USER MANUAL
SYSTEM PHONE
BINTEC CS300

BinTec
Communications

Contents

1 Introduction

BinTec CS 300 system telephones are manufactured exclusively for BinTec by elmeg, the leading manufacturer of ISDN telephones and PABX systems.Not all features described in the User's Manual are currently available with your XCENTRIC.Latest implementation data is available for you at:
http://www.bintec.de/XCENTRIC/de/loesungen/index.html

2 Description

These operating instructions describe the functions for the Bin Tec CS300 ISDN telephone.

You can connect the ISDN telephone at the Euro-ISDN point-to-point connection (DSS1 protocol) provided by your network service provider, or at the internal ISDN connection (point-to-point connection DSS1 protocol) in a PABX system. The ISDN telephone is linked to the ISDN network via an ISDN jack (Western or RJ45). After being connected to the ISDN network, your ISDN telephone is immediately ready for operation and can fully utilize its configured performance features.

Up to eight (8) ISDN terminal devices can be connected and managed at a network termination of a network service provider. Of these eight (8) available lines, one supply line (max. 4 W) is available for ISDN telephones without their own internal power supply. A link can be set up simultaneously for two (2) ISDN terminal devices at each base access terminal (2 B channels, 1 D channel).
An internal ISDN connection for a PABX system is comparable to an ISDN base access terminal (point-to-point connection) of a network service provider. Up to eight (8) ISDN terminal devices can be connected and managed at each internal ISDN connection. The power available at this internal ISDN connection determines how many terminal devices can be supplied with power by the PABX system. Refer to the operating instructions for your PABX, or contact the PABX manufacturer for more details about this. A link can be set up simultaneously for two (2) ISDN terminal devices at each internal ISDN connection.

The CS300 ISDN telephone provides certain system features when connected to an XCentric. The internal connection (S0 bus) on this PABX system interfaces with the CS300 ISDN telephone. Please refer also to the User's Manual for your XCentric.

2.1 Safety instructions

- Unauthorized opening of the system telephone and improper repairs may result in risk of injury for the user.

- Do not expose the inside of the system telephone to any liquids. This can result in electric shock. If you expose the inside of the telephone to liquids the telephone can be destroyed.
- You should not connect or disconnect any lines during thunderstorms.
- To prevent mutual interference, do not install your system telephone in the immediate vicinity of electronic devices such as stereo equipment, electric office equipment or microwave units.
- Avoid installing your PABX near sources of excessive heat, e.g. radiators or in rooms with excessive humidity.
  The ambient temperature must not be below 0° and should not exceed 40°C.

2.2 Contents of package

- BinTec CS300 ISDN- telephone
- handset with handset connecting cord
- ISDN connecting cord (approx. 3m)
- RS232 connecting cable RJ12 / D-SUB 9-pin (approx. 3m)
- operating instruction
- Label for direct dialing/function keys
- WIN-Tools CD-ROM with: detailed operating instruction;
  configuration manager, telephone directory manager and download manager;
  TAPI driver
  Adobe Acrobat file for the printing of individual labels

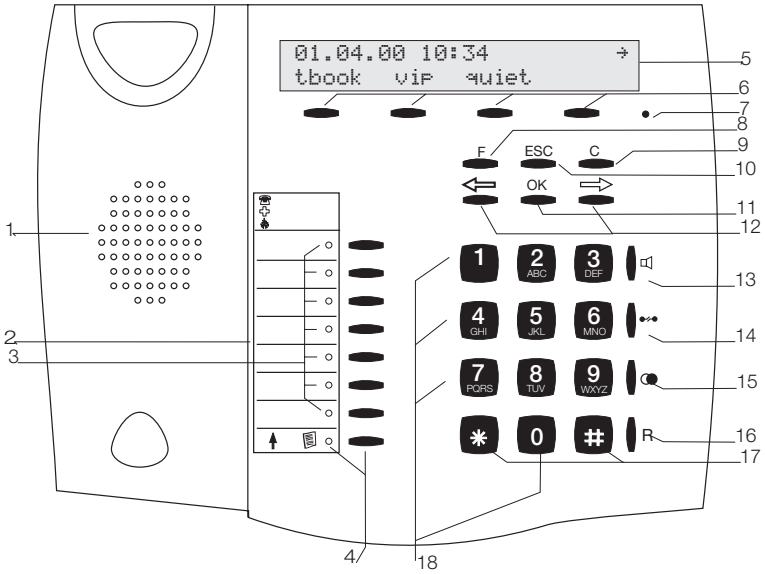
2.3 Cleaning and maintenance

The ISDN system telephone has been manufactured for normal, everyday use. When required, clean the ISDN system telephone with a slightly moistened cloth, or with an anti-static cloth. Never use a solvent to clean the phone! Never use a dry cloth. Electrostatic charges could damage the electronics in the system. It is essential that no liquids penetrate into the inside of the ISDN system telephone, as this could destroy the phone.

2.4 Placing the telephone

Please note that the plastic feet of your ISDN system telephone may leave marks on sensitive surfaces, such as furniture. The manufacturer of the ISDN system telephone is not liable for any such damage. Therefore, use appropriate non-skidding pads under the phone.

2.5 User interface of your system telephone



1 Speaker
2 Label panel for VIP keys and function keys
3 7 direct dialing/ function keys with LED
4 Shift button with LED
5 Display
6 4 softkeys
7 Microphone
8 Function key
9 C-button
10 Escape
11 Acknowledgement
12 Arrow buttons »left« / »right«
13 Open listening/ hands-free
14 Disconnect
15 Redial
16 Enquiry
17 Asterix button / number symbol
18 Dial / VIP buttons

Fig. 1: User interface of your telephone

2.6 Display, Buttons, LEDs, Pictographs and signals

2.6.1 Display

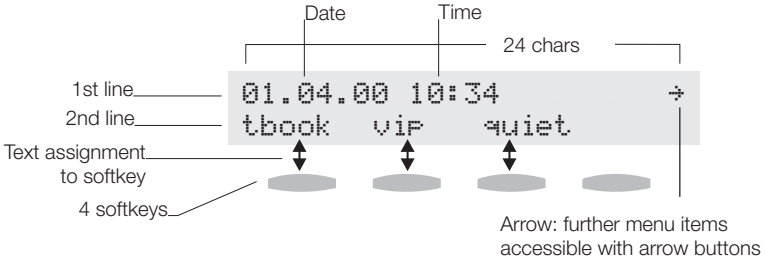


Fig. 2: Display of your telephone

After you connect the system to the ISDN connection, the date and time are shown on the top line of the display. The date and time are imported automatically from the PABX system, or from the ISDN network when you have successfully made a call. Terms are displayed in capital and small letters on the first line. The functions of the softkeys are displayed in capital or small letters (depending on your settings) in the second line.

```
01.04.00 10:34          →
tbook  vip  quiet
```

The text displayed for a function on line 2 is always located above the corresponding softkey. When you press the softkey, the next level is displayed.

```
      Functions
audib adjust prog config
```

2.6.2 Buttons

F

Function button: This key opens the programming menu. If you are already located in a menu and then press the key, either menu-specific functions are shown, or you are moved back one programming step.

```
      Functions
audib adjust prog config
```

ESC

Escape button: Pressing the Esc button during programming returns the telephone to its idle status.

```
      Functions
audib adjust prog config
```

OK

OK key: Pressing this button stores a setting in the telephone. You then hear the acknowledgement signal.

C

C-button: Press this button to move back one menu step in the menu. If you are currently in the input mode, this button can be used to delete individual characters.

Arrow buttons: The arrows »←« and »→« in the right corner on the top line of the display indicate that you can call up further functions on the second line using the arrow buttons.

```
01.04.00 10:34          →
       vip  quiet
```

```
01.04.00 10:34         ↔
unpark       rate
```

Special feature for changing existing entries

You have various options available to you for changing existing entries (e.g. names or numbers).

Example 1:
You wish to change an existing number / MSN (see page 14), as the telephone is to be used at a different ISDN connection.

When you use the pushbutton set to enter the first digit of the new number the existing number is deleted completely.

```
  program dial number
MSN1>123456
```

```
  program dial number
MSN1>9_
```

Enter the other digits of the new number.

```
  program dial number
MSN1>987654_
```

Example 2:
You wish to change parts of a name in a telephone directory listing (see page 46), because the name has changed (e.g. after a wedding).

C

Using the arrow keys, first select the letters of the entry that are to be changed (in this example: the surname »MILLER«) and delete this name using the C button.

```
Change tbook data input
name>TINA_MILLER
```

```
Change tbook data input
name>TINA _
```

Now enter the new letters for the new name (in the example the surname »PETERS«).

```
Change tbook data input
name>TINA PETERS_
```

2.6.3 Entering letters and numbers

The following buttons are configured for the entry of letters and numbers (e.g. telephone directory, VIP-memory).

Button	1. press	2. press	3. press	4. press	5. press	6. press
1	1					
2 ABC	A	B	C	2	Ä	
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	
7 PQRS	P	Q	R	S	7	ß
8 TUV	T	U	V	8	Ü	
9 WXYZ	W	X	Y	Z	9	
0	(space)	.	,	-	0	/
*	*					
#	#					

2.6.4 LEDs

To the left of each direct dialing and function key (total of 7) is located the associated LED. These LEDs can be used to indicate certain functions. The shift key LED flashes to indicate new callers in the caller list, or remains lit when the shift key is pressed (active).

- The LED lights up.

- The LED flashes.

- The LED flickers.

1. second	1. second	1. second	1. second	

2.6.5 Call signalling

Call signalling is effected using the ringing tone that has been set for the dialed number (MSN) in each telephone. If you are using the telephone at the internal ISDN connection of an XCentric, internal calls are signalled using a special ringing melody. This ringing tone has priority over the ringing tone set for the dialed number (MSN) in the telephone.

2.6.6 Pictographs

The pictographs (symbols) described in the following have been used in these operating instructions to illustrate some procedures for setting and using the telephone.

Lift up the handset, activate hands free calling, or start initializing selection.

Hang up the handset and end hands free calling.
The telephone is idle.

A call is signaled.
The ringing tone melody sounds.

You are conducting a call.

A three-party conference call is initiated.

You hear the positive or negative acknowledgement signal.

Select the number, code, character or text.

Press the appropriate button on the pushbutton set.

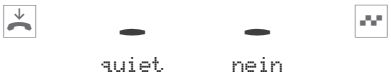
2.6.7 Listen to acknowledgement signals

Depending on your settings, the input you make at your phone will be confirmed by an acknowledgement signal (see page 18).

Before you begin making settings, you should listen to these two acknowledgement signals of your telephone.

Positive acknowledgement signal

The positive acknowledgement signal indicates that your input has been accepted and stored by the telephone.



Negative acknowledgement signal

You will hear the negative acknowledgement signal when your input has not been accepted by the telephone, or when invalid input has been made.

If no call is parked you hear the negative acknowledgement signal.

3 Installation of the telephone

3.1 Connection of the handset connecting cord

Connect the handset cord as shown in Figure 3. Lay the handset cord in the cord groove and lock it below the two cord retainers.

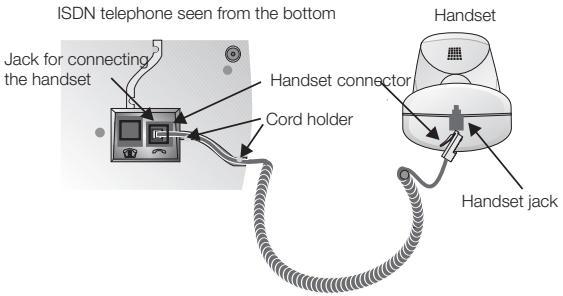


Fig. 3: Connection of the handset connecting cord

3.2 Connection of the ISDN connecting cord

Connect the ISDN cord as shown in Figure 4. Then lay the ISDN cord in the cord groove and lock it below the two cord retainers. Ensure that the longer ISDN connector is plugged into the ISDN jack and the shorter ISDN connector into the ISDN jack on the telephone.

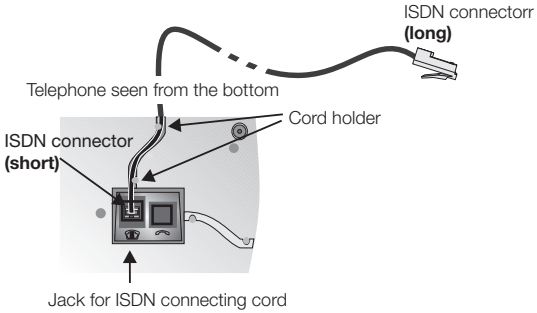


Fig. 4: Connection of the ISDN connecting cord

3.3 Changing the label panel

The label panels for the direct dial and function keys are included on a sheet enclosed in the operating instructions. Cut out the label you wish to use and ensure that all the holes for the LEDs have been punched out completely. Where required, remove any remaining material from the holes.
To change the label panel, (see figure 5) press the flexible cover together between your index finger and thumb and lift it out. The label panel can now be changed.
You can edit the label panel with the PC.The CD ROM supplied with the system contains an Adobe Acrobat file (BinTec_CS300.pdf) with templates.
Move the mouse pointer to the first field (behind the symbol) »☎«). You can then use the PC keyboard to make input into this field. You can jump from field to field using the TAB key and fill them in as required. After this you can print out a selected label panel, cut it out and place it in the space provided for labels on your telephone.

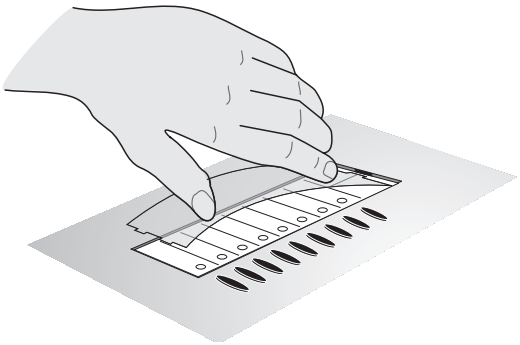


Fig. 5: Changing the label panel

3.4 Keyboard extension elmeg T300

Your telephone is equipped with 7 direct dialing buttons which can be assigned various functions on two levels. You have the option of connecting an elmeg keyboard extension to your telephone.Ask your specialized dealer or distributor for this accessory.This key extension module has 24 buttons which can be used on two levels as function or direct dialing buttons.

The elmeg keyboard extension module T300 is available as an accessory part. Ask your specialized dealer or distributor.

3.4.1 Connection of the elmeg keyboard extension

- ❑ Unplug the ISDN connector (long) for the telephone from the ISDN jack.
- ❑ Place the phone face-down on a soft surface so that you can read the nameplate on the bottom of the phone from the front.
- ❑ Remove the screw to the left of the nameplate, the rubber support and the plastic cover in the top left corner of the phone (see Figure 6).

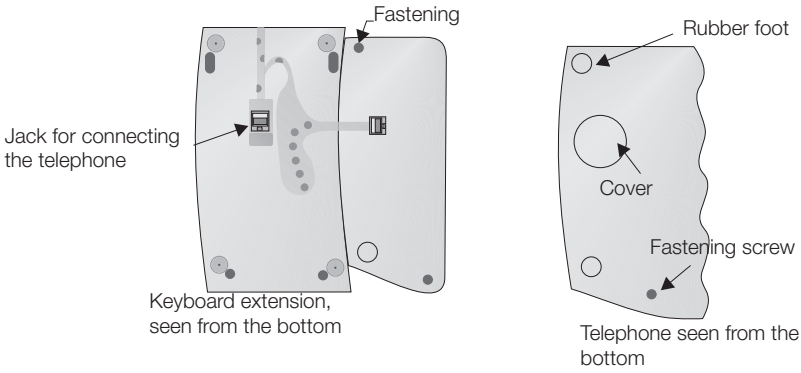


Fig. 6: Prepare the connection of the keyboard extension

- ❑ Place the key extension module with its front side next to the phone on the left so that the expandable catches fit in the retainer for the rubber supports.
- ❑ Securing the key extension module to the phone. To do this, screw in and tighten one screw to the left of the nameplate and the other one in the expandable catch.
- ❑ Connect the connecting cable delivered with the key extension module as shown in Figure 7 . After this, place the cable in the cable duct.
- ❑ Turn the phone over with the key extension module attached so that you are looking at the front of the phone.
- ❑ Plug the ISDN connector of your phone into the ISDN jack.

After initialization of your telephone the phone and the key extension module are immediately ready for operation.

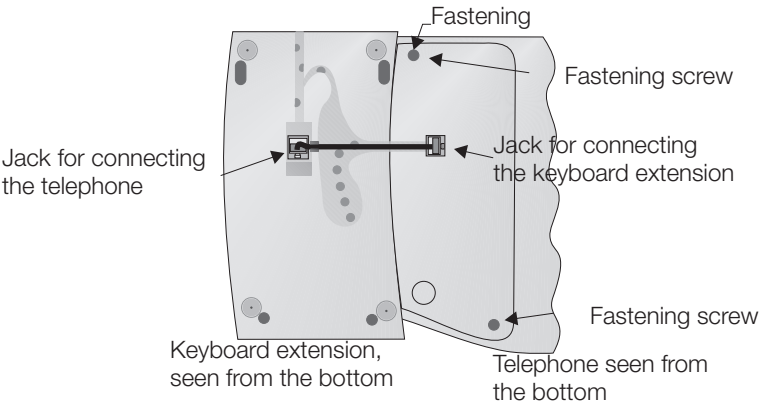


Fig. 7: Connection of the elmeg keyboard extension

3.4.2 Changing the label panel

A sheet containing the labels for the direct dial/function keys of the key extension module is included with the key extension module. Cut out the label you wish to use and ensure that all the holes for the LEDs have been punched out completely. Where required, remove any remaining material from the holes.
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.

4 Settings

4.1 Telephone numbers (MSN or extension number)

Up to 10 MSNs (extension numbers) can be configured on your telephone. When you enter an MSN or extension number in your ISDN system telephone you are essentially defining that your ISDN system telephone is called using this MSN or extension number when a call is made. If you enter more than one MSN (extension number) in your ISDN system telephone, your phone will ring each time one of these MSNs (extension numbers) is called.
If you are using your telephone on the external ISDN port of your service provider, program your telephone with the MSNs or extension numbers allocated to you by the network service provider. Usually your network service provider will provide you with 3 MSNs (extension numbers). You can apply for further MSNs (extension numbers) from your network service provider.
When you operate your telephone on the internal ISDN connection of a PABX you must enter the internal instead of the external number of your telephone at the PABX. Please observe the instructions in the XCentric manual.
You can define and set a name, a specific melody and its volume for each MSN or extension number that you enter. If, for example, you assign the name »priv.«to a number, »priv.« will appear in the display instead of »msn-1« when that phone is called.
When you call a subscriber, you can select a certain number (MSN) that is transmitted to the subscriber (e.g. for separate charges). If you do not select any number, the number (MSN) that has been entered first in the phone (MSN-1) is used.

How to configure an MSN (extension number) is described in the following example with MSN1.

4.1.1 Entering MSNs

Begin as follows:

Enter the number (max.26 digits).
In the example here: »123456«.

```
  program dial number
MSN-1>123456
```

OK

Confirm your entry by pressing OK.

```
 MSN-1 program          →
tnumb sound volume x-fer
```

4.1.2 Changing MSNs

Begin as follows:

C — Delete the existing telephone number by pressing the C button.

```
  program dial number
MSN-1>123456
```

Enter the new number.
In this example: »99887766«.

```
  program dial number
MSN-1>99887766_
```

OK — Confirm your entry by pressing OK.

```
 MSN-1 program   →
tnumb sound volume x-fer
```


4.1.3 Setting the melody for an MSN

Begin as follows:

Use the arrow buttons to set the desired melody. The bar in the display indicates the current status.

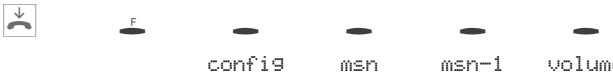
```
   Select melody      ↔
MSN-1    -■--------
```

OK — Confirm your entry by pressing OK.

```
 MSN-1 program         →
tnumb sound volume x-fer
```

4.1.4 Setting the volume of the melody for an MSN

Begin as follows:



Use the arrow buttons to set the volume. The bar in the display indicates the current status.

```
Select volume          ↔
MSN-1     - ■■---- +
```

OK

Confirm your entry by pressing OK.

```
 MSN-1 program    →
trumb sound volume x-fer
```

4.1.5 Default setting of a number for forwarding of calls

If you do not wish to accept a call, you can forward this call directly to a different phone number (see page 68).
If you frequently forward calls to the same number, you can use this number as a default setting in your phone. If you then wish to forward a call, the default number will be presented first for you to use.
The default setting for such a number is made separately for each number (MSN) entered in the telephone.

Begin as follows:

F config msn msn-1 x-fer

Enter the number. To delete an existing number press the C button.
In the example: »0123«.

```
  Call forward. number
MSN-1>0123_
```

OK

Confirm your entry by pressing OK.

```
 MSN-1 program          →
trumb sound volume x-fer
```

4.1.6 Assigning a name to the MSN

You can assign your own names (max. 5 places) to the MSNs.
On each of the buttons on the pushbutton set there are three or four letters of the alphabet. You can advance through the letters by pressing the appropriate button repeatedly (see page 6). The letters are shown in the display one after the other as you press the button. If there are two consecutive letters on the same button of the pushbutton set, press the right arrow button after entering the first letter and then enter the next letter.

Begin as follows:

C	Delete the existing name of the MSN by pressing the C button.	Own MSN designation MSN-1>MSN-1
	Enter the name. In the example: »priv.«.	Own MSN designation MSN-1>priv.
OK	Confirm your entry by pressing OK.	MSN-1 program ← msn_name rate

After entering a name for an MSN the softkey designations in the menu »msn-1« ... »msn10« change to the corresponding name. In the example »msn-1« changes to »priv.«.

4.2 Volume settings

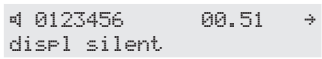
4.2.1 Speaker volume setting

Permanent speaker volume setting

Begin as follows:

	Use the arrow buttons to set the volume. The bar in the display indicates the current status.	Loudspeaker loudness ↔ – ■■---- +
OK	Confirm your entry by pressing OK.	Volume, etc. → louds wait beep handset

Temporary volume setting

	You are conducting a call. The loudspeaker is set to open listening.	
F	Press the F button. Use the arrow buttons to set the volume of the speaker. The bar in the display indicates the current status.	

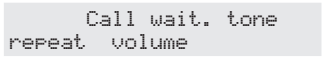
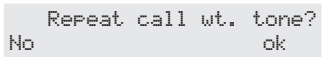
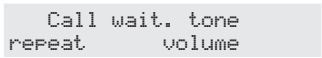
Press the ESC button in order to return to the normal display during an ongoing call. If you confirm your entry by pressing the OK button instead of the ESC button, the permanently set value is overwritten by the newly set one.

4.2.2 Setting the call waiting signal

If the function call waiting (see page 22) is enabled on your telephone you can set the volume of the call waiting signal . You can also select whether a waiting call is signaled only once, or several times.

Begin as follows:

F audib wait

	Press the softkey below»repeat«.	
	If you want the waiting call to be signalled only once, press the softkey below »no«. To have a waiting call signalled several times, press the softkey below »ok«.	
	Press the softkey below »volume«.	
⇦ ⇨	Use the arrow buttons to set the volume of the call waiting signal. The bar in the display indicates the current status.	

OK — Confirm your entry by pressing OK.

```
      Call wait. tone
repeat  volume
```

4.2.3 Setting the acknowledgement signals

With your ISDN system telephone you can select whether the acknowledgement signals are always active, never active or only active when an incorrect entry is made. In the initial state, the acknowledgement signals are always active.

Begin as follows:

F — audib — beep

Press the softkey below the desired function:
»no«: Acknowledgement signal never active.
»error«: Acknowledgement signal when entry incorrect.
»ok«: Acknowledgement signal always active.

```
Acknowledge signal activ
  no  error         ok
```

```
     Volume, etc.      →
louds  wait beep handset
```

4.2.4 Setting the volume of the handset

Permanent handset volume setting

Begin as follows:

F — audib — handset

Use the arrow buttons to set the volume. The bar in the display indicates the current status.

```
  Handset  loudness    ↔
        - ■■-- +
```

OK — Confirm your entry by pressing OK.

```
     Volume, etc.      →
louds  wait beep handset
```

Temporary volume setting

	You are conducting a call.	0123456 00.51 → displ silent
F	Press the F button. Use the arrow buttons to set the volume of the handset. The bar in the display indicates the current status.	Handset loudness ← – ■■■■■ +

Press the ESC button in order to return to the normal display during an ongoing call. If you confirm your entry by pressing the OK button instead of the ESC button, the permanently set value is overwritten by the newly set one.

4.2.5 Setting the volume of the volume of the »Station guarding« tone

You have various options of setting your telephone to »Station guarding« (see page 67). You can set your telephone to signal incoming calls by a brief acoustic signal while»Station guarding« is active. The volume of that idle tone is adjustable.

Begin as follows:

	Use the arrow buttons to set the idle tone volume. The bar in the display indicates the current status.	Idle tone volume ↔ – ■■■––– +
OK	Confirm your entry by pressing OK.	Volume, etc. ↔ message quiet

4.3 Call forwarding (call rerouting)

With this telephone you can be reached, even if you are not in the vicinity of your phone. This is made possible by automatic forwarding of calls to any other number.
Call rerouting can be configured separately for any of the entered numbers (MSNs). To utilize the call rerouting function you must have already configured at least one phone number.

The following settings are possible for all MSNs or extension numbers.

»delayed« Call forwarding delayed
All calls for the number for which delayed call forwarding has been configured are signaled for a defined time at the exchange office or in the PABX and are then forwarded when this period expires.

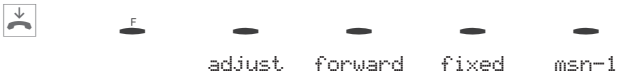
»busy« Call forwarding on busy:
The calls for a defined number are forwarded only when the telephone is busy.
(For example: There are already two (2) connections made, or one connection has been made and call waiting is not permitted.)

»fixed« Permanent call forwarding
All calls for a number for which “fixed” call forwarding has been configured are rerouted. Your telephone will not ring, when this number is called.

The following example describes how to set up MSN 1 for permanent call forwarding.

4.3.1 Activating call forwarding

Begin as follows:



Enter the number to which the calls are to be forwarded.
In this example: »0123456789«.

```
Call forwarding direct
MSN-1>0123456789_
```

OK

Confirm your entry by pressing OK.
Call forwarding has been registered. The three dots at the right lower corner flash alternately.

```
Call forwarding direct
MSN1>0123456789      ...
```

Call forwarding has been configured. You see this display for about 10 seconds.

```
MSN-1
 Direct call forwarding!
```

```
   call forwarding
 off delayed busy  fixed
```

4.3.2 Viewing current call forwarding

When the telephone is idle, a »C« on the top line indicates that call forwarding has been activated.

Begin as follows:

⇨ —

info

In the example here, MSN1 is forwarded directly to number 0123456789.

```
Call forwarding direct↔
(1→0123456789)       info
```

4.3.3 Deactivating call forwarding

Begin as follows:

F — — — — —

adjust forward off msn1

Call forwarding is deactivated. The three dots at the right lower corner flash alternately.

```
Call forwarding quit?
MSN-1                ...
```

Call forwarding is deactivated. You seethis display for about 10 seconds.

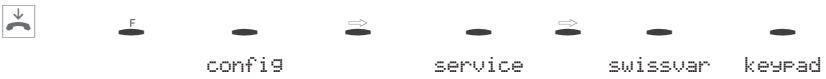
```
MSN-1
   Call forwarding quit!
```

```
call forwarding
 off delayed busy  fixed
```

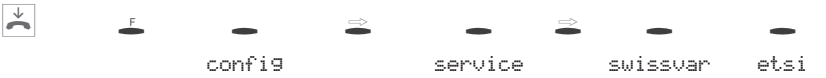
4.3.4 Special features for the Swiss version

In its initial state, the CS300 telephone is configured for use at the internal ISDN connection with the XCentric. If you wish to use the telephone at the other connection the protocol for call rerouting (»Keypad« or »ETSI«) must be switched as follows.

Use at a point-to-multipoint connection (NTBA)



Use with an XCentric

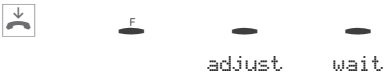


4.4 Call waiting

If, during an ongoing call, a second call comes in for you, the second call is signaled when “Call waiting on” is set. When “Call waiting off” is set, the caller only hears a busy signal.
A waiting call is indicated by a brief acoustic signal in the handset and also displayed. You can set the volume of the call waiting signal and select whether a waiting call is to be signaled only one time, or several times (see page 17).

When »Station guarding« is set, the call is indicated as described on page . If you have configured “Hands-free calling” for an active connection, waiting calls will only be signaled optically in the display.

Begin as follows:



Press the softkey below »no« to inhibit the call waiting function. Use the softkey below »ok« to enable the call waiting function.

```
  Call waiting enable?
No     ok
```

```
       Settings         →
forward wait       date
```

4.5 Setting appointment dates

With your system phone you can set three different appointments which can be activated once, or daily.

The following settings are possible for every day:

»off«	The set appointment is not signaled.
»daily«	The set appointment is signaled daily.
»once«	The set appointment is signaled once.

Begin as follows:

adjust date

Select the desired date with the arrow buttons. The currently set alarm type for this date is displayed on the right.
Confirm your choice by pressing OK.

```
 Select appointment   ↔
1: 09:30 30.03.00    off
```


You can now select the type of acoustic signal for the appointment.

```
Alarm for appointment 1?
 off  daily       once
```

After pressing the softkey below »off«, you can set the next appointment. If you press the softkey below »daily« or »once«, you can set the time and the date of the appointment.

OK

Enter the time of the appointment.
In this example: »1300«.
Confirm your entry by pressing OK.

```
  Set appointment 1
Time>13:00
```

OK

Enter the date of the appointment.
In this example:»020400«.
Confirm your choice by pressing OK.

```
  Set appointment 1
Date>02.04.00
```

You then see the new settings for appointment 1. An exclamation mark (!) in front of the appointment in the display indicates that this appointment is activated.

```
 Select appointment   ↔
1:!13:00 02.04.00 once
```

Once the date and time of the set appointment are reached, an acoustic (with fixed melody and volume) and optical signal is issued.
If you press the E button once, this signal is interrupted and then continued a short time later as a reminder. To terminate signaling of an appointment press the ESC button twice. Signalling of the appointment can also occur during a call, or when you have set the function “Do not disturb”.
When your system phone is idle, the symbol »D«in the display indicates that an active appointment has been configured.

4.6 Call Filter

This telephone also offers you the option of automatically refusing calls. If this has been activated, the call is not signaled but is stored with a special flag (»i«) in the caller list. The caller hears the busy signal.
Up to 5 (1...5) prefixes, complete telephone numbers or partial numbers can be entered in the call filter. These numbers can consist of up to 26 digits. When you enter »*****« you can include calls which do not transmit the number (caller ID) in the call filter. You can then specifically refuse or accept these calls.
If the ISDN system telephone is disconnected from the ISDN network, e.g. by parking a call (see page 79), all of the entries that you have made in the call filter are then canceled.
If the call filter is active the display shows a »U« in its upper row.

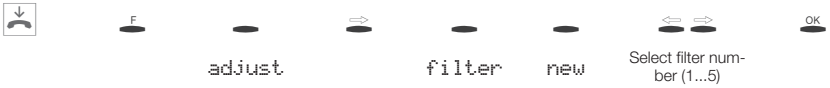
4.6.1 Configuring filter numbers

You can reconfigure a prefix, a number or a partial number, or you can use an existing number from the phone directory, speed dialing or direct dialing memory as the filter number.

> The following examples describe how to set up an inhibit filter.
> If you want to set up or modify existing filters, go through the steps described for filter 1.

Setting up a new number as filter number

Begin as follows:



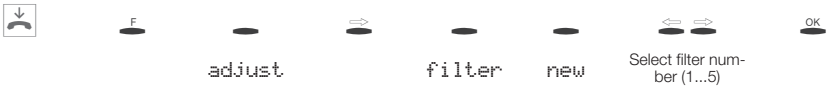
Press the softkey below »new«.

```
Enter filter no.1
tbook  vip  direct   new
```

	Enter the prefix, telephone number or partial number that is to be filtered. In this example: »05171«.	Filter number create >05171_
OK	Confirm your entry by pressing OK.	Select filter number ↔ 1:05171

Using an existing number as the filter number

Begin as follows:



	Press the softkey below »tbook«, »vip« or »direct«. In this example: Softkey below »vip«.	Enter filter no.1 tbook vip direct new
OK	Use the arrow buttons to select the desired short dialing destination. In this example: VIP-Ziel »V5«. Confirm your choice by pressing OK.	Subscr. from VIP ↔ V5:BEATRICE
OK	Now you have the possibility to change or add information to the dial number. Confirm the number by pressing OK.	Filter number create >0123456789_
		Select filter number ↔ V1:BEATRICE

4.6.2 Setting the call filter

There are various options available for filtering the call:

»no«	All calls signaled.
»reject«	Calls whose number concurs with the filter numbers that you have stored (complete numbers or partial numbers) are not signaled. All other calls are signaled.

»permit« Only those calls whose number concurs with the filter numbers that you have stored (complete numbers or partial numbers) are signaled. All other calls are not signaled.

»complete« No calls are signaled.

Begin as follows:

You see the possible call filter settings. Press the right arrow button to view the filter feature »complete«.
Press the left arrow button to return to the initial call filter settings.

```
Filter incoming calls? →
 no reject  permit
```

```
Filter incoming calls?←
      complete
```

Select the setting for the call filter by pressing the corresponding softkeys.

```
Filter incoming calls? →
 no reject  permit
```

```
call filter
incoming              new
```

4.7 Setting the date and time

The system telephone automatically takes the time and date from the PABX system, or from the external ISDN network. Nevertheless, you have the possibility to configure the date and time manually.

Begin as follows:

Enter the time.
In this example: »1034«.
Confirm your entry by pressing OK.

```
    Set time
time>10:34_
```

Enter the date.
In this example: »010400«.
Confirm your entry by pressing OK.

```
    Set time
Date>01.04.00
```

```
       Settings       ↔
filter tncall time  use
```

4.8 Setting the User Interface

4.8.1 Setting the softkey display

You can configure the settings for the softkeys in the lower row of the display. With your ISDN system telephone you can select whether you wish to have the letters for the softkeys shown in lower and upper, or only in upper case in the display.

Begin as follows:

Press the softkey below »no« to have the letters for the softkeys shown in lower case. Press the softkey below »ok« to have the letters for the softkeys shown in upper case.
In this example: Letters for softkeys in upper case.

```
    Softkey-Name large?
No                    ok
```

```
 Use variant           →
SOFTKEYS         HEADSET
```

4.8.2 Setting Light Telephone Headset(Headset)

You also have the option of connecting a headset to your telephone. Ask your dealer which headset models can be used with this system.
The following paragraph describes the setting of the headset. You find more information about how to use the headset on page 75 of this manual. For information about mounting the headset, please refer to the operating manual of the headset.

Begin as follows:

Press the softkey below »ok« to configure a headset or press the softkey below »no« to deactivate a set headset.

```
      Use headset?
No                    ok
```

```
 Use variant           →
softkeys          headset
```

4.8.3 Dialing with handset in its cradle

You can dial the number of a subscriber without lifting the handset from the cradle (e.g. hands free calling). Here you can select whether the built-in microphone is to be activated immediately, or only after the »speak« softkey has been pressed. If the microphone is switched off during dialing, the softkey below »speak« must be pressed, even if the connection has already been set up.

Begin as follows:

Press the softkey below »speak« to activate the microphone during dialing. If you would like to deactivate the microphone during dialing press the softkey below »silent«.

```
  With hands-free?
speak              silent
```

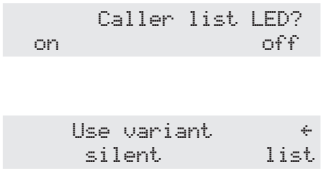
```
     Use variant      ←
      silent         list
```

4.8.4 Adjusting the LED of the caller list

The LED to the left of the shift button is used to indicate new calls in the caller list. You can set whether this LED is to flash for new calls in the caller list, or whether new calls are to be signalled in the display only via the softkey »list« .

Begin as follows:

If the LED is to flash for new calls in the caller list, press the softkey below »on«. To not have new calls in the caller list signaled by flashing LEDs, press the softkey below »OFF«.



4.9 Direct dialing

You can also configure a direct call for the telephone so that when any button is pressed (except for the ESC button and the F button) a defined phone number is dialed. If the direct call function is active only one connection can be set up to the set number. If you wish to establish a connection to a different number you must first deactivate the direct call function.
The PIN for the call filter (see page 38) is also used simultaneously to safeguard the activated direct call function in the telephone. The direct call function can then only be deactivated after entering this PIN. If the PIN is set to »0000« (initial state), you need not enter it and can bypass this step by pressing the OK button.

The following functions are possible when the direct call function is active:

- Automatic dialing of the set number by lifting the handset or by pressing any button (except for the ESC button and the F button).
- Accepting calls, provided these are not suppressed by the call filter.
- Dates that have been set previously.

Further functions (e.g.: function keys, TAPI functions or headset function) are not possible when direct dialing is activated.

4.9.1 Adjusting numbers for direct dialing

Begin as follows:

To set the number for direct dialing press the softkey below »tnumb«.

```
   Activate direct call?
 no        tnumb    ok
```

Enter the telephone number.
In this example: »098765«.
Confirm your entry by pressing OK.

```
Dir. call-in number
DirCall>098765_
```

```
   Activate direct call?
  no         tnumb    ok
```

4.9.2 Activate direct dialing

Begin as follows:

Press the softkey below »ok« to activate direct dialing.

```
   Activate direct call?
 no        tnumb    ok
```

Direct dialing is now activated. In the lower row of the display you see the direct dialing number.

```
Direct cal>10_
098765
```

4.9.3 Deactivate direct dialing

The display returns to idle with the direct call-in feature enabled.
Press the button F.

```
10:34          Direct cal
098765
```

Enter the set PIN and confirm your entry by pressing OK.

```
   Input PIN please
>0000_
```

Press the softkey below »ok« to deactivate direct dialing.

```
    End direct-call?
  no         tnumb    ok
```

```
01.04.00 10:34          →
tbook  vip  quiet
```

4.10 Displays of the telephone

4.10.1 Display the call number

The four (4) options for call switching are described in the following. Not all of the performance features described here are implemented in the ISDN standard connection or in the PABX. Contact your service provider to determine how or if you must apply separately for the individual performance features for your ISDN connection.

CLIP - Calling Line Identification Presentation

This feature permits the number of the caller to be displayed at the party being called.

CLIR - Calling Line Identification Restriction

This feature allows the caller to restrict (suppress) the display of his/her number at the party being called.

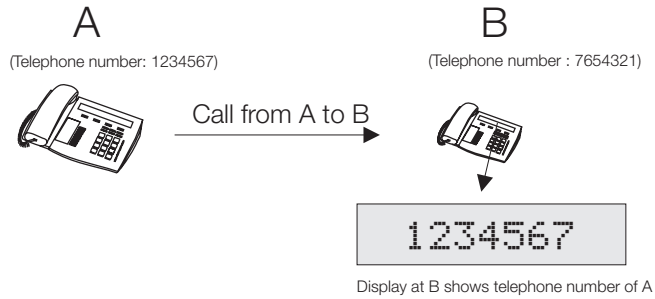


Fig. 8: Display the number for the called party (CLIP/CLIR)

COLP - Connected Line Identification Presentation

This feature allows the phone number of the party being called to be displayed at the caller's phone. For example, it the party being called has configured call rerouting to a third party, the caller can have the final number displayed at his/her phone using this feature.

COLR - Connected Line Identification Restriction

This feature restricts (suppresses) the display of the number of the party being called at the caller's phone. For example, if the party being called has configured call rerouting to a third party the final party (third party) can prevent his/her number from being displayed at the caller's phone using this feature.

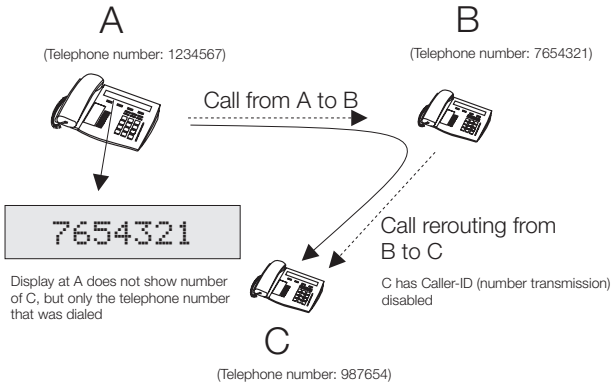


Fig. 9: Display of number at caller (COLP/COLR)

Display the number for the called party (CLIP/CLIR)

Begin as follows:

F — — — — —

config display msn outgoing

— Press the softkey below »no« or »ok«.

```
 Called subscriber numb?
No     ok
```

Display (approx. 5 seconds) after pressing the softkey below »no«.

```
Called subscriber get
no          dial number!
```

Display (approx. 5 seconds) after pressing the softkey below »ok«.

```
Called subscriber get
             dial number!
```

```
Call-Number transfer
outgoing         incoming
```

Display of number at caller (COLP/COLR)

Begin as follows:

F — — — — —

config display msn incoming

Press the softkey below»no« or »ok«.

```
Calling subscriber numb?
  no                  ok
```

Display (approx. 5 seconds) after pressing the softkey below »no«.

```
Calling subscriber get
no          dial number!
```

Display (approx. 5 seconds) after pressing the softkey below »ok«.

```
Calling subscriber get
            dial number!
```

```
Call-Number transfer
outgoing        incoming
```

4.10.2 Display during call

The following displays are possible during a call:

Call display for phone number (»0123456«).

```
0123456                  →
displ silent
```

Call display for phone number (»0123456«) and time (»19:22«).

```
0123456        19:22     →
displ silent
```

Call display for phone number (»0123456«) and duration (»02.19«) of entire call.

```
0123456        02.19     →
displ silent
```

Call display for phone number (»0123456«) and charges (»0,36«).

```
0123456         0,36     →
displ silent
```

Call display for date (»01.04.00«) and time(»19:22«).

```
01.04.00       19:22     →
displ silent
```

Correct charge display is shown only if you have applied at your network service provider for transmission of charges during calls.

View during a call

The displays during calls described in the following depend on your individual settings and can therefore be different for each connection.

During a call the display shows in the upper row the phone number (»0123456«) and the duration of the entire call (»02.19«).
Press the softkey below »displ«.

```
0123456        02.19   →
displ silent
```

You see the date (»01.04.00«) and time (»10:34«).
Press the softkey below »displ«.

```
01.04.00 10:34         ↔
displ
```

You see the charges (»0,36 GBP«) and the duration of the call (»02.55«).
Press the softkey below »displ«.

```
0,36 GBP       02.55   ↔
displ
```

If you are the final destination for call rerouting you will see the number that is being rerouted (»098765«), provided it is transmitted.
Press the softkey below »displ«.

```
U←098765               ↔
displ
```

You see the normal display again during a connection.

```
0123456        03.33   →
displ silent
```

After finishing the call you see for about 5 seconds the following display.

```
0123456
duration    03.45
```

Setting call display

Begin as follows:

F

```
config  display  conversation  norm
```

You will see two setting options for call display. Press the right arrow button to have other options displayed.

```
     Normal display?   →
tnumb+charge  tnumb+time
```

Press the corresponding softkey for the desired call display.

```
     Normal display?   ←
number         data+time
```

The softkey »duration« is available only after pressing the softkey below »tnumb+charge«. Otherwise, this softkey is no longer displayed.

```
Conversation display
        duration  norm
```

Displaying the conversation time

After setting the call display to »tnumb+charge« you can set the display for call duration.

Begin as follows:

```
F
        config  display  conversation  duration
```

Press the softkey below »always«, »never« or »for_charge«.

```
Conversation time displa
always never  for_charge
```

»always« The charges are not displayed during a call. You see the duration of the call.

»never« Accrued charges are displayed. The duration of a call is not displayed.

»for_charge« Accrued charges are displayed, otherwise the duration of the call is displayed. If the charges are not displayed, the duration of the call is displayed.

```
Conversation display
        duration  norm
```

4.10.3 Setting the language of the display

You can select the language of your display. The display texts can be displayed in different languages.

Begin as follows:

```
F
        config  display          language
```

Press the arrow buttons to view the available languages.

```
       Which language? →
deutsch           english
```

Press the softkey below the desired language. The display switches to the changed language immediately.

```
  Display-Monitoring  ←
language
```

4.11 Call control

You can configure a control for outgoing calls in your phone.
If you have configured the call control a »U« is shown on the top line of the display.
The settings for call control are PIN-protected (password) and can only be made and accessed in the following manner.

Begin as follows:

F — config — inhibit

Enter the PIN.
In the initial state:»0000«).

```
   Input PIN please
> _
```

OK — Confirm your entry by pressing OK.

```
Config. inhibit filter →
pin        list outgoing
```

If the PIN is initially set to »0000« (initial state), you need not enter it again and can bypass this step by pressing the OK button.

4.11.1 Setting call control

The inhibit and enable lists for the telephone both encompass seven (1...7) entries. Each entry for a prefix, a number or a partial number can contain up to 26 digits.

Global inhibit

»complete« — You can set your phone to inhibit all outgoing calls, except for those telephone numbers in the enabled list.. For example, if the prefix 051 is enabled, all telephone numbers which begin with 051 can be called.

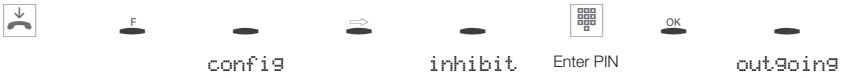
Selective inhibit

»list« The call control distinguishes between the entries in the enable list and those in the inhibit list. You can release inhibited entries using the enable list. If an entry in the enable list longer that an entry in the inhibit list that entry can be dialed. (Example: Inhibited number 01234 and enabled number 012345; Calls beginning with 01234 can not be dialed, only those beginning with 012345.)

Deactivate call control

»no« The softkey »no« deactivates a configured call control.

Begin as follows:



To deactivate a configured call control, press the softkey below »no«.
If you would like to activate call control, press the softkey below »complete« or »list«.

```
  Inhib. outgoing calls?
no     complete list
```

```
Config. inhibit filter →
pin          list outgoing
```


4.11.2 Enter the inhibited and enabled telephone numbers

Configuring and changing of inhibited number 1 of the call filter is described in the following examples.
Proceed as described for Inhibited number 1 to configure or change other inhibited/enabled numbers.

Begin as follows:

Enter the prefix, telephone number or partial number that is to be inhibited.
In this example: »05171«.

```
 Inhib./Enable tel. no.
Inhib-1>05171_
```

OK — Confirm your entry by pressing OK.

```
Inhib./Enable tel. no.↔
Inhib-1>05171
```

Editing inhibited and enabled telephone numbers

Begin as follows:

C — Delete the existing telephone number by pressing the C button.

```
 Inhib./Enable tel. no.
Inhib-1>05171_
```

Enter the prefix, telephone number or partial number that is to be inhibited.
In this example: »05171« change in »0049«.

```
 Inhib./Enable tel. no.
*Inhib-1>0049_
```

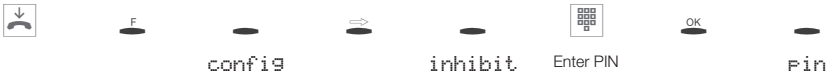
OK — Confirm your entry by pressing OK.

```
Inhib./Enable tel. no.↔
Inhib-1>0049
```

4.11.3 Changing the PIN

In this menu you are able to configure your individual PIN (0000...9999).

Begin as follows:



Enter the new PIN.
In this example: »1234«.
OK — Confirm your entry by pressing OK.

```
      Change PIN
>1234_
```

```
Config. inhibit filter →
pin        list outgoing
```

Note: The PIN is also reset after executing the service reset for restoring the initial state (0000).

4.12 Protecting the configuration by a PIN (password)

The call filter PIN can also be used to protect the configuration of the telephone and for deleting the charges. After accessing configuration (F button and »config«) and before clearing the charges, the PIN must first be entered.
The setting for access using a PIN is made using a security code:

protection code: »0«	Access to the configuration menu is not restricted. The PIN must only be entered when accessing the menu for call control (see page 36).
protection code: »1«	Access to the configuration menu and clearing of the charge rate memory are PIN-protected. After pressing the F button and the softkey below »config« , and prior to clearing the charges, you must enter your PIN.

Begin as follows:

Enter the digit for the protection code.
In this example: »1«.

```
  Inhibit menu access
Sec. code>1_
```

Confirm your entry by pressing OK.

```
Config. inhibit filter
                  menu
```

Please write down the entered PIN. If you forget your PIN, you will not be able to access any of the PIN-protected settings.

Accessing the configuration menu via the PIN

In these operating instructions, access to configuration is always described without the use of a PIN (Setting: »Prot. code>0«). If you set PIN protection for configuration (Setting: »Prot.Code>1«), this menu is then accessed as described here.

Begin as follows:

Configuration of the requested performance features possible in the configuration menu.

4.13 Call charges

You must apply for this feature at your network service provider. Transmission of the current charges can, depending on the service you applied for, be displayed either during or after the call.

> Please note that only charge billing by the network service provider is binding.

There are several standardized procedures for transmitting call charge rates. Usually the same procedure is employed at one connection that is recognized and stored automatically for future use by the telephone.

- The exchange office transmits rate units which are converted into charges by the telephone using the specified charge rate factor. The display of your telephone then shows the current charges with the currency denotation that you have configured.
- The exchange office sends you currency values consisting of the amount of the charges and the currency denotation. These are then displayed directly in the display of your ISDN system telephone.
  The currency denotation transmitted from the exchange must not necessarily be the same one that is set in the initial state of your telephone.

4.13.1 Setting the Currency and Charge Factor (Charge rate factor)

The setting of the charge factor can have a maximum of 5 digits. To enter a comma, use the * key.

Begin as follows:

C — The initially set charge factor is displayed : »0,12«.
Delete the existing value by pressing the C button.

```
  Amount for units
>0,12
```

Enter the new charge factor.
In this example: »0,25«.

```
  Amount for units
>0,25_
```

OK — Confirm your entry by pressing OK.

```
       Charges
charge delete   currency
```

4.13.2 Resetting the charge display

In the event that the phone receives charge information that is not stored, »wrong charge type« then appears in the display.
When the charges that are stored in the phone are deleted, recognition and saving are reactivated automatically.

Begin as follows:

Press the softkey below »No«, to reset the type of charge information. If you want to delete the charge information, press the softkey below »ok«.

```
   Reset charge type?
No                    ok
```

```
       Charges
charge delete   currency
```

4.13.3 Setting the currency

The entry for the name of a currency can have a maximum of 6 digits. You can advance through the letters by pressing the appropriate button repeatedly (see page 6). The letters are shown in the display one after the other as you press the button.

Begin as follows:

C

You see the default currency type setting. Delete the existing entry by pressing the C button.

```
  Currency name
>GBP
```

Enter the new currency.
In this example: »EURO«.

```
  Currency name
>EURO_
```

OK

Confirm your entry by pressing OK.

```
       Charges
charge delete   currency
```

4.13.4 Chargesaccount for each Number (MSN)

You can set up a charge account for each number (MSN) that has been entered in the telephone. An amount in the configured currency that is available for making calls will then be allocated to this account for the defined number (MSN). Once this amount has been exhausted, only calls with costs, in addition to free-of-charge calls, can be directed to the enabled numbers of the call control (see Page 36). Calls with costs can not be directed to other numbers. If the amount in the charge account is exceeded during an ongoing call, this call can nevertheless be completed.
When the amount for the account is increased, or when the accrued charges are cleared (see Page 82) calls with costs can again be made.

Attention: Not all service providers transfer charge rate information. If you make calls using a service provider which does not transmit charge information, the charge account is ineffectual.

Configuring a charge account

Configuring of a charge account for a phone number (MSN) is described in the following using MSN1 as the example.

Begin as follows:

Enter the amount that is available for this number for making calls.
In this example: »EURO 20«.
Confirm your entry with OK.

```
Dial inhib. by charge
Limit/EURO>20_
```

```
    MSN-1 program      ↔
msn_name     rate
```

If you enter the amount available for making calls as »0«, the charge account is not activated.

4.14 Setting the default park code

A parking code of 55 is set in the initial state. You can change the default park code to a single- or double-digit code.

Begin as follows:

The initially set park code is displayed: »55«.

```
   Standard call-parking
Call-Parking>55_
```

Enter the new park code.
In this example: »22«.

```
   Standard call-parking
Call-Parking>22_
```

Confirm your entry by pressing ok.

```
    Configuration     ←
service parkc
```

4.15 Emergency operation

When using the CS300 at a pabx, you must connect the telephone directly to the line acces, in case the 230 V~ power supply fails. This is possible with a pabx designed for emergency operation or by including a UPS adapter.

A proposal for the XCentric can be found at:
http://www.bintec.de/XCENTRIC/de/loesungen/index.html

The emergency operation mode enables you to use your telephone with limited performance features only.All incoming calls are signaled at this phone (ringing tone volume is not adjustable).
In addition to making normal calls, the following functions are also available:

- Display duration of call and charges
- Mute
- Terminate call

4.15.1 Setting emergency operation at a point-to-multipoint connection

To be able to use the CS300 in emergency mode, the emergency mode feature must first be configured in your telephone.When you have several ISDN telephones connected to the S0-bus, please be sure to configure only one for emergency operation.
For this, please remove the label from the telephone (see page 10). Using a suitable tool, as shown in figure 10 press the spring down until it catches. The ISDN system telephone is now set for emergency operation. To deactivate the emergency operation function, press the spring lightly towards the front using a suitable tool until the spring is released.

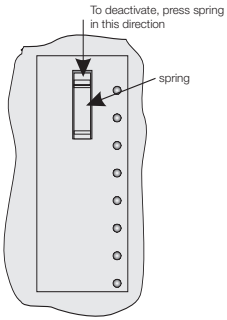


Fig. 10: Setting emergency operation at a point-to-multipoint connection

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

Loss of power supply for the network termination, or for the PABX. You see this display after a few seconds.

```
EMERGENCY SERVICE
```

Lift up the handset of your ISDN system telephone and dial the number you wish to call.

```
Dial please
```

If the 230V~ 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 its cradle, the “Emergency service” message in the display is replaced by the normal display when you lift up the handset or when a call is made.

The MSN allocated to you by the network service provider as the first MSN (MSN1) is transmitted to the external subscriber. Charge billing is effected for this. All existing connections will be interrupted at a power supply failure and also when the power returns.

4.16 Emergency operation at a point-to-point connection

Begin as follows:

Press the softkey below »ok«, to enable your telephone for emergency operation at a pabx connection or press »no«, to deactivate emergency service.

```
Emergency service PABX?
  no                   ok
```

```
      PABX             ←
type-id      connection
```

4.17 Programming the phone directory

You can store up to 250 names (20 characters max.) and telephone numbers (26 digits max.). To select a name, you can page through the directory using the arrow buttons, or enter the specific first letter(s) of the name using the pushbutton set.

If the name of the caller is to be shown in the display instead of the caller's number, this number must be entered in the telephone directory with that name (including prefix and, when used with a PABX the line access digit).
Display of the caller name is only made when the transmitted number corresponds to the number stored in the phone directory.

If the telephone is disconnected from the ISDN network and then reconnected, or if the data for the telephone directory are transferred to the system telephone via the PC program, the directory must be reorganized internally. This process takes place automatically and may require a few minutes. During this time, the telephone directory of your telephone is not available for use.

4.17.1 Directory entries

Each button of the pushbutton set is labelled with three or four letters of the alphabet. You can advance through the letters by pressing the appropriate button repeatedly (see page 6). The letters are shown in the display one after the other as you press the button. If there are two consecutive letters on the same button of the pushbutton set, press the

right arrow button after entering the first letter and then enter the next letter. You can also change the position where the letters are entered using the arrow buttons (e.g. for entering a space).

Begin as follows:

Enter the name.
In this example: »J.DEAN«.
Confirm your entry by pressing OK.

```
  Input  telephone  book
name>J.DEAN
```

Enter the telephone number.
In this example: »0987654321«.
Confirm you entry by pressing OK.

```
  Input  telephone  book
tnumb>0987654321
```

If you wish to make further entries proceed as described above.

```
Tel. drctry
*      delete list   new
```

4.17.2 Editing entries in the directory

Begin as follows:

Enter the first letter of the directory entry and/ or search it with the arrow buttons.

```
   Make initial select.
name>M
```

Confirm your entry by pressing ok.

Delete the existing characters by pressing the C button.

```
Change tbook data input
name>J.DEAN
```

Enter the new letters.
In this example: »J.DEANNOY«.
Confirm your entry by pressing OK.

```
Change tbook data input
name>J.DEANNOY
```

C — Delete the existing telephone number by pressing the C button.

```
Change tbook data input
tnumb>0987654321_
```

Enter the new number.
In this example: »0123456789«.
OK — Bestätigen Sie die Eingabe mit OK.

```
Change tbook data input
tnumb>0123456789_
```

To edit further entries proceed as described above.

```
name>J.DEANNOY
T:0123456789
```

4.17.3 Deleting entries from the directory

Begin as follows:

To delete further entries proceed as described above.

```
Tel. drctry
      delete list   new
```

4.17.4 Reorganizing the directory

When you delete an entry from the directory it will no longer appear in the display, but it does, however, continue to take up storage space. It may then not be possible to have the complete 250 entries in the directory. A prompt then appears in the display asking you to reorganize the directory. Reorganization of the directory removes all of the deleted entries from the memory, making storage space previously used by deleted entries available again.

You wish to make an entry in the directory and the text shown at the right appears in the display for around 10 seconds.

```
Reorganization before
     tbook modification
```

Press the softkey below »reorganize«.

```
Tel. drctry
°          reorganize
```

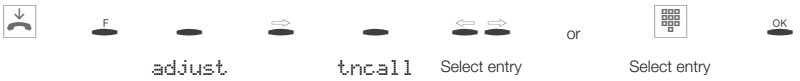
The telephone returns to idle.

```
01.04.00 10:34          →
^tbook  vip  quiet
```

4.17.5 Configuringspecial ringing tone (VIP ringing tone) for directory entries

You can configure a special ringing tone for a caller whose number is entered in the directory. This special ringing tone will then have priority over the ringing tone assigned to the selected MSN.

Begin as follows:



Press the arrow buttons to select the ringing tone melody..
Confirm your selection by pressing the acknowledgement button.

```
name>J.DEANNOY          ↔
Melody:  --------■----  6
```

Press the arrow buttons to select the volume.
Confirm your selection by pressing the acknowledgement button.

```
name>J.DEANNOY          ↔
Call signal  - ■■■--- +
```

An active special ringing tone is displayed as a digit.
In this example: »6«.

```
Set specl. tone call  ↔
name>J.DEANNOY          6
```


4.18 Programming VIP numbers

You can program VIP numbers for each of the ten buttons 1 ... 0 including a name (20 characters max.) and a telephone number (26 digits max.).

4.18.1 Programming VIP entries

The following example describes how to program a VIP entry for destination »U5«. If you wish to program further entries, proceed as described for »U5«.

Begin as follows:

Enter the name of the VIP entry »V5«.
In this example: »BEATRICE«.
Confirm your entry by pressing OK.

```
 Program VIP name
V5:BEATRICE_
```

Enter the telephone number.
In this example: »0123456789«.
Bestätigen Sie die Eingabe mit OK.

```
 Program VIP number
V5>0123456789_
```

```
Reprogram VIP          ↔
V5:BEATRICE
```

4.18.2 Editing VIP entries

Begin as follows:

Delete the existing entry by pressing the C button and enter the new name for this VIP entry.
In this example, the name is left unchanged.
Confirm your entry by pressing OK.

```
 Program VIP name
V5:BEATRICE
```

Delete the existing telephone number by pressing the C button.

```
 Program VIP number
V5>0123456789
```

Enter the new number.
In this example: »0987654321«.
Confirm you entry by pressing OK.

```
 Program VIP number
V5>0987654321_
```

```
     Select VIP        ↔
V5:BEATRICE
```

4.19 Programming direct dialing numbers

Direct dialing is initiated using the direct dialing keys . Each of the 7 keys can be programmed with two direct dialing numbers. Using the Shift button you can switch between the two levels for direct dialing. Pressing the shift button is indicated by »[a]« on the top line in the display.
You can also program other typical system functions for the direct dialing buttons in addition to the ones described here (see page 59).

4.19.1 Programming dtmf or keypad sequences

The following example describes how to program the direct dialing button 5. If you wish to configure further buttons proceed as described for Button 5.

Begin as follows:

Enter the telephone number or the dtmf/ keypad sequence (26 digits max.).
In this example: Telephone number »0123456«.

```
  Program keys
5_> 0123456_
```

If you wish to program a tone frequency or keypad sequence press the Shift button and set the desired entry mode in the display before you input the digits.

(No character)	Telephone number
»T«	DTMF sequence (Tone frequency dialing, see page 81)
»K«	Keypad sequence (Keypad function; see page 81)

Confirm your entry by pressing OK.

```
Prog. new direct dial ↔
5_:  0123456
```

Editing direct dialing numbers

Begin as follows:

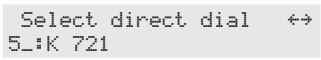
Delete the existing entry by pressing the C button.

```
     Program keys
5_> 0123456_
```

Enter the telephone number or the dtmf/ keypad sequence.
In this example: »721«.

```
 Prog. new keypad key
5_>K721_
```

OK Confirm your entry by pressing OK.



4.19.2 Programming function keys

You can program the following functions for the direct dialing buttons of your phone:

MSN assignment

You can conduct an internal or external call such that a defined phone number (MSN) is transmitted to the party you are calling from your phone. This number must have been entered previously in your telephone. MSN assignment via a programmed function key is possible only for numbers MSN-1 to MSN-9. It is not possible to configure an MSN assignment for MSN-10 using the function keys.

LED functions:

- Connection has been set up via this button:
  The LED lights up.

Carrier / Provider prefix

You can configure a button such that, in addition to an explicit MSN assignment, you can also store a carrier code at this button. A button that has been configured in this way can also be combined with a number from the phone directory, or the VIP or direct dial memory during call preparation.

LED functions:

- Connection has been set up via this button:
  The LED lights up.

Callfilter

If you have configured the call filter for your telephone (see page 24), e.g. for ignoring certain numbers, you can also configure a button for activating/deactivating the call filter. Changing between the filter modes (reject, accept or complete) can not be performed using this programmed button. If you have not yet made any settings in the call filter you can call up the call filter menu by pressing this button.

LED functions:

- Call filter active:
  The LED lights up.
- Call filter off:
  The LED is not lit.

Callrerouting

You can configure a button such that call rerouting (see page 20) is set up for certain numbers (MSNs). When this button is then pressed call rerouting is either activated or deactivated. Configuring of call rerouting using programmable buttons is only possible for numbers 1 to 9 (MSN1...MSN9) of the telephone. To utilize the call rerouting function you must have already configured at least one phone number.

LED functions:

- Call rerouting on:
  The LED lights up.
- Call rerouting off:
  The LED is not lit.

Directcall

Direct calling from the telephone (see page 29) can be configured via programmed function keys. The direct call number must be stored in the telephone before direct calling via a function key can be configured. Deactivation of direct calls is carried out as described in the section »Direct call« (see page 29).

LED functions:

- Direct call on:
  The LED lights up.
- Direct call off:
  The LED is not lit.

Programming function keys

The following example describes how to program the function key 2a. If you wish to program other buttons, or edit an already programmed button, proceed as described for Button 2a.

Begin as follows:

Use the arrow keys to select the desired function.
In this example: »call forwarding«.
Confirm your choice by pressing OK.

```
Function for key 2a?↔
call forwarding
```

Enter the index of the telephone number (MSN) that is to be forwarded.
In this example: Telephone number with index »3«.

```
2a / call forwarding
number>3_
```

Indicate the type of call rerouting.
»1« - permanent
»2« - delayed
»3« - on busy
In this example: »2«.

```
2a / call forwarding
number>32_
```

Enter the number to which the calls are to be forwarded.
In this example: »123456«.

```
2a / call forwarding
number>32123456
```

OK

Confirm your entry by pressing the OK button.
You will then see the button programming.
In this example: Call rerouting “delayed” for number (MSN) 3 to the final number 123456.

```
Prog. new direct dial ↔
2a:F MSN3,delaye→123456
```

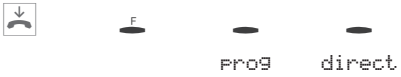
function	**Displays**	**further entries**
MSN assignment	msn-assignment	Index of numbers (MSN 1...9) that are to be transmitted
Carrier/Provider prefix	msn-assignment	Index of the numbers (MSN 1...9) and code of the desired provider (e.g. 01033)
call filter	call filter	
call forwarding	call forwarding	Index of numbers (MSN 1...9) that are to be rerouted, type of rerouting (1...3) and final destination of call rerouting
dir. call-in	dir. call-in	

4.20 Programming the elmeg T300 keyboard extension

If you are using your telephone with the elmeg T300 keyboard extension module (see page 10), you can also conduct two-level programming for a further 24 buttons. You can program numbers (DTMF or keypad sequences (see page 50) and functions (see page 51) for these buttons. When you are using the BinTec CS300 together with an XCentric, you can program the typical system features described from page 59 on.

You can get to the second level on the keyboard extension module by pressing the Shift button on your phone.

Begin as follows:



Press any one of the buttons on the keyboard extension. To program the second level for a button, press the desired button two times, or first press the Shift button, followed by the desired button on the keyboard extension module.

```
Program keys
  function  list   new
```

Press the softkey below »function«, if you want to program a function. If you want to program a telephone number, a dtmf sequence or a keypad sequence, press the softkey below »new«.

```
Prog. key 13a
Function New
```

Programming a telephone number, a dtmf sequence or a keypad sequence

Enter the telephone number or the dtmf/ keypad sequence.
In this example: »0123456789«.

```
Program keys
13a> 0123456789
```

OK

Confirm your entry by pressing OK.

```
Prog. key 13a
Function              New
```

The number of the button and the programmed number then alternate in the display.

```
  0123456789
Function              New
```

Programming functions

Use the arrow keys to select the desired function.
In this example: »call filter«.

```
 Prog. key 13a
call filter
```

OK

Confirm your entry by pressing OK.

```
 Prog. key 13a
Function              New
```

The number of the button and the programmed function then alternate in the display.

```
F call filter
Function              New
```

4.21 Additional Information in the Display

When the telephone is in the idle state, additional information about functions/performance features that have been configured are shown on the top line of the display. In this example: »DVqC«.

```
01.04.00 10:34   DVqC  →
*tbook  vip  quiet
```

To obtain further information about set functions press the right arrow button and then the softkey below »info«.
If several functions have been set, press the arrow button or the softkey below »info«, to view the various settings.

```
01.04.00 10:34   DVqC ↔
unpark     charges info
```

```
Call forwarding direct↔
(1→0123456789)      info
```

Displays	Configured function
»D«	Active date set
»U«	Dial control, call filter or configuration protection active
»q«	Function »Station guarding« (only brief signal) active
»Q«	Function »Station guarding« (complete) active
»C«	call forwarding active

5 Settings for a PABX System

5.1 Number length

The length of internal numbers is the maximum length (digits) for numbers that are assigned to different internal subscribers within your PABX system. The telephone uses the number of digits of a number (number length) you have entered to differentiate between internal and external callers.
In the default state, this length is set to 4 digits.

Begin as follows:

Enter the internal number length of your pabx (0...9).
In the example here: »2«.
Confirm your entry by pressing OK.

```
PABX number length
>2_
```

```
        PABX          →
number  ln.access extern
```

5.2 Automatic access of exchange line

You have the option of setting your system telephone for automatic access to an exchange (outside) line. When placing a call from the telephone directory, speed dialing or destination speed dialing memory, do not dial the exchange code. When calls are made the number of the subscriber is likewise shown without the exchange prefix.

Please note that you can set automatic line access either in the PABX system or in your system telephone.

Begin as follows:

Press the softkey below »ok« to configure line access or »no«, to deactivate line access.

```
Autom. line access?
  No                ok
```

```
        PABX          →
number  ln.access extern
```

5.3 Line access digit (LAD)

You need this feature when your telephone is connected to a PABX. The line access digit (LAD) is the code that you must dial to call an external number. The line access digit is placed automatically in front of the number of the caller in the caller list for external calls. The stored number can then be called directly from the caller list (see page 71). You can find the LAD for your PABX in the PABX manual .

Begin as follows:

Enter the external line access code of your pabx (max. 4 digits).
In the example here: »*80«.
Confirm your entry by pressing OK.

```
Input external line
Extern>*80
```

```
External line!
```


5.4 Setting the PABX system type

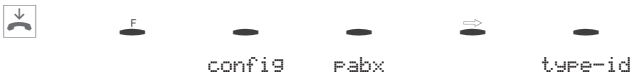
If you operate your system telephone with a PABX you must set the type of PABX you are using in the phone. This setting is required, as some PABX systems transmit the line access digit on incoming calls, meaning that the line access digit must not be entered in the phone.

Type »0«: The PABX system does not transmit the line access digit on incoming calls. The line access digit must be entered in the phone.

Type »1«: The PABX system transmits a line access digit on incoming calls. No line access digit should be entered in the phone.

If you are using the BinTec CS300 on the internal ISDN connection of the XCentric, please enter type »1«.

Begin as follows:



Enter the type of PABX.
In the example here: »1«.

```
   PABX-type-number
>1_
```

Confirm your entry by pressing OK.

```
          PABX          ←
type-id     connection
```

5.5 Function buttons

The existing direct dial buttons (see page 49) of your phone can also be programmed as function keys for facilitating use of typical system functions with your XCentric system.

Not all features listed below are currently supported by the function keys.The scope of features is continuously enhanced.Up to date information on the current software version can be found at:
http://www.bintec.de/XCENTRIC/de/loesungen/index.html

Attention:

- All of the LED functions described here are only available for functions configured for the first level of the direct dial buttons.
- Line keys, connection keys, team keys and the boss/ secretary functions can not be configured for the second level of the direct dial buttons.
- The following applies to the LED functions of configured function keys in the second level of the direct dial buttons: The current LED status of second level function keys is displayed by pressing the Shift key. When the function key is then pressed the LED status is displayed. After around 3 seconds the “normal” LED status is displayed again for first level function keys.

5.5.1 Line keys

A B channel for an ISDN connection is configured for a line key. When this key is pressed, hands-free calling is activated automatically and the corresponding ISDN connection is accessed. You will hear the external dial tone.

LED Function

- External Connection:
  The LED lights up.
- Incoming call:
  The LED flickers.
- No B-channel available:
  The LED blinks.

5.5.2 Connection keys

You can configure dialing to an internal party using a connection key. When the corresponding key is pressed the hands-free function is activated and the number entered for the listed internal subscriber is dialed.
If a call is signaled at a listed, internal subscriber you can accept this call by pressing the connection key.

LED Function

- Connection:
  The LED assigned to the internal number lights up.
- Call:
  The LED flickers.
- No B-channel available:
  The LED blinks.

5.5.3 Team keys

A team key is a normal line key to which the internal number for a team is assigned. When the corresponding key is pressed hands-free calling is activated and the listed team called.
If a call for the listed team is signaled you can accept the call by pressing the team key.

LED Function

- Call:
  The LED assigned to the team flickers.
- Connection:
  The LED goes out so that other team calls can be signaled when they come in.

5.5.4 Team function log-in/ log-out

If you are entered as a subscriber in the call switching modes of one or more teams you can configure a key so as to control the call signaling of your telephone. When you are logged in, team calls will be signaled at your telephone. No team calls are signaled at your phone if you are not logged in.

LED Function

- Logged in: The LED lights up.
- Logged out: The LED is not lit.

5.5.5 Day-/ Night modes

You can configure a key so that you can switch between the call switching modes of the PABX (Day/Night modes) when that key is pressed. There are three (3) different options for this function:
Day/Night all: All features which make a distinction between Day/Night call modes for call distribution (AVA, Teams, TFE) are all commonly switched over.
Day/Night Team: When a team number is entered here, only the call mode for this team is switched over. If you do not enter a team number, the call mode is switched over for all teams.

LED Function

- Day call mode: The LED is not lit.
- Night call mode: The LED lights up.

5.5.6 Message

The message function allows you to establish a connection to a different telephone, or to a team to which several phones are assigned, without this connection having to be actively accepted. The connection is set up as soon as at least one telephone has accepted the message and the LED of the message button is activated. The message can be ended by pressing the message button again, or by pressing the speaker button. The associated LED is deactivated when the message is terminated.

Messages are accepted automatically by the phones being called by activating the open listening function when:

- the phone is idle.
- the message inhibit filter is activated.
- the »Station guarding« function is not activated.

When a message comes in, the number of the party sending the message appears in the display of the phone being called. The message is preceded by a brief acoustic signal over the speaker. The message can be terminated at any time by pressing the ESC key.

5.5.7 Message on/off

If the function »Station guarding« is activated at your phone, you will not be able to receive any messages. You can also explicitly inhibit or enable receiving of messages using a corresponding function key.

LED Function

- Message possible: The LED lights up.
- Message inhibited: The LED is not lit.

5.5.8 Intchselercom

The intercom function allows you to establish a connection to a different telephone without this connection having to be actively accepted. When this phone accepts the intercom call the connection is set up and the LED for the intercom button is activated. The intercom connection can be ended by pressing the intercom button again, or by pressing the speaker button. The associated LED is deactivated when the intercom call is terminated.
In contrast to the message function, intercom calls can only be made to one phone.

Intercom calls are accepted automatically at the phone being called by activating the hands-free calling function when:

- the phone is idle.
- the intercom call inhibit filter is not activated.
- the »Station guarding« function is not activated.

The number of the caller appears in the display of the party being called for intercom calls. Intercom calls are preceded by a brief acoustic signal over the speaker. Intercom calls can be terminated by pressing the speaker button. An intercom call is transformed into a normal call if you lift the handset during an intercom call.

During an intercom call, you will hear a special tone every 15 seconds.

5.5.9 Intercom on/off

If the function »Station guarding« is activated at your phone, you will not be able to receive any intercom calls. You can also explicitly inhibit or enable receiving of intercom calls using a corresponding function key.

LED Function

- Intercom calls possible: The LED lights up.
- Intercom calls inhibited: The LED is not lit.

5.5.10 Boss secretary function

This function enables the interaction between the phones of the secretary and the boss. Here, a special line key with the number of the boss' phone is assigned to the secretary's phone, and one with the number of the secretary's phone assigned to the boss' phone. These special line keys allow the features "Boss's phone" and "Secretary's phone" to be stored in both phones.
If a connection is set up from the boss' phone to the secretary's office via the corresponding line key, this call is signaled in the display of the secretary's phone by »boss conn«. If a connection is set up from the secretary's phone to the boss' office via the corresponding line key, this call is signaled in the display of the boss' phone by »office«.
The display »boss conn« or »office« alternates at 2 second intervals with the normal

display of the number or name of the caller.
If your phone has been configured as a “Boss” phone, a further function is added to the feature »Station guarding«. Once you have activated »Station guarding«, all calls for the first number (MSN-1) at the boss’ phone are forwarded immediately to the secretary’s phone. These calls are then only signaled optically at the boss’ phone and both optically and acoustically at the secretary’s phone.
Several “boss” phones can be configured for each secretary’s phone.

5.5.11 Programming a Function Key

Configuring a function key is described in the following using key 1 as an example. If you wish to configure further keys, or change a key that has already been programmed, proceed as described here for key 1.
If you wish to program a key of the key extension module, proceed as described on page 54.

Begin as follows:

Use the arrow keys to select the desired function.
In this example: »line key«.
Confirm your selection by pressing OK.

```
Function for key 1_?↔
line key
```

Please select an ISDN connection for configuring the line access.Enter the two-digit slot number and the two-digit unit number. Example:
Slot 3, Unit 0 = 0300
Slot 3, Unit 1 = 0301.

```
1_ / line key
number>0301_
```

Confirm your entry by pressing OK.

```
  Prog. new function ↔
1_:F line key-1/1
```

function	Display	Other input
Line keys	line key	Please refer to the description on page 63.
Connection keys	connection key	Number of subscriber
Team-Tasten	connection key	Number of team subscriber
Day/Night call mode (all)	day/night all	
Day/ Night call mode (Team)	day/night team	Team number or no entry for all teams
Team function Log in/ out	team on/off	Team number or no entry for all teams
Message	message	Internal number when message is to be put through to a specific subscriber/team
Message on/off	message on/ off	
Intercom	intercom	Internal number when intercom call is to be made to a specific subscriber
Intercom on/off	intercom on/off	
Boss/ Sec. function	boss connect. or office	Number of secretary's office R>or number of the boss

6 Operation

6.1 Starting a call

6.1.1 Dial number - no correction possible

Dial number

6.1.2 Dial number - correction possible

Dial number

To change the number or to correct a wrong entry, select the wrong figure with the arrow buttons and press C to delete it.

If you wish to conduct the call using the handset, just lift it up after dialing the number. Any time during a call you can switch back and forth between hands-free calling, speaker function and use of the handset.
After you have dialed the number you can also press the speaker button to have the number dialed and to use hands-free calling.
If a call can not be put through, (e.g. number is inhibited via the calling filter, or the account for the number/MSN is empty), this message will appear in the display »number inhibited«.

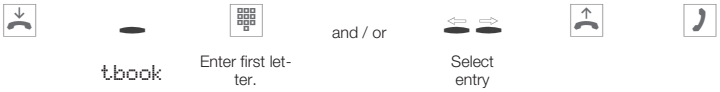
6.1.3 Other options for dialing without lifting the handset

The option of dialing without lifting the handset and of correcting or adding to a number also exists during dialing:

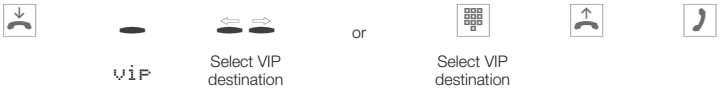
- from the redialing memory (see page 68).
- from the caller/memo list (see page 71).
- from the telephone directory (see page 45).
- from the VIP memory (see page 48).
- from the direct dialing memory (see page 49).

If you are using one of these options, you can make further entries prior to initiating the call. You can define which number (MSN), if any, is to be transmitted to the party being called.

Dialing from the telephone directory



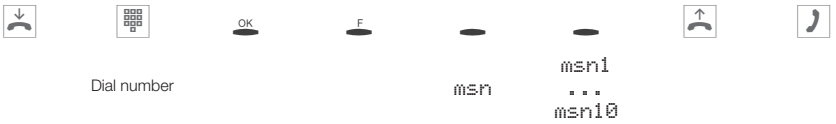
Dialing from the speed dialing memory



Dialing from the direct dialing memory

6.1.4 Initiating a call using a set number (MSN)

You can conduct an internal or external call such that a defined number (MSN) is transferred from your telephone to the party you are calling. This number must have been entered previously in your telephone. When you call, either number that is transmitted is shown in the second line of the display (»msn1...msn10«) or the name that you have assigned to this number (MSN). You can initiate dialing using the set number (MSN) as explained in the following, or you can use a programmed function key for this (see page 51).



6.1.5 No number transmission

During an external or internal call, you can prevent the number from being transmitted (displayed) to the party you have called. You can set this function specifically for the next call, or permanently (see page 31).

6.2 Accepting a call

In its initial state the telephone will accept all calls, regardless of the service or the selected MSN. If two calls are signaled simultaneously the first one is accepted when you lift the handset. The second call is then no longer signaled or indicated in the display. The second caller will then hear the busy signal.
The telephone number of the caller is shown on the first line in your display. The second line shows the MSN on the right (»msn1« … »msn10«), or the name of the MSN under which this particular telephone number is entered.

No number transmission

When a call is signaled, you can decide before accepting the call whether your number is to be transmitted to the caller. If your phone is the final destination of call rerouting you can use this procedure to prevent the caller from seeing the final destination phone number (i.e. yours).
You can set this function specifically for the next call, or permanently (see page 31).

6.3 »Station guarding«

You have the option of setting your ISDN system telephone to “Station guarding”. In the idle state an »r« or »R« in the upper line of the display shows that the function »Station guarding« is activated.

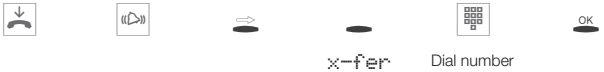
»no«	The function »Station guarding« is deactivated.
»complete«	Calls are signaled optically only (»R« shown in the display).
»ok«	Calls are signaled first by a brief acoustic signal and then only optically displayed (»r«).

6.4 Call rerouting / Call deflection

If you are unable, or do not wish to accept a call, you have the option of rejecting or forwarding this call. To do this, press the softkey below»reject«. The calling party hears the busy signal.
Press the softkey below »x-fer« to forward the call to a different subscriber.

Rejecting a call

Call Deflection (Call Deflection)



6.5 Redialing

The previously dialed telephone number is stored in the redial memory.

> If the connection between the ISDN system telephone and the ISDN network is interrupted, the redial memory is deleted.

6.5.1 Expanded redialing

In the expanded redialing function the 20 previous calls, connections and dialed telephone numbers are stored. You can view these by pressing the button or the arrow buttons and subsequently have them redialed automatically.

The last dialed number is displayed. At the end of the second line the status of this entry is indicated by the letters displayed there.

»↻«	connection
»🖃«	Call-Box
»⇉«	Calls configured for automatic redialing.
no entry	You placed a call to somebody but did not reach him/her, or his/her line was busy.

6.5.2 Delete telephone number from expanded redialing or save as a memo

Press the softkey below »delete?«, delete the displayed entry immediately. Press the softkey below »memo?« to write the entry as a memo to the scratchpad. After being written to the scratchpad the entry is deleted. The next telephone number is then displayed.

For an entry in the scratchpad, the softkey »list« is shown in the second line of the display.

6.5.3 Importing numbers from expanded redialing into the telephone directory

You can import a number that is present in the list for expanded redialing into the telephone directory of your phone (see page 45).

Begin as follows:

—	Press the softkey below »tbook«.	5/001122334455 tbook delete? memo? auto
⌨	Enter the name. In this example: »TONY«.	Input telephone book Name>TONY_
OK	Confirm your entry by pressing OK.	

In the redialing function the name displays instead of the number.

```
 5/TONY
tbook delete? memo? auto
```

6.5.4 Automatic redialing

If you placed a call to a subscriber whose number is busy or who does not answer, you can then activate automatic redialing which will call that same subscriber again after about 10 seconds.

Dial number

Subscriber busy or does not answer

After around 10 seconds the hands-free calling function of your phone is activated and the number is dialed automatically.
This is repeated for up to around 2 minutes.
Up to 20 call attempts are made if the subscriber can still not be reached.

If you hear the busy signal you can cancel automatic redialing by pressing the redial button.

Suspending automatic redialing

You can suspend automatic redialing that you have started any time using the appropriate procedure and place a normal call. To suspend automatic redialing, press the button during automatic redialing.
After the call automatic redialing starts again.

Deactivating automatic redialing

You can deactivate automatic redialing at any time. There are no further call attempts.

To deactivate automatic redialing during automatic dialing press ESC.

If you like to deactivate automatic redialing in the idle state of the phone, proceed as follows:

6.6 Caller and memo list

The phone has a combined caller and memo list. A maximum of 20 entries are stored. Entries in the caller or memo list are indicated by the softkey »list« in the lower row of the display. You always have the most current entries in the list. The most recent entry is displayed first.
If the number in this entry is identical to a number in the telephone directory the name is displayed instead of the number. You can also view the time and the date of an entry as well information (if applicable) about it. If you lift up the handset of your phone while you are viewing an entry in the list, that caller is then called automatically. Single entries can be selected for deletion.

If the ISDN system telephone is disconnected from the ISDN network all of the entries in the list are canceled.

Caller list

Calls that you do not accept, or that you specifically refuse, are stored in the caller list. Entries in the caller list are indicated by the flashing LED of the Shift button.
A maximum of 20 calls are stored. Further calls will then overwrite the oldest entries. When a call is made with a subscriber from the caller list (you call or you are called)the entry is automatically deleted and transferred into the redial memory.

Scratchpad memo

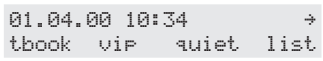
You can store a telephone number under a scratchpad memo. You can not input letters or any other special characters. A maximum of 10 entries can be stored. When a call is made with a subscriber from the scratchpad list (you call or you are called) the entry is automatically deleted and transferred into the redial memory.
You can enter a memo during a call or in the idle state. The following entries in the list are possible.

- Manual entry.
- Telephone number from short dialing memory.
- Telephone number from directory.
- Telephone number from direct dialing memory.
- Telephone number from redial memory.

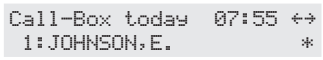
6.6.1 Viewing memos in the list

The telephone is idle. The softkey»list« in the lower row of the display indicates that a memo or an entry is present in the list.

Press the softkey below »list«.



The most current entry is shown in the display.



In the upper row of the display you see the type of entry: (»Call-Box« or »Memo«) the date (for the first two days »today« or »yesterday«) and the time. In the lower row you see the telephone number (and the name, if applicable) and the state of the entry.

»*« New call

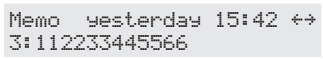
»m« Memo

»a« Call-Box

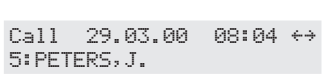
»i« rejected / ignored call (see page 24)

When you view the caller/memo list again, entries that you have already viewed but not deleted are no longer marked by »*« in the bottom line of the display, but rather by »a«.

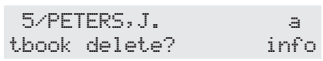
You can view other entries using the arrow buttons.



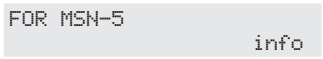
F If you wish to view more information about the entry, press the F button.



You have the option to delete the entry or view more. Press the softkey below »info«.

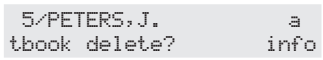


On the top line of the display you can see for which previously entered numbers (MSNs) the entry was made.



The number of calls is now displayed on the bottom line of the display (in this example:»2«).
Press the softkey below »info« to stop viewing the information.

If you want to delete the entry, press the softkey below »delete?«.



6.6.2 Select from the caller or memolist

6.6.3 Deleting an entry from the caller or memo list

6.6.4 Importing numbers from the caller/memo list into the telephone directory

You can import a number listed in the caller/memo list into the telephone directory of your phone (see page 45).

Begin as follows:

	Press the softkey below »tbook«.	3/001122334455 delete tbook? memo? auto
OK	Enter the name. In this example: »TONY«. Confirm your entry by pressing OK.	Input telephone book Name>TONY_
	The memo or caller list then displays the name instead of the number.	3/TONY tbook delete? memo? auto

6.6.5 Add entry to memo

The following example describes how a memo entry is made from the VIP memory. To enter a memo from the telephone directory, or from the direct dialing memory, press the corresponding softkey (»tbook« or »direct«). Entering a memo from the redialing memory is done by pressing the key. If you want to enter the new memo manually, press the softkey below »new«.

Begin as follows:

C

You now have the option to change or extend the telephone number. If you want to delete the figures, press the C button

```
 Memo number create
>0123456_
```

OK

Confirm your entry by pressing OK.

```
   Enter memo
tbook  vip  direct   new
```

6.7 Mute, Open Listening and Hands-Free Calling

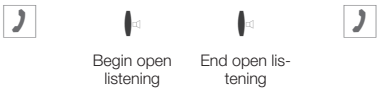
Mute

The mute function allows you to switch off the handset microphone during a normal call, or the telephone microphone during hands free calling. The party you are calling will then no longer be able to hear the conversation you conduct with persons in the room (room enquiry). However, you will continue to be able to hear the party on the phone.

Please note that the units or charge counter continues to run when »Mute« is activated.

Open listening

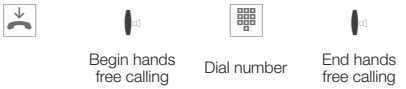
The “Open listening” function can be activated when there are other persons in the room who wish to also participate in the call. You continue to talk into the handset while this function is active. You can adjust the volume of the speaker during the call as described on page 17.
Please inform the party you are calling that open listening is activated. »🔊« indicates that open listening is activated.



When you hang up the handset while open listening is active, both open listening and the call itself are terminated.

Hands Free Calling

The handset remains in its cradle during hands free calling. The built-in microphone and the speaker are activated. Any actions are carried out using the open listening button only. You can switch back to normal “handset” calls at any time during hands free calling by merely lifting up the handset. You can also switch from normal “handset” calling to hands free calling when you hang up the handset after pressing the open listening button. During hands free calling acoustic signals (e.g. call waiting signal) are not transmitted.
Please inform the party you are calling that open listening is active. »🔊« shows that hands free calling is activated.

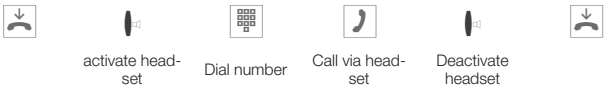


6.8 Light Telephone Headset (Headset)

You can connect a headset to your telephone and set it up as described on page 27.

Activate/deactivate headsets

The handset remains in its cradle when “headsets” are being used.

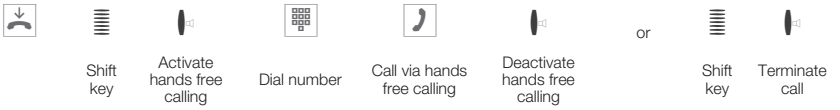


Switching between “Headsets” and open listening

If, during an ongoing call, you wish to switch over to open listening, press the Shift button.

Hands Free Calling

You can also initiate a call with hands-free calling activated without having to use headsets. If you deactivate the hands-free calling function during an ongoing call it can not be reactivated during this same call. The only alternative, in this case, is the speaker function.



6.9 Message and Intercom

The functions »Message« (see page 61) and »Intercom« (see Page 62) are typical system features that are available when using the BinTec CS300 at an XCentric. You can initiate the message or the intercom function via a function key that has been configured accordingly (see page 59) or using the procedures described in the following.

Message

Begin as follows:

Enter the telephone number, for which the message is to be given, or select an entry from the telephone directory

```
◀ Message to 22
tbook
```

The connection is set up as soon as at least one telephone has taken the message.
To end the message, press the key.

```
◀ 22              Msg.  →
displ silent
```

Intercom

Begin as follows:

Enter the telephone number, for which the intercom function is to be activated, or select an entry from the telephone directory.

```
Speak with 22
tbook
```

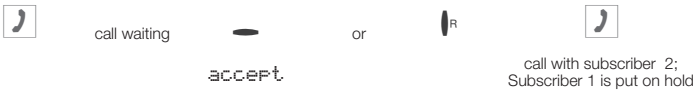
The connection is set up when the telephone has accepted the intercom function.
To end the intercom function, press the key.

```
22          interc.  →
displ silent
```

6.10 Call waiting, Enquiry call, Broker`s call and three-party conference

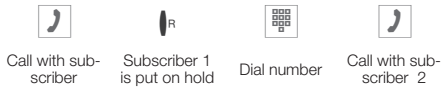
Call waiting

If; during an ongoing call, a second call comes in for you, the second call is signaled when “Call waiting on” is set (see page 22).
The “Call waiting” function is not possible when already more than one connection is established at your telephone.



Enquiry call

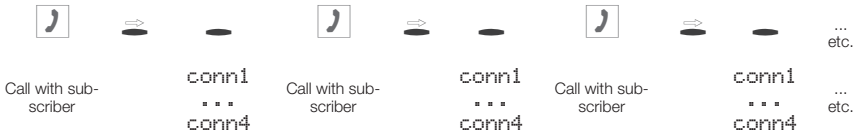
You have the option of establishing up to three (3) other connections during an ongoing call using the enquiry call function. You can also use the MSN assignment key, a line key or a connection key to initiate an enquiry connection.



If you wish to set up further connections, proceed as described above.
An active connection can be terminated by pressing .You can return to the call that was previously put on hold. If there are no other calls on hold, a new connection can then be set up.

Broker`s call

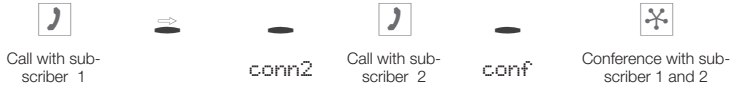
If you have more than one connection active at your system telephone (call waiting or enquiry call) (max. of four connections), you can talk to these parties alternately. For this, there are up to four (4) softkeys available, depending on the number of connections on hold.



If you have configured connection and line keys you can also carry out Broker's calls between different callers using these keys.
Additional information about the corresponding connections is displayed when you press the shift key and the softkeys below»conn1«, »conn2«, »conn3« or »conn4«.
To terminate an active connection, press . You are then returned to the call that was previously put on hold.

Three-party conference

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



To end the three-party conference, press the softkey below »back_to_«. You are reconnected with the subscriber of the last previous active connection. The other subscriber is then put on hold.

6.11 Call transfer (switching)

When a call is transferred, the active subscriber and the subscriber for the connection previously put on hold are always connected with one another.

You can initiate an enquiry call yourself (e.g. in order to announce the call) and can then transfer the call.

Call with subscriber 1 | Subscriber 1 is put on hold | Dial number | Call with subscriber 2 | x-fer

Please note that this performance feature (ECT - Explicit Call Transfer) must be supported by the PABX system when transferring two (2) external calls, or, when you use your phone directly on the NTBA, by your network service provider.

6.12 Parking

You can only use this feature if it is supported by your network provider or by your PABX.

The parking function allows you to interrupt a call for up to three (3) minutes. You can then unplug the plug-in connector for your ISDN system telephone from the ISDN jack and plug it in in a different room. You can continue with the previous call after »unparking« it. Or you can »unpark« the call at a different phone and continue your call there. A “parking code” (0....99) is used to ensure that you are returned to the proper call when two calls are parked. A parking code of 55 is set in the initial state. If the ISDN system telephone is disconnected from the ISDN network, all scratchpad notes, the caller list, a call back on busy, all entries in the call filter and the telephone number of the “parked” subscriber are canceled.

If you park two calls on an ISDN bus this bus is then disabled for further calls. “Unparking” is possible only on the bus on which the call was also parked.
Parking is only possible when only one connection is currently active with your ISDN system telephone.

Parking

Ongoing call | park | Enter park code

Unparking

6.13 Call-Back on busy (CCBS)

You can only use this feature if it is supported by your network provider or by your PABX.

Using the function “automatic call-back on busy” you can reach a party whose line is busy as soon as he/she hangs up the handset at the end of his/her call. You are then notified by the exchange office that the party for which CCBS has been configured can now be reached. As soon as you accept this information, the selected party is called automatically.
This feature must be applied for at your network service provider. You can configure three call-backs at a time. The call-back is deleted after a time period defined by the network service provider (approx. 45 minutes).

If the ISDN system telephone is disconnected from the ISDN network, e.g. by parking a call (see page 79), a requested call-back on busy is canceled.

6.14 Malicious call identification (MCID)

You can only use this feature if it is supported by your network provider or by your PABX.

If you receive a prank or malicious call, you can arrange for the number of the caller to be saved at the exchange office.
To enable this feature (Malicious call identification), it must first be applied for at your network service provider.

You can use this feature in 2 situations.

Malicious call identification during ongoing call

After the caller has hung up the handset

Identification of the caller is effected in the exchange office and the number stored there with information on the number of the caller, the date and the time of the call.

6.15 Keypad and Tone Frequency Dialing (DTMF dialing)

Keypad and DTMF sequences can also be stored at direct dialing keys (see page 50), which can then be used during a call.

Keypad

Using the Keypad function you can manage service or performance features in the PABX system or in the network of the service provider by entering character strings and digit sequences via the keypad. Ask your network service provider about this and consult the manual for your PABX to determine whether “Keypad” is supported..

ToneFrequency Dialing (DTMF dialing)

Using tone frequency dialing, you can transmit multifrequency signals (DTMF signals) during an ongoing call in order, for example, to poll your answering machine or for using mail systems. If call waiting is active for an ongoing connection, tone frequency suffix dialing can not be utilized.

In the initial state of your system telephone tone frequency suffix dialing is possible without pressing the corresponding softkey. Pressing the right arrow key is used as a check function here to determine whether tone frequency dialing or keypad sequences can be entered. If the softkey »keypad« is shown on the display, tone frequency suffix dialing is immediately possible. If the softkey »dtmf« is shown on the display, tone frequency suffix dialing is only possible after pressing this softkey.

6.16 Viewing and deleting call charges

Please note the instruction about Viewing the call charges on page 40. If you have implemented PIN protection of your phone's configuration (see page 39), clearing of the charge rate accounts is also PIN protected. After pressing the softkey below »delete?« you then need to enter the PIN.

View/Delete charges of the individual MSNs

Begin as follows:

You can view the sum of the charges accrued.
In this example for MSN -6.

```
MSN-6:        4,72 GBP ↔
msn-5 msn-6 msn-7  msn-8
```

If you wish to view the charges for other MSNs, press the corresponding softkey.

```
MSN-3:       12,36 GBP ↔
msn-1 msn-2 msn-3  msn-4
```

or

If you wish to delete the charges accrued for an MSN, press the left arrow button.
In this example: for MSN-3.

```
MSN-3:       12,36 GBP  →
single delete?      sum
```

Press the softkey below »delete?«.

```
MSN-3:       12,36 GBP  →
single delete?      sum
```

Press the right arrow button to view the charges for other MSNs. Proceed as described for MSN-3 if you wish to delete these charges.

```
MSN-3         0,00 GBP  →
single delete?      sum
```

Viewing/deleting the charges for the last call or the sum of the charges

Begin as follows:

rate

The charges for the call previously conducted are displayed.

```
Last conn.   1,44 GBP  →
single delete?      sum
```

If you wish to view the sum of all of the currently accrued charges press softkey below »sum«.

```
Total:     118,44 GBP  →
single delete?      sum
```

If you wish to delete the charges for an individual call or for all calls, press the softkey »single« or »sum« and then press the softkey below »delete?«.

```
Total:     118,44 GBP  →
single delete?      sum
```

```
Total:       0,00 GBP  →
single delete?      sum
```

If the sum of all the accrued charges is deleted, all MSN charge rate accounts are deleted simultaneously.

6.17 CTI with TAPI

The abbreviation CTI stands for Computer Telephony Integration, while TAPI is Telephony Application Programming Interface. This denotes the standard interface for Windows telephony applications from Microsoft.

This enables you to make and control telephone calls directly from TAPI-compatible Windows applications.Data for incoming calls are displayed as well.

For further information please refer to:
http://www.bintec.de/XCENTRIC/de/loesungen/index.html

7 Service Functions

7.1 Read firmwareversion of the telephone

You can have the version and the model of your phone (CS300) displayed so that you can determine, for example, which firmware version is available in your phone.

Begin as follows:

The display shows the firmware version of your telephone. In this example: »V1.00a«.
Press the right arrow button to view further data.

```
Software-Identificatio↔
BinTec CS300 V1.00
```

Press the C button to exit the menu.

```
  Service-Functions   →
version  software data
```

7.2 Country-specific Settings

Country-specific ISDN protocols must be set additionally in some countries. Check as described in the following whether you need to set a country-specific ISDN protocol for the country in which the telephone is to be used.

Begin as follows:

Press the arrow button to view the available country-specific ISDN protocols.

```
Which Country (Prot.)? →
deutsch           default
```

Press the softkey below the desired country. To reset the protocol to the telephone's initial state, press the softkey below »default«. The ISDN protocol is changed immediately.

```
  Service-Functions   →
country mfa
```

7.3 Programs of the WIN-Tools CD-ROM

Programs for data exchange between the PC and the telephone and for loading new firmware are included on the CD ROM provided with your telephone. These programs can be configured under Windows 95, 98, 2000 and Windows NT4. To install WIN-Tools place the CD ROM in the appropriate drive in your PC and follow the installation instructions on the screen.

WIN-Tools contains the following programs:

- Configuration Manager
  (Setting and configuration of your telephone)
- Phone Directory Manager
  (Create and edit of entries in the phone directory)
- Download Manager
  (Loading of new firmware for the telephone)

Operation and use of the individual programs are not described in these operating instructions. Should you have any questions or problems while you are using the programs, you can also refer to the PC Help function of the various applications for assistance. The WIN-Tools CD-ROM programs are equipped with a comprehensive online Help function.

Connect the RS232(V.24) port of your PC with the RS232(V.24) port of your telephone in accordance with the manufacturer's instructions (see Figure 11 on Page 89). Ensure that you use the correct RS232(V.24) port on your PC. The configuration programs supplied with the system support the ports COM1 ... COM10.
Transfer of configuration and phone directory data to the telephone can only be carried out via the RS232(V.24) port.

On completion of data exchange, the telephone undergoes an internal reorganization (of phone directory data for example). This process takes place automatically and may require a few minutes. During this time, certain telephone functions will not be available for use (e.g. phone directory).

7.4 Downloading a new firmware

You can download the firmware in two different ways:

- Download via the serail port (see section 7.4.1).
- Quick download via the ISDN connection (direct dial-in). For further information please refer to:
  http:/www.bintec.de/XCENTRIC/de/loesungen/index.html

All of the data in your telephone may be deleted.
Prior to downloading, save all of your telephone data (configuration, phone directory) to your PC. You can re-import this data back into your telephone on completion of the download.

7.4.1 Downloading a new new firmware via the RS232 interface

You can load the newest firmware versions into your telephone via the PC and using the WIN-Tools CD ROM supplied with the system.

- Load the new firmware into your PC (e.g. from the Internet).
- Start the WIN-Tools download program.
- In the field »Type of connection« set the appropriate COM port (COM1 ... COM10) for the RS232(V.24) interface.
- If you wish to load the newest firmware into several telephones simultaneously via the available RS232(V.24) ports, enter the number of telephones and set the appropriate COM port for each telephone.
- Open the menu »File« - »Open« and select the directory in which the new firmware has been stored.
- In the field »Status« click »Start Download« to begin downloading the new firmware.

Attention: Do not press any keys (unless prompted to do so) or plug in or unplug any connectors while data transfer is in progress. If the connecting line is interrupted during a download, restart the download program and proceed as described previously.

- Once the new firmware has been loaded completely the telephone performs a RESET and is then available for use again. Now, you can re-import the data (e.g. configuration, phone directory) that you saved previously back into your telephone.

7.5 Telephone BIOS

This telephone is equipped with a BIOS (basic functions) in English. The BIOS functions also remain available even if the firmware of the telephone does not operate properly, or if new firmware was not loaded completely (e.g. if the PC crashed while loading the firmware).
The following functions are available in the telephone's BIOS:

- All phone calls are signaled. No number (MSN) has been entered in the telephone.
- Dialing of outgoing calls is possible after lifting the handset (no call preparation, no open listening or hands-free calling).
- Loading new firmware via the RS232(V.24) port.

Downloading new firmware via the RS232 port

To load new firmware in the BIOS of your telephone via the RS232(V.24) port, proceed as described on page 87 of these operating instructions.

7.6 RESET - Resetting to default state

You can reset the telephone to its initial state using the procedure described in the following. All of the data that you have entered previously will be deleted.
If you have connected the elmeg T300 key extension module to your phone all of the data for the module will also be deleted when this procedure is executed.

Begin as follows:

Press the softkey below »ok«, to restore the phone to its initial state. If you do not wish to have the data deleted press the softkey below »no«.

```
 Sure to delete all?
No     ok
```

The telephone is returned to its initial state. All data are deleted.

```
01.04.00 10:34          →
       vip  quiet
```

7.7 Connection of the telephone to the PC

Connect the cable RS232(V.24) as shown in figure 11. Plug the RJ12 connector into the RJ12 jack on the back of the telephone and the 9-pin D-SUB connector onto the corresponding connecting jack of your PC.

Only use the RS232(V.24) cable delivered with the system, as this is not a standard serial cable.

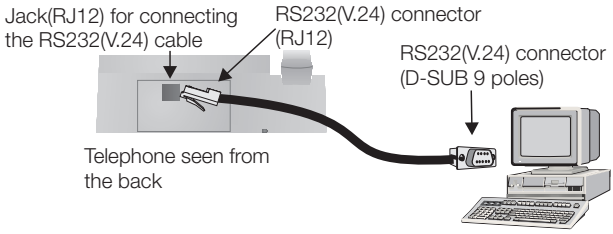


Fig. 11: Connecting of the telephone to the PC

RS232(V.24) cable

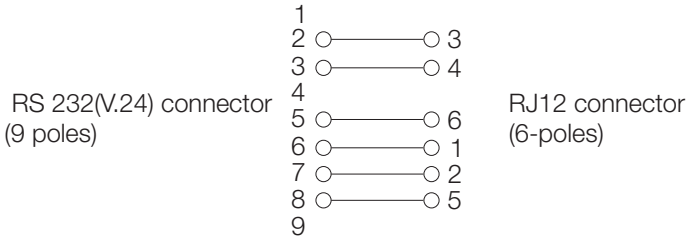


Fig. 12: RS232 (V.24) cable

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Brief Description of Functions

Enquiry call

Broker`s call

Three-party conference call

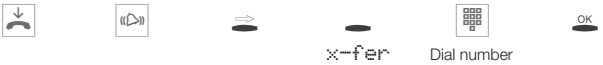
Call transfer with prior notice

Parking

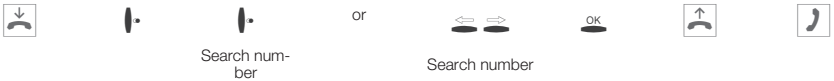
Unparking

Malicious call identification

Call forwarding



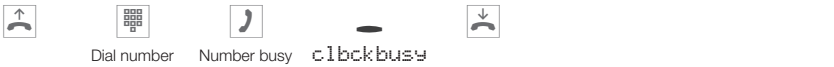
Expanded redialing



Automatic redialing

Deactivate automatic redialing

Call-back on busy



Selection of outgoing numbers (MSNs)

Activate call forwarding

Deactivate call forwarding

Station guarding

Dialing from caller list, telephone directory or short dialing memory

Guarantee Performance

1. Bintec Communication AG takes over a 12-month guarantee for this appliance in accordance with the following conditions, calculated from the date of purchase from the dealer, which must be documented by the original invoice or other documentation.

2. The guarantee claims are to be submitted through the specialist dealer from whom the appliance was purchased.

3. The guarantee includes the removal of all damage or defects of the appliance occurring within the guarantee period, which can be proven to stem from material or production faults. Any damage or defects arising from connection, which is not in accordance with the instructions, incorrect handling as well as non-observance of the instructions on programming and use as well as force majeure are excluded. The manufacturer is free to choose to replace the appliance with an appliance of equal value instead of carrying out a repair. Additional claims for compensation are not valid.

4. The guarantee does not cover those defects which only affect the value or usual use of the appliance insignificantly. Additional costs, such as e.g. for installation, journey time and travel, are expressly excluded.

5. This manufacturer's guarantee lapses if alterations have been made to the product or the product is operated in another country, for which it has neither been developed nor manufactured.

6. The fulfilment of guarantee requires that the appliance is sent in complete, packed so as to protect it from breakage or shocks (where possible in the original packaging) with proof of guarantee. The despatch takes place at the expense and risk of the client.

7. Should the inspection result in the fact that it is not a case of guarantee or that the product has no faults the repair and inspection costs shall be at the expense of the client.

CE 0188 X

This device meets the requirements stipulated by the EC guidelines:

98/13/EG	Telecommunication transmitting equipment
73/23/EWG	Low-voltage devices
89/336/EWG	Electromagnetic compatibility

The Bintec ISDN-telephone has therefore been given the CE mark.

BINTEC COMMUNICATIONS AG
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