telephone. Next place the S-cord cable in the cable guide ④ and clamp it securely under the cable clips ⑤.

Up0-connectorCS410-U, telephone with »Up0/S0« module)
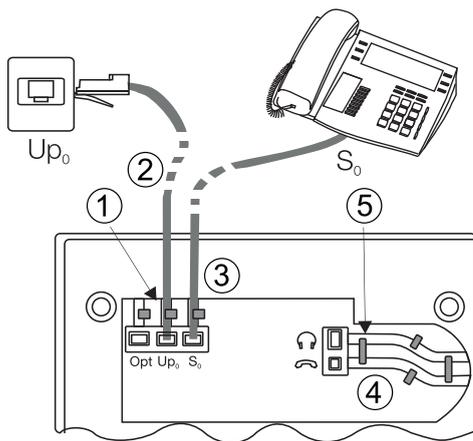
Figure:

Connect the S-cord ① as shown in Fig. (socket Up0). Please note that the longer ISDN plug must be inserted in the ISDN socket and the shorter ISDN plug must be inserted in the ISDN socket on the system telephone. Next place the S-cord cable in the cable guide ② and clamp it securely under the cable clips ③.

☞ The elmeg CS410 with »Up0/S0« module and the CS410-U may no longer be connected to an ISDN connector via an S0 socket (e.g. internal S-connector of the PABX).

☞ You can connect a further ISDN terminal with S-interface (e.g. an ISDN card or another system telephone) to the S0 socket on the system telephone. The power supply at this connector for another ISDN terminal is 1 Watt.

Connecting and setting the headset (not included)

You can connect a headset to the system telephone. Please ask your dealer or consult the Internet to find out which headsets are compatible.

The headset connector on the system telephone is an 8-pin socket. Headsets with DSHG interface (e.g. cordless DECT headsets) can be connected directly to the system telephone without any accessories. For standard headsets (4-pin cord, e.g. U10PS) use the adapter cable supplied.

☞ The optional answering machine module and a headset with DSHG interface can be connection to/installed on the CS410-U simultaneously.

Connecting the headset

The headset is connected to the separate headset socket on the system telephone as shown on page in Fig. . Next place the headset cable ③ in the cable guide ④ and clamp it securely under the cable clips ⑤.
If the headset cord does not fit in the cable guide, stick the adhesive cable clip supplied on to the base of the system telephone ⑦. Then lay the headset cord under this clip.

Configuring the headset connector elmeg CS410/CS410-U
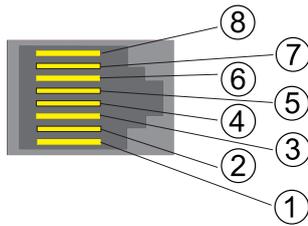
⑧ DSHG transmitter

⑦ V+ (3.3V)

⑥ Microphone - (Ground)

⑤ Receiver (3,3V switchable over resistance)

④ Receiver (Ground)

③ Microphone +

② Earth (Ground)

① DSHG receiver

Figure:

Configuring the headset connector CS400xt
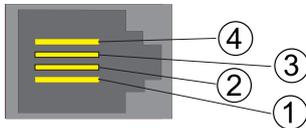
④ Microphone - (Ground)

③ Receiver (3,3V switchable over resistance)

② Receiver (Ground)

① Microphone +

Figure: 6

Other settings for the use of the headset

You can use either the receiver or the headset to make a call. When using a headset, the following settings are required or available:

- In the configuration of the system telephone, set up a function key for operating the headset (headset key, see page 53).

- The connected headset can be used automatically for certain operations on the system telephone (see page 60).

- If special support is saved in the system telephone for your headset, enter the corresponding type of headset (see page 63).
  e.g. the LED in the microphone of the »Firefly F142 N« from Plantronics is switched through the system telephone.

- If you want to use the headset to automatically receive calls, set the time to automatic pickup (see page 71). In the configuration of the system telephone, set up a function key for activating or deactivating automatic call pickup.

- Using the headset the answering machine can be queried if automatic headset operation is set up.

Connecting the system telephone to a PC

Connecting the PC connecting cord (USB)

Use the USB cable supplied to connect the system telephone to the PC or a hub. If you use another USB cable, note that the distance between the system telephone and PC or telephone and hub must not exceed five me-

tres depending on the type of USB cable used.

Connect the USB cable (4) as shown in Fig. (socket PC). Insert the USB plug (type A) into the corresponding connector on your PC and the USB plug (type B) into the USB connector on the back of the system telephone (1). If both devices (system telephone and PC) are switched on, the PC recognises the connected system telephone automatically.

When connecting the system telephone to a PC for the first time, the device driver installation starts automatically. Insert the WIN-Tools CD-ROM for the system telephone and follow the instructions on screen.

If you want to use several USB terminals on your PC, you will require a hub (USB distributor). The hub is connected to the USB port on the PC. You can connect other USB terminals to the hub, including the system telephone.

elmeg CS410, CS410-UConnecting the audio cable (Audio in / Audio out)

The system telephone has an input ② and an output ③ for audio signals. These connectors are designed for 3.5 mm stereo jack plugs. When using the optional answering machine module, you can connect the system telephone over this connection to the sound card on your PC in order to transfer announcements to the system telephone or to save recorded messages to the PC.

You can also use specific functions on the system telephone from the audio-out output (see page 66). Connect the loudspeaker (5) using a 3.5mm jack plug to the audio-out connector on the system telephone (3) as shown in Fig. .
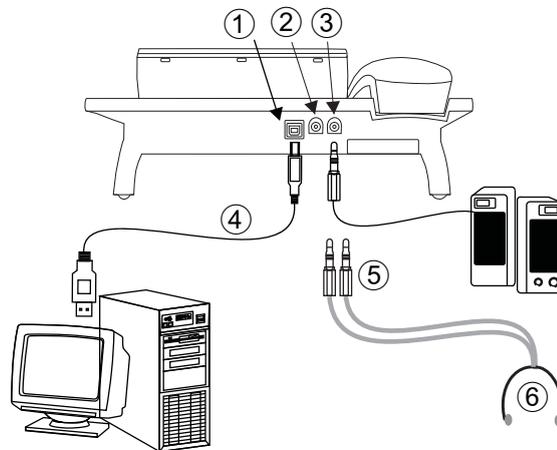
Figure:

elmeg IP-S400 on the Ethernet connector

The elmeg IP-S400 can be powered via the Ethernet connector in accordance with IEEE Std 802.3af-2003 (PoE). The power supply is then provided over Ethernet from the hub or switch. »Alternative A« and »Alternative B« are supported on the connector in accordance with IEEE Std 802.3af-2003 and »Power classification 1« (up to 4 W). The PoE connector is polarity-independent.

PIN configuration PoE
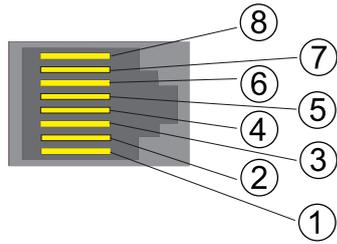
Figure:

① Transmit Data +
② Transmit Data -
③ Receive Data +
⑥ Receive Data -
④⑤ Power supply (connected)
⑦⑧ Power supply (connected)

Figure:

elmeg IP-S400Audio in / Audio out

The system telephone has an input ② and an output ③ for audio signals. These connectors are intended as a headset connector ⑥. The sockets are connected to the corresponding socket connectors for the headset on the base of the system telephone.
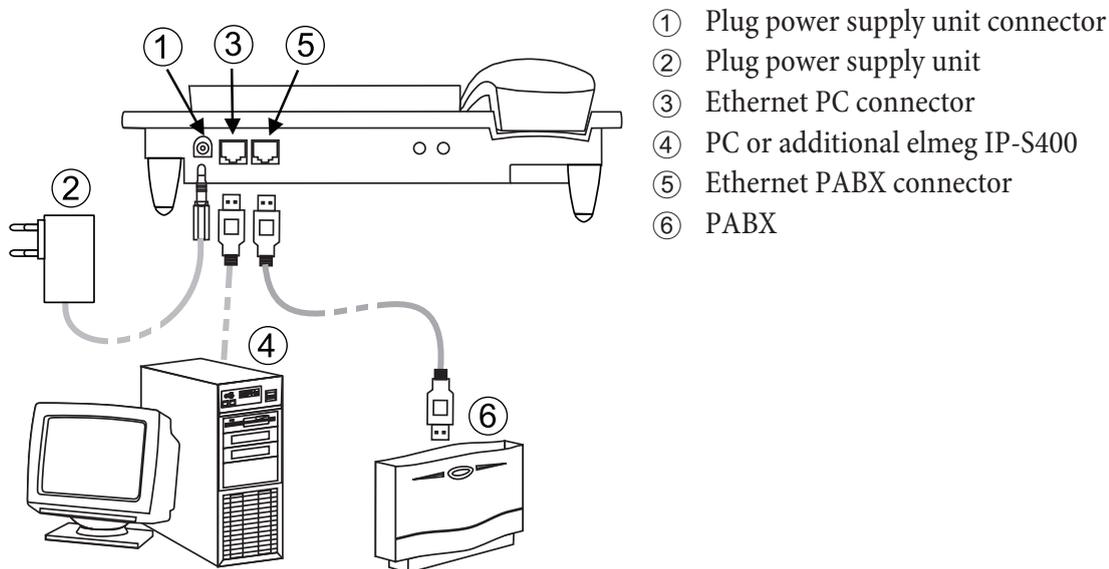
① Plug power supply unit connector
② Plug power supply unit
③ Ethernet PC connector
④ PC or additional elmeg IP-S400
⑤ Ethernet PABX connector
⑥ PABX

Figure:

Changing the label field

The labels for the function keys can be found on the sheet enclosed with this user guide. Remove the selected nameplate.
To change the plate, pull the flexible cover between thumb and forefinger and lift the cover upwards. The nameplate can then be changed.
In the Professional Configurator you can complete the label for your system telephone individually and then print it out. The WIN Tools CD ROM also contains an Adobe Acrobat file with templates that you can also complete and print.

Pictograms

In order to be able to demonstrate some of the processes involved for setting up and operating the system telephone in this user guide, the following pictograms (symbols) listed below were used.

Lift receiver or start preparing to dial.

☎	Replace receiver. The system telephone is idle.
📢	A call is signalled. The call melody sounds.
♪	You are in a call.
✳	A conference call is initiated.
⚊	You will hear the positive or negative acknowledgement tone.
▦	Choose call number, code, character or text.
✗	This symbol tells you to dial a particular code or character.
⓪ ⑨wxyz ＊ ♯	Press a specific key on the dialling pad.
⬬	Press a softkey.
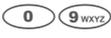
Press a softkey or an arrow key. Depending on the PABX, this key does not have to be pressed again if the display is different, as the function is already displayed or is not available.

#	If you enter a call number to dial via a SIP provider, the number dialled is output approx. 5 seconds after entering the last digit. If you end the call number with the hash key, the system dials automatically. The terminal must be able to dial the hash key in to the PABX.

System telephone settings

Connection and operation of the elmeg IP-S400 to the PABX / elmeg hybird (Basic operation with DHCP)

Please ensure your read the PABX assembly instructions in order to see which connectors are provided for connection to the elmeg IP-S400. Connect the connector to the Ethernet PABX connector on the system telephone.

- Configure the PABX for use with IP system telephones.

- Set the MSN of the IPS system telephones in the PABX.

- Connect the power supply (plug power supply unit) to the IP system telephone and wait until the system telephone has initialised.

If the IP system telephone is initialised, you will be prompted to choose a language in the display.

Select the display language. Press the arrow keys to select the languages that are available and confirm with ⓞ.

```
Which language?        →
Italiano
                  Español
Deutsch
            √English
Français
          Nederlands
```

Enter one of the MSN entered in the PABX
(in the example 12).
Confirm your entry with ⓞ.

```
Programm dial number

MSN−1>12
```

If no PIN is entered in the system configuration, press ⓞ and ⓞ again when prompted.

```
IPS login PIN for sys
        server

MSN−1>
```

Switch on 'Use DHCP'.
Select »on«.

```
Use automatic IP
  address setting

off
            on√
```

Telephone and PABX are synchronised.

☞ If there is no connection to the PABX (no LAN connection or the system telephone is not registered), the time in the display is replaced by »███−/ /█−▸«.

You can now use the IP system telephone like a system telephone on ISDN or UP0.

A complete description of the configuration can be found on page 81.

Possible error:

IP address, IP gateway, IP subnet mask, IP SYS server.
MSN is not entered in the PABX or is used multiple times.
A PIN / login name is entered in the PABX but not in the telephone.
No extension is set up in the PABX.

You can now use the IP system telephone like a system telephone on S or UP0 connectors.

Setting the display language

You can choose in which language the display is to appear.

Start as follows:

⬤ Press the arrow keys to see the languages that are available.

Press the softkey next to the chosen language. The display is immediately switched to the chosen language.

Which language?
Italiano
          Español
Deutsch
          English
Français
          Nederlands

System telephone display

① Date.
② Time.
③ 21 characters per line.
④ Arrow: Other menu items can be accessed using the arrow keys.
⑤ Answering machine button on system telephone (optional module).
⑥ Arrow: Information on softkey that can be pressed in the current menu.
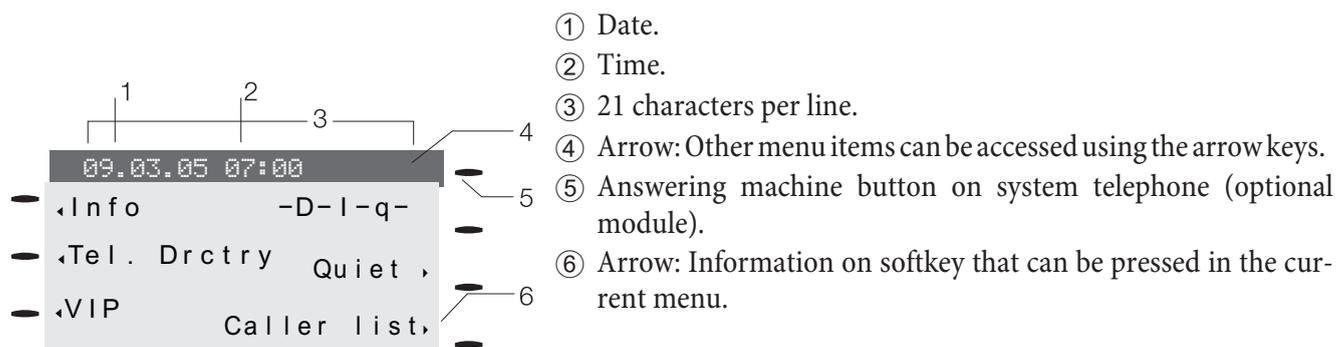
A cross »√« behind a display text indicates that this performance feature is enabled.

The system telephone has a 7-line display with background lighting. Background lighting is switched on or off automatically.
After connecting to the internal S/U connection, the PABX shows the date and time on the display. Both the date and time are automatically copied from the PABX. The other lines always contain the text displayed for a function next to the corresponding softkey. If you press the softkey, the next level is then displayed. If not all of the characters can be shown in the display, this is indicated by »«« or »»«. To view the other characters, press the R key and then the corresponding arrow key.

Various displays for the system telephone are included in this user guide to help explain the settings and operation. If only a few lines of the display are shown (the display is not shown with all 7 lines), this is indicated by a wavy line at the top or bottom.

Special feature when showing lists in the display

Multiple entries are shown simultaneously in the display for certain settings or operations. These lists are required, for example, for settings in the phone book or in the VIP memory.

The active (currently selected) entry is displayed with inverted colours. You can display other functions or selected an entry using the (Menu) or (OK)　keys.

```
V I P   d i g i t   t o   s e l e c t
              ↔
V 0 :
V 1 : . . . . . . . . . . . 0 1 2 3 4 5 6
V 2 : B e a t r i c e . . . . . . . . . .
V 3 :
```
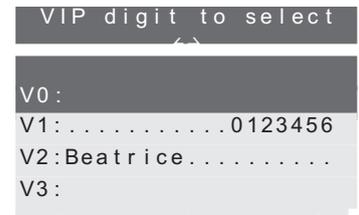
Special features for modifying existing entries

Various options are available for modifying existing entries (e.g. names or numbers).

Example 1:
You modify the number of a phone book entry, as the subscriber has moved.
Use the keypad to enter the first digit of the new number if the existing number is deleted completely. Enter the other digits of the new number.

Example 2:
You modify parts of the name of a phone book entry, as the surname has changed (e.g. after a marriage).
Press the arrow keys to select the entry position. You can overwrite the current surname immediately or delete the existing entry with the C key and then enter the new name.

Entering letters and numbers

If you press a key several times, you will see characters (letters or numbers) displayed in sequence.
For the text entry of letters, digits and special characters, the keys are assigned as follows:

Key	First press	Second press	Third press	Fourth press	Fifth press	Sixth press	Seventh press
1	1						
2 ABC	A	B	C	2	Ä	Å	Æ
3 DEF	D	E	F	3	€		
4 GHI	G	H	I	4			
5 JKL	J	K	L	5			
6 MNO	M	N	O	6	Ö	Ø	
7 PQRS	P	Q	R	S	7	ß	$
8 TUV	T	U	V	8	Ü		
9 WXYZ	W	X	Y	Z	9	¥	
*	*						
#	#						

The (0) key has a number of special characters on it.
E.g.: » ! «, » & «, » ? «, » + «, » − «, » = «, » («, ») «, » @ «, » $ «, ...

When the (0) is first pressed it inserts a space. If the key is pressed a second time, several special characters are shown in the display. To select a special character, press the allocated keys (1) ... (9 WXYZ). If you want to view other special characters, press the (0) key.

Input mode for letters

There are various options available for entering letters. The current input mode is shown at the top right of the display (no display, »Abc« or »ABC«).

No display   All of the letters entered are displayed in lowercase.
                 Example: »dean, james«.

»Abc«   The next letter entered is displayed in uppercase, all other entries are lowercase.
                 Example: »Dean, James«.

»ABC«   All of the letters entered are displayed in uppercase.
                 Example: »DEAN, JAMES«.

☞ At the start of text input, the input mode »Abc« is always active. To change the input mode, press the R key. To insert a character, press the C-key in »Abc« mode.

Call signalling

Calls are signalled using the ring tone set in the system telephone for the dialled number (MSN).

If you use the system telephone on the internal S-connector of the PABX, you can set a separate ring tone for internal and external calls for each number (MSN).

Function keys and LEDs

You can program the five function keys in two layers with various functions using the PC configuration for the system telephone. Each key has a two-colour LED that can be used to display the functions. Each colour is assigned to a layer of the function key (layer 1 - red / layer 2 - yellow).
You can reach the second layer of function keys by pressing the keys twice. This must be done quickly.

LED for call signalling and answering machine

Flashes red: Incoming calls

Lights up yellow: Answering machine on

Flashes yellow: New messages on the answering machine

Acknowledgment tones

Entries or settings on the system telephone can be confirmed with acknowledgment tones.

Positive acknowledgment tone (1 long tone):

The positive acknowledgment tone indicates that your entry was accepted and saved on the system telephone.

Negative acknowledgment tone (3 short tones):

You hear the negative acknowledgment tone if your entry has not been accepted by the system telephone or an incorrect entry has been made.

Display of the performance features set up

When the system telephone is at rest, additional information on the functions that are set up / performance functions are displayed in the »Info« line of the display. Example: »–t–S–r–«. For further information on the functions set, press the »Info« softkey .

If several functions are set, press the arrow keys to see the various settings.

```
29.05.07 07:21
Info-D-S-q-

Tel. drctry
                    Idle
VIP
          Caller list
```

```
Inhibit/Menu access:
Guard for modification
```

Additional display information

When the telephone is at rest, additional information on the functions that are set up is displayed in the top line of the display.

Display	Function set up
»D«	Active appointment set.
»I«	Dial control or call filter activated, Access to system telephone menus protected
»q«	»Do not disturb« function (only attention tone) set.
»Q«	»Do not disturb« function (complete) set. (All call tones are deactivated)
»U«	Call forwarding set up.
»i«	Information about programmed function keys E.g.: Announcement permitted / not permitted.
»I«	Information about messages (MWI) e.g. on your T-Netbox
»%«	Answering machine, time control, call forwarding or remote operation (optional module) on.

Additional keyboard

The additional keyboard is designed for being connected to the elmeg ISDN telephones CS400, CS410 and CS410-U. These telephones are equipped with a separate port for connecting the additional keypad.

The additional keypad is equipped with keys with inset LEDs:

Safety notes

Observe the safety notices and instructions in the user's manual for your telephone.

Unpacking and placing the additional keyboard

Unpacking

Additional keyboard, connection cable (8-wire, RJ45 - RJ45), 3 screws, support, assembly instructions.

Placing and cleaning

For placing and cleaning the telephone, please observe the instructions given in the operating instructions. These notes apply also to the additional keyboard.

Connecting the additional keyboard
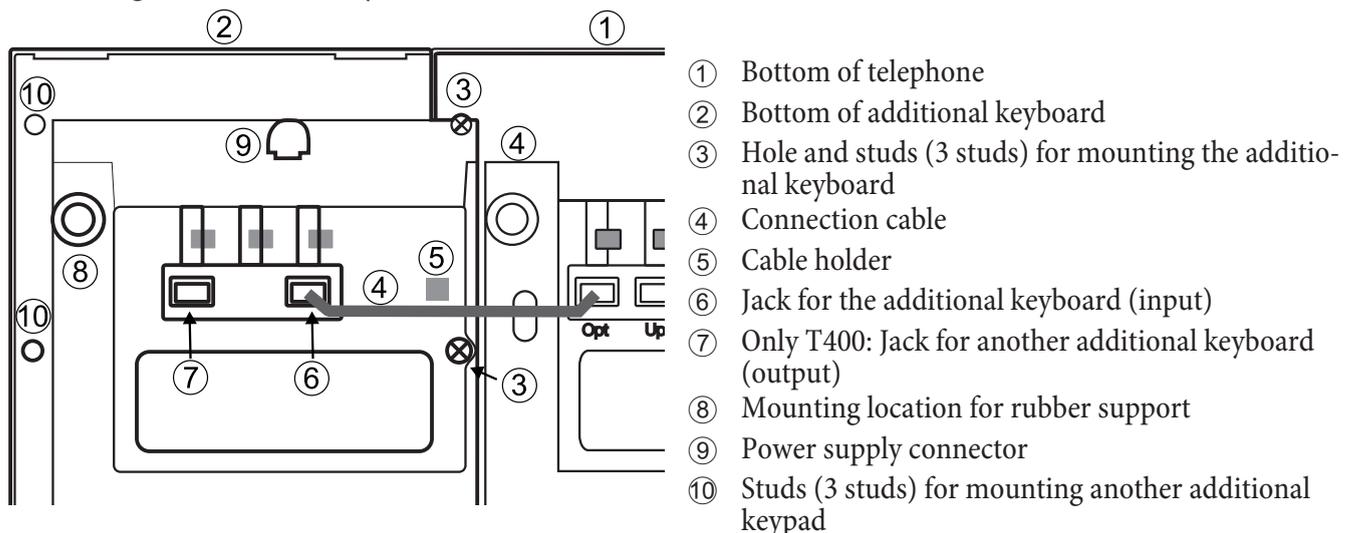
①   Bottom of telephone
②   Bottom of additional keyboard
③   Hole and studs (3 studs) for mounting the additional keyboard
④   Connection cable
⑤   Cable holder
⑥   Jack for the additional keyboard (input)
⑦   Only T400: Jack for another additional keyboard (output)
⑧   Mounting location for rubber support
⑨   Power supply connector
⑩   Studs (3 studs) for mounting another additional keypad

Installation procedure

- Unplug the ISDN connector for the telephone from the ISDN outlet.

- Place the front of telephone and the additional keypad on a soft surface. The nameplates must be able to be read from the front (see figure).
The additional keypad must be placed to the left of the telephone. The fixing holes in the additional keypad must be positioned over the corresponding screw domes on the telephone ③.

- Secure the additional keyboard with the supplied studs to the telephone ③.

- Connect the connection cable ④ as shown in the figure and secure it under the cable holder ⑤.

- Fasten the support ⑧.

- Now turn the telephone and additional keypad over and set them on the rubber supports.

- Plug the ISDN connector of your phone back into the ISDN outlet. After initialization (start-up) of your telephone the phone and the additional keypad are immediately ready for operation.

Programming the additional keyboard

Configure the function keys and the LEDs for the additional keypad using the Professional Configurator on the WIN-Tools CD-ROM for your telephone.

Changing the label

The label panels for the function keys are included on a separate sheet enclosed in the operating instructions. Cut out the label you wish to use.
To change the label panel, press the flexible cover together between your index finger and thumb and lift it out. The label panel can now be changed.
You can fill out and then print the label for your additional keypad using the Professional Configurator. Also available on the WIN-Tools CD-ROM is an Adobe Acrobat file containing templates that you can also fill in and print out.

Connecting further button boards (cascading)

Up to three additional keypads can be connected (cascaded) to your telephone. The additional T400/2 keypad is designed for operation at the end of a cascading line. A plug-in power supply is required if you use more than one additional keypad. Use only the approved power supply units available as accessory
(Plug-in power supply unit T400 / Ident-Number: 220872.5
Plug-in power supply unit T400-UK / Ident-Nummer: 220873.3).

Installation procedure

- Unplug the ISDN connector for the telephone from the ISDN outlet. Remove the plug-in power supply (if available).

- Proceed as described for the telephone and additional keypad.
  Secure the additional keyboard at the positions ⑩ marked in the illustration. Connect the connecting cord to the left jack ⑦ of the existing additional keypad and to the right jack ⑥ of the new module.

- Plug the plug-in power supply unit into the appropriate jack ⑨ for an additional keypad.

- Plug the ISDN connector of your phone back into the ISDN outlet. After initialization (start-up) of your telephone the phone and the additional keypad are immediately ready for operation.

Telephoning

Initiate a call

Dial call number - without option to make a correction

↰	▦	☎
	Dial call number	

Dial call number - with option to make a correction

↱	▦	↰	☎
	Dial call number		

To amend the call number or to correct an incorrect entry, select the incorrect digit with the arrow keys and press the C key to delete it. Then enter the correct digit.

If you want to carry out the call using the receiver, life the receiver after entering the call number. At any time during a call, you can switch back and forth between hands free, receiver and loudspeaker.

After you have entered a call number, you can also press the loudspeaker key in order to be able to select the call number and use the hands free system.

If it is not possible to connect a call (e.g. call number blocked by dial control) or the cost account of the number/MSN is empty), a message to this effect will appear in the telephone display; e.g.: »Blocked: Call no.«, if the dial control is activated.

If you have lifted the receiver and you are not connected, you can accept a call waiting via the »accept« softkey without having to replace the receiver. You will be notified of the call by a brief message. If you set up a connection key or a corresponding macro key, you can accept the call straight away by pressing the key.

Other options for dialling when the receiver is replaced

It is also possible to dial a number when the receiver is replaced and to correct or supplement a call number before dialling when calling:

- From the redial memory (see page 21).
- From the caller/message list (see page 33).
- From the phone book (see page 30).
- From the VIP memory (see page 32).
- Using the function keys (see page 19).
- Via the PABX CTI (TAPI) function (see page 88).

If you want to use one of these options, you can make further entries before initiating the call. You can determine, for example, whether or not a call number (MSN) is to be transmitted to the called party.

You can use the Professional Systel-Configurator to determine which functions are saved directly under the »Phone book« softkey: »local« or »PABX«. You can reach the second layer of functions by pressing the R key.

Select from the phone book on the PABX / elmeg hybird

If you are using the system telephone on a PABX with system telephony, you can dial from the phone book on the PABX.

⌄	R	⬤	▦	OK		OK	⌃	☏
		Phonebook	Enter the initial letters		Entry select			

Select from the phone book on the system telephone

You can save up to 250 names and telephone numbers in the phone book of your system telephone. To select a name, you can scroll with the arrow keys or enter the initial letter of the name you are looking for using the keypad.

⌄	⬤	▦	OK		OK	⌃	☏
	Phonebook	Enter the initial letters		Entry select			
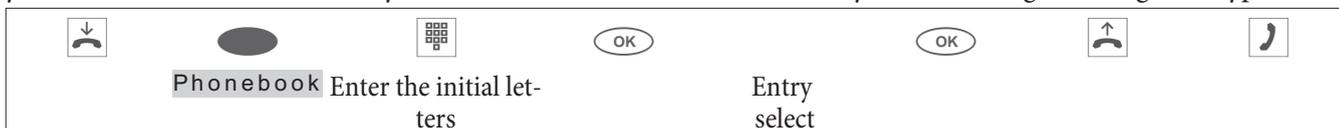
The procedure for programming and setting up the phone book is described on page 30 of this user guide.

Dialling from the VIP memory

You can programme a VIP entry for each of the 10 dialling keys consisting of a name (max. 20 characters) and a call number (max. 26 digits).

⌄	⬤	or	▦	⌃	☏
	VIP VIP destination select		VIP destination select		
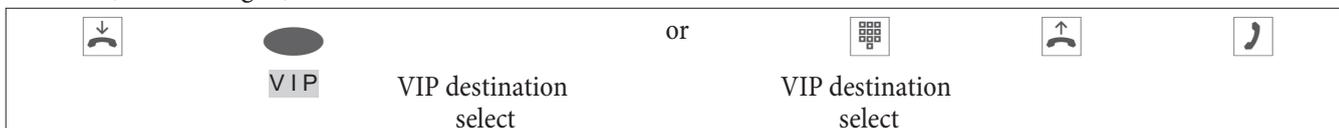
The procedure for programming VIP entries is described on page 32of this user guide.

Speed dial with function keys

Speed dialling is initiated using the function keys. You can programme functions or speed dials under each of the five keys.

⌄	▒	⌃	☏
	Pressing the function keys		
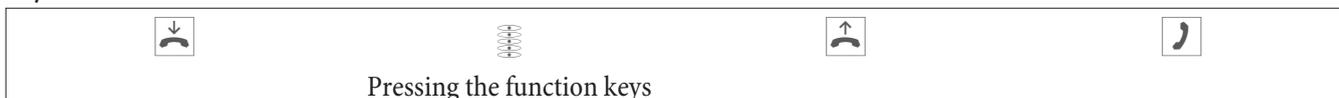
Dial the required call number using the function keys.
If you want to dial a number in the second layer, press the desired key twice. This must be done quickly.

Programming of the speed dial/function keys is done via the PC configuration or the advanced configuration of the system telephone.

Select from the caller/message list

The system telephone has a combined caller and note history. A maximum of 30 entries (calls, messages, SMS or UUS1 text messages) shall be possible in this list. Entries in the caller/note history are shown on the display by pressing the »Caller list« softkey.

⌄	⬤	⌃	☏
	Caller list	Select entry	
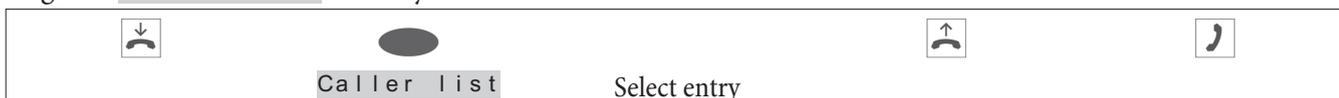
You will find further information on the caller /message list on page 33of this user guide.

Accepting/rejecting a call

With respect to the system telephone's basic settings, each call shall be signalled irrespective of the dialled call number (MSN). If two calls are signalled simultaneously, the first call is accepted when the receiver is lifted. The second call may continue to be signalled by means of the call waiting signal.
The number of the caller and the number dialled by the caller (MSN-1 … MSN-10, or assigned name) are shown on the system telephone display.

⤓	«▷»	↑	♪

If you are unable to or do not wish to accept a call, you can reject the call. Press the »r e j e c t« softkey and the call will no longer be signalled to your system telephone. If you are a member of a team, the call is signalled to other telephones in the team. If the call was only signalled to your system telephone, Busy is signalled to the caller after it has been rejected.

⤓	«▷»	⬤
		r e j e c t

Forwarding a call (Call Deflection)

If you are unable to or do not wish to accept a call, you can forward the call. Press the »t r a n s f e r« softkey in order to forward the call directly to another extension. The call number to which the call is due to be forwarded can be preset in the system telephone configuration for each call number (MSN).

After pressing the »t r a n s f e r« softkey you can either forward the call to the preset call number or enter a new call number.

⤓	«▷»	⬤	⌗	OK
		t r a n s f e r	Dial call number	

<$I[English]Initiate call;Without call number (CLIR)>Suppressing the call number (anonymous call)

If you do not want your call number to be sent to the called party, you can suppress the transmission of your call number. You can set this function specifically for the next call or permanently (see page).

Suppressing transmission of the call number for the next call

You can perform internal or external dialling so that the call number (MSN) is not transmitted from your system telephone to the called party.

⤓	⌗	OK	Menu	⬤	↑	♪
	Dial			c o n c e a l e d		

If a call is signalled, you can decide before accepting the call whether or not your call number should be transmitted to the caller. If your system telephone is the destination of a call diversion, you can use this procedure to prevent the call seeing the call number of the diversion destination (your number).

⤓	«▷»	⬤	⤓	♪
		c o n c e a l e d		

Initiating a call with a fixed call number (MSN)

You can perform internal or external dialling so that a specific number is transmitted from your system telephone to the called party. This call number must first be entered in your system telephone. During selection you will see the call number transmitted (»MSN−1«...»MSN−10«) or the name you have assigned to this call number (MSN).
You can initiate dialling with a fixed number as described below or use a programmed function key.

☞ In the WIN-Tools phone book manager you can assign an outgoing number (MSN) to each record.

⤓	⌗	OK	Menu	⬤	⬤	↑	♪
	Dial call number			MSN	MSN−1 ... MSN−10		

Redialling

The last number dialled is stored in the redial memory.

🔽	🔼	⬭	❩
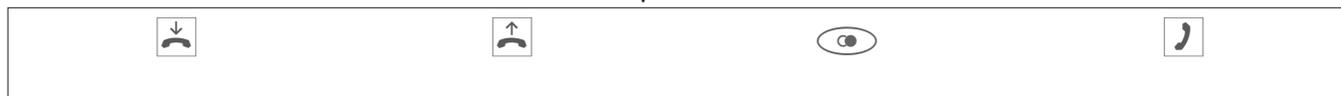
Advanced redialling

The call numbers of the last 20 calls, connections (calls) or text messages are stored in the extended redialling option. You can view and automatically dial these entries by pressing the redial key or the arrow key.

🔽	⬭	⬭	OK	🔼	❩
		Select entry			

The first entry displayed is the entry that was added most recently. A letter is displayed at the end of the second row to indicate the status of the entry.

»v«	Connection (Call)
»A«	Call
»M«	Mail (call numbers to which an SMS or UUS1 text message has been sent)
» I «	Calls for which automatic redialling has been set up.
no entry	You have called an extension, but not been able to reach it or the extension was busy.

Delete call number from the extended redialling option or transfer as message

⬇️	⬭	⬭	Menu	⬤	or	⬤
		Select entry		delete?		Note?

Press the »delete?« softkey to delete the displayed entry straight away. To transfer the entry to the message list, press the »Message?« softkey. The entry is deleted once it has been transferred to the message list. You will now see the next entry.

An entry in the message list of the system telephone is displayed with »Caller list«.

Transfer call number from the extended redialling option to the phone book

You can transfer a number the appears in the extended redialling list to the phone book of the system telephone (see page 30).

Start as follows:				
⬇️	⬭	⬭	Menu	⬤
		Select entry		Phonebook

▦	Enter the name.	Input telephone book
	Example: »Dean«.	
		Name>Dean`
OK	Confirm your entries with OK.	
	The corresponding name is now displayed in the redialling opti-on instead of the number.	5/Dean
		Memo?
		Tel. drctry

Automatic redialling

If you have selected an extension who is busy or who does not answer the call, you can initiate an automatic dial function in which the desired extension is selected again after approx. 10 seconds.

📞↓	⌨	☏	◉	or	⬤	📞↓
	Dial call number	Extension busy			autom. repeat request	

After approx. 10 seconds, the hands free function is switched on and the call number is automatically dialled. The system attempts to reach the extension for approx. 2 minutes.

If the extension is not reached, up to 20 call attempts are made. After 20 unsuccessful attempts, automatic redialling is terminated with a negative acknowledgment tone.

☞ If automatic dialling is switched on, this is indicated in the display by the »Autom. repeat request« softkey. Press the right arrow key or the »Continue« softkey to show the normal display in the idle state of the system telephone.

Interrupt automatic redialling

You can interrupt automatic redialling at any time by making another call. In this case press the loudspeaker/hands free key during automatic dialling.
At the end of the call, automatic redial is continued.

Deactivate automatic redialling

You can deactivate automatic redialling at any time. No other call attempts will then be made.

To deactivate automatic redialling during an automatic call, press the ⟨ESC⟩ key.

If you wish to deactivate the automatic redialling function when the system telephone is idle, please proceed as follows:

📞↓	⬤	⬤
	autom. repeat request	ok

Switching the microphone on/off, loudspeaker and hands free

Switching the microphone on/off

You can disable the receiver microphone or the microphone on the system telephone during a call. This prevents the called party from hearing any discussions in the room. You continue to hear the called party however.

☏	⬤	Room query	⬤	☏
	mute		speak	
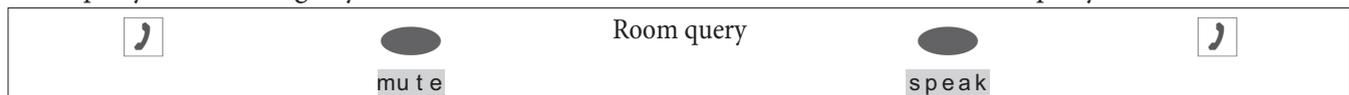
☞ The call duration or cost meter will continue to run whilst the microphone is switched off.

Loudspeaker

If other persons in the room wish to hear the call, switch on the loudspeaker. You continue to use the receiver during the call. You can change the volume during the call, as described on page 63.

Inform the other party that you are switching on the loudspeaker. The activated loudspeaker is shown in the display by »|«.

☎	◁	◁	☎
	Activate loudspeaker	Deactivate loudspeaker	

If you replace the receiver whilst the loudspeaker is activated, the receiver and loudspeaker are deactivated.

Hands free

When using hands free, the receiver is not used. The built-in microphone and the loudspeaker are activated. This can only be operated by using the loudspeaker / hands free button. You can switch to normal »receiver mode« whilst in hands free mode by lifting the receiver. If you want to switch to hands free mode when in normal »receiver mode«, re-place the receiver whilst pressing the loudspeaker / hands free button. In hands free mode, acoustic signals such as the call waiting signal are not transmitted.
Inform the other party that you are switching to hands-free. The activated hands-free function is shown in the display by » | «.

⤓	◁	⊞	◁
	Start hands free	Dial call number	End hands free

Using the headset

You can connect a headset to the system telephone. The headset is connected and set up as described on page 6. You can use either the receiver or the headset to make a call.

Switching the headset on/off

In order to operate the headset, a system telephone function key shall be set up in the form of a headset key. The LED assigned to this button indicates whether the headset is switched on or off (LED on/off).

⤓	⊙	⊞	☎	⊙
	Switch on the headset	Dial call number	Call using headset	Switch off headset
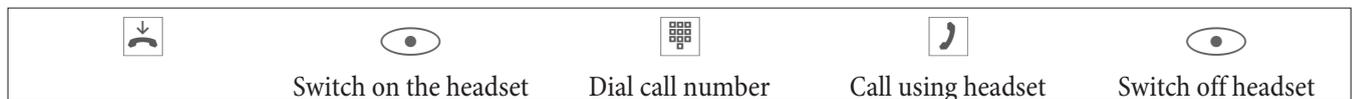
Switch loudspeaker on or off whilst using the headset

☎	◁	☎	◁	☎	⊙
Call over Headset	Switch on loudspeaker	Call using headset and loudspeaker	Switch off loudspeaker	Call over Headset	Switch off head-set
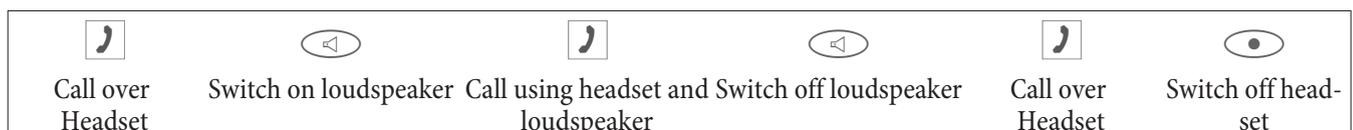
Announcement

The announcement function allows the internal connection to other telephones without them having to actively ac-cept this connection (i.e. lift receiver, switch loudspeaker/hands free on). This is a one-sided connection in which only the extension initiating the announcement is heard.
As soon as a telephone has accepted the announcement, the connection is established. With an announcement, enter the internal number of the desired extension. Even if there is an automatic outside line, you must only enter the inter-nal number. E.g. »`22`« instead of »`*22`«.

If your system telephone is the destination for an announcement, the call number of the announcer appears on the display. The announcement can be terminated with the ⎋ key.
The announcement is accepted automatically by activating the »loudspeaker« function, if:

- the system telephone is idle.

- the announcement is permitted in the PABX (can be controlled by the »`Enabling inter-com`« function key).

- the »Do not disturb« function is not active.

If the »Allow announcement« function key is programmed and enabled, announcements can be received when the »Do not disturb« function is on.

You can initiate an announcement using the procedure described below or using a programmed function key. An announcement can also be initiated during an existing connection (in hold for enquiry) using the function keys.

☞ You can only use this function if the announcement is released for your internal number (MSN) in the PABX.

Start as follows:

☎	Menu	● Acoustic	▶	● Message

▦	Enter the number on which the announcement is to be made and select an entry from the phone book.	`◁ Message  to`
		`                MSN-1`
		
		`Tel. drctry`

♪
 	
 ◁
	If at least one system telephone has accepted the announcement, the connection is established.
	To end an announcement, press the loudspeaker/hands-free key.
		`◁ Message 22`
		`00.24          MSN-1`
		`              Display`
		`memo`

Simplex operation

The simplex operation function allows an internal connection to be established to another system telephone without it having to actively accept this connection (i.e. lift receiver, switch loudspeaker/hands free on). This connection allows both parties to speak.
As soon as a system telephone has accepted the simplex call, the connection is established. If either party picks up the receiver during the simplex call, the call is converted to a standard connection.

☞ With simplex operation, enter the internal number of the desired extension. Even if there is an automatic outside line, you must only enter the internal number. E.g. »22« instead of »*22«.

If your system telephone is the destination for a simplex operation call, the call number or name of the caller appears on the display. Simplex operation can be terminated with the ⓔⓢⓒ key. Simplex operation calls are accepted automatically by by activating the »Hands free« function, if:

- the system telephone is idle.

- simplex operation is permitted in the PABX (can be controlled by the »allow simplex operation« function key).

- the »Do not disturb« function is not active.

If the »Allow simplex operation« function key is programmed and enabled, simplex operation calls can be received when the »Do not disturb« function is on.

You can initiate simplex operation using the procedure described below or using a programmed function key.

☞ You can only use this function if simplex operation with system telephones is released for your internal number (MSN) in the PABX.

Start as follows:

📞↓	(Menu)	⬤ Acoustic	▶	⬤ Intercom

⬚	Enter the number on which the simplex operation is to be carried out and select an entry from the phone book.	◁ Speak to MSN-1 Tel. drctry
♪	If the system telephone has accepted simplex operation, the connection is established.	◁ Intercom 22 00.25 MSN-1 Display memo
◁)	To end a simplex call, press the loudspeaker/hands-free key.	

Automatic callback

You can reach a subscriber who is currently busy or not close to his phone by using the automatic callback function. You then receive a message stating that the extension for which a callback has been set up can now be called. This message is displayed for external callbacks from the exchange and for internal callbacks from the PABX.
The system telephone display then indicates »Autom. callback«. This display alternates every 2 seconds between the number or name of the desired party. As soon as you accept this notice (by lifting the receiver, for example), the selected subscriber is called automatically.

Completion of call to busy subscriber (CCBS)

When you call the desired connection, you hear the engaged tone. With »Callback on Busy« you can reach the engaged person once they have replaced the receiver at the end of the call.

Call completion on no response (CCNR)

When you call them, you always hear the ringing tone, but your business partner is not close to the telephone and does not pick up. With »Callback on no reply«, you can reach the subscriber as soon as they have completed a call or lifted and replaced the receiver of their telephone.

Setting up callback

📞↑	⬚	♪	⬤ Clbckbusy	📞↓
	Dial call number	Extension is busy or no reply		

The »Clbckbusy« softkey is only displayed if it is possible to set up an automatic callback in the exchange or in the PABX. For external calls the performance feature »Callback on busy« or »Callback on no reply« must be requested from your network provider.

You can define up to 3 callbacks. If you use an LCR procedure, an automatic callback is always performed via the standard network operator.

☞ If automatic callback is switched on, this is indicated in the display by the »Clbckbusy« softkey. Press the right arrow key or the »Continue« softkey to show the normal display in the idle state of the system telephone.

Viewing and deleting initiated callbacks

When the system telephone is at rest, initiated callbacks are indicated in the display by the »Clbckbusy« softkey. To view callbacks, press this softkey. You can now view the individual callbacks using the arrow keys. If you wish to

delete a callback, you can select this by using the arrow keys, then press the (Menu) key and finally the »d e l e t e ?« softkey.

Initiated callbacks are deleted automatically after a specified time. This time is defined for external callbacks by the network operator and for internal callbacks by the PABX.

☞ If the system telephone is disconnected from the ISDN network (e.g. system telephone ISDN plugs unplugged, PABX switched off or reset), then any requested callbacks are deleted.

Park (only elmeg CS410and CS410-U)

Parking allows you to interrupt a call for up to 3 minutes. You can then remove the system telephone connector from the ISDN socket and reconnect the system telephone in another room. After »unparking, you can then continue this call. A parked call can also be «unparked« on another system telephone and continued from there.

Parking is only possible if only one connection exists on your system telephone. After unparking, the number of the parked extension is no longer displayed.

To ensure that you can reconnect to your call, if two calls are parked each call is assigned a »park code« from 0 to 99 when parked. The park code 55 is entered in the basic settings.

☞ If you have parked two calls on an ISDN bus, this bus must be blocked for calls. Unparking is only possible on the bus on which the call was parked. Parking is only possible if only one connection exists on your system telephone.

Parking

Call	park	Enter park code	OK		Remove and reinsert connector

Unpark

		unpark	Enter park code	OK		Call
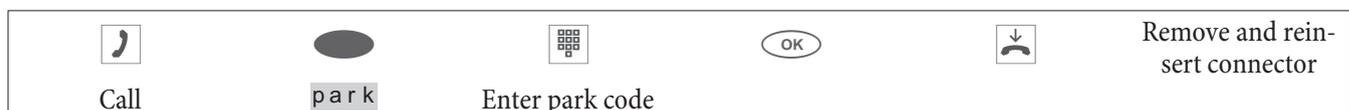
Intercept (MCID) (only via the S/U connector)

This performance feature is not currently supported by elmeg hybird!

If you receive a malicious call, you can save the caller's number in the exchange.
The Trace (MCID) performance feature must be requested from the network provider for your ISDN connection.

☞ Identification is carried out in the exchange and is recorded under the caller's number, date and time.

You can use this performance feature in two situations.

During a call

☎	You want to identify the extension.	▻ ⬤	The call number can now be determined in the exchange.	⤓
Call with extension		mc i d		

After the caller has replaced the receiver

☎	You want to identify the extension, but the caller has already replaced the receiver.	⬤	The call number can now be determined in the exchange.	⤓
Call with extension		mc i d		
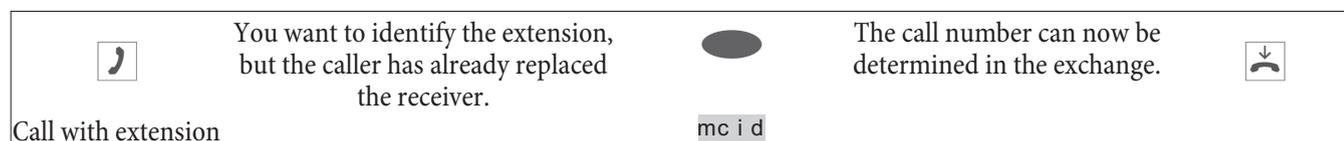
☞ If you make a call using hands free on the system telephone, you can only initiate an intercept during the call.

Keypad and tone dialling (MFC dialling)

When connected you can use other performance features by using keypad sequences or MFC dialling. When configuring the system telephone you can determine in the basic settings whether keypad sequences or MFC dialling are possible or not when connected. The display shows which functions (keypad or MFC) are available.

Softkey »Keypad« is displayed.   MFC sequences can be entered immediately. The keypad is only displayed after pressing the softkey.

Softkey »MFC« is displayed.   Keypad sequences can be entered immediately. MFC is only displayed after pressing the softkey.

☞ Keypad and MFC sequences can also be stored on the function keys so that they remain available when connected.

Keypad

The keypad function allows you to control service or performance features in the PABX or in the operator's network by entering character and digit strings. Consult your network operator or check out the PABX user guide to see if »DTMF« is supported or not.

☎	⬤	▦
	Keypad	Enter character and digit string

Tone dialling (DTMFdialling)

By using the DTMFdialling function you can send multifrequency signals (DTMF) during an existing connection (call) in order to request an answering machine for example or to use a mail system. If there is a call waiting whilst there is an existing connection on the system telephone, you cannot use the DTMFoption.

☎	⬤	▦
	DTMF	Enter character and digit string
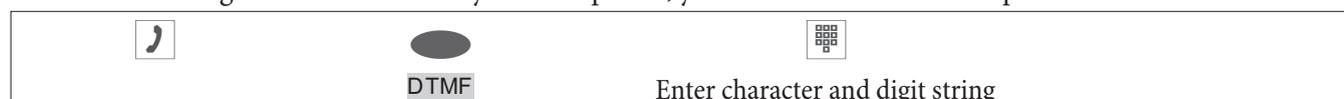
Telephoning with several people

Call Waiting

If you have enabled call waiting for your system telephone (see page 70), you are available to other callers during an existing connection.

♪	Call waiting (Extension 2)	⬭ accept	♪
Call with extension 1			Call with extension 2; Extension 1 is on hold

☞ You can accept, reject or transfer a waiting call to another extension. If you already have four connections on your system telephone, you cannot transfer any more calls (pass).

Hold for enquiry

During an existing call, you can put up to three further connections on hold. To initiate a hold for enquiry connection you can use the MSN key or a line key.

♪	R	⊞	♪
Call with extension	Extension 1 is on hold	Dial call number	Call with extension 2

If you want to establish other connections, proceed as described.
Pressing the Disconnect button ends the active connection and returns you to the last held connection. As soon as there is no held connection, a new connection is established.

Call transfer in hold for enquiry to an engaged extension

This performance feature is only possible with an extension on hold. You want to forward a call in hold for enquiry to another engaged extension.

♪	R	⊞	♪	⬭ transfer	☍
Call with extension 1	Extension 1 is on hold	Dial dial	Extension 2 is busy		Replace receiver
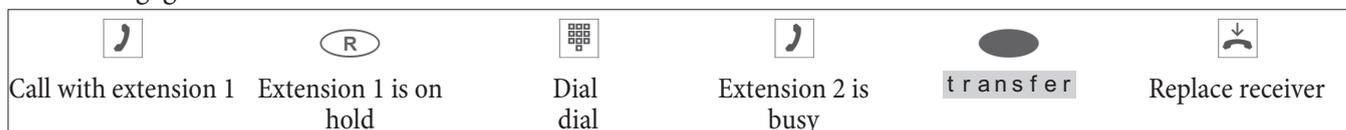
Extension who is on hold shall hear music on hold. If Extension 2 hangs up, the call with Extension 1 then takes place.

Call forwarding (call transfer)

When transferring a call, the active extension and the extension of the last held connection are always connected.

You can carry out a hold for enquiry (e.g. to announce the call) or transfer the call directly without announcement.

♪	R	⊞	♪	⬭ transfer
Call with extension 1	Extension 1 is on hold	Dial call number	Call with extension 2	
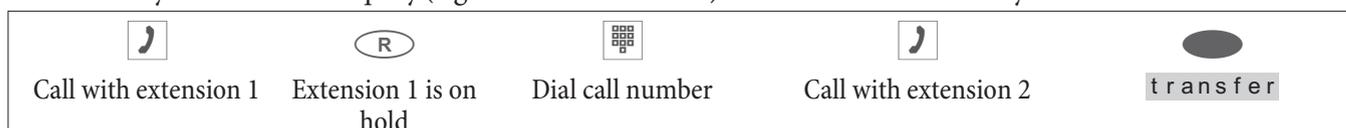
☞ Please note that when transferring two external parties, this performance feature (ECT - Explicit Call Transfer) must be supported by the PABX or, if you use the system telephone directly on the NTBA, by the network operator.

Brokering

If you have more than one active connection on your system telephone as a result of call waiting or holding (max. 4 connections), you can speak alternatively with these extensions (brokering). Depending on the number of connec-

tions on hold, there are up to 4 softkeys (»conn1«,... »conn4«) available to you. If the number of name of the called party is recognised, the name or number is displayed in place of the text »Connection«.

♪	▶	⬤	♪	▶	⬤	♪
Call with extension		Connection 1 ... Connection 4	Call with desired extension		Connection 1 ... Connection 4	Call with desired extension

If you have set up line keys, transferring between the various extensions is also possible using these keys.
To terminate an active connection, press the disconnect key. You then return to the last held connection.

In addition to the softkeys, you can set up up to four »Connection keys« on the system telephone or the extension. This provides keys that allow the status of the connection (no connection, active connection, rest) to be identified from the assigned LEDs.

Conference

If you have a connection on hold on your system telephone (see hold for enquiry page) and an active connection, you can initiate a conference call with both extensions. All three extensions can speak to one another.
Conference calls are not possible with more than two (2) connections at your system phone.

♪	⬤	✳
Call with extension 1/extension 2 is on hold	Conference	Conference with extension 1 and extension 2

In order to end the conference, press the »back to« softkey. You are then reconnected to the extension with the last active connection. The other extension is now back on hold.

Operate system telephone

Phone book

You can save up to 250 names and telephone numbers in the phone book of your system telephone. To select a phone book entry, you can scroll with the arrow keys or enter the initial letter of the name you are looking for using the keypad.

> If when a call is received the caller's name is displayed instead of the number, it means that the name and number of the caller must be entered in the phone book. The phone number must be saved with an area code and if using a PABX with a dialling code.
> The caller's name is only displayed if the number transmitted matches the number stored in the telephone book.

If the system telephone is disconnected from the ISDN network and then reconnected, or if data for the phone book is transferred via the PC program to the phone book, the phone book is reorganised internally. This process is carried out automatically and may take several minutes. During this time, you will not be able to access the phone book on the system telephone.

Name and number

Each phone book record consists of a name (max. 20 characters) and a number (max. 26 digits). For the text entry of letters, digits or special characters, the keys are assigned as described on page .

Outgoing call number (MSN assignment)

You can assign a number to each entry (»MSN-1« ... »MSN-10«), which is then transmitted to the called party when making an outgoing call. To establish a connection with this preset number (MSN), first dial the selected phone book record in the dial preparation and then lift the receiver. If you establish a connection using a MSN assignment key, the number (MSN) for this key is transmitted to the called party.

The setting for the number (»MSN-1« ... »MSN-10«) that is transmitted to the called party, is made using the phone book manager on the WIN-Tools CD-ROM. If you do not assign a number or assign an incorrect number (not available in the system telephone) to an entry, the first number entered in the system telephone (»MSN-1«) is transmitted.

Special ring tone (VIP ring tone)

For each entry you can set a special ring tone and volume. If a caller transmits the corresponding number, the call is signalled with the special ring tone. This take priority over the call melody assigned to the dialled number (MSN).

Information message

You can save an information message for each entry. The information message is displayed if:

- A phone book record is selected during dial preparation with the ⬭OK key.

- The »Info« softkey is pressed when signalling a call.

- The »Display« softkey is pressed during a connection.

The length of the information message is limited to 42 characters. For the text entry of letters, digits or special characters, the keys are assigned as described on page .

Add phone book record

Start as follows:

☎	Menu	● Program nos.	● Tel. drctry	● New

⊞   Enter the name.
    Example: »Mustermann«.

⊙OK   Confirm your entries with ⊙OK.

```
Input  telephone  book


Name>Dean_
```

⊞   Enter the call number.
    Example: »0123456«.

⊙OK   Confirm your entries with ⊙OK.

```
Input  telephone  book


Number>01122334455_
```

Only free keys can be configured over the system telephone on the elmeg hybird.

Edit phone book record

Start as follows:

☎	Menu	● Program nos.	● Tel.drctry.	● List	⊞ Enter the initial letters	OK	OK Select entry

⊞   Change the name as described on page 12.
    Example: »Dean, James«.

⊙OK   Confirm your entries with ⊙OK.

```
Change  tbook  data
        input
(Abc)

Name>Dean,  James
```

⊞   Change the call number as described on page 12.
    Example: »01122334455«.

⊙OK   Confirm your entries with ⊙OK.

```
Change  tbook  data
        input


Number>01122334455_
```

Delete phone book record

Start as follows:

☎	Menu	● Program nos.	● Tel. drctry	● delete	⊞ Enter the initial letters	OK	OK Select entry

Set up special ring tone (VIP ring tone) for phone book entry

Start as follows:

☎	Menu	● Program nos.	● Tel. drctry	● Sp. ton. call	Select entry	OK

⊙OK   Press the arrow keys to select the call melody.

    Confirm your selection with ⊙OK.

```
Dean,  James          ↔
Melody

          ▓
```

OK	Press the arrow keys to set the volume. Confirm your entries with OK.

```
Dean, James          ←→
volume

      –  ▓▓▓▓ ─  +
```
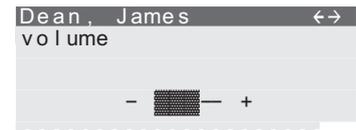
Set up information message for phone book record

Start as follows:

↓☎	Menu	Program nos.	Tel. drctry	Info	▦ Enter the initial letters	OK Select entry	OK

▦	Enter the corresponding information for the phone book record.
OK	Confirm your entries with OK.
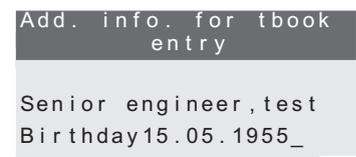
```
Add. info. for tbook
        entry

Senior engineer,test
Birthday 15.05.1955_
```

VIP memory

You can programme a VIP entry for each of the 10 dialling keys consisting of a name (max. 20 characters) and a call number (max. 26 digits).

This performance feature is not stored in the elmeg hybird.

Programme VIP entry

Start as follows:

↓☎	Menu	Program nos.	VIP	New	Select VIP destination	OK

▦	Enter the name for the selected VIP destination. Example: »Dean«.
OK	Confirm your entries with OK.
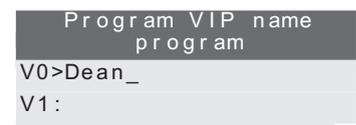
```
Program VIP name
     program
V0>Dean_
V1:
```

▦	Enter the call number. Example: »012345«.
OK	Confirm your entries with OK.

```
Program VIP number

V0>012345_
```

Edit VIP entry

Start as follows:

↓☎	Menu	Program nos.	VIP	List	Select VIP destination	OK

▦	Change the name as described on page 12. Example: »Dean, James«.
OK	Confirm your entries with OK.

```
Program VIP name

V0>Dean, James_
```

⌨   Change the call number as described on page 12.
            Example: »01122334455«.

OK   Confirm your entries with OK.

```
Program VIP number


V0>01122334455_
```

Caller and message list

The system telephone has a combined caller and note history. A maximum of 30 entries (calls, messages, SMS short messages or UUS1 text messages) shall be possible in this list. Entries in the caller/note history are shown on the display by pressing the »Caller list« softkey. The most recent entries made are always in the list. The last entry added is displayed first.

When you press this softkey the number of new calls and memos is shown on the display (for example: »New calls: 4!«) and together with the number of new SMS or UUS1 messages (for example: »Messages: 2«).

You will also see the number of the entry and the number of all entries in the list before each entry.
E.g.: »3/10: 1122334455...... *«.

If the call number of an entry in this list is the same as the call number of a phone book record (phone book on the system telephone or PABX), the corresponding name is displayed instead of the call number. You can view the time, date and further information (provided it is available) for each entry. If you lift the receiver whilst viewing an entry, the corresponding number is dialled automatically. Individual entries can be deleted individually from the list.

Caller history

Calls that you do not accept that you intentionally reject are saved in the caller history.
If a call is completed with a subscriber in the caller list (you call him or he calls you), the entry is deleted automatically and carried over to the redial memory.

Message list

In the message list you can save call numbers. You cannot save letters or other characters in a message entry. If a call is completed with a subscriber in the message list (you call him or he call you), the entry is deleted automatically and carried over to the redial memory.
You can enter a memo during a call or whilst the system telephone is idle. The following entries can be made in the memo list:

- Manual entry.

- Number from the VIP memory.

- Number from the phone book.

- Number from the destination number memory (function keys).

- Number from the redial memory.

SMS/UUS1 messages

This performance feature is not currently supported by elmeg hybird!

If you have received new messages, the number of messages received is displayed when the system telephone is idle. In the caller history you can see the number or the name of the sender and an indication of the message type (SMS or UUS1). After pressing the menu key you can read the message received either straight away or you can save it in the list of SMS or UUS1 messages to read later.
If you have already viewed a new message in the list of saved UUS1 or SMS messages, the corresponding entry in the caller list is deleted.

UUS1 block

You can approve and block the receipt of internal and external UUS1 messages using the Professional Configurator or the system telephone. MWI - Message Waiting Indication (e.g.T-NetBox).

The T-NetBox is an answering machine that is available in T-Com, the network of Deutsche Telekom AG. The performance feature MWI displays a notice as soon as a new message is received in your T-NetBox.
The notice is saved as an entry in the caller list. By selecting the entry and lifting the receiver, you can connect to your T-NetBox, for example, in order to listen to new messages. The entry in the caller list is automatically deleted, if no new messages appear, e.g. on the T-NetBox. You can also delete the entry manually.
You can only use this function if your network provider and the PABX support the MWI performance feature.

Viewing the caller history

The system telephone is idle. The »`Caller list`« softkey in the bottom line of the display indicates if an entry exists in the caller history.
Press this softkey.

```
UUS:2   08:00    ↔
Tel. drctry
                    Idle
VIP
            Caller list
```

The entries in the caller list are displayed at the bottom of the screen. The active entry (selected with the arrow keys) is displayed with inverted colours.

```
Call Today       ↔
07:21         MSN-1
1/09:Miller office..
2/09:BEATRICE.....  *
3/09:123456.......  n
4/09:Purchasing....  *
```

In the first line of the display you will see the selected entry type (»`Call`«, »`Memo`«, »`UUS`«, »`SMS`«), the date (for the first two days »`Today`« or »`Yesterday`«), the time and the dialled number (MSN).

»`*`«	new call, UUS1 or SMS text message.
»`a`«	Call.
»`n`«	Memo
»`l`«	Call rejected via the call filter.
»`I`«	Information about messages e.g. on your T-Netbox (MWI).

☞ When you view the caller history again, call entries that you have already seen but not deleted will be marked with »`a`« instead of with »`*`«.

You can view other entries by using the arrow keys.

```
UUS  Yesterday   ↔
15:24
5/09:112233445566.  n
6/09:Sales*
```

Further information about a call / message

(Menu)   If you want to view the information for a record, select this with the arrow keys and then confirm with the menu key.

```
Call Today       ↔
07:21         MSN-1
1/09:Miller office  *
2/09:BEATRICE.....   *
```

●   You can delete the number, transfer it to the phone book or view additional information on the selected entry.
Press the »Info« softkey for example.

```
1/Miller office      →
Call today    07:21
MSN-1            Info
Tel. drctry

delete?
           continue
```
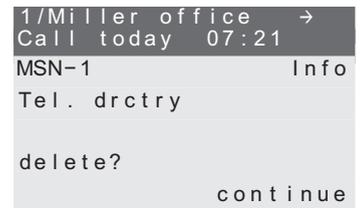
©   You will now see information on the call. If not all information can be displayed, press the arrow keys to display further information.
Press the C key to exit the menu. You can then use one of the other options.

```
1/Miller office
0123456789
to MSN-1
(& MSN-2)
Call today       07:21
( 2 x Call )
```
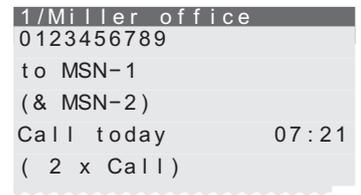
»delete?«   The entry is deleted immediately.

»Info«   Viewing other information on the received call.
E.g.: The number for which the message was sent and the number of the sender.

»Tel. drctry«   Transfer the caller's number to the system telephone phone book.

»continue« View the next record in the caller history.

Further information on a text message (SMS / UUS1)

Menu   If you want to view the information for a record, select this with the arrow keys and then confirm with the menu key.

```
UUS  Yesterday    ↔
15:24          MSN-5
5/09:112233445566   n
6/09:Sales
*
```

●   Press the »read« softkey for example.
▶   Note: After pressing the right arrow, you will also see the »Tel. drctry« softkey.

```
1/Sales           →
UUS  Yesterday  15:24
MSN-5           Info
read
             Save
delete?
          continue
```

←

       The arrow (»←«) in the first line shows that a text message has been received.

```
* UUS 01/06 ↓
Sales............
Thanks! Let s meet
at 15.30
```

▶   If not all of the message is displayed, press the arrow keys to view the full message.

OK   To stop displaying the message, press OK. You can then use one of the other options.

»save«   Save the message in the corresponding text message list and delete the entry from the caller list.

»delete?«   The message is deleted immediately and is not added to the text message list.

»Info«   Viewing other information on the received message.
E.g.: The number for which the message was sent and the number of the sender.

»Tel. drctry«   Transfer the sender's number to the system telephone phone book.

»continue«   View the next record in the caller list.

Delete the caller/message list

Deleting an entry

↓⌣	⬤		Menu	⬤
	Caller list	Select entry		delete?
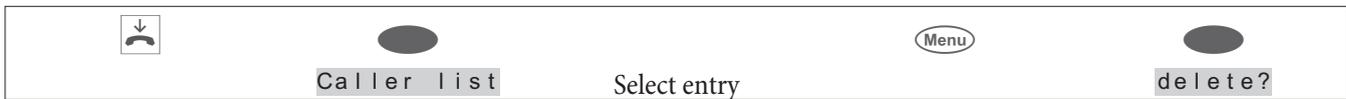
Delete all call records

You can delete all call records in the caller/message list together. Received text messages (SMS / UUS1) are not deleted.

↓⌣	⬤		Menu	▶	⬤
	Caller list	Choose call record			Delete all calls?

Transfer number to the system telephone phone book

Start as follows:

↓⌣	⬤		Menu	⬤
	Caller list	Select entry		Tel. drctry

▦	Enter the name. Example: Dean.	Input telephone book
OK	Confirm your entries with OK.	Name>Dean`
	The corresponding name is now displayed in the caller/message list instead of the number.	5/Dean Call today 08:12 Info
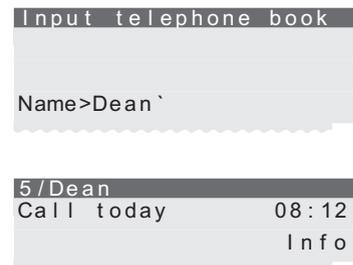
Add message

You can add a message number from:

- The system telephone phone book (softkey »Tel. drctry«).
- The speed dial memory / function keys (softkey »direct«).
- The VIP memory (softkey »VIP«).
- The redial list (softkey »retry« or redial key).
- or enter a new number (softkey »new«).

A new number is added as a message in the following example.

Start as follows:

↓⌣	▶	⬤	⬤
		memo	New
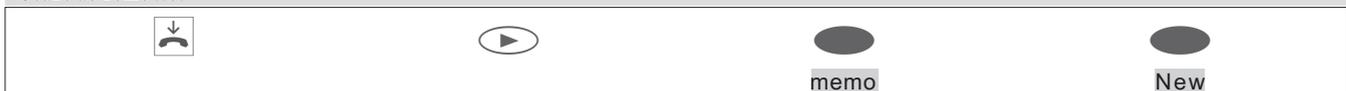
⊞ Enter the number to be saved as a message.
Example: »0123456«.

⊙OK Confirm your entries with ⊙OK.

```
Memo  number  create


>0123456_
```

SMS and UUS1 text messages

You can use the system telephone to send or receive SMS or UUS1 text messages (SMS - Short Message Service, UUS1 - User to User Signalling). A text message is entered using the system telephone keypad. For the text entry of letters, digits or special characters, the keys are assigned as described on page .

You can only send and receive text messages if the sender transmits his number and if this is displayed to the recipient. Text messages without a transmitted call number are not transmitted or displayed in the system telephone.

The receipt of a text message is signalled with two short attention tones on the system telephone. When the system telephone is idle, the number of messages received is displayed and a reference to these is displayed in the list of callers.

SMS text messages (available depending on the network operator)

SMS enables you to send text messages to other telephones in the fixed network or to mobile telephones, and to receive these messages from them. The length of an SMS is limited to 160 characters. Up to 4 SMS can be linked automatically with up to 612 characters. Switch from one SMS to the next using the softkey.

You can only send and receive SMS text messages:

- If you are using the system telephone on a PABX with system telephony that supports the SMS performance feature.

- If you have registered for this performance feature with the network operator or the provider of the SMS centre for your ISDN connection.

- If the call number of the SMS centre is saved in the system telephone.

Please consult the provider of the SMS centre to find out in which networks (mobile, fixed) SMS messages can be sent and the cost of sending and receiving SMS messages. The system telephone does not support the transmission of SMS messages with special content (e.g. pictures, ring tones).

The SMS messages that are received and sent are saved in two separate lists in the system telephone. 10 received SMS messages and 10 sent SMS messages can be saved. A maximum of 5 linked SMS can be saved (in twos or fours). System telephones that do not support linked SMS will receive these as individual SMS.

Please note that there must be free memory available in order to be able to save SMS messages. If you have already saved 10 received SMS messages then you cannot receive any more SMS messages.

After sending an SMS, you can save this in the list of sent SMS. If this list is full, the last sent SMS is saved temporarily.

UUS1 text messages

You can send text messages from one system telephone to another without having to call this extension. The length of an UUS1 text message is limited to 31 characters.

☞ The sending of UUS1 text messages shall be possible to both internal and external telephones. You can only make use of this performance feature to external telephones if »UUS1 (User to User Signalling)« is activated for your ISDN connection.

Please note that all terminals involved (system telephones and PABX) must support the performance feature »UUS1 (User to User Signalling)«.

The UUS1 text messages that are received and sent are saved in two separate lists in the system telephone. 10 received UUS1 messages and 10 sent UUS1 messages can be saved.

Please note that there must be free memory available in order to be able to save UUS1 text messages. If you have already saved 10 received UUS messages then you cannot receive any more UUS1 messages.

After sending an UUS1 text message, you can save this in the list of sent messages. If this list is full, the last sent UUS1 message is saved temporarily.

Creating and sending a text message

You can send a text message to a call number saved in the system telephone (VIP memory, function key or automatic dialling list) or enter a new call number to send it to. In the »Send mail« menu press the corresponding softkey »Phone book«, »Tel. drctry«, »VIP«, »New« or »Redial«.
To select a number assigned to a function key (»direct«) or stored under the redial button, you can also press that corresponding key.

When sending a text message, the first (»MS.-1«) entered in the system telephone or the call number defined via the user key is transmitted.

Start as follows:

☎↓	▶	● Message	● SMS or UUS	● Send mail

Example: Create UUS1 text message

⊞	Enter the text. Example: »Meeting 9.30 to 11.00 a.m. George«.	Send mail UUS>Meeting 9.30 to 11. 00 a. m. Geor_
OK	Confirm your entries with OK.	

●	Press the corresponding softkey to dial a call number saved in the system telephone or the »new« softkey to enter a new call number. E.g.: »New«.	Send mail / UUS
		
		        Repeat
		Tel. drctry
		        New
		VIP
		        direct

⊞	Enter the call number. E.g.: »2200«.	Define targt. numb. >2200_
OK	Confirm your entries with OK. The text message is sent to the recipient.	

●	You can then save the text message in the corresponding list of sent messages (softkey »Yes«) or temporarily (softkey »No«).	Save memo? No ok

Important notes on entering the call number for sending SMS messages

If the performance feature »Automatic Outside Line« for your system telephone is switched off in the PABX, you must enter the dialling code before entering the destination number. In addition the dialling code must be saved in

the system telephone.
When the telephone is connected to a PABX with automatic outside line, you can enter the destination number directly.

Send linked SMS

You can link up to 4 SMS. A counter in the display shows the number of characters remaining. At the end of the first mail, you are prompted to specify whether or not a linked mail should be sent. If you answer yes, a message showing the free capacity remaining is displayed. If you answer no, the entry of the last character is ignored and the SMS is sent as described for non-linked SMS.

In the example »451 available« shows the number of free characters remaining and ⍁ indicates the first SMS block out of 2 used. You can scroll between the blocks using the arrow keys. If insufficient memory is available to save a linked SMS, the message is only saved temporarily.

```
Send mail
451 free  123 (Abc)
You can link up to 4
SMS messages
together. A counter
in the display space
indicates therem
```

View new text messages received

You can view a new message from the caller history (see page 33) or from the list of received text messages. If you have already viewed a new message in the list of received text messages, the corresponding entry in the caller history is deleted.

Viewing received or sent text messages

When viewing received or sent text messages, you can access the following functions:

- Resend a text message.
  Before sending, the text message can be modified.

- Delete a text message.

- Transfer the number to which a text message has been sent or from which has text has been received to the system telephone phone book.

- Transfer text message to the list of saved text messages (only UUS1).

Start as follows:

| ⤓ | ▶ | Message | SMS or UUS | read,Inbox or read,Outbox |

Example: Read received UUS1 text message

The text message added last is displayed first. A new text message that has not been read is marked with »*«. The following information can be displayed for a text message:

- Number of the text message in the list (Example: »01/06«).

- Received (»↓«) or sent (»↑«) text message (in the example: »↓«).

- Call number to which a text message was transmitted (Example: »MS–1«).

• Call number of the sender / Recipient of the text message (Example: »2200«).

OK Press the arrow keys to see the full text message.
Press OK to access a menu with further options.

```
* UUS 01/06 ↓
MSN-1
2200. . . . . . . . . . . . . . . .
I LL PROBABLY BE 30
MINUTES late.
```

● In the top line of the display you will see the date and time at which you received the message. To select an action, confirm with the corresponding softkey.

```
UUS 01/06 today    →
↓  10:36        MSN-1
              Save text
send

delete?
              continue
```

»send« Modify and then send text message.
To send the text message, proceed as described under »Creating and sending text messages« (see page 38).

»delete?« Delete the text message.

»Tel. drctry« If you wish to transfer the number of the sender / recipient to the phone book, press the right arrow key and then the »Phone book« softkey. Next enter the name for the phone book record and confirm your entry with the OK key.

»continue« View next temporary saved text message.

»Text Save«
(only UUS1) Transfer the text message to the list of saved messages. To do this, select the desired memory location using the arrow keys and confirm your selection with the OK key.

Permanently saved text messages (only UUS1)

Up to five UUS1 text messages can be saved in the system telephone. You can edit, delete or send these text messages. Text messages that are already saved can only be entered directly on the system telephone.

Start as follows:

↓☎	▶	Message	UUS	Specify the text

Press the arrow keys to select a text message.

```
Select text        ←→

1:
2:
3:
```

OK Press the OK key in order to enter or amend the selected text message.
Press the OK key to confirm your final entries.

Menu Press the menu key in order to send or delete a message.

```
send

delete?
```

»s e n d«   Modify and then send text message.
                  To send the text message, proceed as described under »Creating and sending text messages« (see page 38).

»d e l e t e ?«   Delete the text message.

Send text messages automatically (only UUS1)

When on a call, you can automatically send a UUS1 text message to the caller. To do this, the text 1 from the list of permanently saved text messages is always used.

Start as follows:

⤓	▶	●	●	▶	●
		Messages	UUS		Incoming

●   Press the »I n c o m i n g« softkey to switch automatic sending on or off.
»I n c o m i n g«: Automatic sending active.
»I n c o m i n g«: Automatic sending not active.

> Messages / UUS   ←
>
> Incoming
>
> Inhibit reception

Set receipt for text messages (only UUS1)

You can configure whether external or internal UUS1 text messages are received by the system telephone or not. Receipt can be blocked separately for external and internal text messages. You can allow certain text messages to be received using the system telephone phone book.

If you have blocked receipt, external or internal text messages can only be received if the number of the sender is saved in the phone book with a special ring tone.

Start as follows:

⤓	▶	●	●	▶	●
		Messages	UUS		Block receipt

●   Press the »E x t e r n a l« or »I n t e r n a l« softkey to switch the receipt of UUS1 text messages on or off. E.g.:
»e x t e r n a l«: Receipt of external messages inhibited.
»i n t e r n a l«: Receipt of internal messages is possible.

> Inhib. receiv. / UUS
>
> external
>
> internal

Error sending and receiving an SMS

Error transmitting an SMS

If you are unable to transmit an SMS message, a corresponding error code is displayed. Consult the SMS service of your network operator / provider to find out which error codes are displayed.

Error receiving an SMS message

If you are unable to receive an SMS message or only as voice output, there may be several reasons:

- The SMS performance feature has not been registered with the network operator and/or the provider of the SMS centre for your ISDN connection.

- The SMS message was transmitted by a third-party service provider, which failed to transmit this message as an SMS message.

- Permanent number suppression is activated for your ISDN connection.

- You have already saved 10 SMS messages in your system telephone and cannot receive any more SMS messages.

Do not disturb

If you want calls not to be signalled with the selected call melody and volume, you can set this on your system telephone with the function »Do not disturb«. All calls are then signalled on screen only (on the display) or with an attention tone depending on the setting. The volume of the attention tone can be set as described on page 64. When the system telephone is at rest, »r« or »R on the display indicates that the «Do not disturb« function is enabled.

»No«	The »Do not disturb« function is not active.
»ok«	Calls are only signalled on the display (»R« shown on the display).
»Ringing signal off«	Calls are first signalled with a short attention tone, then only on the display (»r« shown on the display).
»Only for msn-1«	The functions above are set up only for the MS-1. This requires that multiple MS are set up in the system telephone.

↓ 📞	⬤	⬤
	Quiet	No / Ringing signal Off/ ok
		Only for MS-1

Checking costs

You can obtain details on accumulated call costs on your system telephone. You can only use this function if the performance feature is activated for your ISDN connection by the network operator.

Consult your network operator to find out what options are available for transmitting cost information. Please note that the transfer of all cost information from the exchange to your system telephone is no longer possible for technical reasons. Any price reductions received, special tariffs used and special features may lead to deviations between the data saved in the system telephone and the data stated on the telephone bill.

Procedure for transmitting cost information

There are various procedures for transmitting cost information. The same procedure is normally always applied to a connector. This procedure is automatically recognised by the system telephone and is saved for future use.

If the transmission of cost information during a procedure occurs that is not saved in the system telephone, then »Wrong charge type« is shown in the display.
In this case delete all of the cost information stored in the system telephone (see also: Viewing/deleting total costs). Recognition and saving of the procedure used to transmit cost information is then re-activated.

> You can set up the tariff factor and denomination via the PC configuration of the system telephone.

Viewing and deleting costs

Cannot be configured using the system telephone on the elmeg hybird!

If you have protected configuration of the system telephone with a PIN (see page 75), cost accounts can only be deleted using the PIN. After pressing the »delete?« softkey, you must then enter the PIN of the system telephone. You can also delete the call costs via the Professional Configurator.

View/delete costs of last call

Start as follows:

Charge

The cost of the last call is displayed. If you want to delete these costs, press the »delete?« softkey.

```
Last conn::            →
0,18 EUR

Last conn.
              Total
delete?
```

View/delete total costs

Start as follows:

Charge   Total

You can view the total cost for all call numbers (MS). If you want to delete these costs, press the »delete?« softkey.

```
Total:                 →
              1,55 EUR

Last conn.
              Total
delete?
```

> ☞ If the total cost is deleted, all MSN cost accounts are deleted at the same time. The recognition and saving of the procedure for transmitting cost information is re-activated.

View/delete costs of individual call numbers (MS)

Start as follows:

📞	▶	●	▶	●
		Cost		MS-2
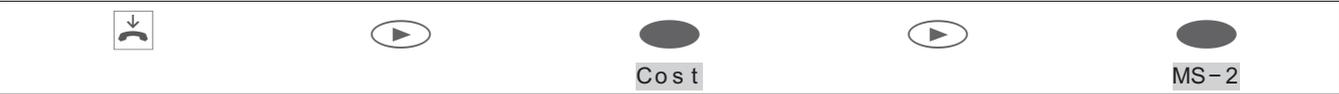
● You can view the total cost for a single call number. Example for »MS-2«.

```
MSN-2:                    →
0,31 EUR
                     MSN-3
MSN-1
                     MSN-4
MSN-2
```

◀
●

If you wish to delete the total costs for the selected number (example MS-2), press the left arrow key and then the »delete?« softkey.

```
MSN-2:                   ↔
              0,31 EUR

Last conn.
                    Total
delete?
```
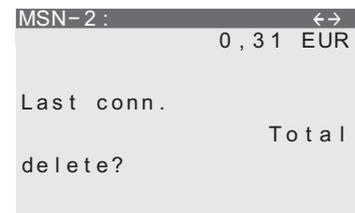
Set up tariff factor and denomination

Start as follows:

📞	Menu	●	●	●
		Configuration	Charge	

»Charge«　　Enter the tariff factor and confirm your entry with ⟨OK⟩. The length of the tariff factor is limited to 4 characters. Press the asterisk key to enter a comma.

»Currency«　　Enter the denomination and confirm your entry with ⟨OK⟩. The length of the name is limited to 6 characters. For the text entry of letters, digits or special characters, the keys are assigned as described on page .

»delete?«　　All cost information saved in the system telephone will be deleted. Recognition and saving of the procedure used to transmit cost information (see page 43) is re-activated.

<$ I[English]Credits Based Accounting System><Setting the call costs account for a number

Cannot be configured using the system telephone on the elmeg hybird!

You can set up a cost account for each number (MS) entered in the system telephone. In this cost account the number (MS) is allocated an amount in the specified currency that is available for making calls. Once the allocated amount has been used, only free calls can be used from this outgoing number (MS). If dial control is set up, chargeable calls can be made to the free call numbers in dial control.
If the amount of the cost account is exceeded during a call, this call can still be completed.
Once the amount has been increased or the cost account has been deleted, paying calls can be made.

> ☞ Caution: Not all providers send cost information. If you telephone using a provider that does not supply cost information, the cost account is not applicable.

The setting up of a cost account for a number (MS) is described below using the example of the call number MS-1.

Start as follows:

☎↓		(Menu)	⬤	⬤	⬤	▶	⬤
			Configuration	MSN	MS-1 … MS-10		Cost

⌨ Enter the amount to be allocated for making calls.

⊙OK Confirm your entries with ⊙OK.

> Dial inhib. by charge
>
> Limit/EUR>10`

If you enter »0« as the amount to be allocated for making calls, the call costs account is not active.

Release or block call number (MSN) for dialling

Each number saved in the system telephone (»MSN-1« ... »MSN-10«) can be released or blocked for outgoing connections. If you have blocked a number (MSN) for outgoing calls, no outgoing calls can be initiated when transmitting this number (e.g. MSN assignment using function keys). Incoming calls continue to be possible for these numbers.

If you attempt to set up a call using a number that has been inhibited for dialling, the following message is shown in the display »Inhibit: MSN«.

Enabling or inhibiting of a number for outgoing calls is protected by an MSN-specific PIN. You must enter this PIN in advance during configuration of the number (MSN). After that, you can inhibit or enable dialling of external numbers (outgoing calls) for this MSN.

Start as follows:

☎↓	▶	⬤	⬤	⌨	⊙OK
		inhibit	MSN-1 … MSN-10	Enter MSN-specific PIN	

The cross next to a softkey indicates which setting is currently activated.

⬤ If you want to block outgoing calls for the number (MSN), press the »inhibit« softkey. To release a blocked number for dialling, press the »enable« softkey.

> MSN-1?
>
> inhibit
>   enable

Call and cost display

Possible displays during a call:

Call display for call numbers
(»0123456«).

> 0123456
>   MSN-1
>   Memo
> show

Call display for call numbers
(»0123456«) and time (»07:41«).

> 0123456
> 07:41   MSN-1
>   Memo
> show

Call display for call numbers
(»0123456«) and duration (»32.43«) of the call.
The call duration can be displayed, for example, for incoming
connections or if there is no cost information
available.

> 0123456
> 32.43   MSN-1
>   Memo
> show

Call display for call numbers
(»0123456«) and charges (»0.36 EUR«).

```
0123456
0,36 EUR          MSN-1
                   Memo
show
```

Call display for date (»29.05.06«) and
time (»07:41«).

```
29.05.06            →
07:41             MSN-1
                   Memo
show
```

☞ You can only see costs if you have registered with your network provider to transmit costs during the call.

View display during a call

☞ The following displays during a call depend on the settings and respective connection and may therefore differ from connection to connection. You can only see costs if you have registered for cost transmissions during the call.

During a call, you will see the number or name of the called party at the top of the display »BEATRICE«) and the duration of the call (»0.24«).
Press the »display« softkey.

```
BEATRICE            →
02.43             MSN-1
                   Memo
```

```
show
             Keypad
Mute
               park
```

You will now see further information available on the current connection.
Date (»29.05.06«), time (»07:41«),
associated number (»0987654321«),
Costs (»0.36 EUR«), call duration
(»02.55«)

```
BEATRICE
to MSN-1
29.05.06 07:41
0987654321
0,36 EUR        02.55
```

Press the arrow keys to display further information (if available).
If you are the destination of a call forwarding, you will see the diverted number (»U←123«) if this is transmitted.

You will see the normal display during the connection.

```
BEATRICE 06.33      →
06:33
                   Memo
display
```

At the end of the call, the adjacent display will appear for approx.
5 seconds.

```
BEATRICE
Costs          0.36 EUR
```

Setting up transmission of the call number (CLIP/CLIR/COLP/COLR)

Start as follows:

↓☎	Menu	⬭ Configuration	⬭ Display	⬭ MSN ext.

»Incoming«   By pressing the »Incoming« softkey, the display of the caller's number is switched on or off. If a cross is shown next to the softkey, call number display is activated.

»Outgoing«   By pressing the »Outgoing« softkey, the display of the called party's number is switched on or off. If a cross is shown next to the softkey, call number display is activated.

System telephony

The system telephone is ready for connection to the corresponding internal connector of the PABX / elmeg hybird .

On the PABX / elmeg hybirdthe system telephone provides various performance features that are typical of this system. For example:

- Select from the phone book on the PABX (see page 18).

- Announcement and simplex operation (see page 23, 24).

- Special function keys (see page 48).

- Access to the system menu on the PABX (see page 58).

Please consult the user's guide for your PABX to see whether this system telephony is supported in conjunction with this telephone.

Operating the function keys

Press the corresponding function key. The function programmed on the key is executed. If an LED function is also associated with this function, the LED is switched on or off according to the function executed.

You can reach the second layer of function keys by pressing the keys twice. This must be done quickly.

Important notes on LED functions

The states of the LEDs are not permanently refreshed in the system telephone. If these functions are modified or switched by a code or PC configuration on the PABX, the state of the LED does not change. If the system telephone is disconnected from the ISDN network (e.g. parking a call), the LEDs are off when reconnecting the system telephone. Pressing a function key updates the display of the assigned LEDs and the performance feature in the PABX is activated or deactivated.

Example: You can switch the announcement function on your system telephone on and off using the function key through the PC configuration of the PABX. Pressing the function key switches off the announcement and the assigned LED is updated.

Function keys

The system telephone has five function keys that can be assigned with various functions in two layers.

Each key has a two-colour LED that can be used to display the functions of the keys. Each colour is assigned to a layer of the function key.

Examples for operating function keys

- Speed dial keys (see page 19).

- MFC/ Keypad sequences (see page 27).

- Announcement (operation see page 23).

- Simplex operation (operation see page 24).

Function keys when connecting to a elmeg hybird or PABX

> ⚠ This section only describes the functions on the elmeg hybird or the PABX.

Line key (Subscriber line key)

You can set up dialling to an internal extension using a line key. After pressing the corresponding key, hands free is switched on and the internal extension entered is selected.
If already on a call, the call is held and the destination extension call after pressing the line key.
If a call is signalled on the internal extension you have entered, you can pick this up by pressing the line key.
Call waiting signals are indicated by a flickering LED on the line key. By pressing this key you can pick up the call from any extension within the group.
Held calls are not indicated by the LED.

Line key (Team line key)

A team key is a normal line key to which the internal number of a team is assigned. After pressing the corresponding key, hands free is switched on and the team entered is selected. If a call is signalled for the entered team, you can pick this up by pressing the team key.

LED functions

The LED on the key indicates the respective status:

LED off:	No connection.
LED on:	Existing connection.
LED flashes:	Connection on hold.
LED flickers:	Incoming call / call waiting.

Line key   PABX

This performance feature is not currently supported by elmeg hybird!

A B-channel of an external ISDN connection is set up using a line key. If this key is pressed, hands free is switched on automatically and the corresponding B-channel of the ISDN connection is assigned. You then hear the external dialling tone.
If an external call is signalled on another internal system telephone, you can pick this up by pressing the line key.

LED functions

The LED on the key indicates the respective status:

LED off:	No connection.
LED on:	All B-channels are assigned.
LED flashes:	Connection on hold.
LED flickers:	Incoming call / call waiting.

Line key   elmeg hybird

If this key is pressed, hands free is switched on automatically and the corresponding external connection (ISDN, SIP or FXO) is assigned. You then hear the external dialling tone.
If an external call is signalled on the LED of the line key, you can pick this up by pressing the key. Here you can pick up up to 4 calls by pressing the line key. If you pick up 4 calls, this is displayed by the lights on the LED.

LED functions

The LED on the key indicates the respective status:

LED off:	No connection.
LED on:	On ISDN connections, the LED only lights up when all B-channels are assigned.
	If a connection limit is set up in the elmeg hybird with the SIP provider, the LED lights up when the maximum number of connections is reached.
LED flickers:	Incoming call / call waiting.

MSN assignment (Set call number for next call)   **PABX**

This performance feature is not currently supported by elmeg hybird!

You can perform internal or external dialling so that a specific number is transmitted from your system telephone to the called party. This number must first be entered in your system telephone.

LED functions

The LED on the key indicates the respective status:

LED off:	No connection.
LED on:	Connection set up using keys.

Day/Night all   **PABX**

This performance feature is not currently supported by elmeg hybird!

You can set up a key so that when pressing this key, the call assignments on the PABX are switched (day/night call assignment). You have various options for this switching: Day/Night all: All performance features that differentiate between day call assignment and night call assignment (AVA, Teams, TFE) are switched together.

LED functions

The LED on the key indicates the respective status:

LED off:	Day active.
LED on:	Night active.

Day/Night Team   **PABX**

This performance feature is not currently supported by elmeg hybird!

When entering a team number, the call variant is only switched for this team. If you do not enter a team number, the call assignment is switched for all team.

LED functions

The LED on the key indicates the respective status:

LED off:	Day active.
LED on:	Night active.

Team on/off   **PABX**

This performance feature is not currently supported by elmeg hybird!

If you are entered as an extension in the call assignments for one or more teams, you can set up a key so that you can control the call signalling of your system telephone. If you are logged in, team calls will be signalled to your system telephone. If you are logged out, no team calls will be signalled.

The call numbers entered in the telephone can be logged in/logged out from a team using a set function key (»MSN-1«...«MSN-9«). Before entering a team number, you must select the telephone call number index (MSN) that is entered in the corresponding team call assignments.

LED functions

The LED on the key indicates the respective status:

LED off: Logged out.

LED on: Logged in.

Allow announcement on/off

You can block or allow the announcement on your system telephone using a function key.

LED functions

The LED on the key indicates the respective status:

LED off: Blocked.

LED on: Allowed.

Announcement (operation see page 23).

LED functions

The LED on the key indicates the respective status:

LED off: No announcement.

LED on: Announcement.

Allow simplex operation on/off

You can block or allow simplex operation on your system telephone using a function key.

LED functions

The LED on the key indicates the respective status:

LED off: Inhibited.

LED on: Allowed.

Simplex operation (operation see page 24).

LED functions

The LED on the key indicates the respective status:

LED off: No simplex operation.

LED on: Simplex operation.

Boss-connector

This function manages the interaction between the system telephones of the boss and the secretary. The secretary's system telephone is assigned a special line key with the number of the boss and the boss' system telephone is assigned a special line key with the number of the secretary.

LED functions

The LED on the key indicates the respective status of the connection:

LED off: No connection.

LED on: Existing connection.

LED flashes: Connection on hold.

LED flickers: Call.

Secretary

In conjunction with a »Boss Key« this key allows the user to specify whether calls are routed directly to the boss or are signalled to the secretary.

Secretary redirection

LED functions

The LED on the key indicates the respective status of the connection:

LED off: No connection.

LED on: Calls are redirected from the boss to the secretary.

Call filter   **PABX**

The functions are saved in the system telephone, but not in the elmeg hybird.

With the call filter, you can reject or allow specific calls to your system telephone. A rejected caller receives the engaged tone and is saved in a caller list with a special flag. The call filter is set up using the PC configuration of the system telephone and can be switched on or off using this function key.

LED functions

The LED on the key indicates the respective status:

LED off: Switched off.

LED on: Switched on.

Call diversion (call forwarding)

You can set up a key so that call forwarding is set up for a specific number on your system telephone. Call forwarding (see page 68) is switched on or off by pressing the key.

LED functions

The LED on the key indicates the respective status:

LED off: Switched off.

LED on: Switched on.

Direct call

Automatic direct dialling on the system telephone can be set up using a programmed function key. Before setting up automatic direct dialling using a function key, it is important that the speed dial number is saved in the system telephone. Automatic direct dialling can be switched off as described in the section »Automatic direct dialling« (see page 68).

LED functions

The LED on the key indicates the respective status:

LED off: Switched off.

LED on: Switched on.

Voicemail   **PABX**

This performance feature is not currently supported by elmeg hybird!

If you use a voice system on the PABX to which the system telephone is connected (e.g. from the company Discofone), you can set up a key to control the voicemail function. By pressing the key you can establish a connection to the voicemail box.

Headset

If you have set up and connected a headset to your system telephone, the headset is operated using a function key. These are set up in the ex works settings for the keys 4 (Headset) and 5 (Automatic call acceptance).
Press the headset key to initiate, pick up and end calls.

LED functions

The LED on the key indicates the respective status:

LED off: No connection.

LED on: Connection or connection setup.

Automatic call acceptance

Your system telephone can accept calls automatically without you having to lift the receiver or press the loudspeaker key. The time after which calls are accepted automatically is set up in the configuration of the system telephone. Automatic call acceptance is switched on or off using the function key assigned.

LED functions

The LED on the key indicates the respective status:

LED off: Switched off.

LED on: Switched on.

Voicemail   **PABX**

This performance feature is not currently supported by elmeg hybird!

If you use a voice system on the PABX to which the system telephone is connected (e.g. from the company Discofone), you can set up a key to control the voicemail function. By pressing the key you can establish a connection to the voicemail box.

LED functions

The LED on the »Voicemail« button indicates the respective status:

LED off: No connection.

LED on: Connection to voice box.

LED flashes: Voice box, new message available.

Line AB   **PABX**

This performance feature is not currently supported by elmeg hybird!

This key is a special line key to which the internal number of an answering machine is assigned. An MFC sequence can also be assigned to this key.
After pressing the key, the number of the answering machine is dialled and then the saved MFC sequence is transmitted. The MFC sequence allows you to activate remote operation of the answering machine and to listen new messa-

ges. The loudspeaker is switched on when calling the answering machine, but the microphone remains off. By pressing this key, you can also pick up a call that is signalled to the allocated answering machine.

LED functions

The LED on the »Line AB« button indicates the respective status:

LED off: No connection.

LED on: Connection to AB.

LED flashes: AB has an active connection to the caller.

LED flickers: Incoming call AB.

User on/off

Normally the first number entered in the system telephone (MSN-1) is used as the default number for all settings and operations. You can set the default number of the system telephone with the user key. By pressing this key, the default number of the system telephone is modified on the corresponding call number. When initiating a call and when sending SMS or UUS1 text messages, the modified default number is used.

LED functions

The LED on the key indicates the respective status:

LED off: Default number.

LED on: Modified number.

Bundle key   **elmeg hybird**

If one or more external connections (ISDN, FXS or SIP provider) are grouped into bundles, they can be assigned to a bundle key. If this key is pressed, hands free is switched on automatically and a free external connection is assigned in the bundle in the order of entry. You then hear the external dialling tone. If a call is made in this bundle (the LED on the bundle key flashes), this connection cannot be transferred by pressing the bundle key.
A busy status is signalled as described under »Line key«.

LED functions

The LED on the key indicates the respective status:

LED off: no bundle assigned.

LED on: No external connection free.

LED flickers: Incoming call.

Bundle key   **PABX**

This performance feature is not currently supported by elmeg hybird!

If one or more external connections are grouped into bundles, they can be assigned to a bundle key. If this key is pressed, hands free is switched on automatically and a free external connection is assigned on the corresponding bundle. You then hear the external dialling tone.

LED functions

The LED on the key indicates the respective status:

LED off: no bundle assigned.

LED on: No B-channel free.

LED flickers: Incoming call.

Status info   **PABX**

This performance feature is not currently supported by elmeg hybird!

Recording

You can set up the »router key« (code 01) or »record key«(code 02) under this key.

> Router key (01),(only PABX)
>
> If you have set up a status info key in the configuration, you can press the key to disconnect existing Internet connection and to set up new connections over the registered provider. The LEDs on the function button indicate the status of the Internet connection (LED off: No connection, LED on: Connection over WAN).
>
> Record key (02), (only PABX)
>
> (Only if the PABX supports this function) If you press the Record key during an existing connection, recording is started (the LED lights up).

LED functions

The LED on the key indicates the respective status:

LED off: No connection.

LED on: Connection active
                                     or
                                     Recording switched on.

Connection

In addition to the softkeys »Connection 1...«, you can also set up function keys on the system telephone or the extension for operation when brokering. Here two to four of these keys must always be set up.

- No other keys must be set up between the connection keys.
- The number of possible connections depends on the number of connection keys set up. If more than 4 keys are set up, the call waiting and hold for enquiry functions are restricted.
- If multiple connections have the »Calling« status, the first call signalled is accepted when the receiver is lifted.
- If multiple connection keys are available, the connection key is used to select between multiple waiting calls. Note that only one ISDN system telephone is operated on the S/U connection, only a single call waiting signal is set up. This is the only way that a second call waiting can take priority over an existing call (both callers require a B-channel).
- If a call is signalled, another connection can be established using another connection key when the receiver is replaced.
- Brokering can be carried out using the connection keys.
- The assignment given to a connection or a call is retained until the end, unless with softkeys »Connection 1...«.
- A connection can be set up using the connection key and then pressing a line key.
- You can also press the connection key during a call to set up another connection.
- Pressing the disconnect key to disconnect the existing connection and the connection with the last held connection.
- If an existing and a held connection are connected with each other, the softkey »Transfer« must then be pressed followed by the connection key for the held connection.

LED functions

The LED on the key indicates the respective status of the connection:

LED off:	No connection.
LED on:	Existing connection.
LED flashes:	Connection on hold.
LED flickers:	Call status.

Open hold for enquiry (Open.Hold)

The called party is put on hold for enquiry and dials a code. The system telephone is now free for other operations, e.g. an announcement. Another party can accept the call, if he lifts the receiver and dials the relevant code of the held call. The codes assigned by the PABX can also be entered in the function keys of one or more system telephones. If a call is set to open hold for enquiry by pressing the function key, this is indicated by flashing LEDs on the function keys for the system telephones set up for this. The call is transferred by pressing the corresponding function key. This performance feature is only possible if only one call is on hold.

LED functions

The LED on the key indicates the respective status:

LED off:	No connection.
LED flashes:	Held call in open hold for enquiry.

Hotel room

The hotel room key can only be used on system telephones that are set up as reception telephones. A key can be set up for each hotel room for which check-in, check-out, wake-up call and call functions can be set up by pressing the relevant key.

☞ The second layer of the key function »Hotel room« is assigned permanently as a line key and cannot be set up for any other functions.

LED functions

The LED on the key indicates the respective status of the room:

LED off:	Room is free.
LED on:	Room is occupied.
LED flashes:	Room is being cleaned.

Key functions

The LED is switched off:	Pressing the hotel room key opens the »Check-out« and »Wake-up call« menu.
LED on:	Pressing the hotel room key opens the »Check-in« menu.
The LED flashes:	No function when pressing the hotel room key.
For all LED displays:	The room telephone is called by pressing the key twice.

Post-processing time of the agent (post-processing time)   elmeg hybird

This key can only be used by the agents of the mini call centre.

LED functions

The LED on the key indicates the respective status of the agent:

LED off:	The agent is free and can be called.
LED on:	The agent is post-processing and cannot be called.

Key functions

The LED is switched off:	Pressing the key starts the post-processing time.
LED on:	Pressing the key ends the post-processing time.
LED on:	The post-processing time is restarted by pressing the button twice.
The LED is switched off:	Pressing the key twice has no function.

☞ The second layer of the key function is assigned permanently and cannot be set up for any other functions.

Night operation   **elmeg hybird**

This key centrally switches all of the extensions configured for this. All existing external call assignments, the team call assignments and the door assignments are switched together.

LED functions

The LED on the key indicates that night operation is activated:

LED off:	Night operation deactivated, the call assignments previously set up apply.
LED on:	Night operation activated (by key or calendar on elmeg hybird).

The LED on the »Night operation« key lights up when night operation is activated using the calendar on elmeg hybird. Pressing the »Night operation« key deactivates night operation. The current »calendar function« set is applied again the next time operation is switched using the calendar.

Macro functions

The function keys on the system telephone can be set up as self-programmed function keys. These self-programmed functions are referred to as macro functions (macros). Macros allow fixed sequences to be saved on a function key. For example, you can save frequently used codes on the PABX or fixed operating sequences on your system telephone as macros and then call these by pressing the corresponding function key.

☞ Each function key with automatic LED functions (e.g. line keys) can only be programmed once for each system (system telephone and key extensions).

System menu

Cannot be configured using the system telephone on the elmeg hybird.

The system telephone is ready for connection to the internal S/U / IP connector of the PABXs. These PABX provide a special menu with properties that are typical of the system. This menu and the performance features it contains are managed entirely in the PABX.

☞ The description of the menu and the performance feature that is available in this menu can be found in the user guide for your PABX.

Connection to a PABX

This performance feature is normally set in the PABX. If this is not possible, the setting can also be made on the telephone. An AKZ must be entered first in order to do this.

Start as follows:

📞	Menu	⬤	▶	⬤
		Configuration		PABX

```
              PABX
Type-ID

Tel. drctry
        External line
Numb. length
```

⬤ **Type ID**:
PABX type (softkey »Type-ID«)
Type 0: The PABX does not transmit a dialling code for incoming calls. The dialling code must be entered in the system telephone.
Type 1: The PABX transmits a dialling code for incoming calls. No dialling code must be entered in the system telephone.

```
     PABX-type-nummer


>0
```

⬤ **Tel. drctry:**
This setting determines whether the PABX telephone book or the telephone book of the system telephone is called when pressing the »Telephone book« softkey.

```
Softkey selects pabx
   phone directory?
No
               yes
```

⬤ **Numb. length:**
Maximum length of internal numbers that are allocated to other extensions in the PABX.

```
   PABX number length

>4
```

⬤ **External line:**
Dialling code of the PABX
For external calls the dialling code is entered automatically before the called party's number.

```
   Input external line

>
```

Dial number from the phone book of elmeg hybird

In the configuration of the elmeg hybird, you can enter an external private number and a mobile number for each user. These numbers are then shown in the display of the system telephone in the system phone book. `(M)` is inserted after the mobile number and `(H)` after the home number.

☞ Two two numbers cannot be viewed and set up via the phone book in the configuration.

Advanced configuration

This performance feature is not currently supported by elmeg hybird!

For a full configuration of the system telephone you can use one of the following options:

- PC configuration via the USB connector on the system telephone.

- PC configuration via the internal ISDN/Ethernet connection on a PABX.

- Advanced configuration directly on the system telephone. Thus must be enabled by entered a code depending on the system telephone.

If the system telephone is recognised as a system telephone when connecting to a system PABX, only a restricted configuration is permitted. Advanced configuration on the system telephone is only possible after entering a code.

If the system telephone is not recognised as a system telephone (e.g. when connecting to the NTBA or an internal S-connector on a non-system PABX), the advanced configuration is activated automatically. It is then not necessary to enter the codes to switch advanced configuration on or off.

Switching the advanced configuration on

Enter the code »**46 782 551 ##« (Vanity-Format »**INSTALL1##«).

☞ Activation lasts 30 minutes.

Deactivating the extended configuration

Enter the code »**46 782 550 ##« (Vanity-Format »**INSTALL0##«).

If the system telephone is disconnected from the ISDN network (e.g. system telephone ISDN plugs unplugged, PABX switched off or reset), then the advanced configuration mode is automatically switched off.

☞ The configuration described below underlines performance features and functions that can be set up fully or partially only via the »Advanced configuration«.

Example:

● The display shows the performance feature »`Direct`«, which can only be set up via the »Advanced configuration« or via the »Professional Configurator«. This performance feature is not shown in the display in the »Normal configuration«.

```
Program tnumbs

Tel. drctry

VIP
              direct
```

Settings

Headset

Cannot be configured using the system telephone on the elmeg hybrid (only shown)!

If you have connected a headset to your system telephone, you can set automatic use of the headset for specific operations.

Automatic use of headset enabled:
The connection is accepted over the headset after pressing a line key or with automatic call acceptance.
Automatic use of headset disabled:
The connection is accepted over the loudspeaker / hands-free system of the telephone after pressing a line key or with automatic call acceptance.

Start as follows:

☎↓	(Menu)	⬭ Setting	▶ Headset

The cross next to a softkey indicates which setting is currently activated.

⬭   Press the corresponding softkey to enable or disable automatic headset operation.

```
Use headset

No

              ok
```

Operation

Start as follows:

☎↓	(Menu)	⬭ Setting	▶	⬭ Operation

```
Use variants


                 Keypad
Mute
           Caller list
```

⬭   **Keypad / DTMF:**
Basic settings when connected (»Keypad« or» DTMF» softkey)
Select whether in the initial settings »DTMF« or »keypad« is possible during an ongoing call.

```
Use variants


                  DTMF
Mute
           Caller list
```
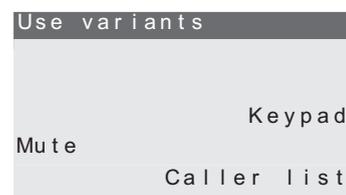
⬭   **Mute:**
Dialling with receiver replaced (»Mute« softkey)
Set whether the microphone is activated with the handset in place (e. g. hands-free calling), or whether it must be switched on by pressing the softkey »speak«.

```
With hands-free?

Speak
                  Mute
```

⬭   **Caller list:**
Press the »Caller list« softkey. If you select »Only messages«, this applies to the settings »Off« or »On«.

```
   Caller list LED?

        Messages only
Off
                   On
```

Block

Outgoing

Cannot be configured using the system telephone on the elmeg hybird.

Here you can specify which dial ranges you would like to set up.

Start as follows:

☎↓	(Menu)	⬭ Configuration	⬭ Inhibit	▦ PIN	⬭ Outgoing
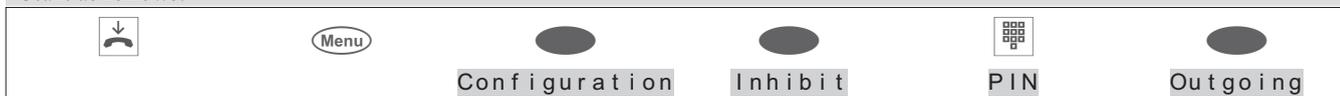
⬭   **Only whitelist number:**
Select »unrestr. nos. Only« if you wish to enable all unrestricted numbers for outgoing calls. If no unrestricted numbers

have been entered, no further calls can be made. Numbers speci-
fied as unrestricted have priority over restricted numbers.

```
inhib. outgoing
calls?

  unrestr. nos. Only
No

               List
```
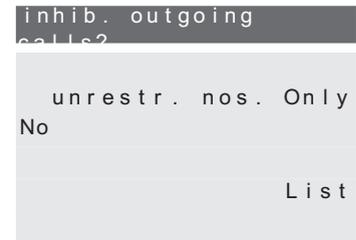
● **No:**
Dial ranges switched off.

● **List:**
The number entered in the list are restricted or unrestricted.
If you press the softkey twice, you can view the list.

List

Cannot be configured using the system telephone on the elmeg hybird.

The system telephone has a range of 7 whitelist numbers and 7 blacklist numbers for dialling.

Start as follows:					
⤓	Menu	● Configuration	● Inhibit	▦ PIN	● List
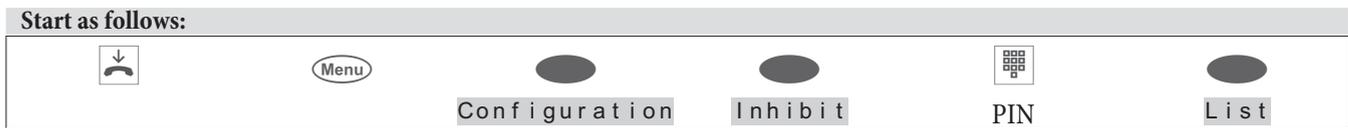
OK Use the arrow keys to select the desired number or a free field and
confirm with OK.
Then enter the new number or delete or edit an existing number.

```
Inhib./Enable tel. ↔
        no.
inhibit-6:
inhibit-7:........0190
Free-1:..........01901
Free-2:
Free-3:
```
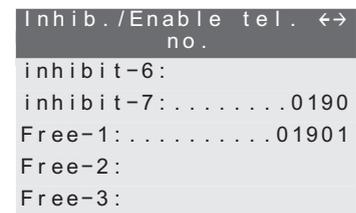
Configuring and setting the system telephone

Acoustic

Headset

If special support is saved in the system telephone for your headset, enter the corresponding type of headset.
e.g. the LED in the microphone of the »Firefly F142 N« from Plantronics is switched through the system telephone.

Start as follows:			
☎	Menu	⬬ Acoustic	⬬ Headset

The cross next to a softkey indicates which setting is currently activated.

⬬ Press the corresponding softkey to set the type of headset that is connected.
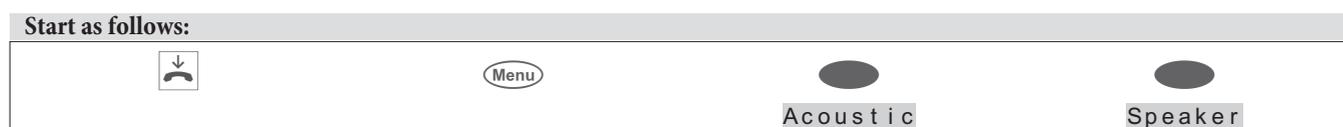
```
headset / Acoustic?

Plantronics Firefly
Default
GN Netcom 2100/2200
Silicomp
```

Loudspeaker

Fix volume

Start as follows:			
☎	Menu	⬬ Acoustic	⬬ Speaker

OK Press the arrow keys to set the volume. The bar in the display shows the current status.

Confirm your entries with OK.

```
Speaker          ←→
         vol.

– ▓▓▓— +
```

Set volume temporarily

During a call you can adjust the volume of the receiver or the volume of the loudspeaker (if activated).

Start as follows:	
☎ Call	Menu

ESC
OK Press the arrow keys to set the volume.

Confirm your entries with ESC.

If you confirm with the OK button instead of the ESC button, you will overwrite the current value.

```
Loudspeaker      ←→
         vol.

– ▓▓— +
```

Set acknowledgement tone

You can set on your system telephone whether the acknowledgement tones are switched on permanently, never or in the event of an incorrect entry. The acknowledgment tones are always active in the basic settings.

Start as follows:

↓⌒	(Menu)	⬭	⬭
		A c o u s t i c	A c k . t o n e s

The cross next to a softkey indicates which setting is currently activated.

⬭ Press the softkey for the chosen function:

»No«: Acknowledgment tone never active.

»Yes«: Acknowledgment tone always active.

»only error ton«: Acknowledgment tone for incorrect entry active.

```
Acknowledge signal
        active?


No

                  ok
Only error tn
```
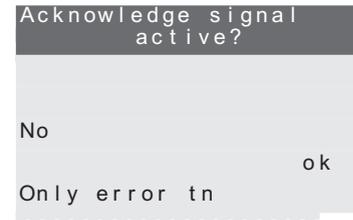
Setting call waiting

If you have enabled call waiting for your system telephone (see page 70), you can set the call waiting tone volume. You can also choose whether a call waiting is signalled once or several times.

Start as follows:

↓⌒	(Menu)	⬭	⬭
		A c o u s t i c	C a l l w a i t .

⬭ The cross next to »repeat« shows that a call waiting is signalled several times.
If you press the softkey again, a call waiting is only signalled once.
The checkmark next to »repeat« is deleted.

```
Call wait. tone


Volume



              repeat
```
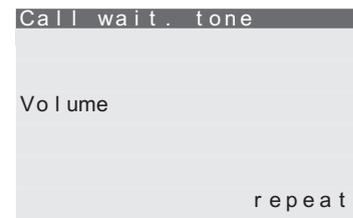
⬭ Press the »Volume« softkey.

(OK) Press the arrow keys to set the call waiting tone volume. The bar in the display shows the current status.

Confirm your entries with (OK).

```
Call wait. tone    ←→
vol.


    – ▓▓– +
```

Idle

Attention tone volume for the »Do not disturb« function

You can set various options of the »Do not disturb« function on your system telephone (see page 42). If incoming calls are signalled with an attention tone when the »Do not disturb« function is enabled, you can set the volume of this tone.

Start as follows:

↓⌒	(Menu)	⬭	⬭
		A c o u s t i c	Q u i e t

(OK) Press the arrow keys to set the volume. The bar in the display shows the current status.

Confirm your entries with (OK).

```
Idle tone volume  ←→


    – ▓▓– +
```
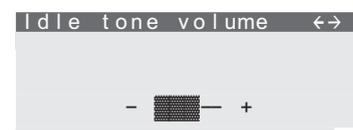
Receiver

Fix volume

Start as follows:			
[↓☎]	(Menu)	⬤ Acoustic	⬤ Handset

(OK)　Press the arrow keys to set the volume. The bar in the display shows the current status.

Confirm your entries with (OK).

`Handset loudness ←→`

`– ▦ +`
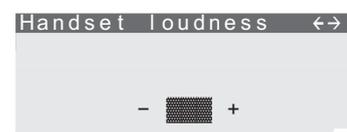
Set volume temporarily

[↑☎][♪]　You lift the receiver or are on a call.

(Menu)　Press the menu key.
You can set the receiver volume by pressing the arrow keys. The bar in the display shows the current status.

`Handset loudness ←→`

`– ▦ +`
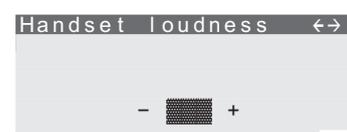
(ESC)　To return to the normal display during a call, press the (ESC) button. If you confirm with the (OK) button instead of the (ESC) button, you will overwrite the current value.

Attention tone (announcement and simplex operation)

You can set the attention tone volume heard during simplex operation. The »Simplex operation« setting applies to announcements and simplex operation.

Start as follows:				
[↓☎]	(Menu)	⬤ Acoustic	(▶)	⬤ Beep tone

(OK)　Press the arrow keys to set the volume. The bar in the display shows the current status.

Confirm your entries with (OK).

`Beep tone volume →`

`ŠŠŠ–IntercomŠŠŠ–`

`– ▦– +`

Announcement

Simplex operation

☞ The »Announcement« and »Simplex operation« menu options are not settings, but operate »see page 23/24) the performance feature

Answering machine

You can set the acknowledgement tone volume on the answering machine.

Start as follows:

↓☏	(Menu)	● Acoustic	▶	● Answering machine

(OK)   Press the arrow keys to set the volume. The bar in the display shows the current status.

Confirm your entries with (OK).

```
Volume AnsMc ackn.  →
        tone

      – ▓▓ +
```
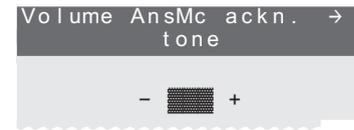
Deadline

Appointment call volume

You can set various appointments on your system telephone (see page 71) that are signalled acoustically and visually when the specified date and time is reached. The volume used to signal the specified appointment can be set as described below.

Start as follows:

↓☏	(Menu)	● Acoustic	▶	● Date

(OK)   Press the arrow keys to set the volume. The bar in the display shows the current status.

Confirm your entries with (OK).

```
Appt. call volume←→


      – ▓▓– +
```

Audio-Out

Functions via the audio output

The system telephone has an audio output (audio out). This output can be used for the acoustic functions of the system telephone in parallel with the local loudspeaker. For example, you can connect external loudspeakers so that an announcement can be heard throughout the office.

The following functions can be used via the audio output:

- Announcement, loudspeaker, hands free, call tones.

Start as follows:

↓☏	(Menu)	● Acoustic	▶	● Audio Out

●   Press the required softkey to enable or disable external output. If a checkmark is displayed next to a softkey, this indicates that the corresponding function is output over the audio-out connector. To switch off audio output, press the appropriate softkey again. The checkmark next to the softkey is deleted.

```
Setting for using
    Audio Out
  Answering machine
Message
  Hands-free calling
Signaling tones
  Speaker function
```
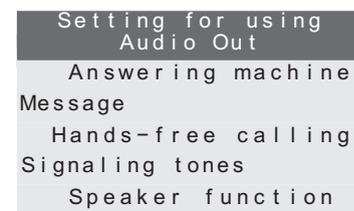
Loudspeaker playback from audio-in

When the system telephone is in the rest state, you can listen to audio signals from the input directly over the loudspeaker on the system telephone. If your PC is not equipped with loudspeaker boxes, you can listen to MOH announcements or Internet music using this method.

Setting the volume

Start as follows:

☏	Menu	●	▶	▶	●
		Acoustic			Audio In

●   Switch on the loudspeaker setting.

```
Audio-In Volume at  ↔
          idle
      ŠŠŠOffŠŠ-

      ŠŠ-  +
```

           Press the arrow keys to set the desired volume.
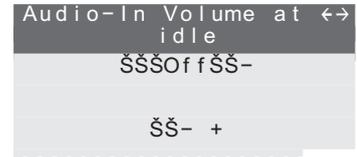
```
Audio-In Idle-
   Volume

  -  ▓▓▓▓  +
```

settings

Direct call

Cannot be configured using the system telephone on the elmeg hybird!

You can set up automatic direct dialling in the system telephone so that when pressing any key (except the ⒺⓈⒸ key and M key) a set number is dialled. If automatic direct dialling is enabled, only one connection to the specific number can be established. If you want to establish a connection to another number, automatic direct dialling must first be disabled.
Active automatic direct dialling on the system telephone is PIN-protected (see page 74). Automatic direct dialling can only be disabled after entering this PIN. If the PIN is set to »0000« (basic setting), the PIN does not have to be entered and can be skipped by pressing the ⓄⓀ key.

When automatic direct dialling is switched on, the following functions are available:

- Automatic dialling of the specific number by lifting the receiver or pressing any key (except the ⒺⓈⒸ key and E key).

- Receiving calls as long as these are not suppressed by the call filter.

- Signalling of preset appointments.

☞ Other functions (e.g.: function keys, TAPI function or headset operation) are not possible when automatic direct dialling is enabled.

Set up number for automatic direct dialling

Start as follows:

☏	Menu	●	●	●
		Setting	Direct call	MSN ext.

⌨	Enter the call number.	`Dir. call-in number`
	Example: »`098765`«.	
OK	Confirm your entries with OK.	`Direct cal>098765`

☞ If you are using the system telephone on a PABX without automatic outside line, you must enter the dialling code of the PABX before the speed dial number.

Enable automatic direct dialling

↓☎		Menu	⬤	⬤	⬤
			`Setting`	`Direct cal`	`ok`

Automatic direct dialling is now active. In the second line of the display you will see the speed dial number that is set up.

`07:41    Dir. call-in`
`098765`

Disable automatic direct dialling

Menu — You will see the idle display when automatic direct dialling is disabled. Press the menu key.

`07:41    Dir. call-in`
`098765`

⌨ — Enter the PIN (Example: »`0000`«).
OK — Confirm your entries with OK.

`Input PIN please`

`>****_`

⬤ — Press the »`ok`« softkey to switch off automatic direct dialling.

`End direct call-in?`

`No`

`ok`
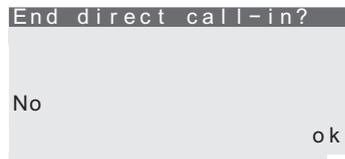
Call diversion (call forwarding)

The system telephone enables you to be reached even if you are not in the vicinity of your telephone. You achieve this by automatically forwarding your calls to another call number.
Call forwarding can be set up separately for each of the numbers entered. In order to be able to use call forwarding, you can have set up at least one number.

The following settings are possible for each number:

»`Delayed`«	Call diversion delayed: All calls for the number are signalled for the time defined in the exchange or in the PABX before being forwarded.
»`Busy`«	Call diversion on busy: Calls to a number are only forwarded if the system telephone is busy. (E.g.: a connection and call waiting are not permitted or two existing connections)
»`Fixed`«	Direct call diversion: All calls for the number for which a permanent call forwarding is set up are diverted. Your system telephone no longer rings when calls are received for this number.

You can configure delayed call diversion and call diversion on busy at the same time. If you have set up a fixed call diversion, delete this before you set up a new (different) call diversion.

> If you are using your system telephone on a PABX, refer to the notes on call diversion (call forwarding) in the PABX user guide.
> If you have connected your system telephone directly to the ISDN connector (NTBA), follow the corresponding instructions of the network provider.

Switch on call diversion

The following example describes how to set up a fixed call diversion for call number MSN-1.

Start as follows:

📞	Menu		Setting	Call rerout.	Fixed	MSN-1
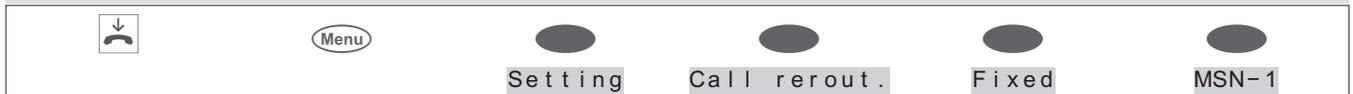
⌨ Enter the number to which calls are to be diverted.
Example: »0 1 2 3 4 5 6 7 8 9«.

```
Call forwarding
      direct

MSN-1>0123456789_
```

OK Confirm your entries with OK.
The call forwarding is registered. The three points in the bottom right will start to blink alternately.

```
Call forwarding
      direct
MSN-1→0123456789    ...
```

View current call diversion

When the system telephone is at rest, »U« is displayed in the second line of the display which indicates that a call diversion is set up. You can view additional information on the call diversion set up by pressing the »Info« softkey.

Switch off call diversion

The following example describes how to switch off a fixed call diversion for call number MSN-1.

📞	Menu		Setting	Call rerout.	Off	Fixed	MSN-1

Special features for the Swiss version

The basic settings of the system telephone are set up for operation on the internal S-connector of a PABX. If you want to use the system telephone on the NTBA or another PABX, the protocol for call diversion (»Keypad« or »ETSI«) must be switched as follows.

Operation on the point-to-multipoint connection (NTBA)

📞	Menu			⌨	OK	▶		
		Configu-ration	Service	Telephone PIN			Swiss_ Var	Keypad

Operation on a PABX

📞	Menu			⌨	OK	▶		
		Configu-ration	Service	Telephone PIN			Swiss_ Var	ETSI

Call Waiting

Cannot be configured using the system telephone on the elmeg hybird.

If during a connection other calls for you are received, you are notified of other calls by the »Call waiting allowed« setting. If the »Call waiting not allowed« setting is enabled, the caller will receive the engaged tone.
The call waiting is signalled by an attention tone via the receiver and on the display. You can set up the call waiting tone volume and can also choose whether a call waiting is signalled just once or several times (see page 64).

If the »Do not disturb« function is active, the call is signalled as described for this performance feature. If you have set up hands free for the active connection, waiting calls will only be signalled in the display.

The following settings for the call waiting are possible:

Start as follows:			
↓ ☎	Menu	● Setting	● Call wait.

● Press the softkey under the chosen variant for call waiting. The cross next to a softkey indicates which setting is currently activated for the selection in the line. If the settings differ, first choose the variant in the first line and the function in the bottom line. Repeat this process until you have reached the desired setting for all variants.

```
        Call waiting
          enable?
  —internal=external——
  No
                       ok

        OK,  extended
```
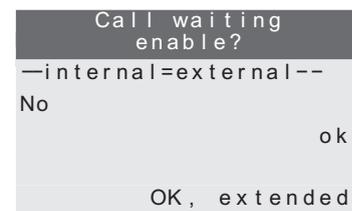
● **External, Internal**
Internal=External:
You can choose which settings are to be changed for call waiting, only internal, only external or internal and external.

● **No:**
No further calls are signalled either during an existing connection or when a connection is being set up.

● **ok:**
Call waiting for only one extension is only possible, if:
there are only one or two active connections and no call waiting connection to your system telephone.

● **OK, Extended:**
On your system telephone you can have up to 4 connections at the same time.
e.g. if there are two connections, a further two connections can be signalled by call waiting.

Display contrast

The contrast of the display can be set individually.

Start as follows:			
↓ ☎	Menu	● Setting	● Contrast

OK Press the arrow keys to set the contrast.
Confirm your entries with OK.

```
Display contrast   ←→



      – ▓▓▓▓– +
```

Deadline

You can set three different appointments on your system telephone.

- The set appointment is signalled daily.

- The set appointment is signalled once.

- The set appointment is signalled weekly at the time specified (date, time).

If the date and time of the appointment are reached, you are notified of this by acoustic and visual signals (with a fixed melody). The volume used to signal the specified appointment can be adjusted (see page 66, 68, 6970). A text can also be saved for each appointment (max. 42 characters) that is displayed when the appointment is reached.

Press the ⌖ESC⌖ key to interrupt signalling for the appointment and continue later as a reminder. To end the signalling of an appointment, press the ⌖OK⌖ button. An appointment is also signalled during a connection or if the »Do not disturb« function is set.
When the system telephone is idle, »T« is displayed in the information bar of the display which indicates that an active appointment is set up.

Activate appointment

In the following example, appointment 1 is set up as a weekly appointment.

Start as follows:						
📞↓	(Menu)	●	●	◄	OK	●
		Setting	Date	Select deadline		Weekly

▦	Enter the time of the appointment.	Set appointment 1
OK	Example: »0930«.	
	Confirm your entries with OK.	Time>09:30

▦	Enter the date of the appointment.	Set appointment 1
OK	In the example: »030606«.	
	Confirm your entries with OK.	Date>03.06.08
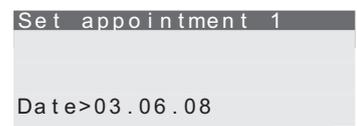
▦	Enter the information message for appointment 1 (max. 42 characters)	Set appointment 1
		Explanation for appoi1
OK	Example: »Telephone project meeting«.	Telephone project
	Confirm your entries with OK.	Telephone
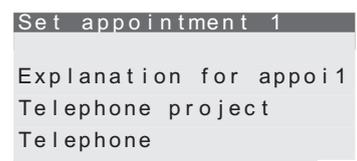
☞ If you want to only modify the information message for an existing appointment, select this with the arrow keys and then confirm with the menu key.

Select appointment

📞↓	(Menu)	●	●		OK	●
		Setting	Date	Select deadline		Off

Automatic call acceptance

Cannot be configured using the system telephone on the elmeg hybird.

Your system telephone can accept calls automatically without you having to lift the receiver or press the loudspeaker key (Headset key). Automatic call acceptance is switched on or off using the function key assigned.

Start as follows:

☎	(Menu)	⬤	⬤
		S e t t i n g	AUTO accept

The cross next to a softkey indicates which setting is currently activated.

⬤ Press the corresponding softkey to set the desired time for auto-matic call acceptance.

```
Time until call
accepted              ?
             5  seconds
immediately
            10  seconds
```

⬤
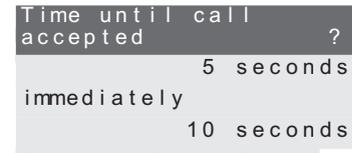
Set time

Cannot be configured using the system telephone on the elmeg hybird!

Start as follows:

☎	(Menu)	⬤	▶	⬤
		S e t t i n g		T i m e

| ⌨ | Enter the time and confirm your entry with (OK). |
| (OK) | |

```
        Set  time


Time>07:41_
```

| ⌨ | Enter the date and confirm your entry with (OK). |
| (OK) | |

```
        Set  time


Date>29.05.06__
```
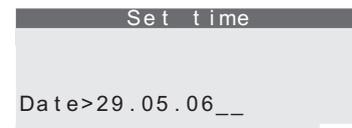
Call filter

This performance feature is not stored in the elmeg hybird.

The call filter allows specific calls to be passed or rejected based on the number transmitted.
You can enter up to five filter numbers (max. 26 digits) in the call filter. Filter numbers can be local area codes or partial or complete numbers. When you enter »****« you can include calls which do not transmit the number (caller ID) in the call filter. Using the call filter, calls whose numbers, or beginning numbers concur with the filter numbers entered in the system, can be rejected or accepted.

Rejected calls are saved in the caller list with a special flag. If the call was only signalled to your system telephone, Busy is signalled to the caller after it has been rejected by the call filter. If you are a member of a team, the call is signalled to other telephones in the team.

Call filter operating modes

»No« All calls are signalled.

»reject« Calls the number for which matches a saved filter number or starts with this number are rejected. All other calls are signalled.

»forward« Calls the number for which matches a saved filter number or starts with this number are signalled. All other calls are rejected.

»All calls« No calls are signalled to your system telephone.

Configure filter number

You can set up a new filter number or use a number already in the system telephone (redialling, phone book, VIP or speed dial memory).

A new filter number is entered in the following example.

Start as follows:

↓⌢	(Menu)	⬬	▶	⬬	⬬	OK	⬬
		Setting		Call filter	New	Filter number select	New

⊞   Enter the filter number. Example: »012345«.

OK   Confirm your entries with OK.

```
Enter filter no.


>012345_
```

Set up call filter operating mode

Start as follows:

↓⌢	(Menu)	⬬	▶	⬬	⬬
		Setting		Call filter	Incoming

The cross next to a softkey indicates which setting is currently activated.

⬬   To set the call filter to the desired operating mode, press the corresponding softkey.
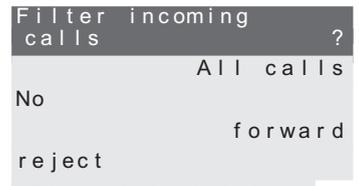
```
Filter incoming
calls              ?
          All calls
No
          forward
reject
```

Configuration

Start as follows:

↓⌣	**Menu**	⬤
		Configuration
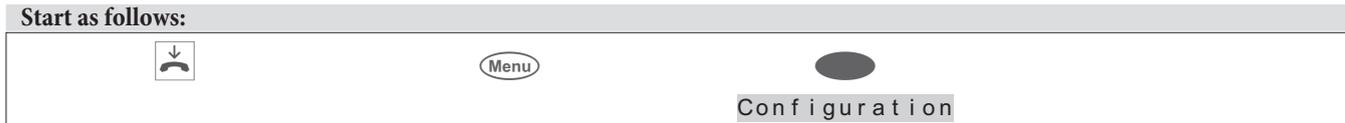
The display shows the configuration options. Pressing the desi-
red softkey takes you to the next display.
Park code. Cannot be configured using the system telephone
on the PABX 2!

```
Configuration         →
 Inhibit
                    MSN
Display
              Charge
Call-Parking
            Service
```

Park code, Costs

Cannot be configured using the system telephone on the PABX 2 (not shown)!

Block

Start as follows:

↓⌣	**Menu**	⬤	⬤	⌗
		Configuration	Inhibit	PIN
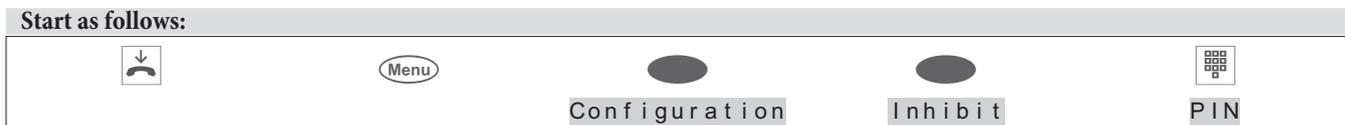
⬤   Press the »Inhibit« softkey and enter the PIN for »Inhibit«
(ex works setting 0000).

```
Config. inhibit
    filter

PIN
          Outgoing
Menu
            List
```
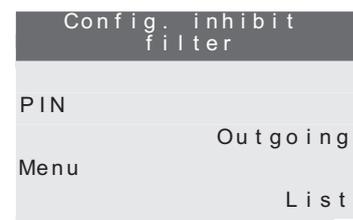
PIN

(Password) of the system telephone

Various settings and operations on the system telephone are protected by a PIN (password).

- Menu access on the system telephone (see page 75)

- Disable automatic direct dialling (see page 68)

- Remote operation of the answering machine (optional module)

- Access to the »Service« menu (see page).

In this menu you can set up your individual PIN (0000....9999). Please make a note of the PIN. If you forget the PIN,
you will not be able to access all PIN-protected settings. In this case your retailer or the distributor.

Start as follows:

↓⌣	**Menu**	⬤	⬤	⬤
		Configuration	Inhibiting fil-ter	PIN
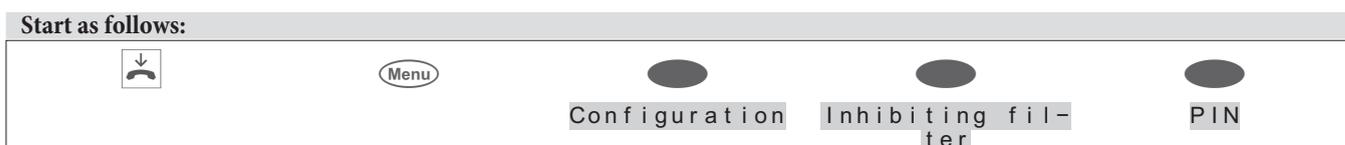
⠿ Enter the new PIN.
Example: »1234«.

⬭OK Confirm your entries with ⬭OK.

> Change PIN
>
> >1234_

☞ Caution: After performing a reset to restore the basic settings (see page) the PIN is also reset (0000).

Menu

Access to a menu with PIN:

This user guide describes how the access the menus without a PIN. If you set PIN protection for a menu, you can access this menu as described in the example below.

Start as follows:

↓📞	Menu	⬭	⬭	⠿	⬭
		Configuration	Inhibit	PIN	Menu
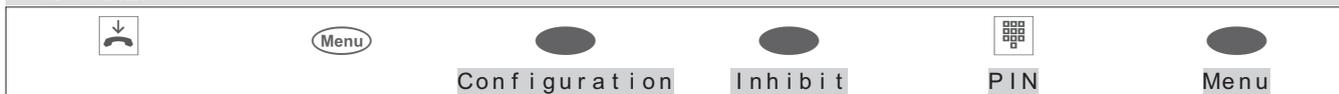
Protect menu access on the system telephone by PIN

Using the PIN on the system telephone you an protect access to the individual menus on the system telephone (»Configuration«, »Setting« or »Program nos. «) and the deleting of saved costs. After entering a menu (e.g. ⬭Menu key and softkey »Configuration«) you must enter the PIN if access is protected.

Protection for menu access can be set separately for the menus »Configuration«, »Setting« and »Program nos. «. The menus »inhibit« and »Service« are always protected by the system telephone PIN. If access to the »Configuration« menu is protected, the deletion of saved costs is also PIN-protected.

⬭ Press the »Configuration« softkey, for example, to disable or enable protection.

> Configuration
> Setting
> Program nos.

⬭ If a cross is shown next to (»Configuration«), protection is enabled.
To switch off configuration protection, press the »Configuration« softkey again.

Display

Call number

Cannot be configured using the system telephone on the PABX 2.

By using »Incoming« and »Outgoing« you can specify whether or not your call number is sent and the caller's number is displayed. If the function is enabled, this is indicated by a cross in the display (Example outgoing.
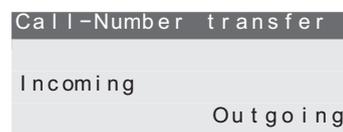
↓📞	Menu	⬭	⬭	⬭
		Configuration	Display	Call number

> Call-Number transfer
>
> Incoming
>   Outgoing

Language

You can choose in which language the display is to appear.
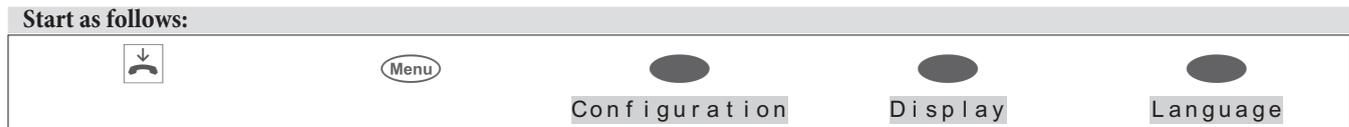
Start as follows:

⏦	(Menu)	●	●	●
		Configuration	Display	Language

●   Press the arrow keys to see the languages that are available.
Press the softkey next to the chosen language. The display is immediately switched to the chosen language.

```
Which language? →
Italiano
                Español
Deutsch
                English
Français
        Nederland
```

Character set

For certain languages, the Latin character set (Western Europe) is not sufficient for displaying characters. You can choose which character set is used for your chosen language.

Start as follows:

⏦	(Menu)	●	●	●
		Configuration	Display	Zeichensatz
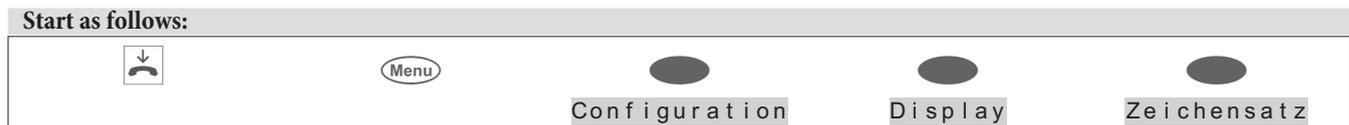
●   Press the arrow keys to see the character sets that are available.
Press the softkey next to the chosen language. The display is immediately switched to the chosen language.

```
Standard Eingabe-r
    Zeichensatz

                Greek
Cyrillic
        Standard
```

Call

Set call and cost display

Start as follows:

⏦	(Menu)	●	●	●
		Configuration	Display	Concersation

```
Conservation display

Duration
        Conversation
End
```

●   **Conversation:**
Setting the call display.
The following call displays are possible:
»date+time«, »Tel.numb.
only«, »Tnumb+Time«
 or »Tnumb+Charge«.

```
Normal Display

    Tel.numb. only
date+time
        Tnumb+Time

    Tnumb+Charge
```

●   **Duration:**
Setting the call duration display.
The following types of call duration display are possible:
»Always« : During a call only the duration is displayed.
»Never«: Possible costs are displayed during a call. The duration
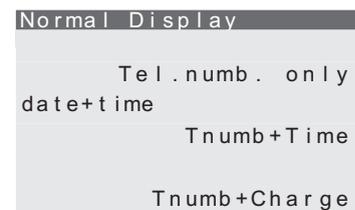
is never displayed.
»for Charge«: Possible call charges are displayed. If no cost in-
formation is available, the call duration is displayed.

```
Conversation time
display              ?
Always
            for Charge
Never
```

End:
Displaying information at the end of a call.
After a call is terminated, information about this connection (e.g.
call length or costs incurred) can be seen in the display.

```
Info at end of call?

No
             ok
```
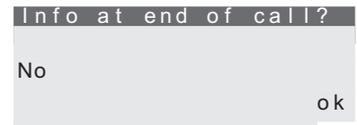
Park code (basic setting)

Cannot be configured using the system telephone on the elmeg hybird.

In the basic setting, the park code is set to 55. You can modify the preset park code to a single digit or double digit
code.

Start as follows:			
📞	Menu		
		Configuration	Call-Parking

The basic setting for the park code is displayed: »55«.
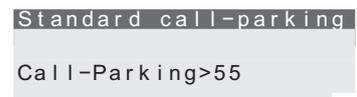
`Enter the new park code and confirm with OK.`

```
Standard call-parking

Call-Parking>55
```

MSN (numbers)

Cannot be configured using the system telephone on the elmeg hybird (only shown).

You can enter up to 10 call numbers (MSN) in your system telephone. By entering a number in your system telephone
you indicate that your system telephone is reachable when dialling with this number (MSN). If you enter more than
one call number in your system telephone, your system telephone will ring when dialling with any of the entered
numbers.
You must enter the internal number of your system telephone on the PABX into the internal S/U IP connector on a
PABX. Please see the information on the user guide of your PABX.

If you call an extension, you can select a specific number (MSN) that is transmitted to the called extension (e.g. for se-
parate accounting). If you do not select a specific call number, the first number entered in the system telephone
(MSN-1) is used.

☞ The setting of a call number (MSN) is described below using the example of the call number »MSN-1«.

Enter and view number (MSN)

Cannot be configured using the system telephone on the elmeg hybird (the number is only shown).

The numbers of the system telephone can only be entered via the Professional Configurator of the WIN-Tools
CD-ROM. On the system telephone you can view the numbers that are set up. You can enter the number of the MSN
after entering a code using the »Advanced Configuration« (see page 62).

Start as follows:

↓ ☎	Menu	⬤	⬤	⬤	⬤
		Configuration	MSN	MSN-1	MSN ext.
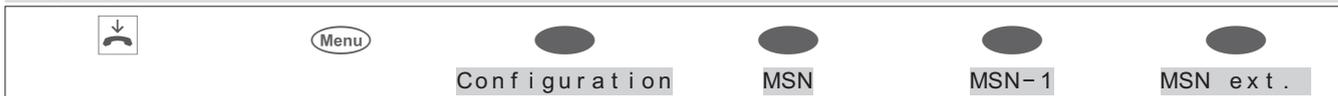
OK   The number set up is displayed.

Exit the menu by pressing OK.

```
Programm dial number


MSN-1>222
```

☞ Other settings (e.g. call melody, volume, name) can only be made if the number is already set up.

Set up call melodies and volume

For each call number you can choose its own call melody and volume. You can set up the ring tone and volume for internal calls separately on the internal connector of the PABX / elmeg hybrid.

10 different melodies are saved for the ring tone in the basic settings of the system telephone. These 10 melodies cannot be changed. Another 10 melodies can be loaded onto the system telephone via a PC. You can create your own melodies on the PC using the Sound-Manager on the WIN-Tools CD-ROM and then load these onto the system telephone. These melodies are saved in the system telephone as melodies 11 to 20. The installation directory of WIN-Tools contains prepared melody profiles that you can load onto the system telephone.

☞ If a call melody that is not saved in the system telephone is assigned to a number (MSN), the first melody saved in the system telephone is used.

Set call melodies (tone)

Start as follows:

↓ ☎	Menu	⬤	⬤	⬤	⬤	⬤	or	⬤
		Configuration	MSN	MSN-1	Sound	xternal		Internal

OK   Press the arrow keys to set the desired melody. The bar in the display shows the current status.

Confirm your selection with OK.

```
Select melody ←→
MSN-1,Internal        3

ŠŠŠ-▓ŠŠŠŠŠ-
```

Set volume

Start as follows:

↓ ☎	Menu	⬤	⬤	⬤	⬤	⬤	or	⬤
		Configuration	MSN	MSN-1	Volume	External		Internal
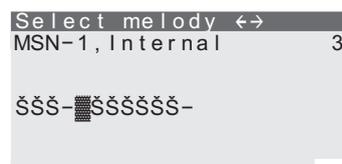
OK   Press the arrow keys to set the desired volume of the call melody. The bar in the display shows the current status.

Confirm your selection with OK.

```
Select call signal ←→

MSN-1  - ▓▓▓ +
```
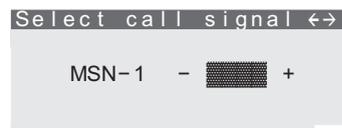
In addition to a steady volume, you can also set up an increasing ring tone. The volume of the ring tone is increased automatically whilst signalling. As the volume increases, »▓▓▓▓▓« is displayed.

Assign name to call number (MSN)

<div style="background-color:#e8896a;">Cannot be configured using the system telephone on the elmeg hybird (the name is only shown).</div>

You can assign each number a name of max. 8 characters.
Each key on the keypad has on it three or four letters of the alphabet. If you press a key several times, you will see the characters displayed in sequence (see page). If two consecutive letters are located on the same key of the keypad, after entering the first letter press the right arrow key and then enter the following letter.

Start as follows:

↓☎	Menu	●	●	●	●
		Configuration	MSN	MSN-1	MSN Name
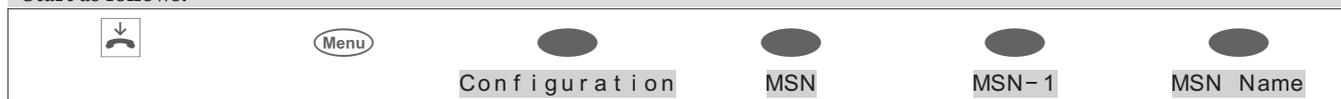
⌨   Enter the desired name.
     Example: »p r i v a t e«.

OK   Confirm your entries with OK.

```
Own MSN designation
               (Abc)

MSN-1>Privat
```

Presetting a number for forwarding calls

If you do not wish to accept a call, you can forward this call directly to another call number (see page 20).
If you frequently forward calls to the same number, you can preset this number in the system telephone. If you then want to forward a call, you will first be offered the preset number.
This preset is separate for each of the numbers entered in the system telephone.

Start as follows:

↓☎	Menu	●	●	●	●
		Configuration	MSN	MSN-1	transfer
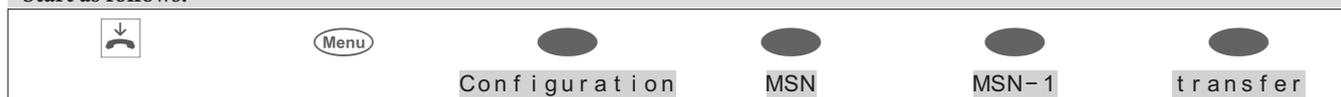
⌨   Enter the desired call number. Press the C key to delete an existing number.
     Example: »0 1 2 3 4 5 6«.

OK   Confirm your entries with OK.

```
Call forward. number


MSN-1>0123456_
```
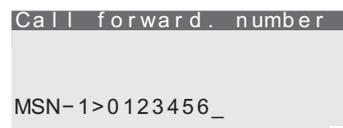
Enter specific PIN for a number (MSN)

You can assign a separate PIN to each number on the system telephone. Using this PIN you can release or block a number (MSN) for outgoing connections.

☞ In the basic settings, all MSN-specific PINs are set to »0 0 0 0«.

Start as follows:

↓☎	Menu	●	●	●	▶	●
		Configuration	MSN	MSN-1		PIN

⌨   Enter the specific PIN for »MSN-1« (basic setting »0 0 0 0«). If you have set up the MSN-specific PIN, you can access this menu using the individual PIN on the system telephone.

OK   Confirm your entries with OK.

```
Input PIN please


>_
```

⊞   Enter the 4-digit specific PIN for MSN-1.
          Example: »1 2 3 4«.

⬭OK   Confirm your entries with ⬭OK.

Change PIN

MSN−1>1234_

elmeg IP-S400 configuration

If you have only pressed ⓞⓚ when switching on the system telephone (see page) instead of entering the MSN, you can complete the log-on and assign this MSN to the system telephone.

You recognise the incomplete log-on in the title bar of the display on your system telephone.

```
GUEST   10:27        ←→
```

Start as follows:

📞↓   Ⓜenu   ⬤   ⬤   ⬤   ⬤
                    Configuration   MSN   MSN-1.. MSN10   MSN ext.
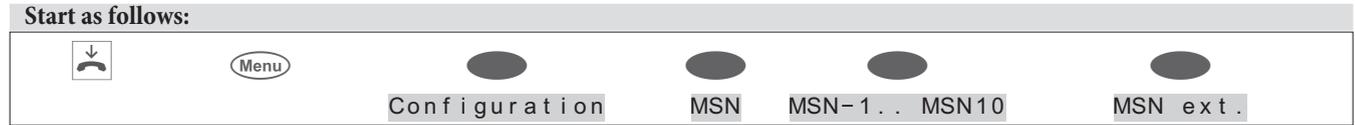
⌨   Enter the MSN. »12« in the example.

ⓞⓚ   This MSN must be assigned as an »internal number« during the PC configuration of the system telephone or assigned subsequently. The MSN is »inactive« until the same MSN (internal number) is entered during PC configuration.

```
Program   MSN-1



> 12
```

Logon

☞ The following entries are optional and are used for system security. They are not mandatory.

On page 8 describes the simple login process over DHCP. If a PIN has already been entered under »Allow configuration« and the »log-in name« has been entered under »Extension name« for log-on in the »Professional Configurator«, these entries must also be entered in the elmeg IP-S400. As name you must enter the MSN (only digits are permitted). This can be carried out using the »Professional Systel-Configurator« or the system telephone. If you enter the »IPS-Log-In PIN« in the system telephone first, you must then also enter this in the PABX configuration.

Entry of IPS Log-In PIN

Start as follows:

📞↓   Ⓜenu   ⬤   ⬤   ⬤   ▶   ⬤
                 Configuration   MSN   MSN-1...MSN10   IPS Log-In
                                                                            PIN
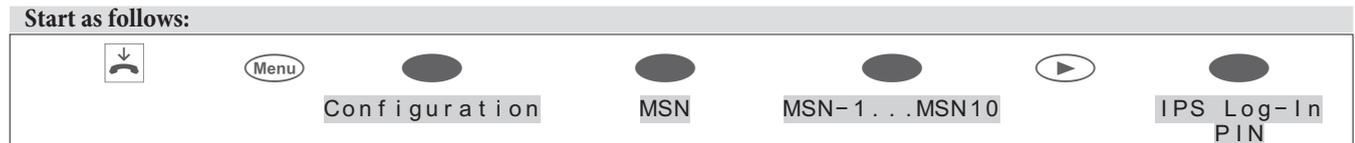
⌨   Enter the system telephone PIN under »PIN«. The entry may only consist of digits. In the example (basic setting) »0000«.

ⓞⓚ   Confirm your entries with ⓞⓚ.

```
Input PIN please


> 0000
```

Entry of the »Sys-Server Log-In PIN from IPS«

When entering the PIN, you must take note of the different names:

Name of PIN in the configuration with the system telephone: Log-In PIN

Name of PIN in the configuration using the »Professional System Configurator« on the system telephone: Log-In PIN

Name of PIN in the setup of the extension   PIN
using the »Professional System Configurator« on the
PABX:

⊞   Enter the Log-In PIN. If you press the 0 key several times, you are
    shown the special characters available and their current position
    on the keypad. Each time you press the 0 key, you are shown up to
    4 layers. Then press one of the keys 0 to 9 to enter the character
    displayed. Wait until the cursor has moved on to the next field be-
    fore entering the next character. Only the current character can
    be seen and the characters already entered are covered with an as-
    terisk.
    Example: Press the 0 key once followed by the 6 key, the @
    character is applied.

```
Please  enter
  login  PIN


MSN−1>  *@_
```

```
Please  enter
  login  PIN
  1=!  2=%  3=?
  4=|  5=:   6=@
  7=,   8=.   9=0
```
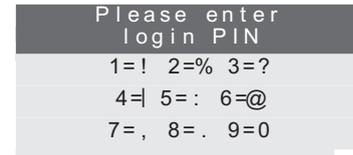
OK   Confirm your entries with OK.
ESC   press the ESC key.

    • System telephone and PABX are synchronised.

☞ Note that registration and synchronisation make tame some time!

☞ If there is no connection to the PABX (no LAN connection or the system telephone is not registered), the
  time in the display is replaced by »▓–/ /▓▶ «.

elmeg IP-S400 Configure without DHCP

On page describes the simple login process over DHCP. If the settings of your PABX differ, you can enter these here.
You can query the data and IP addresses or modify these, if DHCP is disabled, when the IP system telephone is logged
in over DHCP.

Start as follows:

☎	Menu		⬤		⬤
			Configuration		TCP/IP settings

⬤   Press the desired softkey.

```
Main  TCP/IP  and
Network  settings
              Sys−Server
DHCP  Server
                  Gateway
Own  IP−address
                  Netmask
```
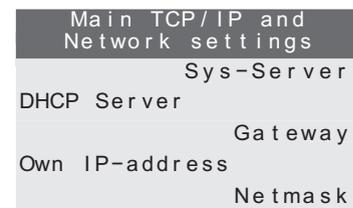
⬤   Sys-Server:
    If the gateway of the PABX is also the Sys server, you do not have to make any entries here. Otherwise you

must press the »No« softkey and enter the IP address of the Sys server here. Or the IP address of the gateway if connected directly to a PABX.

```
    Act  gateway  as  Sys
  server  too  (IP)      ?

  No
                       ok
```

DHCP Server:
Here you can choose whether your system telephone is assigned its IP address automatically by the system (»On«) or whether you want to carry out the configuration manually (»Off«).

```
      Use  automatic
  IP  address  setting  ?

  Off
                       On
```

Gateway:
If »DHCP« is not active, you must enter here the IP address of the network in which the IP system telephone is located.

```
      IP  address  of
         gateway

  INA>192.168.1.250!
```

Own IP Address:
If you have selected »Off« under »DHCP«, you must enter here the IP address of the system telephone according to the default from the PABX or the network in which the IP system is located.

```
  Own  IP  address  (IPS-
         Phone)

  INA>192.168.1.51
```

Net mask:
The netmask/subnet mask is obtained from the PABX in the »DHCP« setting. If »DHCP« is disabled, you can make the appropriate entries here.

```
      Subnet  mask

  INA>255.255.255.0
```

Number programming

Programming of function keys

✆	Menu	Number prog.	direct

⬤ Select the required menu using the softkeys.

```
Program keys

                        T400
function
                         New
macro
                        list
```

`List`, `function`

Cannot be configured using the system telephone on the elmeg hybird (not shown)!

☞ The »T400« menu is only available when the key extension is connected.

⬤ **Function:**
Function keys (softkey »Function«)

OK First select a function key and confirm with OK.

```
Prog new function  ←→
1_:.................
2_:.................
3_:.................
4_:.................
```

OK You can then select the function for the key.(line key, etc). Other entries may be required depending on the type of function selected, e.g. the entry of the call number for line keys.
Confirm your entry with the OK key.

```
Function for key1_
?
........Extension key
Line key........
........MSN assignment
day/night all.......
```

Function keys and other entries

Function	Display	other entries
MSN assignment	»msn-assignment«	Index of number (MSN-1…MSN-9) to be transmitted.
Carrier/provider code	»msn-assignment«	Index of number (MSN-1…MSN-9) and code of the required provider (e.g. 01033).
Call filter	»filter«	
Call diversion	»Call rerout. «	Index of number (MSN-1…MSN-9), Type of cal diversion (1 - fixed, 2 - delayed, 3 - on busy) and Destination of the call forwarding.
Direct call	»direct cal«	
Headset	»headset«	

Automatic call acceptance	»Auto. Accept on/off«	Index of number (MSN-1…MSN-9) for which calls are to be accepted automatically.
User key	»User on/off«	Index of number (MSN-1…MSN-9) to be used for other operations.

Macro

Macro programming

Macro:
Programming the macro keys (»macro« softkey)
First select a function key. First enter the name of the macro (max. 20 characters). You can then enter the individual macro commands.
The command chain of a macro can consist of up to 26 characters. A command of a key press always consists of two characters. Therefore you can link up to 13 commands together or 7 commands / key presses with another 12 digits, for example.

Commands and keys for macro programming

A macro consists of various commands or key presses that are combined to form a command chain and are saved on a function key. When pressing the function key, the system performs the individual commands of the macro in sequence.

The following commands are available for macro programming:

»B«   Initiate connection (similar to lifting the receiver).

»D«   Terminate connection (similar to replacing the receiver).

»ELSE«   Alternative command, if a requested condition (e.g. «IFLA« or »IFLB«) is not met.

»IFLA«   Only run macro if LED on the first key layer is disabled (»IFLA«) or flashes (»IFLB«). If the condition is
»IFLB«   not met, the macro is interrupted or continued after the command »ELSE« (if any).

»K«   Keypad sequence; All following characters/digits are transmitted as a keypad sequence.

»LA«   Switch off LED.

»LB«   LED flashes.

»LE«   Switch on LED.

»LZ«   Switch on LED for two seconds.

»N«   Wildcard for a call number.
             If a number is entered before executing the macro (e.g. or chosen from the system telephone), this number is used instead of the wildcard in the macro.

»P«   Pause (1 second) in the command chain (between two characters/commands).

»RE«   Establish rest status of the system telephone.
             When there is an active connection on the system telephone, the execution of the macro is interrupted at this point.

»SE«   Switch on loudspeaker (normal volume).

»SA«   Switch on loudspeaker (quiet volume).

»T«   MFV sequence: All following characters/digits are transmitted as MFV suffix dialling.

»TS«   Test a connection.
             Once the active connection has been terminated or an outgoing call is not connected (e.g. the extension is busy), the execution of the macro is interrupted at this point.

If you want to integrate a key on the system telephone into a macro, press the corresponding key whilst programming the macro (this is shown in the display with »s 5« for example). Keys that are required to control the system telephone during macro programming (e.g. save, change input position, delete entry or cancel) can only be integrated into a macro using the commands described below.

»c«   Press the C key.

»e s c«   Press the ESC key.

»f«   Press the menu key.

»←«   Press the «left« arrow key.

»o k«   Press the OK key.

»→«   Press the »right« arrow key.

»r«   Select second layer of function keys (press key twice).

Key assignment for macro programming

Key	1. Printing	2. Printing	3. Printing	4. Printing	5. Printing	6. Printing	7. Printing
1	1						
2 ABC	2	B	c				
3 DEF	3	D	ELSE	esc			
4 GHI	4	IFLA	IFLB				
5 JKL	5		K	LA	LB	LE	LZ
6 MNO	6	menu	N	ok			
7 PQRS	7		P	r	IN	SA	SE
8 TUV	8	T	TS				
9 WXYZ	9						
0	0						
*	*						
#	#						

Examples for programmed macros:

Function	Command chain for the macro
Configuration key for a call number (E.g.: 012345 and switch on LED for two seconds)	RE,B,0,1,2,3,4,5,LZ
Set up appointment	RE,menu,s3,s5
Read new text messages (UUS1)	RE,,s6,s6,s2
Block system telephone for outgoing connections »N«: Password of the system telephone (Key for layer 1, switch on LED)	RE,menu,s5,s1,N,ok,s5,s4,LE,esc
Remove block on system telephone for outgoing con- nections »N«: Password of the system telephone (Key for layer 2, switch off LED)	RE,menu,s5,s1,N,ok,s5,s2,LA,esc
Add phonebook record	RE,menu,s6,s2,s5
Enable/disable rest state »Yes« and LED display	RE,s5,IFLA,s5,ELSE,s2

System telephone and PC

> If the system telephone has no USB interface, the functions cannot be used via USB.

CTI / TAPI via the USB connector on the system telephone

The abbreviations CTI and TAPI refer to the standard interface for telephony applications defined by Microsoft under Windows. The system telephone and your computer can co-operate directly.
CTI: Computer Telephony Integration
TAPI: Telephony Application Programming Interface
This allows you to dial directly from TAPI-compatible Windows programs, and the calls can be used by the software. Consequently, setting up a connection via TAPI is considerably faster than with normal calling. TAPI, with its standard Microsoft interface, has the advantage that it is already supported by a large number of programs and this number is growing all the time.

> The TAPI functionality on the system telephone is available as soon as it is connected to the PC and the TAPI driver has been installed and does not require any further activation on the system telephone.

CTI via the USB connector on the system telephone

You do not require an additional ISDN card on your PC. The system telephone has an integrated USB connection to connect with the PC. Depending on the programs and drivers installed, you can surf the Internet, transfer data, send and receives faxes or set up an answering machine on the PC using the system telephone.
CAPI: Common Application Programming Interface

- To ensure the continuous reachability of the system telephone, only one B-channel is available for all applications. This B-channel can be used in turn by the applications.

- The same numbers (MSN) cannot be used in these PC applications as in the system telephone.

- If a CAPI application is enabled and used on the PC, this is displayed on the system telephone with »ONLINE«. During this period, only one B-channel is available for telephony.

Fax and data applications (not included)

By using a fax program, you can send or receive faxes from or using various applications. With a data transmission / file transfer program you can transfer files from one PC to another or receive files from a PC. To ensure that these or other applications can be used in conjunction with your system telephone, the following drivers must be installed:

- USB driver and CAPI driver of the system telephone

Internet Access

You can surf the Internet using the system telephone. To do this, you can use the software from your provider (e.g. T-Online, AOL) or the DCN network of your Windows operating system. To ensure that you can surf the Internet with the system telephone, the following drivers must be installed:

- USB driver and CAPI driver of the system telephone

- NDISWAN driver (only required for access over the DCN network)

Audio applications via the audio connectors on the system telephone

The system telephone has one input (2) and one output (3) for audio signals. These connectors are designed for 3.5 mm stereo jack plugs. When using the optional answering machine module, you can connect the system telephone over this connection to the sound card on your PC in order to transfer announcements to the system telephone or to save recorded messages to the PC.

You can also use specific functions on the system telephone from the audio-out output (see page 66).

Content of WIN-Tools CD-ROM

This user guide provides a brief overview of the software included. The software programs are not described in this user guide. If you encounter difficulties or queries whilst using the program, you can refer to the online help for the individual programs. All programs offer extensive online help.

Program for setting up the system telephone (WIN-Tools)

- Professional Configurator:
  Setting and configuration of the phone's individual performance features are done in the configuration process. You can set up MSN extension numbers or program VIP keys and function keys. You can also configure the phone's displays, set the volume of various signals, select dialling options (when the phone is connected to a PABX) or set the parameters for dial ranges and charge logging.
  The Professional Configurator is also used for programming an optional answering machine or the optional n keyboard extensions.

- Phone Book Manager:
  Use the phone directory manager to create new entries for the phone directory (see page) or assign a special dial tone (VIP dial tone) to individual numbers. With the import / export function you can also import data from other programs or export data for further processing.

- Download Manager:
  Use this program for loading new firmware for the telephone with your PC. Anew firmware is loaded via the phone's PC port.

- Sound Manager:
  You can use the sound manager to create your own call signalling melodies at the PC and then load these melodies into your telephone.

☞ After data transmission, the system telephone is reorganised internally (e.g. phone book data). This process runs automatically and may take several minutes. During this time, you will not be able to access several functions on the system telephone (e.g. phone book).

Application program

- Adobe Acrobat Reader
  Program for viewing and printing PDF documents.

Driver

- `CAPI-driver` (Common ISDN Application Programming Interface)
  Links the telephone to programs that provide data communication functions.
  For example CAPI software (not included in the package)

- NDISWAN driver (NDIS - Network Device Interface Specification / WAN - Wide Area Networking)

Integration of the telephone into the PC as a special ISDN network card
e.g. Connection to the Internet via the Windows dial-up network

- TAPI driver (Telephony Application Programmer's Interface)
Interfacing to programs that provide computer-aided telephony.
e.g. Windows dialling assistant, CTI software (not included in the package)

- USB driver (Universal Serial Bus)
Recognition and control of the phone after connecting to the USB port of the PC.
e.g. WIN-Tools programs

Important note on installing the CAPI driver:

Before installing the new driver, you must remove any existing CAPI drivers (e.g. the driver for an installed ISDN card), as Windows only supports one installed CAPI.
Refer to the operating instructions for the device concerned, or for the operating system, for details on removing drivers.

In some cases, the inserted ISDN card make have to removed from the PC in addition to removing the driver.

Installing the program from the CD-ROM

Only Microsoft Windows operating systems are currently supported for connecting a PC to the system telephone via the USB connector.

PC requirements:

- IBM or 100% compatible PC.

- Pentium processor or similar processor with min. 133 MHz clock speed

- Min. 32 MB RAM

- CD ROM drive.

- Free USB connector.

- Operating system Windows 98SE / ME / 2000 / XP.

- Min. 80 MB free space for the installation.

Installation sequence

- Start your PC.

- Place the CD-ROM provided in the CD-ROM drive of your PC.

- Wait until the program is launched automatically. If autostart is disabled on your PC, run the file »setup.exe« directly from the directory on the CD-ROM in Windows Explorer (double-click the file) or select the Run« option in the Windows Start menu.

- After executing the file, the start screen of the CD-ROM will appear.

- Install the driver and program in the following sequence:
CAPI driver

WIN-Tools programs
TAPI driver
CTI software (not included in the package)
CAPI software (not included in the package)
NDISWAN driver

- Set up the USB connection between the system telephone and PC as described on page 7. The PC automatically recognises the connection system telephone.

☞ When connecting the system telephone to a PC for the first time, the device driver installation starts automatically. The device driver can be found in the directory on the CD-ROM. Follow the instructions on the screen.

- You can now use the system telephone in conjunction with the installed PC programs.

Basic system telephone settings

- Name of system telephone matches serial number of system telephone.

- Display language: German

- Country-specific settings: German

- No numbers (MSN) saved.
  Call melody volume: Level 3, call melody: Number 1; no forwarding or call diversion numbers, no MSN name, MSN cost account deactivated, MSN PIN: 0000, MSN not blocked for dialling

- No entries in the caller/message list and the redial list.

- No entries in phone book or in VIP memory.

- Function keys not programmed (speed dial, functions, macros).

- 10 call melodies saved. 10 free memory slots for other melodies.

- No UUS1 text messages saved.
  Text messages can be received from internal (PABX) and external senders.
  No automatic sending of text message with a call.

- Do not disturb is switched off.

- Display contrast: Level 4

- Loudspeaker volume: Level 4 Receiver volume: Level 2

- Acknowledgement and error tones active

- Appointment call volume: Level 3

- Attention tone volume for do not disturb: Level 3

- Waiting tone volume: Level 3, waiting tone retry activated

- No output of audio signals via the audio-out connector

- The call number is transmitted for incoming and outgoing connections (CLIP / COLP).

- Display for telephone number and costs set up. The call duration is displayed if no cost information is available.

- Information is displayed at the end of the call (e.g. duration)

- Cost information: Tariff 0.062 and currency EUR

- Call waiting deactivated.

- Appointments deactivated. No appointment information saved.
  Date: 11.11.02 / Time: 11:11

- Time for automatic call pick-up: immediately

- Headset use not set up. Headset type: Default

- Dialling status during a connection: Tone dialling (MFC)

- Microphone switched off after dialling with receiver replaced.

- Call filter deactivated, no filter number saved.

- Automatic direct dialling deactivated, no speed dial numbers saved.

- System telephone PIN: 0000

- Dial control deactivated, no blacklist/whitelist numbers saved.

- Menu access not protected by PIN.
- PABX dialling code: button is pressed.
- Length of internal extension to PABX: 4
- Park code: 55

Technical Data

Dimensions (W x H x D):	approx. 255 mm x 180 mm x 100 mm
Weight:	approx. 0,8 kg
Temperature range Operation: Storage:	+5°C … +40°C -25°C … +70°C

S-connector

Length of connecting cord:	approx. 6 metres
S-connector:	Protocol DSS1, point-to-multipoint connection
Channel structure:	B + B + D
Power consumption:	<=1 Watt

U-connector (CS410-U)

Length of connecting cord:	approx. 6 metres
U-connector:	DSS1 protocol, point-to-point
Channel structure:	B + B + D
Power consumption:	<=1 Watt
Output:	S-connector, DSS1 protocol, point-to-multipoint connection
Output power supply:	max. 1 Watt

USB connector

Length of PC connecting cord:	approx. 3 metres
Terminal:	Self-powered terminal
Speed class:	Full Speed
USB standard:	1.1

Audio connectors

Length of PC audio cable:	approx. 2.5 metres, 3.5 mm stereo jack plug

Ethernet connection

Ethernet connection interface	Cat.5 approx. 3 metres

Answering machine

☞ Firmware > V4.20 is required on your system telephone to operate this module.

The answering machine module allows you to expand your system telephone with a digital answering machine offering numerous functions. This documentation describes how to use the module in system telephones **elmeg CS410** and **CS410-U**. Support for the answering machine module is already prepared in the software for this system telephone
However, the scope of functions offered by the answering machine depends on the software used on the system telephone. The functions described in this document are based on the latest software version of the system telephone at the time of writing or printing.

Answering machine functions

- Up to 48 minutes recording capacity for normal voice recordings.

- Special answering machine button for switching on or off.

- Advanced functions of the call LED. This LED lights up in another colour if the answering machine is switched on and flashes when a new message is available.

- 10 announcements, 4 information messages, forwarding message, termination message and message when the answering machine is full.

- Recording of dictations.

- Individual configuration and consultation of recorded messages for each call number (MSN).

- Time control of announcements for each call number (daily) or for the call numbers »MSN – 1« to »MSN – 3« (weekly profile).

- Adjustable recording quality of announcements (normal, good, excellent).

- Recording calls.

- Listening in during recording.

- Remote access protected by PIN.

- Automatic notification (retransmission) for recorded calls via call, UUS1 or SMS.

Contents of package

- Answering machine module

- PC-audio cable (3.5 mm stereo plug, approx. 2.5m)

- Self-adhevise name-plate

- Operating instructions

Installation

☞ The answering machine module may only be installed by a specialized dealer, or by authorized service personnel.

Preparations for Installation (see figure)

- Please observe the safety notes in the instruction manuals for your telephone.

- Unplug the ISDN connector for the telephone from the ISDN outlet.

- Place the telephone face down on a soft surface so that you can read the nameplate on the bottom of the phone.

- Unplug any connecting cords ① that may be attached (ISDN, handset, headset, PC).

- Remove the two rear feet ② and then loosen the three screws ③.

- Carefully lift off the bottom enclosure half of the telephone. You will then be able to see the printed circuit board (pcb) of the telephone.
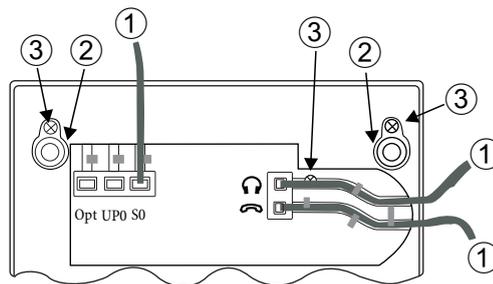
Figure: 1

Installing the module (see figure 2)

- The plug connector ③ for connecting the answering machine module is located on the right section of the telephone pcb ④ near the handset and headset jacks.

- Plug the socket connector ② for the answering machine module ① into the plug connector for the pcb ③ and ensure that it fits properly and snugly.

- Close the enclosure by replacing the bottom half and tightening the two screws. Insert the rubber supports.

- You can also attach the adhesive nameplate included with the system to the bottom of the phone to label the answering machine in the telephone.

- To complete installation, re-connect the connecting cords (for example ISDN port, handset, headset, PC) to the telephone.

Figure: 2

Connecting the audio sockets (Audio in / Audio out)

The telephone is equipped with an input ① and an output ② for audio signals. Both these ports have a 3.5 mm stereo socket. You can connect the telephone via these ports to the PC sound card in order to upload announcements into the phone or save recorded messages on the PC.

Connect the telephone to the PC sound card as shown in figure 2. Use the supplied audio cables ③ for this purpose.
Telefon Audio in ① —-> PC, e.g. sound card Line Out ⑤
Telephone Audio out ② —-> PC, e.g. sound card Line In ④

☞ Please observe the instructions given for the audio connections of the PC or sound card.

Incoming calls will not be signaled if you are in the answering machine menu and the functions Audio In or Audio Out are active. The caller will hear the busy signal.
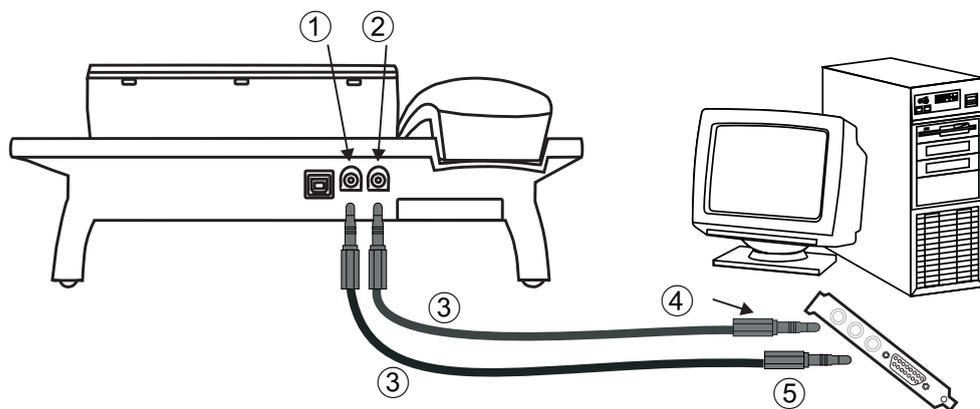
Figure: 3

Answering machine operation

To access the telephone's answering machine menu, press the menu button and then the »Answering machine« softkey.

```
Ans. mac.              →
Time rem. 48:54      Off
                Messages
Anncs.
                  Local
Activate

```

Configuring the answering machine

You can configure the answering machine right at the telephone itself or by means of the Professional Configurator supplied on the WIN-Tools CD-ROM. Please observe the instructions in the system telephone manuals.

General configuration

Switch answering machine on/off

👄   To switch the answering machine on or off, press the answering machine button (top right softkey). The call LED lights up when the answering machine is switched off.

☞ You can only switch on the answering machine if call recording has been activated for at least one number (MSN) (see page 105).

Setting listening in

You can listen in when a message is being recorded over the telephone loudspeaker. You can set this function in the configuration for all incoming calls or during a recording for individual calls.

Start as follows:

📞	Menu	▶
	Answering machine	
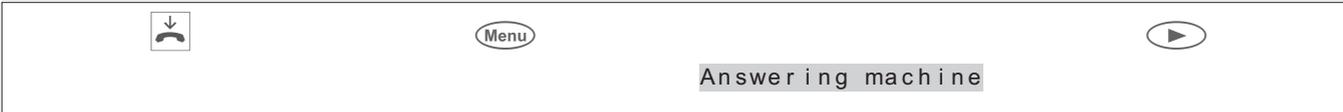
```
Answ. machine menu ←→
              Listen

        Messge. contin.
Delete texts
          Remote polling
```

Press the »Listen in« softkey. Listening in is switched on or off.
If a cross (»√«) is shown next to the softkey, the function is activated. Press the softkey again to deactivate the function again. The cross is deleted.

Automatic notification (retransmission) of recorded messages

You can set the answering machine so that it forwards calls to a preset number when a certain number of recorded calls (messages) is reached.

Start as follows:

📞	Menu	▶
	Answering machine	Retransmission
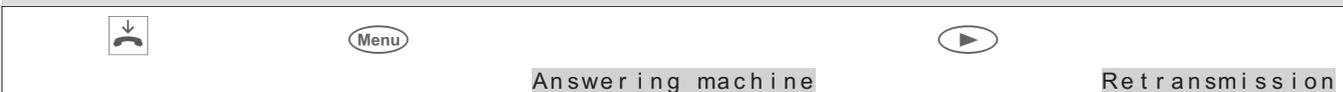
If a cross (»√«) is shown next to the softkey, the function is activated.

The first line shows the current setting (»Off«).

```
Messge. contin.:
          Off

              to>_
Number of calls:   10
              Off
save
            back
```

⌨   Use the keypad on the telephone to enter the number (max. 20 digits) to which calls are to be retransmitted. If a number already exists, delete this by pressing the left arrow button.

Press the »Number of calls:« softkey to set the number of calls (messages) at which automatic retransmission should start. The various options are displayed in turn by pressing the softkey.
E.g.: »1«, «2«, ..., »10«, »15«, »20« or »30«.

Press the »Off« softkey to deactivate retransmission. The various options are displayed in turn by pressing the softkey.

»On, announcement«   Retransmission is carried out by initiating a call with the forwarding message or a request tone. The new messages can then be listened to.

»On, message/SMS«   You are notified of the new message by SMS.

»On, message/UUS«   You are notified of the new message by UUS1.

Press the »Save« softkey to apply the new settings. Press the »Back« softkey to exit the menu without saving the settings.

If automatic notification is switched on, this is indicated on the display by »x« when not in use. The costs incurred from automatic notification are allocated to the ISDN connection (the MSN) to which the telephone is connected.

Retransmission process

If the set number of recorded messages is reached, automatic notification is initiated to the preset number (call, UUS1 or SMS). Following successful retransmission, the counter for the number of recorded messages is deleted. The next notification is sent when the set number of messages is reached.

If retransmission cannot be completed (e.g. the extension is busy on a call), up to five retries are made. After five unsuccessful retries, retransmission is aborted and restarted when the next new message is received.

Save text message for retransmission (SMS / UUS1)

Start as follows:

Enter the text. The length of the text is limited to 160 characters (SMS) or 31 characters (UUS1).
Example: »Five new messages on your answering machine at home.«.
Confirm your entries with OK.

Text on forwarding
Answering machine
SMS>Five new messages on your answering machine at home

If no text is saved, a standard text saved on the telephone is used to send the text message (SMS or UUS1).

Delete all calls, all dictations or all texts

You can delete calls, dictations or all texts on the answering machine.

Start as follows:

Choose whether you want to delete calls, dictations or all texts on the answering machine by pressing the respective softkey.
E.g.: »Delete all?«.

```
Delete texts
Delete all texts

Delete all calls

Delete all dictations
                    back
```
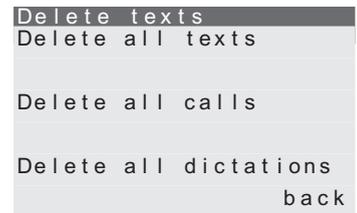
If you want to delete anyway, press the »Yes« softkey.
If you do not want to delete the saved calls, press the »no« softkey.

```
Delete all calls?


No
                    Yes
```
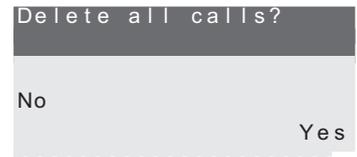
☞ **Caution:** If you delete all texts, this will also delete all of the settings on the answering machine. This restores the basic settings on the answering machine.

Configuring remote operation

You can configure the answering machine so that it can be operated remotely from another telephone.

☞ Remote operation of the answering machine is protected by the telephone PIN and is only available by dialling the first number recorded in the telephone (»MSN-1«).

Remote operation: e.g. Switch answering machine on/off, listen to or delete messages, listen to, delete or record announcements, activate announcements for individual MSNs, set up automatic notifications for recorded messages

Start as follows:

⤓	Menu	▶
	Answering machine	

```
Answ. machine menu

                 Listen

      Messge. contin.
Delete texts
          Remote polling
```
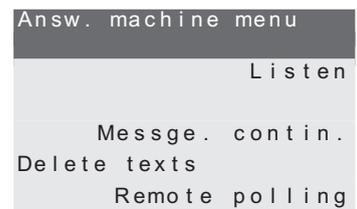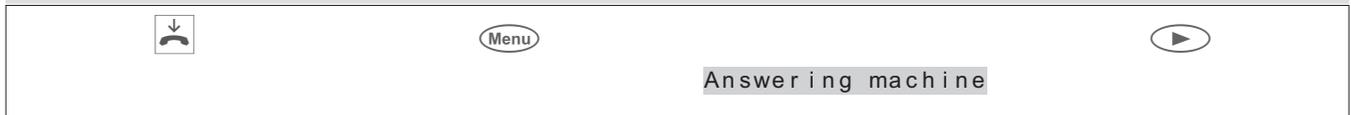
Press the »Remote operation« softkey. Remote operation is switched on or off.
If a cross (»√«) is shown next to the softkey, the function is activated. Press the softkey again to deactivate the function again. The cross is deleted.

☞ If remote operation is switched on, this is indicated on the display by »x« when not in use.

Setting the voice quality of announcements

You can set three different voice qualities (»Normal«, »Good« or »Excellent«) for all of the texts recorded on the telephone (announcements, information messages and dictations). As the voice quality increases, the maximum number of recorded messages decreases.
Recorded messages from callers and recordings are always recorded at »Normal« quality.

Start as follows:

↓↘	(Menu)		(▶)
		Answering machine	Voice quality

Press the softkey for the chosen voice quality: The cross indicates
the current status. E.g. »Good √«.
To exit the menu, press the »back« softkey.

```
Speech quality
time rem. 48:54
                    normal
very good
                    good

                    back
```
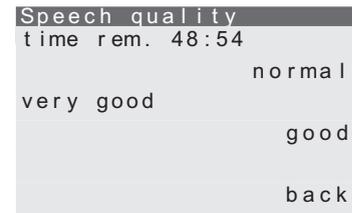
In addition to the »Voice quality« softkey, the »Answering machine menu« also shows the current status (No charac-
ter - Normal, »+« - Good, »++« - Excellent).

Listening to calls / messages sorted by number (MSN)

Messages left on the answering machine are saved in listed. You can configure these lists to be sorted by the call num-
ber (MSN) for which a message has been left when listening back to messages.

Start as follows:

↓↘	(Menu)		(▶)
		Answering machine	

```
Answ. machine menu


            Speech quality

Calls sort. by MSNs
```
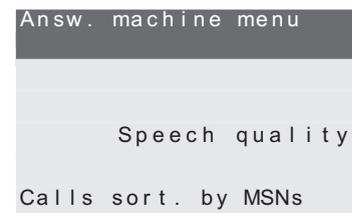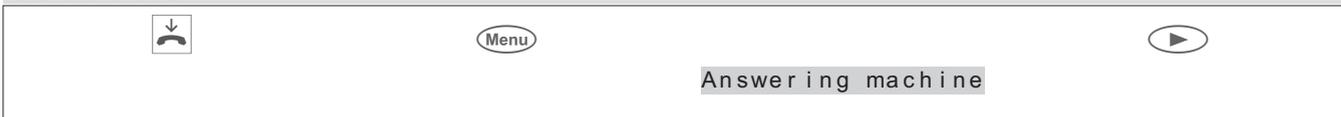
Press the »Calls MSN-sorted« softkey.
If a cross (»√«) is shown next to the softkey, the function is activated. Press the softkey again to deactivate the functi-
on again. The cross is deleted.

In the basic answering machine settings, messages for all numbers (MSN) are saved in a single list. If you have set up
message sorting by number (MSN), you can select the corresponding number (MSN) of the messages you would like
to hear before listening back to the messages.

Announcements, information messages and dictations

You can save various announcements, information messages or dictations on the answering machine.

Announcements:	You can save to 10 announcements. If the answering machine receives a call, the cal-ler hears the announcement that is assigned to the number (MSN) dialled.
Closing message:	Special announcement that a caller receives after leaving a message, if the recording time is limited.
Forwarding message:	Special announcement that can be used for information at the start of an automatic notification (see page 100). After recording, this announcement must be activated.
Announcement when AM full:	Announcement that a caller receives when the memory is full. 1.) if less than 30 seconds of recording capacity is free before a message is left. 2.) if there is no memory left whilst recording a message. After recording, this announcement must be activated.

Information messages: Recording of up to four messages that are saved individually and can be enabled or disabled as messages for other users of the telephone.

Dictations: Recording of messages that are saved in sequence (max. 99 depending on the memory remaining).

👉 The recording of announcements, information messages or dictations is described below using the example of announcement message 1.

Recording, listening to or deleting announcements

Start as follows:

📞   (Menu)

Answering machine   Announcements   Select announcement   Announcement 1
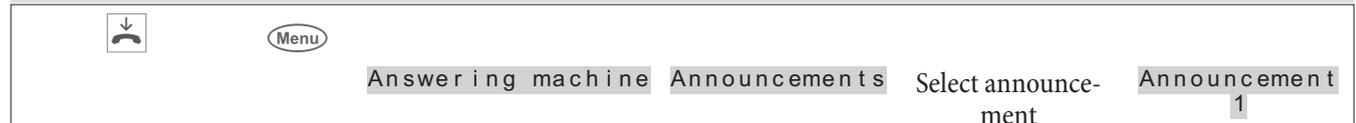
Record announcement on telephone:

📞   Lift the receiver of the telephone and then press the »Record« softkey.

```
Anncm.-1
Time rem. 48:54
      Record, Audio In
Record
```

Speak the announcement over the telephone receiver. End recording by pressing the »Stop« softkey.

```
Anncm.-1
      Recording
                              Stop
```
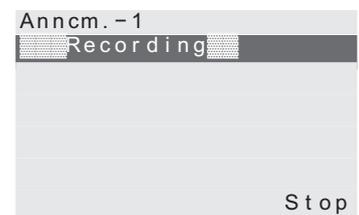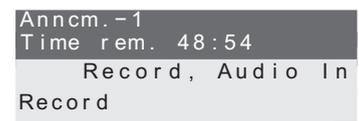
Load announcement of the audio connector (audio in):

You can load announcements from a PC to the telephone via the audio-in connector on the telephone. The enclosed CD-ROM contains WAV files that you can load on to the telephone as greeting or termination messages.

👉 Use a suitable programme to transfer the WAV files (e.g. Media Player).

Press the »Recording,Audio-In« softkey and start the playback of the desired file on the PC.

```
Anncm.-1
Time rem. 48:54
      Record, Audio In
Record
```

End recording by pressing the »Stop« softkey.

```
Anncm.-1
   ---Recording---
Audio In


Stop
```
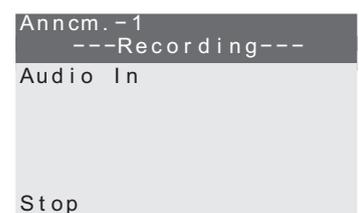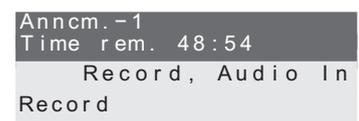
Listening to or deleting announcements

If you want to listen to the recorded announcement, press the »`Listen`« softkey. To delete the save announcement, press the »`delete`« softkey.

```
Anncm.-1
Time rem.  48:01


Record


delete

             listen
```

☞ In the menus, a cross next to a corresponding entry (e.g. »`Announcement-1 √`«) means that a message is saved for this entry.

Information messages and dictations

Start as follows:

📞	**Menu**		
		`Answering machine`	`Local`

```
Record/Set local
message
               Info-3
Info-1
               Info-4
Info-2
               Dicts.
```

Press the corresponding softkey to record information messages or dictations. For recording proceed as described for announcement 1.

☞ After recording, the information message must be activated.

Activating message recording for each number (MSN)

You can configure the answering machine for each number (MSN) saved separately or jointly for all saved numbers.

The answering machine can only be configured, if:

- the number (MSN) is saved in the telephone configuration. If you have assigned a name to a number in the telephone configuration, the softkey names »`MSN-1`« ... »`MSN-10`« are replaced with the corresponding names in the menus.

- At least one announcement has been saved (see page 103).

Start as follows:

📞	**Menu**		
		`Answering machine`	`Activation`

```
Activate
announcement
                    MSN-3
MSN-1
                    MSN-4
MSN-2
                    MSN-5
```

The softkey for an MSN is only displayed if the MSN is saved in the telephone configuration.

The procedure for configuring the answering machine is described below using the example of number MSN-1. Press the »MSN-1« softkey.

The first line shows the status of the answering machine for the number dialled (»MSN-1:Off«). The other lines allow you to make various settings using the respective softkeys.

```
Setting MSN-1:
Off
                  Speak
Active after:    2 sec
                     ON
Anncm. dial
                Options
```

Press the »Options« softkey to access a menu with other settings. The status for the corresponding function is displayed in the line under each softkey.
Press the ⃝C key to exit a menu.

```
Options for MSN-1
Sign-off :
                    Off
Time-controlled:
                    Off
Message length:
               infinite
```

Setting the operating mode

Press the »Record« softkey to set the operating mode of the answering machine. The various options are displayed in turn by pressing the softkey.

»Record«   A caller hears the configured announcement and can leave a message after the tone.

»Announcement only«A caller hears the configured announcement only and cannot leave a message.

Setting the duration of call signalling

Press the »Active after:« softkey to configure the time (in seconds) after which the answering machine should accept a call. The following options are displayed in turn and configured by pressing the softkey. »0 sec«, »2 sec«, »5 sec«, »10 sec«, »15 sec«, »20 sec«, »25 sec«, »30 sec«, »60 sec« or »120 sec«.

Select announcement

Press the »Select announcement« softkey to select the announcement that you want the caller to hear. If several announcements are available, you can display all of the saved announcements in turn by pressing the »Next announcement« softkey. At the same time you will hear the selected announce-

ment over the loudspeaker or receiver of the telephone.
E.g.: »`Anncmt.-1`«, »`Anncmt.-2`«, ..., »`Anncmt.-9`« or »`Anncmt.-10`«.

Activating an announcement for a number (MSN)

Press the »`Enable`« softkey to enable the announcement for the number MSN-1. In the first line the status is changed to »`MSN-1: On`« and the softkey in »`Off`«. Press this softkey to disable the announcement.

After configuring the answering machine, you will see important information e.g. the adjacent display.
Press the »`Options`« softkey to make further settings.

```
Setting MSN-1:
On
                   Speak
Active after:     20sec
                     OFF
Anncm.-2
              Options
```

Activating the termination message

The termination message is a special announcement that a caller hears in addition to the announcement configured for the number (MSN) dialled. The termination message can only be activated if it has been recorded in advance (see page).

If the »`Record`« setting is configured, a caller hears the configured announcement first and can leave a message after the tone. If the permissible message length is reached and a termination message is saved, the caller hears the message.

If the setting »`Announcement only`« is configured, a caller cannot leave a message. He hears the announcement and then the saved termination message.

Start as follows:

↓☎ (Menu)
         `Answering machine`   `Activation`   `MSN-1`   `Options`

Press the »`Termination message`« softkey. The termination message is enabled or disabled.
The status of the function (»`On`« or »`Off`«) is displayed in the line under the softkey.

```
Options for MSN-1
Sign-off :
                     Off
Time-controlled
                     Off
Message length
             infinite
```

Message length

You can configure how much time a caller has available to record a message. Depending on the operating mode selected, recording ends after the configured time.

☞ In the basic answering machine settings, the message length is set to `Endless`«. In the »`Record`« operating mode and when the termination message is enabled, the message length in the basic setting is configured to »`30 secs`«.

Start as follows:

↓☎ (Menu)
     `Answering machine`   `Activation`   `MSN-1`   `Options`   `Message length`

Press the softkey for the chosen message length: A cross indicates the current setting.

```
Limit message


30 sec
                   120 sec
60 sec
                  infinite
```

Ⓒ　　Once the settings have been configured, you will see the adjacent message. Press the C key to exist the »Options« menu.

```
Options for MSN-1
Sign-off :
                      Off
Time-controlled:
                      Off
Message length
                   60 sec
```

Time control

Time control allows you to specify that the caller hears different announcements at various times of day. Time control can only be enabled if the answering machine has already be enabled for the dialled number (MSN).

☞ If the time control is switched on, this is indicated on the display by »x« when not in use.

Start as follows:

📞　　　（Menu）

Answering　　Activation　　MSN-1　　Options　　Time con-
machine　　　　　　　　　　　　　　　　　　　　trol

In this menu you can configure the periods and time control for a number (MSN). A weekly profile can only be set up for numbers MSN-1 to MSN-3.

```
Time-controlled
Weekly prof.:      Off

Daily:             Off

Define times
```

Set time

On your telephone you can set up nine different periods (»Time 1« ... »Time 9«) that you can then use in the time controls for individual numbers (MSN).

The periods set up apply to all numbers (MSN). If you change a time that is already used for another time control, this change also applies to the other time control.

Press the »Set time« softkey in the Time control« menu.

◄ ►　　Select a period with the arrows and confirm with ⓞⓚ.
ⓞⓚ　　Example: »Time 1«.

```
Define times        ←→
Time 1:
       13:00 to 13:30
Time 2:
       13:00 to 13:30
```

▦	Enter the desired period using the keypad. The cursor below the time indicates the current input position.	```Define times:
Time 1

Time fr.
     14:00 to 18:00
                 back``` |
| ◯ OK | Confirm your entries with ◯ OK. | |

☞ The times for a define period always apply to the same day. If you assign the period 18:00 to 08:00 to Monday, for example, this means: Monday morning 00:00 to 08:00 and Monday evening 18:00 to 24:00.

Time control »Daily«

For this time control you assign a period to a number (MSN) (to so-called »Primary time«) during which callers receive a specific announcement. For other times outside of this period (the so-called »Remaining time«) you can configure another announcement. This time control applies to each day and can be set up for all numbers (MSN).

Press the »Daily« softkey in the »Time control« menu.

Press the corresponding softkey to set up time control.	```Daily/MSN-1:
Off
Main time: Off
not active   (-)
ON
Remaining: Off```

The periods configured are displayed in turn by pressing the »Inactive« softkey.

Press the »Primary time« softkey to select the announcement that you want the caller to hear during the chosen period. Press the »Remaining time« softkey to select the announcement that you want the caller to hear outside of this period.
If several announcements are available, you can display/listen to all of the saved announcements in turn by pressing the »Next announc.« softkey.
E.g.: »Anncmt.-1«, »Anncmt.-2«, ..., »Anncmt.-9« or »Anncmt.-10«.

Press the »Enable« softkey to enable the time control. In the first line the status is changed to »On« and the corresponding softkey is changed to »Disable«.
Press this softkey to disable the weekly profile.

◯ OK Confirm the settings with ◯ OK to exit the time control menu.	```Daily/MSN-1:
On
Main time: Anncm.- 1
13:00 to 13:30   (2)
OFF
Remaining: Anncm.- 3```

Time control »Weekly profile«

Alternatively you can set a weekly profile as time control for the numbers »MSN-1«, »MSN-2« and »MSN-3«. In a weekly profile, you can assign different periods to each day during which various announcements can be heard (the so-called primary time).
During the time outside of the period selected (the so-called »Remaining time«) you can set up another announcement. This announcement is identical for all days of the weekly profile. Like the main time, you can also assign

another operating mode to the remaining time in a weekly profile. For example, during the main time you can allow messages to be left, whilst during the remaining time no messages can be recorded.

Press the »`Weekly profile`« softkey in the `Time control`„ menu.

Press the corresponding softkey to configure the primary/remaining times or to enable time control.

```
Weekly prof./MSN-1:
Off

Define main times

                    ON

       Define rem. Time
```
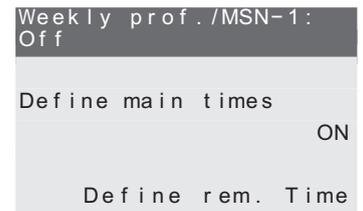
Press the »`Define primary times`« softkey to define the periods for the individual days of the week and the announcement for the so-called primary time.

To set up announcements and operating modes for the remaining periods of all days of the week, press the »`Define remaining time`« softkey.

Press the »`Enable`« softkey to enable the weekly profile. In the first line the status is changed to »`On`« and the corresponding softkey is changed to »`Disable`«.
Press this softkey to disable the weekly profile.
If you enable the weekly profile, any activated daily time controls are disabled automatically.

Setting up primary times

Press the »`Define primary times`« softkey in the `Weekly profile`« menu.

Press the corresponding keys and softkeys to define the announcements and the periods for the so-called primary time for the individual days of the week. Example: »`Monday`«

```
Define
main times:      Monday

not active          (-)
not active          (-)
Ans. mach. inactive
```
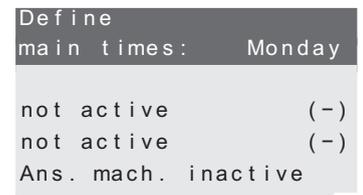
Press the »`Answering machine inactive`« softkey to select the announcement that you want the caller to hear during the chosen period.
If several announcements are available, you can display all of the saved announcements in turn by pressing the »`Next announc.`« softkey.
E.g.: »`Anncmt.-1`«, »`Anncmt.-2`«, ..., »`Anncmt.-9`« or »`Anncmt.-10`«.

The periods configured are displayed in turn by pressing the »`Inactive`« softkey. E.g.: »`Time 1`«, »`Time 2`«, ..., »`Time 9`«.
You can define two periods during which a caller will hear the selected announcement.

If you want to configure other days, press the arrow keys.

⊂OK⊃　Confirm the configuration of the primary times for the weekly profile with ⊂OK⊃.

```
Define              ←→
main times:      Sunday

13:00 to 13:30      (1)
15:00 to 18:00      (4)
Anncm.-1
```
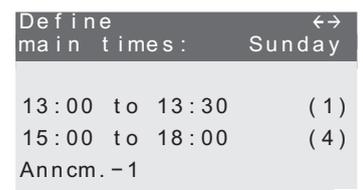
Configuring the remaining time

Press the »`Define remaining time`« softkey in the `Weekly profile`« menu.

Press the corresponding softkey to define the operating mode and the announcement for the remaining time. These settings apply to all days of the week.

```
Define rem. Time

                  Speak
Sign-off :
                  Off
Remaining:
Ans. mach. inactive
```

Press the »`Record`« softkey to set the operating mode during the remaining time. The various options are displayed in turn by pressing the softkey (see page 106).

Press the »`Termination message`« softkey to enable or disable the termination message (see page 107).

Press the »`Remaining time`« softkey to select the announcement that you want the caller to hear outside of the configured primary times.
If several announcements are available, you can display all of the saved announcements in turn by pressing the »`Next announc.`« softkey.
E.g.: »`Anncmt.-1`«, »`Anncmt.-2`«, ..., »`Anncmt.-9`« or »`Anncmt.-10`«.

(OK)   Confirm the configuration of the remaining times for the weekly profile with (OK).

```
Define rem. Time

                  Speak
Sign-off :
                  On
Remaining:
             Anncm.-4
```

Operation

If new messages, new dictations or enabled information messages exist on the answering machine, these are signalled by a flashing call LED when the answering machine is switched on. Information on the number of new messages appears on the display.

☞ New messages on the answering machine that are shorted than two seconds are not saved. E.g.: A caller terminates the connection after the tone without leaving a message.

Whilst listening to message, you can adjust the volume of the loudspeaker or receiver.

To do this, press the menu key followed by the arrow keys. To return to the normal display whilst listening, press the (ESC) button. If you confirm with the (OK) button instead of the (ESC) button, you will overwrite the current value (see acoustic settings on your telephone).

Listening to new messages

The number of new messages appears on the display.
Press the »`Ans. Mac. Mess.`« softkey.

```
01.01.09 07:21      →
Info           -T-S-r-x-
Ans.mac.mess.:8
Tel. drctry
```

☞ You will only see the following display if several new messages are saved on the answering machine.

You will now see detailed information on the type of new messages.
Press the softkey next to the message that you would like to listen to.

```
Answering  machine
New  calls              =4

New  dictations         =3

Info  texts             =1
```

If you have configured MSN sorting for listening to messages, press the softkey for the call number (MSN) for which you would like to listen to the messages.

```
New  calls  sorted   ←→

                MSN−3=00
02=MSN−1
                MSN−4=01
```

☞ The procedure for listening to messages is described below using the example of new calls. Press the »New calls« softkey.

After pressing this softkey, all new messages are played back automatically in turn. Press another button automatically ends playback. You can now control message playback manually using the keys described below.

```
New  call−01         ←→
Date:  01.01.09  07:21
                  MSN−1
Pause
              repeat
delete
              Stop
```

»◄ or ►«   You can switch to the previous (»◄) or to the next (»►«) message.

»Pause«   Press the »Pause« softkey to stop listening to a message.
              If you want to continue listening to the message, press the »END PAUSE« softkey.

»repeat«   Press the »repeat« softkey to listen to the last message again from the beginning.

»Stop«   Press the »Stop« softkey to end playback of the message.
              In the following menu, you can listen to the message again, delete the message or view the caller's number. To do this, press the corresponding softkey »listen«, »delete« or »number«.

If you have listened to a new message in full, this is deleted from the list of new messages and moved to the list of old messages.

If you have listened to all new calls, you will see the adjacent display. To listen to more new messages, proceed as described for »New calls«.

```
Answering  machine
New  calls              =0

New  dictations         =3
```

Listen to all messages, dictations, information messages or recordings

Start as follows:
📞   Menu   Answering machine   Messages

```
Poll message            →
Calls            New=00
                 Old=04
Dicts.           New=03
                 Old=00
Infos            On=01
                 Off=00
```

```
Poll message            ←


Logs                =00

Audio-Out:          Off
```

⬤   You can see the type and number of new and old (played) messages. After pressing the right arrow, you will see the number of call recordings (see page 114).

Press the corresponding softkey to listen to the messages. To listen to the messages, proceed as described on page 111.

Output messages via the audio connector (audio out)

The telephone has an audio output (audio out). Recorded messages can be played back via this output and saved on a PC, for example, with sound ports (see page 101).

Start as follows:

📞↓	Menu			⬤
		Answering machine	Messages	Audio-Out
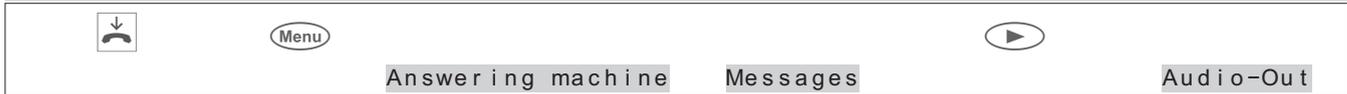
Press the »Audio-Out« softkey to switch message output on or off. In addition to the softkey you will see the current setting.
»On«: Loudspeaker/receiver and audio-out.
»Off«: Only loudspeaker/receiver.

```
Poll message            ←


Logs                =01


Audio-Out:           On
```

👉 Messages can only be output via the »Audio-Out« connector when the receiver is replaced (»loudspeaker« function).
Use a suitable program to record messages on the PC.

Picking up a call from the answering machine

To accept a call that is currently leaving a message on the answering machine, listening in must be enabled (see page 100). You can set listening in in the configuration for all incoming calls or during a recording for individual calls.

When recording on the answering machine you will see the adjacent display.

```
2200
    ---Recording---

Caller MSN-1

Listen ON
```

Listening in:
»Listen ON« indicates that listening in can be activated by pressing this key.
»Listen OFF« indicates that listening in is already activated and can be switched off by pressing this key.

```
Caller MSN-1

Listen OFF
```

☝ ✆   To pick up the call, lift the telephone receiver when listening in is
        enabled.

```
2200                    →
00:35              MSN-1
Memo
display
```

Passing a call to the answering machine

You can only pass a call to the answering machine if an announcement has been assigned and activated for the signal-
led number (MSN). This is also possible when the answering machine is switched off.

☟	《▷》	▶
		Pass to AM

Recording a call

If you have accepted a call, you can record the conversation. The call is saved on the answering machine.

☞ **Caution:** Inform the calling party that you are recording the call. You may only record calls if the answering
machine is not already recording.

☟	《▷》	☝	✆
			Call without recording

▶ ⓒ   Press the right arrow key and then the »record« softkey to start
        recording the call.

```
2200                    →
00:55              MSN-1
display
Memo
```

Press the »Stop« softkey to end and save the recording. If you
want to end recording without saving it, press the »delete«
softkey.

```
Log-01
    ---Recording---



delete
Stop
```

✆   You can now continue the call. The display returns to normal du-
     ring a connection.

```
2200                    ←
03:51
edit
```

☞ Calls can be recording when telephoning one or more parties (conference).

To listen to a recording, proceed as described on page 112of this user guide.

Remote operation

You can access the answering machine remotely from any telephone using MFC suffix dialling, for example, in order
to listen to messages. Remote operation is only available via the number »MSN-1« entered first in the telephone.

☞ Remote operation of the answering machine is protected by the telephone PIN and is only available if this is
enabled on the telephone (see page 102).

The following conditions/settings are possible remotely:

- Switch answering machine on/off

- Query available memory capacity

- Listen to new and old messages or enabled information messages

- Delete individual messages

- Delete all messages

- Listen to, delete or record announcements

- Enable / disable announcements for a number (MSN)

- Enable / disable or configure automatic notification (retransmission)

Tones during remote operation

During remote operation you hear various tones that notify you of the status of individual entries or actions.

Positive acknowledgment tone (1 long tone):	The entry has been accepted and saved by the telephone.
Request tone (2 short tones):	The telephone expects a code to be entered or a new announcement to be recorded.
Negative acknowledgment tone (4 short tones):	The entry was incorrect and has not bee accepted by the telephone. The code entered or the requested action cannot be performed. E.g.: Activation of an announcement for a number that is not saved in the telephone.

Initiate remote operation (answering machine enabled)

☎	⊞	☏	#	⊞	#	⋯
	Dial call number (MSN-1)	Answering machine announcement		Enter PIN		

Caution: The »# PIN #« must be entered during the announcement. After the positive acknowledgment tone has sounded you can carry out other procedures remotely.

Switching on a disabled answering machine remotely

☎	⊞	after approx. 90 seconds	⋯	# PtIN	⋯	✳ 0 1	⋯
	Dial call number 1 (MSN-1)		Request tone	PIN enter		Switch on answering machine	

A disabled answering machine can only be operated remotely if if an announcement has been set up and activated for the number 1 (MSN-1).
After the positive acknowledgment tone has sounded you can carry out other procedures remotely.

Accept automatic notification (retransmission)

«☎»	☎	☏	#	⊞	#	⋯
		You hear a request tone or the forwarding message		Enter PIN		

Once recorded, the »F o r w a r d i n g m e s s a g e« is played at the start of the message. If this announcement is not recorded and enabled, you will hear a request tone.
If the notice is picked up by entering the »# PIN #«, you can dial the other remote polling access numbers.

Remote operation access numbers

Once the remote control has been initiated successfully, you can operate the individual functions with the following access codes.
To end remote polling, replace the receiver after entering the last access number.

☞ Inserted codes can only be used when listening to texts (messages, announcements, info texts).

General codes

✳00~ Switch answering machine off

✳02~ Query available memory capacity
The available memory capacity for leaving messages is indicated by individual tones. Each tone represents three minutes of memory capacity.

Listen to or delete messages, hear info texts

10~ Listen to new messages

11~ Listen to old messages

12~ Listen to enabled information messages

#~ Listen to the next message

✳~ Listen to the previous message

0~ End retransmission of the current message

2~ Delete the message already listened to

22~ Delete all old messages

Listen to, delete or record announcements

The current playback/recording of an announcement is ended by pressing the »0« button. If the »2« button is pressed during playback/recording, this announcement is deleted.
When deleting an announcement, which is already assigned to a number, all corresponding settings (e.g. operating mode, duration of call signal, message length and time control) are deleted.
If you want to modify an existing announcement, you can record a new message without first deleting the current announcement. The »old« announcement is overwritten by the new recorded announcement. All corresponding settings for this announcement and the assigned number (e.g. operating mode, duration of call signal, message length and time control) are retained.

0~ End retransmission/playback of the current announcement

2~ Delete the announcement currently being listened to/played back

`1` `3` `X` `~`	Listen to announcement	X: ! …), = Select announcement (1…9, 10)
`2` `3` `X` `~`	Delete announcement	X: ! …), = Select announcement (1…9, 10)
`3` `3` `X` `~`	Playback announcement	X: ! …), = Select announcement (1…9, 10)

☞ The announcement assigned to the first number (MSN-1) cannot be deleted remotely.

Enable / disable announcements for a number (MSN)

An announcement can only be enabled/disabled during its retransmission for a call (MSN). An announcement for a number (MSN) is enabled with the following permanent settings:
Duration of call signalling: »05 seconds«, operating mode: »Record«, message length: »Infinite« and time control deactivated.

`*` `*` `X` `*` `~`   Enabling the current announcement for a number:
         X: ! …), = Select number (1…9, 10)
         or * for all numbers (MSN)

`*` `#` `X` `*` `~`   Disabling the current announcement for a number:
         X: ! …), = Select number (1…9, 10)
         or * for all numbers (MSN)

☞ The announcement assigned to the first number (MSN-1) cannot be disabled remotely.

Automatic notification (retransmission)

Please note that the number of calls / messages (1 …. 10) and the number to which retransmission should occur must be entered before switching on automatic notification.

`*` `5` `1` `~`   Activate retransmission of calls. Retransmission is carried out with the forwarding message.

`*` `5` `2` `~`   Switch off retransmission of calls

`*` `5` `3` `X` `~`   Configure retransmission of calls
        X: ! …), = Number of calls after which retransmission should occur (1…9, 10)

`*` `5` `4` `▦`
`*` `~`   Configure destination number for retransmission
        t: Number to which retransmission should occur (max. 20 digits)

`#`   Cancel entry of number for call retransmission

`*` `5` `5` `~`   Activate retransmission of calls. Retransmission is carried out by sending a UUS1 message.

`*` `5` `6` `~`   Activate retransmission of calls. Retransmission is carried out by sending a SMS message.

Use answering machine through another telephone

You can use the answering machine on the telephone together with another telephone. The »MSN-10« of your telephone is set up as a »Voicemail box« and provided to the other telephone as an answering machine. This telephone can then forward its calls by call diversion or a team call variant (to elmeg PABX) on this »MSN-10« and thus to the corresponding answering machine.

If the voicemail box for »MSN-10« and the answering machine are set up and switched on:

- if no other telephony settings (e.g. tone, volume) are possible for »MSN-10«.

- if the calls for MSN-10 are only signalled on the answering machine. A message about the call appears in the display.

- if the »listen« function cannot be used for call for »MSN-10« and the call cannot be transferred.

- if the remote operation of the answering machine is activated automatically for »MSN-10«. The other telephone can then listen to or delete messages remotely.

- if the messages for »MSN-10« cannot be played back when the answering machine is operated remotely.

- if the answering machine is only switched off when the voicemail box for MSN-10 is not required. However, individual MSNs can be disabled so that the voicemail box for MSN-10 remains accessible.

Enable voicemail box for »MSN-10«

Start as follows:

↓📞	(Menu)			▶		▶	
		`Configuration`	`MSN`		`MSN-10`		`Voicemail`

▦ Enter the number of the telephone which is to use the answering
machine. E.g.: »`1234`«.

(OK) Confirm your entries with (OK).

`AnsMc Voice-box user`

`MSN-10>1234_`
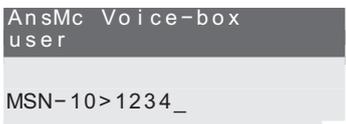
In the menu »`Program MSN-10`« settings can now only be configured using the softkeys »`Call number`«, »`MSN Name`« and »`Voicemail`«. The MSN-10 is highlighted in the menu with »`x`«. The answering machine for »MSN-10« is set up and activated as described in the »Answering machine« section of the user guide. In the »`Answering machine`« - »`Activation`« menu, the reference »`Voicemail`« is displayed in place of the name for »MSN-10«.

Important Information

Joint use of the answering machine is based on trust. When listening to message locally, it is also possible to list to messages on all number (MSNs). We therefore recommend sorting messages by call number (»Calls MSN-sorted«) so that you can choose the corresponding number (MSN) of the messages you would like to hear before listening back to the messages.

If you have enabled the answering machine for »All MSN«, the other telephone will no longer be able to use the answering machine for »MSN-10«.

The messages for »MSN-10« cannot be played back when the answering machine is operated remotely (for »MSN-1« to »MSN-9«). If the code »`22`« is sent remotely to delete all messages, the messages for »MSN-10« are also deleted.

If the messages for »MSN-10« are played back remotely, the telephone cannot be used for the duration of remote operation.

Use voicemail box from another telephone

The other telephone can only use the voicemail box with the number entered in the answering machine phone book as »AM joint user«. Calls for this telephone can be forwarded by call diversion or a team call variant (elmeg PABX) to the answering machine.

When there is a new message on the answering machine the other telephone is notified by a UUS text message.

If the other telephone is a system telephone (e.g. elmeg CS410), you can identify the status of the answering machine from this using the function key »Line AM«. Pressing this key allows you to accept a call and establish a connection to the answering machine (e.g. to listen to messages). Carrying over calls is only available in version 6 of the PABX and above.

The answering machine for »MSN-10« can also be operated remotely as follows:

Initiate remote operation (answering machine enabled)

⤒	⠿	♪	#	⠿	#	⠠
Dial call number 10 (MSN-10)	Answering machine announcement			Enter PIN		

Caution: The »# PIN #« must be entered during the announcement. Once the remote control has been initiated successfully (positive acknowledgment tone), you can operate the individual functions with the following access codes. To end remote polling, replace the receiver after entering the last access number.

☞ Inserted codes can only be used when listening to texts (messages, announcements, info texts).

Listen to or delete messages, hear info texts

1 0 ⠠ Listen to new messages

1 1 ⠠ Listen to old messages

⠠ Listen to the next message

✱ ⠠ Listen to the previous message

0 ⠠ End retransmission of the current message

2 ⠠ Delete the message already listened to

Software

Download new firmware

bintec elmeg GmbH:

The company provides a Server PC which you can use to load new firmware in the elmeg CS410 and CS410-U. In this case the firmware is loaded over the S/U connection and takes approx. 12 minutes depending on the size of the firmware file. Note that connection fees may apply when downloading the firmware over an external ISDN connection.

For the elmeg IP-S400 you can download the firmware using the Professional Configurator (WIN-Tools on the PABX) under »System telephone«, »Indirect software download«. Whilst in the configurator you can specify the internet address where the firmware can be found. No operations must be carried out on the system telephone.

☞ Other information on downloading firmware can be found in the description »Firmware download IP« on your CD-ROM.

- During data transmission, you must not press any keys and plug or unplug any connectors unless requested to do so. Should there be an interruption whilst downloading, restart the download program and proceed as described below.

- After the new firmware is loaded the system telephone automatically carries out a RESET and is then available for use again.

- In some cases, all data in the system telephone is selected when carrying out a firmware download. If this is the case then you will receive information in the telephone display before downloading commences. If you do not have any backup files for the system telephone configuration settings (configuration, phone book), please ensure you only begin the download once you have backed up this data.

Download of new firmware via the USB connector on the system telephone

You can load a new firmware version on to your system telephone over the PC interface of the system telephone and the WIN-Tools CD-ROM supplied.

- Connect the system telephone to the PC.

- Load the new firmware to your PC (e.g. from the internet).

- Start the Download Manager for WIN-Tools.

- Set the interface to »USB« in the »Connection Type« field.

- Select the menu options »File« -> »Open« and select the folder into which the new firmware is to be saved.

- Press »Start Download« in the »Status« field to load the new firmware.

Download of new firmware over the Server PC

bintec elmeg GmbH:

The company provides a Server PC which you can use to load new firmware in the system telephone. In this case the firmware is loaded over the S/U connection and takes approx. 12 minutes depending on the size of the firmware file. Note that connection fees may apply when downloading the firmware over an external ISDN connection.

You can also download the firmware using the Professional Configurator under »System telephone«, »Indirect software download«. No operations must be carried out on the system telephone.

☞ Important information for export assignments:
Please ask your dealer/distributor for the access number of the
download server in your country!

Download-Server	Call number
bintec elmeg Server-PC	++49-(0)5171-901190

Start download of new firmware to the system telephone:

Start as follows:

↓☏	Menu			▦	OK		
		Configu-ration	Service	Telephone PIN		Software	Yes
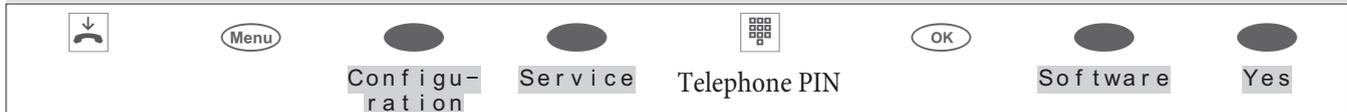
The system telephone is now reset in BIOS mode.

⬭ Press the »Update« softkey.

```
Cx410-bios 1.02 by ps

UPDATE
INFO
```

▦ Enter the call number of the download server including the dialling code for the external assignment of the PABX.
Example: »005171901190«.
If you have set up an automatic outside line for your system telephone in the PABX, enter the number of the download server without automatic outside line.

```
Cx410-bios 1.02 by ps
Firmware update
Please dial
005171901190



                        Abort
```

☞ In order to interrupt a download that has been started, press the »Abort« softkey or the ⎋ESC key.

In some cases, all data in the system telephone is selected when carrying out a firmware download. If this is the case, the following message will be displayed before the download starts: »All data will be deleted Continue?«. The firmware download will only commence once you have confirmed acceptance of this message by pressing the »ok« softkey. If the system telephone data is not deleted when downloading, the download will begin without any flashing message.

System telephone BIOS

The system telephone has a BIOS mode (basic functions) in English. The various BIOS functions shall remain available to you even if the system telephone firmware is not functioning correctly or if new firmware has not been fully downloaded (e.g. if the PC fails during download).

The following functions are available in the system telephone BIOS mode

- All telephone calls are signalled. No call numbers (MSN) need to be entered in the system telephone.

- It is possible to make outgoing calls once the receiver is lifted (no dial preparation, no loudspeaker or hands free).

- Loading of new firmware via the PC interface on the system telephone or the S/U connector.

Download of new firmware over the PC interface

To load new firmware into the system telephone BIOS via the PC interface, proceed as described on page 123of this user guide.

Download of new firmware via the S/U connector

You will see the BIOS menu of the system telephone.
If you would like to load new firmware via the S/U connection,
press the »Update« softkey.

```
Cx410-bios 1.13 by ps

                    Update
Info
```
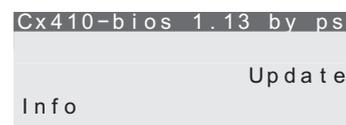
Now proceed as described on page 124of this user guide.

> Caution: The settings under the »Set« softkey are provided for service and diagnostics. If you configure or modify settings in this menu, this will affect the functionality of the system telephone. In some cases, the system telephone may no longer work.

Country

Cannot be configured using the system telephone on the elmeg hybird!

Country-specific settings

If the system telephone is to be used in a country that deviates from the basic settings, country-specific settings shall therefore be necessary.
This sets the language, the currency and country-specific features in the ISDN network to the basic settings of your chosen country.

As described below, please check whether country-specific settings are possible for the country in which the system telephone is to be used.

Start as follows:

| ⤓ | Menu | ⬤ Configuration | ⬤ Service | ⊞ Telephone PIN | OK | ▶ | ⬤ Country |

◄ ►   Press the arrow keys to see the countries for which special settings are available.

⬤   Press the softkey for the desired country, e.g. »english«.

```
Which Country?           →
italiano
                  español
deutsch
                  english
française
              nederland
```

☞ The system telephone is then rebooted!

The specific settings of the chosen country are established immediately.
The system telephone data is not deleted.

```
29.05.10 07:41           →


Tel. drctry
                  Quiet
VIP
```

System telephone menu

»Configuration« menu

(Menu) ⟶ »Configuration«

```
  Configuration      →
inhibit
                  MSN
Display
              Charge
Call-Parking
            Service
```

```
Standard call-parking


Call-Parking>55
```

```
Program dial number →

                   MSN-3
MSN-1
                   MSN-4
MSN-2
                   MSN-5
```

```
 Display-Monitoring


MSN ext.
          Conversation
Language
```

Enter PIN

```
Program dial number←

                   MSN-8
MSN-6
                   MSN-9
MSN-7
                  MSN-10
```

Example: MSN-6

```
  Config. inhibit
       filter


PIN

Menu
```

```
   Program MSN-6     →

             transfer
Volume
            MSN Name
Sound
            MSN ext.
```

Enter PIN

```
 Service-Functions   →

             Version
Name
                Data
SMS
            Software
```

```
  Program MSN-6    ←


PIN
                 Charge
```

```
Service-Funktionen ←


Country
```

```
      Charges


Charge
           Currency
delete
```

»Acoustic« menu

Menu ⟶ »Acoustic«

```
    Volume, etc.
⇥
Headset
Ack. tones
Speaker
Quiet
```

```
   Volume, etc.      ⟵

Message
                    Date
Intercom
              Audio Out
```

```
   Call wait. tone


Volume


            repeat ✓
```

```
  Setting for using
     Audio Put

Message ✓
 Hands-free calling ✓
Signaling tones
       Speaker function
```

```
   Loudspeaker     ⟷
     loudness

  - ▐▐▐---- +
```

```
 Appt. call volume ⟷


  - ▐▐▐--- +
```

```
  Headset / Acoustic?

  PLANTRONICS FIREFLY
Standard ✓
  GN Netcom 2100/2200
SILICOMP
  DECT Headset (DSHG)
```

```
 Acknowledge signal
     active         ?

Nein
                 Ja ✓
Nur Fehlerton
```

```
 Handset loudness   ⟷


  - ▐▐-- +
```

```
 Idle tone volume   ⟷


  - ▐▐▐--- +
```

»Settings« menu

Menu ⟶ »Settings«

```
     Setting        →
Direct cal
              Contrast
Call rerout.
                  Date
Call wait.
         AUTO accept
```

```
     Setting        ←
Headset


                  Time

               Filter
```

```
 Call waiting enable?

        OK, extended
No ✓
                   ok
```

```
     Call filter


Incoming

               New
```

```
   call forwarding

Off
              Fixed
delayed
                busy
```

```
      Use headset?

No

                   ok
```

```
Call forwarding delay

                 MSN-3
MSN-1
                 MSN-4
MSN-2
                 MSN-5
```

```
Display-Contrast   ↔

    - ▮▮▮▮----- +
```

```
Activate direct call?

No
                   ok

             MSN ext.
```

```
Select appointment ↔
1: 11:11 11.11.02    -
                   Off
2: 11:11 11.11.02    -
                   Off
3: 11:11 11.11.02    -
                   Off
```

```
  Time until call
    accepted      ?
          5 seconds
immediatly ✓
         10 seconds
```

```
    Alarm for
  appointment 1     ?

Off
                 ONCE
Daily
               Weekly
```

»Number progr.« menu

(Menu) ⟶ »Program nos.«

```
 Program dial number


Tel. drctry

VIP
```

```
   telephone book
237 Entries avail.
          Sp.ton. call
Info
           New
delete
           List
```

```
 Program VIPs




           New

           List
```

```
 Delete tbook data ↔

.................Aaaaaaaaaa
Bbbbb...............................
.............Cccccccc,cccccc
Ddddd, Dddd.......................
........................................Eeee
```

```
 Select VIP      ↔

V0:
V1:
V2:
V3:
V4:
```

```
Select name please ↔

Aaaaaaaaaa
0123456
Info - Info - Info -
Info - Info - Info
```

```
 Reprogram VIP    ↔

V0:
V1:
V2:
V3:
V4:
```

```
Input telephone book


Name>Aaaaaaa_
```

```
 Set specl. tone   ↔
         call
.................Aaaaaaaaaa
Bbbbb...............................
.............Cccccccc,cccccc
Ddddd, Dddd.......................
........................................Eeee
```

```
Add. info. for tbook
       entry

Info - Info - Info -_
```

Options

Index

- Headset on / off
- Auto-answer

- Headset Ein / Aus
- Aut. Rufannahme

Quick Install Guide

Inquiry

Enter call number

Brokering

Enter call number

Connection −1...
Connection −4

Conference

Enter call number

Conference

Transfer with call notice

Enter call number

Enter call number

transfer

Parking

park

Enter park code

Unpark

unpark

Enter park code

Forward calls

transfer

Enter call number

Extended redialling

or

Search for desired call number

Search for desired call number

Callback on Busy

Enter call number

Extension busy

Callback

Dialling the outgoing call number (MSN assignment)

Enter call number

MSN

MSN−1...
MSN−10

Switch on call diversion

Setting

Call diversion

Delayed Busy Direct

MSN−1...
MSN−10

Enter call number

Switch off call diversion

Setting

Call diversion

Off

MSN−1...
MSN−10

Do not disturb

⌁

Idle

No
,ok
Ringing signal off

Dial from the caller history, phone book or VIP memory

⌁

Caller list
Phone book/VIP

Select entry

⌁

☎