

Cordless DT590

BusinessPhone Communication Platform

User Guide



EN/LZTBS 160 356 R1A
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Welcome

Welcome to the User Guide for the Cordless phone DT590 in the BusinessPhone Communication Platform from Ericsson. The BusinessPhone Communication Platform consists of BusinessPhone 50, BusinessPhone 128i and BusinessPhone 250.

The features described in this User Guide are related to version 5.1 or higher of the BusinessPhone Communication Platform. Some might not work in earlier versions of the system and/or might be protected by a license package that has to be bought separately.

The User Guide describes the facilities of the BusinessPhone Communication Platform and the Cordless phone DT590 with a default programming. There may be some differences in the way your phone is programmed. Please consult your system administrator if you need further information.

The latest version of this User Guide can also be downloaded from: <http://www.ericsson.com/enterprise/>

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Important

This section describes the information that is important to know before you use the DT590 phone and the functions described.

Note: *This User guide describes the supported BusinessPhone Communication Platform functions together with the most commonly used telephone specific functions. All telephone specific functions are listed in the menu structure, see section “[Menu structure](#)” on page 19.*

Before using the DT590 the first time you have to charge and connect the battery, see section “[Installation](#)” on page 114.

Treatment

Cordless phone

Only use the phone in temperatures between 0°C and +40°C.
Avoid exposing to direct sunlight or other heat sources.
Protect your phone from aggressive liquids and vapors.
Keep the phone away from electromagnetic fields.

Battery

Do not immerse the battery in water or throw into fire.
Use the desktop charger for charging. Charge the battery for at least one hour before using it for the first time.

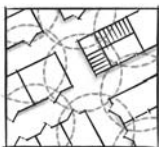
Earpiece

Warning: *The phone may retain small magnetic pieces around the earpiece region.*

Coverage Area

Your organization's premises are covered by a number of cells which form the coverage area. You can make and answer calls anywhere within this area, outside the area you will lose contact with the system.

Company coverage:



Network (submenu option)

The submenu option Network should only be used for administration purposes by Ericsson service staff. Using this menu option may cause a logout from the DECT/GAP network, and no further calls will be possible.

Note: *In case of a network unsubscription, the phone must be logged on again by a service technician.*

Switching On/Off

Switch on



Press and hold at least 3 seconds until the display lights up.

If the phone does not switch on or the battery icon starts flashing, the battery is low. Charge the battery.

Note: *If the signal strength icon is off and the message "No system" or "Searching" is displayed, you cannot make or answer calls.*

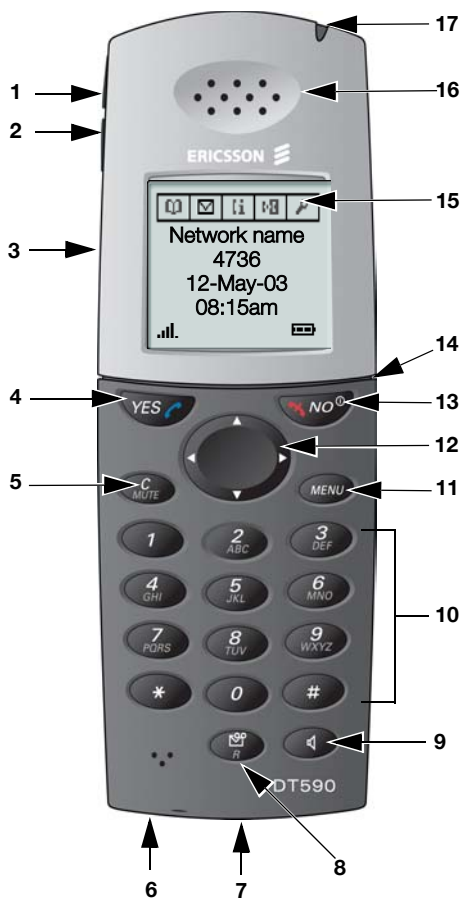
Switch off

Note: *During calls, you cannot switch off your phone.*



Press and hold at least 3 seconds until the display turns blank.

Description



- 1 Volume Up**
This button is used for increasing the earpiece volume and the loudspeaker volume in handsfree mode. See section “[Adjust earpiece volume](#)” on page 99 and section “[Adjust loudspeaker volume for handsfree speaking](#)” on page 99.
- 2 Volume Down**
This button is used for decreasing the earpiece volume and the loudspeaker volume in handsfree mode. See section “[Adjust earpiece volume](#)” on page 99 and section “[Adjust loudspeaker volume for handsfree speaking](#)” on page 99.
- 3 Loudspeaker**
The loudspeaker is placed on the rear side of the handset. See section “[Adjust loudspeaker volume for handsfree speaking](#)” on page 99.
- 4 Off hook / Yes**
This button is used for connecting calls, pressing briefly once in standby mode will open the call list. Always press this button to confirm choices when working in menu mode.
- 5 C (Clear) / Mute**
Pressing this button in standby mode will mute the ringer signal, pressing it during a call will mute the microphone.
- 6 Microphone**
Note that the microphone is placed on the bottom side of the handset, close to the charging connectors. (The three small holes to the left of the message key is a matter of design and has no functionality.)
- 7 Charger connectors**
See section “[Installation](#)” on page 114.
- 8 R / Message key**
With this key you put a call on hold (inquiry) and retake a call put on hold. Pressing this key in standby mode will result in an outgoing call to a specific extension number. If the “voice message” icon appears, you can enter your mailbox system to retrieve the voice message.
- 9 Handsfree key**
Press the handsfree key to turn on the loudspeaker. See sections “[Incoming Calls](#)” on page 28, “[Outgoing Calls](#)” on page 32 and “[During Calls](#)” on page 37.

10 Keypad

In standby and number input mode:

In standby mode, pressing the keypad briefly enters the digits **0** to **9** and the characters ***** and **#**. Pressing and holding the *****-key will add a pause represented by a “-”.

In text input mode:

When writing text messages and adding/editing names in the phonebook, pressing keys **0** to **9**, *****, or **#** displays the first available character on that specific key. The marked character is selected after a time-out or when another key is pressed. Pressing key **1** adds space between the characters and pressing the *****-key switches between upper and lower case. The first character entered in a message, or when adding/editing a name in the phonebook, will be an upper level character followed by lower level characters unless the *****-key is pressed before entering the character.

11 Menu key

Pressing the menu key in standby mode will open the “Phonebook” menu. During a call it will open the “3rd party” menu. If the key has been used to leave the menu mode, the last used menu will be opened.

12 Navigation key

Use this key to navigate in the menu and text modes. When the left navigation key is pressed in standby mode and during a call, the left-most menu tab is highlighted. When the right navigation key is pressed, the right-most menu tab is highlighted. Navigation key up and navigation key down is used for navigating up/down in the menu.

13 On/Off / On hook / No

This button is used for disconnecting calls and returning to the previous screen. Pressing the button for more than 3 seconds will switch the handset on/off.

14 Headset connector

The headset connector is used for connecting a headset and can also be used for connecting a data cable for downloading software and other data to the handset.

15 Display

The full graphic type display is 101 pixels wide and 80 pixels high with white backlighting that can be switched on/off or set to automatic. It is also possible to change the display contrast. See sections “[Display Backlight](#)” on page 106, “[Display Contrast](#)” on page 107.

16 Earpiece

Please note: *The phone may retain small magnetic pieces around the earpiece region.*

17 LED

Ringling, message waiting, battery low, exit cover area.

Case

The case is made of durable PC/ABS plastic.

Antenna

The antenna is integrated into the handset.

Clip

The clip on the back of the handset is used for fastening the handset to a belt or similar.

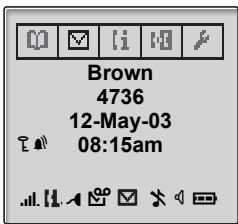
Battery

The battery is a rechargeable Li-Ion battery placed under a battery cover and connected to the handset in such a way that improper contact is not possible. By placing the handset in the charger, an empty battery can be charged within four hours.

Display Info

The display gives you visual feedback on all actions that you perform, and also textual warnings. In standby mode, the display normally shows the owner identity.

The DT590 display



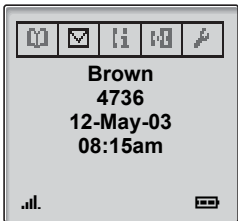
- Standby menu tabs
- User identity (name)
- User identity (number)
- Date
- Key lock, Alarm icon, and current time
- Info row (icons)

The following display examples show the different states of your phone:

Idle phone

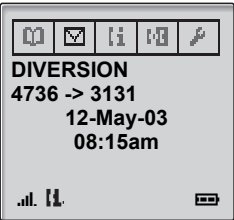
Depending on the status and settings of your phone, different information can be shown.

Normal



“Brown” is the programmed name in your network. The second row shows your extension number. The third and fourth row show the current date and time. The icons for key lock and alarm would appear on the fourth row. The fifth row (info row) shows icons for signal strength, messages, battery status, etc.

Fixed Diversion activated



Individual Diversion activated



The display shows your own extension number 4736 diverted to the desired diversion target.

Outgoing call

Normal outgoing call:

When you make an outgoing call, both the traffic state and the dialled number or name are displayed:



When the outgoing call is answered:



Duration time

Diverted call:

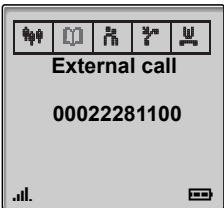
If the dialled number is diverted, the diversion information is shown. For example, the display shows the dialled number 3234 diverted to 4736.



Incoming call

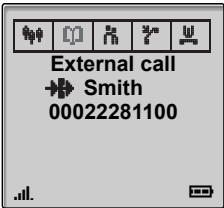
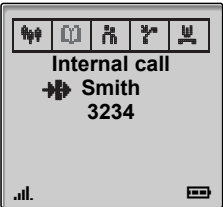
Normal incoming call:

If available, the number or the name of the caller is displayed.



Diverted call:

A diversion indicator before the number or name informs you that the call is diverted to your phone. For example, the display shows that the number of Mr. Smith was dialled, but the call was diverted to you:



System connection messages

No system

Out of coverage

The phone is not in contact with any system. Please ask your system administrator to log on the phone.

Note: *When reentering the coverage area, it can take a couple of minutes before the phone has automatically registered into the system.*

No access

Access indication

Your phone has contact with a system, calling is not allowed.

Menu tabs



Phonebook

The “Phonebook” menu contains all names/numbers in the personal phonebook.



Message

The “Message” menu contains all message handling such as listening, reading, writing, and sending messages.



Call info

The “Call info” menu contains call lists and call time.



Call service

The “Call service” menu contains absent handling and diversion of calls.



Toolbox

The “Toolbox” menu contains a calculator, alarm clock, and personal handset settings such as changing the ringer volume, selecting the language etc.



3rd party

The “3rd party” menu contains all functions for calls where a third (or more) party is involved.



Ongoing call

The “Ongoing call” menu contains shortcuts to the message menu and to the call list, and possibility to change to DTMF signalling mode etc.



User busy

In the “User busy” menu, camp-on on PBX internal calls can be initiated if the called person is busy, or callback when the called line is no longer busy.



Call waiting

In the “Call waiting” menu information of the caller (if available) can be found if camp on is initiated by another party. A call waiting can also be picked up on another line while maintaining the first connection.

Display icons



Signal strength

The Signal strength indicator is on when your phone is connected to the system. The bars indicate reception quality.



Alarm clock

The Alarm clock icon is visible when the alarm clock is set.



Ring signal muted

The Ring signal muted icon is on when the mute button is pressed and “Mute ringer?” is selected.



Battery

The battery icon is always shown in the display in standby mode. When the level is low it is time to charge the battery.



Low battery

The low battery icon is shown when the battery has 10% of its capacity left. The icon is flashing when the battery capacity is equal to or lower than 5%.



Handsfree speaking

The handsfree speaking icon is shown when the handsfree operation is activated.



Voice message

The voice message icon indicates that a new voice message has arrived. The icon remains in the display until all new messages in the inbox are heard.



Text message

The text message icon indicates that a new text message has arrived. The icon remains in the display until all new messages in the inbox are read.



Key lock

Keys are locked.



Headset

The headset icon indicates that a headset is connected to the phone.



Microphone muted

The microphone muted icon indicates a muted microphone.



Redirected call

The redirected call icon indicates that the incoming call is redirected from another phone.



Call info

The call info icon indicates that there are new missed calls in the call list. The icon remains in the display until the calls are checked and either answered or rejected.



Search phonebook

The search phonebook icon is visible when it is possible to press the navigation key up/down and search for a name/number in the phonebook.



Diversion indicator

When the diversion indicator is displayed before a name or number it indicates that the phone is diverted to another extension.



Answered call



Outgoing call



Missed call



Menu pointer

The menu pointers are visible when it is possible to press the navigation key up/down to access more options or information.



Radio button

The radio button icon is visible when you can select an option.



Radio button selected

The radio button selected icon indicates a selected option.



Ringer volume

The ringer volume icon shows the selected ringer volume.

Menu structure

The available phone-specific functions and network functions can be accessed via the DT590 menus.



Press to access the “on hook” menu when in standby mode or to access the “off hook” menu during a call (see below).

Menu structure

Options available when “on hook”

Phonebook

Call
Add contact
Edit contact
Delete contact
Open central*

Message

Voice
Inbox*
Send*

Call info

Missed calls
Call list
Call time

Call service

Absence
Divert

Toolbox

Alarm clock
Calculator
Sound & Alerts
Display
Network
Time & Date
Locks
Answering mode
Language
In charger mode**
Master reset



Move within a menu-



Make selection. Move to submenu.



Move to previous menu.



Move to idle display.



Access the menu.

Options available when “off hook”

3rd party***

Call 3rd party
Switch call
Transfer
Add to conf.
End new call

Phonebook

Call
Add contact
Edit contact
Delete contact
Open central*

Ongoing call

Message
Call list
Long DTMF****
Short DTMF****
Send pause

User busy***

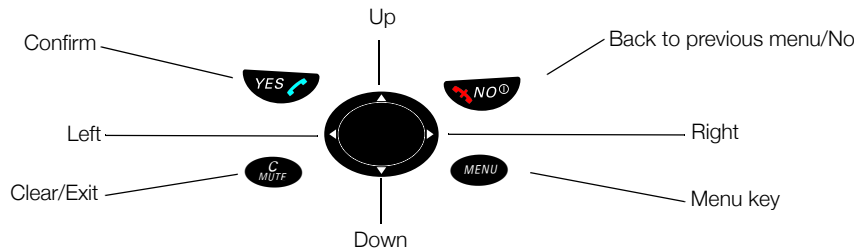
Camp on
Call back

Call waiting***


Info
Switch

Note: * Optional, only applicable in conjunction with the Integrated Messaging Server,
** Must not be activated, *** Depends on the programming of your cordless phone,
**** This feature is not supported.

Navigation keys




Phonebook tab




Phonebook	Call	
	Add contact	New
		From call list
	Edit contact	
	Delete contact	
	Open central*	Entries in the Central phonebook

Note: * Optional, only applicable in conjunction with the Integrated Messaging Server


Message tab




Message	 Voice	(Access to your voice mailbox)
	Inbox*	(The last 10 received messages)
	Send*	Unsent
		New
		Outbox

Note: * Optional, only applicable in conjunction with the Integrated Messaging Server


Call info tab

	Call info	Missed calls	(Missed calls in separate list)
		Call list	(The last 20 calls - dialled, incoming, missed)
		Call time	(Accumulated outgoing call time and for the last call)


Call service tab

	Call service	Absence	(You can specify the reason for your absence and when you will be present again)
		Divert	Select Manual Add Edit Remove End

Toolbox tab

		
Toolbox	Alarm clock (Set, Clear)	
Sound & Alerts	Calculator	Ringer volume (Voice, Mail, Alarm)
		Vibrator alert (On/On when silent/Off)
	Ring signals	Internal
		External
		Callback
	Alarm signal	
	Message alert	Mail
		Voice
	Key sound	Silent
		Click
		Tone
Display	Backlight (On/Off/Automatic)	Low 1
	Contrast	Low 2
	Popup info (Enable/Disable)**	Medium 1
		Medium 2
Network	Subscribe	High 1
	Select	High 2
	Priority	Mix 1
	Rename subscr.	Mix 2
	Unsubscribe	Melody 1 to 6
Time & Date	Time format	User 1 to 10
	Date format	
Locks	Key Lock (Automatic/Off)	None
	Phone lock (On/Off)	Click
Answering mode	Any key (On/Off)	Tone
	Auto answer (On/Off)	Low 1
Language (11)		Low 2
		Medium 1
In charger mode*	Redirect	Medium 2
	Off	High 1
Master reset	Settings only	High 2
	All	Mix 1
Note: * Must not be activated, ** This feature is not supported		


3rd party tab




3rd party*	Call 3rd Party Switch call Transfer Add to conf. End new call
-------------------	---

Note: * Depends on the programming of your cordless phone


Ongoing call tab



Ongoing call*	Message	 Voice Inbox Send
	Call list Long DTMF Short DTMF Send pause	

Note: * Depends on the programming of your cordless phone


User busy tab



User busy*	Camp on	(possibility to initiate “camp-on” on internal calls)
	Call back	(as soon as the called line is free, you will be notified and when you pick up the phone, the called party will be called again)

Note: * Depends on the programming of your cordless phone

Call waiting tab

	Call waiting*	Info	(not applicable)
		Switch	(to answer the call on another line)
	Note: * <i>Depends on the programming of your cordless phone</i>		

PIN Code and IPEI Code

PIN Code

Your phone is not provided with a preset PIN code. You should enter a personal PIN code to prevent misuse.

To change the PIN code

Route: *Menu » Toolbox » Locks » Phone lock » On*



Press.



Navigate to “Toolbox”.



Navigate to menu item “Locks” and press.



Select “Phone lock” and press.

The following options are available:
On/Off



Press to select the menu item “On”.



Press.

Old code:
New code(1):
New code(2):
is displayed.



When using the phone for the first time, enter the New code(2) and press.



For changing the code, enter the current code (Old code) and press.



Enter the four digits of the new code (New Code(1)) and press.



Enter the new code (New Code(2)) again and press.

Either the new code is accepted or “Wrong Code!” is displayed. If “Wrong Code!” is displayed, you have entered a number that does not match the current code.

Note the new code for future use.

***Note:** If you enter an incorrect new code three times in a row, your phone leaves this menu option. To continue the operation, you have to enter the correct PIN code when “Authenticate - Enter PIN Code” is displayed.*

In other situations, if you enter an incorrect code three times in a row, your phone is blocked and “Authenticate - Enter IPEI Code” is displayed. See section “[IPEI Code](#)” on page 27 to unblock your phone.

IPEI Code

The IPEI code is a unique code which has been assigned to your phone (International Portable part Equipment Identity).

If your phone is blocked because an incorrect PIN code has been entered three times, you can unblock it with the IPEI code.

The IPEI code of the cordless phone may be needed also to enable telephone network subscription.

Read out the IPEI code

*** # 0 6 #**

Dial.

A message box with "IPEI" is displayed followed by the IPEI number.

Note: Write down the IPEI code for future use. If you cannot retrieve the IPEI code, please contact your system administrator. Keep the IPEI code secret to prevent misuse of your phone.



Unlock the DT590

Enter the IPEI code and press.

The phone returns to the menu.

Your phone is switched off.

Incoming Calls

A ringing signal indicates an incoming internal or external call. You can also see who has called you in the Call list.

Answer Calls

The ringing type tells you whether the call is an internal, external or callback call and the display indicates the number of the incoming call.

If the number is stored in the Phonebook, the associated name is shown instead.



Press to answer.

If you do not answer the call, the number is stored as a missed call in the Call info/Missed calls and you are asked "Check Who Called?". See section "[Call Info](#)" on page 30.

Note: *Calls can be answered at any time, whether you are programming, keying in a number, etc.*

Handsfree



Press to answer the call in handsfree speaking mode.

You are connected to the caller via the loudspeaker and microphone.

Reject the call

If you do not want to take the call, when the phone rings:



Press to reject the call.

Internal calls are disconnected. External calls are diverted to the operator.

End the call



Press.

On another extension

You can answer a call to a phone in another room:



Call the ringing extension and press.

6

Press.

Note: This number may differ from country to country, see table ["Alternative programming for Automatic Callback, Camp-on, Intrusion"](#) on page 98.

Mute ringing sound temporarily

If the phone rings or a warning sounds at an inconvenient moment, you can temporarily suppress the sound:



Press to turn off the ringing for the moment.

The ring off icon appears.

All alert signals will silence for this specific call. But even with the sound off, you can still answer the call. The warning light keeps flashing. If you do not answer the call, the number is stored as a missed call in the Call info/Missed calls. To turn off the ringing sound permanently, see section ["Volume Control"](#) on page 99.

Change answering mode

The phone can be set to answer a call automatically or by pressing any key.

Note: The auto answer mode is only useful when a headset is connected.

Route: Menu » Toolbox » Answering mode



Press.



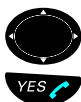
Navigate to "Toolbox".



Navigate to menu item “Answering mode” and press.

The following options are available:

- Answering mode
- Any key (press any key to answer the call)
- Auto answer (the call is automatically connected when the headset is in use)



Select “Any key” or “Auto answer”.

Select “On” or “Off”.

Press to save the setting.

Call Info

The Call info gives you information about missed calls, the call list and the call time.

Missed calls

The last 10 incoming and missed calls are stored in the Missed calls list.

The calls are marked with the following icon:



Missed call

Call list

The last 20 calls (10 dialled and 10 incoming/missed calls) are stored in the Call list.

The different call types in the Call list are marked with the following icons:



Incoming call



Outgoing call



Missed call

When there are new unanswered calls, the call info icon is displayed and the display shows: “Check Who Called?”.



Press if you do not want to return a call.

To return an unanswered call



Press briefly.

The Missed calls list with the dialling numbers or, if available, with the names from the phonebook appears.



Scroll until you have the correct number or name.



Press to dial the selected number.

Tip: If you press the C/Mute key instead of the Yes key, you can remove the number from the list.

To return any call

The last 20 calls (10 dialled and 10 incoming/missed calls) are stored in the Call list. You can access the Call list via the Call info menu.

Route: Menu » Call info » Call list



Press.



Navigate to “Call info”.



Navigate to menu item “Call list” and press.

The Call list is displayed.



Scroll until you have the correct number or name.



Press to dial the selected number.

You can permanently store the numbers from your Call list in your Phonebook. See section “[Add Numbers from the Call List](#)” on page 94.

Outgoing Calls

Sometimes you make a call but the person is not available. These functions will help you in your attempts to establish contact with the called party.

You can also make a call via the Phonebook, see section ["Phonebook"](#) on page 88.

Make Calls

How to make internal and external calls.



Enter the number.
The number is displayed.

Press when the number is correct.
Your phone will go off hook and dial the number. The name of the called party is displayed if connecting line information is available.

- Notes:**
- Correct a wrong entry by pressing the C/Mute key.*
 - If you decide not to make the call while keying in the number, press the NO key to stop.*
 - If you receive a call while keying in the number, simply press the Yes key to answer.*
 - You can make your calls faster by using abbreviated numbers or dial-by-name. See section ["Abbreviated Numbers"](#) on page 66.*

Handsfree



While you are waiting for a connection, dial tone or during the call:

Press to switch the call to handsfree speaking mode.

You are connected to the caller via the loudspeaker and microphone.

To end calls



Press to end the call.

The duration of the call is displayed.

Last External Number Redial

When you initiate an external call, the system automatically stores all dialed digits, irrespective of whether the call was successful or not.



Press to redial the last dialed external number.

The display will show the dialed number.

Redial number from Call list

The last 20 dialed, received, and missed numbers are stored in the Call list. If a number occurs more than once, the last time stamp is shown. You can dial one of these numbers by selecting the number from the Call list.



Press.

The Call list appears.



Scroll until you have the correct number or name.



Press to dial the selected number.

Tip: If you press the C/Mute key instead of the Yes key, you can remove the number from the list.

You can also access the Call list via the Call info menu.

Route: *Menu » Call info » Call list*

You can permanently store the numbers from your Call list in your Phonebook. See section “[Add Numbers from the Call List](#)” on page 94.

For more information about the Call list, see section “[Call Info](#)” on page 30.

Automatic Callback

You call an extension and receive busy tone or get no answer. This can also be used if no external line is free:

5

Press.

Verification tone.

Note: *The number for automatic callback may differ from country to country, see table “[Alternative programming for Automatic Callback, Camp-on, Intrusion](#)” on page 98.*



Press.

You are called back if the extension finishes the ongoing call or the next time the extension finishes a new call. You have to answer within eight seconds; otherwise the Callback service is cancelled.

Note: *This function is also accessible using the off hook menu “[Call back](#)”, see section “[User busy tab](#)” on page 23.*

Busy Extension

You call an extension and receive busy tone.

Camp-on

You can notify a busy extension of your call by a muted ringing call (if this function is allowed).

4

Press to camp-on.

Stay off hook. When the called extension replaces the handset, it will be called automatically.

Note: *If you receive the busy tone again, the desired extension does not allow Camp-on.*

The number for busy extension may differ from country to country, see table “[Alternative programming for Automatic Callback, Camp-on, Intrusion](#)” on page 98.

This function is also accessible using the off hook menu “Camp on”, see section “[User busy tab](#)” on page 23.

Intrusion

You can intrude on an ongoing call on a busy extension (if this function is allowed).

8

Press to intrude.

Intrusion tone is heard and a three-party call is established. When the called extension replaces the handset and you keep off hook, the called extension will be recalled automatically.

Note: *If you still hear the busy tone, then your extension does not have the authority to intrude or the desired extension is protected against Intrusion.*

The number for intrusion may differ from country to country, see table “[Alternative programming for Automatic Callback, Camp-on, Intrusion](#)” on page 98.

Call Statistics

Your phone can tell you the duration of your last call and display the total time of all calls.

To see the time spent on your last call and on all outgoing calls

Route: *Menu » Call info » Call time*



Press.



Navigate to “Call info”.

The following options are available:

- Missed calls
- Call list
- Call time



Navigate to menu item “Call time” and press.

The length of the last call but also the duration of all calls is displayed in hours, minutes and seconds.



or



Press to leave this menu.

To see the call time

Route: *Menu » Call info » Call time*



Press.



Navigate to “Call info”.

The following options are available:

- Missed calls
- Call list
- Call time



Navigate to menu item “Call time” and press.



Press to delete the call time.



Press to confirm.

During Calls

The BusinessPhone Communication Platform allows you to handle calls in many different ways. You can make an inquiry, transfer the call or create a conference, mute the microphone and ringer, change the dial mode or put the call on hold to perform other tasks.

Inquiry

During an ongoing conversation you want to make an inquiry to an internal or external party.



Press to put the current call on hold.

You hear the dial tone and R is displayed.

Call the third party.

When the third party answers, you can switch between the calls, create a conference and end one of the calls.

Refer back

You can switch between the connected parties.



Press to switch between the calls.

Press to terminate.

The ongoing call is terminated. The other call is connected.

Note: This function is also accessible using the off hook menu “3rd party”, see section “3rd party tab” on page 23.

Transfer

You have an ongoing internal or external conversation and you want to transfer an ongoing call.



Press to put the current call on hold.

You hear the dial tone and R is displayed.

Call the third party.

When the third party answers, you can switch between the calls, create a conference and end one of the calls.

Note: Make sure that you are connected to the desired party. Please read the notes and warnings in section “[Useful Hints](#)” on page 113.



Press to transfer the call.

or



1

Press to return to the first call.

Note: This function is also accessible using the off hook menu “3rd party”, see section “[3rd party tab](#)” on page 23.

Transfer to a busy extension

You can even transfer calls to busy extensions. The other party will hear a muted signal (call waiting tone), and the call will be extended as soon as the ongoing call is terminated (if Camp-on is allowed).

Callback

You are called back if you have transferred an external call and the other extension has not answered the call within a certain time. Your phone will ring again.

Conference

You have an ongoing conversation and you want to establish a telephone conference.



Press.

Dial tone.

Call the third party.



3

Press to establish a three party conference.

Now you have established a three party conference. To indicate the conference, all conference members will hear a periodical conference tone.

Repeat the procedure to include other persons in the conference.

In this way, you can include up to six parties in a conversation. How many of them can be external callers depends on the programming of the system.



Press to leave the conference.

Note: This function is also accessible using the off hook menu "3rd party", see section "[3rd party tab](#)" on page 23.

Handsfree Speaking

You can switch to handsfree speaking (and back to standard speaking procedure) at any time during a call.



Press to switch handsfree speaking on or off.

During handsfree speaking, you are connected to the caller via the loudspeaker and microphone.

Send a dial tone pause

Route: *Menu » Ongoing call » Send pause*



Press.



Navigate to “Ongoing call”.

The following options are available:

- Message
- Call list
- Long DTMF
- Short DTMF
- Send pause



Navigate to menu item “Send pause” and press to confirm.

The phone now sends a pause. The pause is displayed as “-”.

Mute Microphone

To mute the microphone, during an ongoing conversation:



Press.

The caller will not hear the conversation in your room. A signal and the microphone muted icon indicate that the microphone is off.



Press again to turn the microphone on.

Note: *It is recommended to use this feature instead of putting a call on hold. A call on hold may be diverted to your operator, directly or after some time.*

Call Waiting

If you hear the Call Waiting tone during an ongoing conversation, another person is trying to contact you.

To terminate the ongoing call and answer the waiting call



Press to finish the ongoing call.

The waiting call is signalled on your phone.



Press to answer the new call.

***Note:** The Call Waiting function might be blocked for use on your extension (programmed by the system administrator).*

Send a Message during a Call

You can send a callback or a voice message when you call an extension and receive busy tone or get no answer.

Callback message

To send a Call me message.

9 #

Dial to send.

Voice message

To send a voice message.

9 9

Dial and speak.

Press to play-back and listen to your recording.

9

Press and speak to re-record.

#

Press to send.



Press to finish the procedure.

Call Forwarding

When you are not available to take calls or decide to answer your calls on another extension, it is useful to forward your calls to an alternate diversion address.

If you urgently need to talk to someone who has forwarded his calls, the system is also equipped with a bypass function.

Depending on the type of diversion, you are also able to record your personal greeting, see section “[Personal Greeting](#)” on page 59.

Note: *You can still make calls as usual.*

Diversion when there is no answer

If you are not available to answer incoming calls (internal or external), your system administrator can program your extension to automatically divert calls to a programmed diversion address (default time: 15 seconds).

Diversion when caller receives busy tone

If your extension is busy and you receive an incoming call (internal or external), your system administrator can program your extension to automatically divert the call to a programmed diversion address.

Activate Internal/External Diversion

This feature allows you to divert your calls to internal and external positions, e.g. to any directory number, a colleague's extension, an external number or a common abbreviated number (e.g. your car phone).

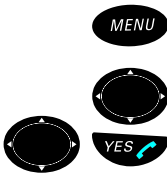
This function also directs your calls to a pre-programmed diversion address (e.g. secretary).

Note: *This feature is subscription specific. For further information, please contact your system administrator.*

Use a predefined diversion address

Route: *Menu » Call service » Divert*

Press.

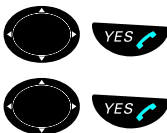


Navigate to “Call service”.

Navigate to menu item “Divert” and press.

The following options are available:

- Select
- Manual
- Add
- Edit
- Remove
- End



Navigate to menu item “Select” and press.

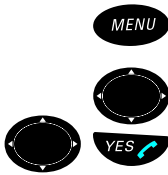
If available, the predefined diversion addresses are displayed.

Select the desired position and press to confirm.

Wait for the verification tone.

Press to finish the procedure.





Set the diversion address manually

Press.

Navigate to “Call service”.

Navigate to menu item “Divert” and press.

The following options are available:

- Select
- Manual
- Add
- Edit
- Remove
- End



Navigate to menu item “Manual” and press.



Press the navigation keys to change from the “Internal” to the “External” position and press to confirm.



Press.



Enter the number for the diversion address.

You can dial the number, select a number from the phonebook, or use the call list.



Press to confirm.

Wait for the verification tone.



Press to finish the procedure.

or

There is also an alternative procedure via the function code:

Internal diversion:

***21#**

Dial.



Enter the diversion address.



Press to confirm.



Wait for the verification tone.

Press to finish the procedure.

External diversion:

***22#**

Dial.



Enter the digits for external line access and enter the new external diversion address.



Press to confirm.

Wait for the verification tone.



Press to finish the procedure.

Cancel diversion

Route: Menu » Call service » Divert



Press.



Navigate to “Call service”.



Navigate to menu item “Divert” and press.

The following options are available:

- Select
- Manual
- Add
- Edit
- Remove
- End



Navigate to menu item “End” and press.

- Last
- Select*

is displayed.

* This option is not applicable.



Select “Last” and press to confirm.

Wait for the verification tone.



Press to finish the procedure.

or

There is also an alternative procedure via the function code:

Internal diversion:

2 1

Dial.



Press to confirm.

Wait for the verification tone.



Press to finish the procedure.

External diversion:

2 2

Dial.



Press to confirm.

Wait for the verification tone.



Press to finish the procedure.

Add a new predefined diversion address to the list

Route: *Menu » Call service » Divert*



Press.



Navigate to “Call service”.



Navigate to menu item “Divert” and press.

The following options are available:

- Select
- Manual
- Add
- Edit
- Remove
- End



Navigate to menu item “Add” and press.



Press the navigation keys to change from the “Internal” to the “External” position and press to confirm.



Press.



Enter the name for the diversion address (e.g. Mailbox) and press.



Enter the number for the diversion address (e.g. the number of your Mailbox).

You can dial the number, select a number from the phonebook, or use the call list.



Press to confirm.



Press to finish the procedure.

Edit a predefined diversion address

Route: *Menu » Call service » Divert*

Press.



Navigate to “Call service”.



Navigate to menu item “Divert” and press.

The following options are available:

- Select
- Manual
- Add
- Edit
- Remove
- End



Navigate to menu item “Edit” and press.



Go to the desired diversion address and press.



Edit the diversion address.



Press to save the changes.

Delete a predefined diversion address

Route: *Menu » Call service » Divert*

Press.



Navigate to “Call service”.



Navigate to menu item “Divert” and press.

The following options are available:

- Select
- Manual
- Add
- Edit
- Remove
- End



Navigate to menu item “Remove” and press.



Go to the desired diversion address and press.

“Remove ... ?” is displayed.



Press to confirm.

The selected name and number are deleted.

Bypass Call Forwarding

Bypass Call Forwarding makes it possible to call a specific extension, even if Call Forwarding is activated on this extension.

60



Dial.

Enter extension number.



Press and wait for answer.

You will be connected to the specified extension, regardless of which type of Call Forwarding the called extension has activated.

Redirect Calls and Messages when placed in Charger

The function “In charger mode” is not activated.

Note: *This option is not applicable and must not be activated.*

Absence Information

If you are not in the office for a certain period of time (e.g. meeting, vacation, lunch, illness), this feature allows you to inform your callers why you are absent. External callers will be routed to the operator who also has access to your absence info.

Note: *When you have activated a diversion with a Personal Greeting, callers will receive this greeting instead of your activated absence information.*

You can inform your callers with:

1 Pre-defined texts

Enter the reason for your absence and the date and time of your return.

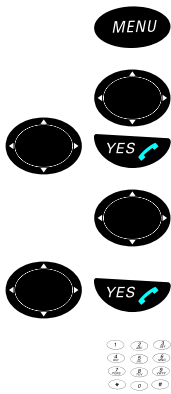
2 Voice information

Record a voice message and name the reason of your absence.

Enter Information

Pre-defined texts

Route: Menu » Call service » Absence



Press.

Navigate to “Call service”.

Navigate to menu item “Absence” and press.

Select “Activate”.

The reasons for your absence are displayed.

Select the reason for your absence and press.

Enter the time or time/date of your return.

Note: Use the navigation keys to switch between am and pm.

	Completing info
Lunch	back at, hour (00-23) minute (00-59)
Meeting	back at, hour minute
Trip	back on, day (01-31) month (01-12)
Vacation	back on, day month
Absent	back at, hour minute
Illness	back on, day month



Press to confirm.

Information active.

Internal callers receive the information on the display (or as spoken information to callers without display phone). External callers will be routed to the operator who also has access to your absence info.

Cancel

Route: *Menu » Call service » Absence*



Press.



Navigate to “Call service”.



Navigate to menu item “Absence” and press.



Select “Deactivate”.



Press to confirm.

Voice information

23



Dial and press.

Wait for the verification tone.

9

Press and speak.

Press to play-back and listen to your recording.

9

Press and speak to re-record.

#



Press to activate.

Internal callers will hear the information via the handset or the loudspeaker. External callers will be routed to the operator who also has access to your absence info.

Note: *You can dial your own extension number if you want to check your information.*

Erase Information, Save Information

2 3 # 


Dial and press to erase info.

Wait for the verification tone.



Press to finish the procedure.

or

* 2 3 * # 

Dial and press to deactivate and save for later use.
Information is passive.


Wait for the verification tone.



Press to finish the procedure.

Use saved information

When the information is switched off:

* 2 3 * # 

Dial and press to activate saved info.
Information is active.

Wait for the verification tone.



Press to finish the procedure.

Mailbox System

While you are away from the office, callers can leave messages in your mailbox. You are also able to record your personal greeting, see section [“Personal Greeting”](#) on page 59.

The first time you enter the mailbox system (only possible from own extension), you might be requested to change your password if it is default (0000). See section [“Mailbox System”](#) on page 55 or follow the voice announcements.

The mailbox system is a part of the message system.

Activate the Mailbox

Divert your extension to the mailbox system.

Note: You can activate your mailbox as described in [“Add a new predefined diversion address to the list”](#) on page 47.

or

*** 2 1 ***



Dial.

Dial the number to the mailbox system.

Ask the system administrator for your defined mailbox system number.



Press.

Wait for the verification tone.



Press to finish the procedure.

Deactivate the Mailbox

Note: You can deactivate your mailbox as described in *"Cancel diversion"* on page 45.

or

2 1 # 

Dial and press.

Wait for the verification tone.



Press to finish the procedure.

Retrieve Voice Messages - Externally

To retrieve your messages from an external position:



Dial your company's telephone number.



Dial the number to the mailbox system.

During the procedure you will be asked for your extension number and your password.

The following mailbox functions can also be used from an external position:

- Check and Store Received Messages
- Forward a Voice Message
- Personal Greeting
- Send Message
- Outcall (External) Notification
- Change Password

Check and Store Received Messages

A received message is indicated with a message icon (envelope) in the display (a special dial tone is also used to indicate a waiting message). In addition, you can see the number of queued messages in the display.

Received messages are divided into the following three categories:

- New messages (not heard)
- Heard messages
- Stored messages

Voice messages can also be forwarded to other mailbox numbers (individual or common), see section “[Forward a Voice Message](#)” on page 58.

Note: Messages are deleted from the system after a certain time. The time depends on which category the message belongs to. Please ask your system administrator regarding this.



Press to enter the message system.

or




Press.



Navigate to “Message”.

The following options are available:

-  Voice
- Inbox
- Send



Press to select the menu item “ Voice”.

or

*** 5 9 #**



Dial and press.

You can check and store your received messages. Voice messages will be heard. “Call me” messages will call the sender automatically (these messages cannot be stored).

Note: Depending on the configuration, you might be asked for your password before you can retrieve your messages. See section “[Security](#)” on page 83.



Press to finish the procedure.

Forward a Voice Message

Your received voice messages (in the individual mailbox) can be forwarded to other mailbox numbers (individual or common). When you forward a voice message to an individual mailbox, the mailbox number is the same as the extension number. See also section [“Mailbox System”](#) on page 55.



Press.

or



***59#**

Dial and press.

Note: Depending on the configuration, you might be asked for your password before you can retrieve your messages. See section [“Security”](#) on page 83.

Follow the voice announcements.

You can forward new, heard or stored voice messages.

Note: The forwarded message is a copy, i.e. it can be deleted without deleting the original message.

Repeat the procedure to forward the message to another mailbox.



Press to finish the procedure.

Personal Greeting

Depending on the type of diversion you want to activate, you can leave three different personal greetings to the caller. You can activate a diversion when a caller receives busy tone, when there is no answer, or you can activate the Individual Diversion for all your calls.



Press.

or



Dial and press.

During the procedure you will be asked for your extension number and your password.

2

Press to configure your Personal Greeting.



Enter diversion code.

Select an option below and follow the voice announcements.

Type of diversion	Code
Diversion greeting on busy	1
Diversion greeting on no reply	2
Individual diversion greeting	3

#

Press to store the recorded greeting.

When you activate the diversion, the recorded greeting is played to the next caller.



Press to finish the procedure.

Note: When you have activated a diversion with a Personal Greeting, callers will receive this greeting instead of your activated absence information.

Send Messages

With this function the mailbox system allows you to record and send messages from your mailbox to any other internal mailbox without calling the respective mailbox owner. A recorded message can either be sent to one or to multiple mailboxes.

Note: *There are no distribution list numbers available. Sending the same message to more than one mailbox must be done in single operations.*



*59#

3

Programming

Press.

or

Dial and press.

Press to record and send messages.

Follow the voice announcements.

Messages can be heard or re-recorded before they are sent to a mailbox.

Outcall (External) Notification

With this function the message system can notify you when new voice messages arrive. You can specify an external number, where you will be called at a pre-programmed time or as soon as a new message arrives.

Note: *This feature may be restricted or not available. Ask the system administrator for the availability and more information.*

You can be notified in two different ways (depending on the programming of the system):

Notification with mailbox access:

You acknowledge the notification via your password (has to differ from the default value 0000). See section “[Change Password](#)” on page 85 to select a new password. You have full access to the mailbox system.

Notification without mailbox access:

You get a short voice announcement, informing you that someone has left a message for you. You acknowledge the notification by pressing any key. You have to call back the mailbox system to retrieve the message.

Note: *If you do not acknowledge the notification within the pre-programmed time, the connection is cancelled and repeated later (ask the system administrator for the programmed number of notification attempts).*

Programming



Press.

or



*** 5 9 #**

Dial and press.

Notes: *Depending on the configuration, you might be asked for your password. See section “[Security](#)” on page 83.*

Follow the voice announcements.

You can program the external notification number, the notification time and activate/deactivate the function. The external number (including the digit(s) for external call access) can consist of up to 24 digits. The time is entered in 24h-format, e.g. 2030 for half past eight with values automatically set to even quarters, i.e. 2013 will be 2015.

Note: *The notification number and time must be programmed before you activate the notification.*



Press to finish the procedure.

Change Password

If the password protection is activated for your extension you can also change your password from your mailbox. You will be asked to enter the current password followed by the request to enter the new password twice.



Programming

Press.

or

***59#**



Dial and press.

5

Press to change the password.

Follow the voice announcements.

Dictaphone Function

If you want to record and retrieve personal voice messages (memos), you can use the Dictaphone function. A dictaphone message is treated as a normal message. For information on how to retrieve dictaphone messages, see section “[Check and Store Received Messages](#)” on page 57.

Record message

To start recording:

✱ 5 8 # 

Dial and press.

Wait for the verification tone.

“RECORDING” is displayed.

Record your message.

The maximum recording time is four minutes and 15 seconds.

Select one of the options below:

✱

Press to play-back.

9

Press and speak to re-record.



Press to stop the recording and save the message.

Text Messages (optional)

You can send and receive messages, also known as SMS (Short Message Service), to and from other phones in your system.

Note: *Text messages can only be received and sent if the Ericsson Integrated Messaging Server is installed in your system. Please contact your system administrator.*

Receive text messages (SMS)

When a text message is received, the LED starts flashing and a message tone sounds.

If the message is received during a call, a beep notifies the user.

The message is stored in the message list. The “New message” icon is shown in the display. The icon will remain in the display until all new messages are opened.

Route: *Menu » Message » Inbox*




Press.



Navigate to “Message”.

The following options are available:

-  Voice
- Inbox
- Send



Navigate to the menu item “Inbox” and press.

The message list is displayed.



Scroll to find the message.

The selected message is highlighted.



Press to read the message.

The message text is displayed followed by “Proceed?”.



Press to delete the message.

or



Press to proceed to the next menu.

This menu gives you additional options, such as Remove or Forward the message, to Call (Numbers in the text) or to Read next message.

Send text messages (SMS)

Route: *Menu » Message » Send*




Press.



Navigate to “Message”.

The following options are available:

-  Voice
- Inbox
- Send



Navigate to the menu item “Send” and press.

The following options are available:

- Unsent
- New
- Outbox



Select “New” and press.



Write the message and press.

For information on how to write text, see section [“Write Text”](#) on page 95.



Dial the phone number.

Note: *You can also use the phonebook.*



Press to send the message.

Abbreviated Numbers

By using abbreviated numbers, you can make calls simply by pressing a few keys. Frequently used external numbers are stored as common abbreviated numbers in the exchange.

Up to 10 individual abbreviated numbers (your personal most frequently used external numbers) can be stored and used on the digit keys 0 to 9.

Common Abbreviated Numbers

External numbers are stored centrally in your BusinessPhone Communication Platform. Common abbreviated numbers can be dialled from every extension that has the authority to do so.



Dial the common abbreviated number.

Please refer to your telephone directory.

Press to make the call.

Individual Abbreviated Numbers

You can program and activate your most frequently used external numbers on the digit keys 0 to 9.

✱✱

Dial.



Dial the abbreviated number.

A number between 0 and 9.



Press to make the call.

Program individual abbreviated number

How to program external numbers on the digit keys 0 to 9.

✱51✱

Dial to enter programming mode.



Select an abbreviated number between 0 and 9 and press.

0



Dial the digit(s) for external call access and dial the number.

The number can consist of up to 24 digits.

Note: If your public network requires waiting for a second dial tone, press ✱.




Press.


Wait for the verification tone.



Press to finish the procedure.

5 1 *

 **#**




Dial.

Enter an abbreviated number between 0 and 9 and press.

Press.


Wait for the verification tone.




Press to finish the procedure.

Cancel one specific individual abbreviated number

5 1


 **#**



Dial.

Press.

Wait for the verification tone.



Press to finish the procedure.

Cancel all individual abbreviated numbers


Dial-by-Name


You can call someone by pressing the first character(s) of a name and then scroll through the name list to search for the name and number.

Example:

Call *Jim* (ext. no. 123):

5

 **5**



Press and hold until the display shows the first name beginning with J.

Scroll down the name list until you find *Jim*.

Confirm and Jim's number will be dialled.

Group Features

When you are working together in a team, the following group features can be very useful.

Group Hunting

Your phone can be included in one or several hunt groups. In a hunt group, all members are represented with one common directory number. 16 hunt groups can be programmed, each containing 1 to 20 members. A member can be either an extension number, an operator console or a fictive number. Please ask your system administrator if you require this function.

Note: *The number of cordless extensions in a hunt group is limited to eight (including tandem configurations).*

Incoming calls to the hunt group are directed to free extensions in the group. The hunt order within the group can be changed to suit your needs. If all members of the hunt group are busy, an incoming call is being queued. If no one answers this call before the programmed time, the call is forwarded to the programmed diversion address (e.g. operator).

Note: *If all members in a hunt group are busy, the Callback or Intrusion functions are not available.*

Log in

Before you can answer group hunting calls, you must log in.
To log in to one hunt group:

28



Dial.

Dial the hunt group code.

Please ask your system administrator for the configured number.



Press.

Wait for the verification tone.



Press to finish the procedure.

To log in to all hunt groups:

***28**#**



Dial.

Press.

Wait for the verification tone.



Press to finish the procedure.

Answer calls

It is possible to have group hunting information in the display. If you require a different display layout, please contact your system administrator.

Answer group hunting calls in the normal way.

Log out

To log out from one hunt group:

2 8 *



Dial.

Dial the hunt group code.

Please ask your system administrator for the configured number.



Press.

Wait for the verification tone.



Press to finish the procedure.

Note: If you are logged in to more than one hunt group and log out from one of them, the display will show the following text:
PBX Group(s) logged out.

To log out from all hunt groups:

2 8 * *



Dial.

Press.

Wait for the verification tone.



Press to finish the procedure.

Group Call-Pick-up

In a Pick-up group, any member can answer any individual call to group members. You answer a call to the group by dialling a special answering number. Please ask your system administrator for the configured number.



Dial the group call pick-up code and press.

Common Bell

The Common Bell feature allows all extensions of the system (operator included) to pick-up the call from an extension that has been predefined as a common bell extension.



Dial the Common Bell pick-up code and press.

Please ask your system administrator for the Common Bell pick-up code.

If two or more extensions simultaneously attempt to answer a call from the Common Bell extension, only the first extension will pick it up. The other extensions will receive the *number unobtainable tone*. This will also happen if you dial the Common Bell pick-up code and there are no calls waiting at the Common Bell extension.

Other Useful Features

By using these features, your productivity will be increased, e.g. you can set reminders for important meetings, place the costs for external calls on separate accounts and much more ...

Alarm Clock

The phone can be set to remind you at any time within the next 24 hours.

Route: *Menu » Toolbox » Alarm clock*



Press.



Navigate to “Toolbox”.



Navigate to menu item “Alarm clock” and press.

The following options are available:

- Set
- Clear



Press to select “Set”.



Enter the time the alarm is to be started.

(HH:MM)



Press the navigation key right to switch between am and pm.

Note: *When your phone displays the time in 24h-format, you do not have to switch between am and pm.*



Press to confirm.

The alarm clock is now set and the alarm clock icon in the display indicates that the alarm clock is activated.

"Alarm clock HH:MM" is displayed and the red LED flashes when the alarm sounds.



Press.

"Cancel alarm?" is displayed.



Press to remove the alarm clock setting.

Note: *If you do not answer the alarm clock, the alarm clock icon in the display keeps flashing and the alarm will sound again after some minutes.*

Cancel Alarm clock

Route: *Menu » Toolbox » Alarm clock*



Press.



Navigate to "Toolbox".



Navigate to menu item "Alarm clock" and press.

The following options are available:

- Set
- Clear



Select "Clear" and press to confirm.

The alarm clock icon disappears.

Automated Attendant

The Automated Attendant feature sends voice instructions to external and internal callers, informing them of all possible options they can choose. Voice instructions lead the callers step by step to the desired destination.



Dial the Automated Attendant directory number.

Please ask your system administrator for the automated attendant directory number.

Press and follow the voice instructions.

Doorphone

The Doorphone is used to monitor the admission to your company, i.e. you can open the doorlock from your phone.

Answering doorphone calls



Press.

You will be in speech connection with the calling party.

Opening of the doorlock

After you have answered the doorphone, you can open the door by making an inquiry to the door-opener's directory number.



Press.



Dial the door-opener's directory number.

Please ask your system administrator for the number.

Account Number

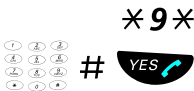
An account number can be entered to debit telephone costs to different accounts. Depending on the system configuration, the account number has to be entered from a verified account number list (predefined) or you can invent your own account number. The following prerequisites apply:

- With the Verified Account Number you can restrict the making of external calls (not a specific number or area), so everyone who is allowed to make external calls will receive an account number which has to be used each time he/she wants to make an external call.
- Verified account numbers contain up to 10 digits.
- Own account numbers contain up to 15 digits.

The account numbers can also be used via the DISA function, see section "[Direct Inward System Access \(DISA\)](#)" on page 77.

Verified or own account number

Before an outgoing call:



Dial.

Enter account number and press.

Valid digits 0-9. Internal dial tone. Make the external call.

Direct Inward System Access (DISA)

If you are working externally and you have the need to make business calls, call your company and use the company PBX to make an external call to the desired party. You just pay the costs for the phone call to your company. The other costs will automatically be placed on your extension number or on a special project.

Note: To activate this function, you have to change the default password from 0000 to a personal one. Which code to use and how to change it, see section [“Change Password”](#) on page 85.

You can also divert calls from your office extension to your external position, see section [“Call Forwarding”](#) on page 42. During the procedure you will be prompted for your password.



Dial the public number of your company,



followed by the DISA number.

Ask the system administrator for the defined DISA number.

Note: If want to register the call on an account number, you should use the Account Number procedure before you enter the external number, see section [“Account Number”](#) on page 76.



Follow the voice announcements.

Dial the external number.

or

Use the External Diversion function.

Procedure, see section [“Call Forwarding”](#) on page 42.

Note: If you program a new diversion address, remember to reset it when you return to your office.

Tandem Configuration

The tandem configuration is a unit, consisting of two phones using the same directory number. One of the phones is defined as the *primary* and the other one as the *secondary*.

This function enhances the communication for users that, for example, have a wired phone on their desk (the *primary* phone) and need to be mobile within their company's building with their own Cordless phone (the *secondary* phone). Basically, the tandem configuration works as follows:

To activate the Tandem Configuration

*28#



Dial and press to log on the secondary phone.

Wait for the verification tone.



Press to finish the procedure.

For incoming calls:

- Both phones are treated as 1 single extension.

For outgoing calls:

- Both phones are treated as 2 separate extensions.

To deactivate the Tandem Configuration

#28#



Dial and press to log off the secondary phone.

Wait for the verification tone.



Press to finish the procedure.

For incoming calls:

- The *secondary* phone cannot be called and the *primary* phone works as a normal *stand-alone* phone.

For outgoing calls:

- Both phones are treated as 2 separate extensions.



Transferring a call between members of a tandem unit

Press and dial own directory number.



Press to transfer the call.

Networking

Networking is the connection of several premises within a company. The connection can be set up via leased lines, public lines, Local Area Network (LAN) or Wide Area Network (WAN). Ask your system administrator about details regarding networking.

IP Calls

IP calls are internal calls sent via an internal data network (LAN or WAN) and the transfer of data and voice is made on the same line. If you are connected to an internal data network, the IP connection is made automatically. To minimize the traffic on the network, the speech quality is decreased.

If the speech quality is not acceptable, you can disconnect the IP call and switch to a non-IP call (alternative network). The switch from the IP net to the non-IP net is made during the call, so the call does not have to be disconnected.



If you want to switch to a non-IP net during the call:

Press.

✱ 6 1 ✱

Dial.

During the procedure the other party is put on hold. When the procedure is ready, you will receive a special ringing tone and the call is resumed in the non-IP net.

Note: A switch to a non-IP call can only be performed if the original call is an IP call, otherwise you will receive a blocking tone.

Calculator

The DT590 has a calculator that supports general arithmetic functions such as addition, subtraction, multiplication, and division.

Route: *Menu » Toolbox » Calculator*



Press.



Navigate to “Toolbox”.



Navigate to menu item “Calculator” and press.



Enter digits.

#

Enter for addition.

or

#

Enter for subtraction.

or

#

Enter for multiplication.

or

#

Enter for division.



Enter digits.



Press to get the results.

Key Lock

If you carry the phone in your pocket, you might accidentally press the keys and make a call. To prevent this, you can have them locked by using the Automatic Key lock option.

To lock the keypad

Route: Menu » Toolbox » Locks » Key lock



Press.



Navigate to “Toolbox”.



Navigate to menu item “Locks” and press.



Press to select “Key lock”.

The following options are available:

- Automatic
- Off

The current setting is indicated.



Select “Automatic”.



Press to confirm.

Note: After enabling the Keylock function, do not press a key for 20 seconds. If the enabling time has expired, the keys are blocked and a key symbol is displayed.



Appears on the display

During Keylock the keys are locked, so you cannot use your phone. If a key is pressed, the message “Press * to unlock keypad” is displayed.

If you have locked the keys and you receive a call, you can answer the call as usual without switching Keylock off. When the call is ended, the keys are locked again after 20 seconds.



To unlock the keypad

Press.

"Unlock keypad?" is displayed.

Press to switch off the Keylock.

The key symbol disappears; the keys are enabled again.

Security

Phone Lock

You can protect your phone against unauthorized use or against adding or deleting telephone network subscriptions. Both security features are off by default. See also section “[PIN Code](#)” on page 25.

Securing against unauthorized use

You can set the phone so that the PIN code must be entered after switching on.

Route: *Menu » Toolbox » Locks » Phone lock*



Press.



Navigate to “Toolbox”.



Navigate to menu item “Locks” and press.



Navigate to “Phone lock” and press.

The following options are available:

- On
- Off

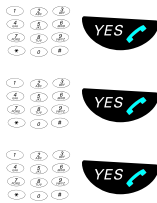
The current setting is indicated.



Navigate to “On” and press.



When using the phone for the first time, enter the New code(2) and press.



For changing the code, enter the current code (Old code) and press.

Enter the digits of the new code (New Code(1)) and press.

Enter the new code (New Code(2)) again and press.

Either the new code is accepted or “Wrong Code!” is displayed. If “Wrong Code!” is displayed, you have entered a number that does not match the current code.

When the new code is accepted, the phone lock is enabled.

Note the new code for future use.

Block Extension

You can block your extension in order to prevent unauthorized external calls. You can still make internal calls and you can also receive incoming calls.



Dial and press to block your extension.

Press to finish the procedure.

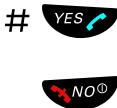
Unblock Extension

#72*

Dial.



Dial your password.



Press to reopen.

Verification tone. Your extension is open for use.

Press to finish the procedure.

Change Password

You can use your four-digit password for blocking your phone from unauthorized use, for making external calls from any blocked extension, for entering the message system or when you are using the DISA function.

Note: The first time you enter the message system, you might be requested to change your password if it is default (0000). This procedure is performed directly in the message system. See section "[Change Password](#)" on page 62.

* 7 2 *

Dial to select a new password.



Dial your current password.

The default password is 0000.



Press.



Dial your new password.



Press.

Wait for the verification tone.



Press to finish the procedure.

Bypass Blocked Extension

In order to make a call, you can temporarily bypass a blocked extension.

Bypass own extension

72

Dial.



Dial your password.



Press.

Dial tone. You can make one call from your extension.

Bypass another extension

This makes it possible to make a call on another, blocked extension, by using your password.

72

Dial.



Dial your password.

Press.



Dial your extension number.



Press.

Dial tone. You can make one call from the blocked extension. However, it will be registered as a call which is done from your own extension.

Least Cost Routing

Least Cost Routing (LCR) automatically selects the cheapest way to establish the connection to the desired external number. Please ask your system administrator if this function is installed in your system. If the extension has been configured to use LCR, each external call will be analyzed and the cheapest way will be selected.

Use Least Cost Routing



Dial the digit(s) for external call access and the external number.

The usual way of making an outgoing external call.

Calling Least Cost Routing

If LCR has been installed in your system, but your extension is not configured to use it automatically, you also have the opportunity to get the cheapest connection by dialling the LCR code before you dial an external number.



Dial the LCR code.

Please ask your system administrator for the LCR code.



Dial the digit(s) for external call access and the external number.

Phonebook

Your phone is equipped with a Phonebook where you read in up to 100 entries (names and numbers). You can consult and change the phonebook via the phonebook menu option. In addition, a company phonebook with up to 1000 entries can be downloaded to the phone.

The Phonebook lists all names in alphabetical order. You can freely add, delete, and edit names and numbers to the phonebook. The company names and numbers cannot be edited or deleted by the user; they have a “Keys locked” icon in front of the name.

Note:

Please ask your system administrator if a company phonebook is available.

Phonebook numbers have a maximum of 24 digits.

Phonebook names have a maximum of 12 characters.

Use the Phonebook

Access the names and numbers of the Phonebook.



Access the Phonebook.



Use the navigation keys to select the desired option.

Make a Call

You can search for a name and number in the Phonebook. When you have accessed the Phonebook:

Route: *Menu » Phonebook » Call*



Press.

The phonebook menu is available.



Press to select the menu item “Call”.

A list of all entries in the phonebook is displayed.

The names in the phonebook are shown in alphabetical order (alternating with the associated numbers).

or

“Phonebook is empty” is displayed.



Scroll down until you find the name.

or



Enter the first letters of the name.

The first name beginning with those letters is displayed.

For information on how to write text, see section “[Write Text](#)” on page 95.



Scroll down until you find the name and press.

The number is dialed and “Calling” is displayed.

Note: For information on how to make calls via the Call list, see sections “[Call Info](#)” on page 30 and “[Redial number from Call list](#)” on page 33.

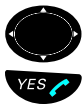
Make a Quick Call

You can also make a quick call by a name in the Phonebook.



Press and hold the key that contains the first letter of the name you want to call.

Press the same key briefly.
You can choose between the characters.



Scroll down until you find the name.

Press to confirm and dial.

Example (to select the name "Eva"):

3 **Press and hold this key.**
The name list that appears starts with "D".

3 **Press the same key briefly.**
The first name that starts with "E" is displayed.

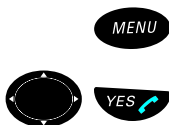


Scroll down until you find the name and press.
The number is dialed and "Calling" is displayed.

Add a Name or a Number

You can use the “Add contact” » “New” option to enter names and numbers in the Phonebook. When you have accessed the Phonebook:

Route: *Menu » Phonebook » Add contact » New*



Press.

The phonebook menu is available.

Navigate to menu item “Add contact” and press.

The following options are available:

- New
- From call list



Press to select “New”.

Name:

No.:

is displayed.



Enter a name.

For information on how to write text, see section “[Write Text](#)” on page 95.



Press to confirm.



Enter the telephone number.



If you have to wait for a second dial tone, press until “-” appears on the display.



Press to confirm.

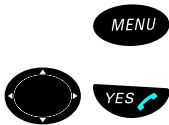
“Added” is displayed.

The name and number are stored in the Phonebook.

Change a Name or a Number

With the “Edit contact” option, you can change the names and numbers in the Phonebook. When you have accessed the Phonebook:

Route: *Menu » Phonebook » Edit contact*



Press.
The phonebook menu is available.

Navigate to menu item “Edit contact” and press.
A list of all entries in the phonebook is displayed.

The names in the phonebook are shown in alphabetical order (alternating with the associated numbers).



Scroll down until you find the name.

or



Enter the first letters of the name.
The first name beginning with those letters is displayed.



Scroll down until you find the name.



Press once to change a name.

Note: *Press the YES key twice to change a number.*



Correct the name or number.

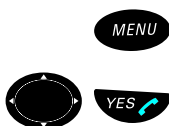


Press to confirm.

Delete Names and Numbers

You can also delete names and associated numbers from the Phonebook. When you have accessed the Phonebook:

Route: *Menu » Phonebook » Delete contact*



Press.

The phonebook menu is available.

Navigate to menu item “Delete contact” and press.

A list of all entries in the phonebook is displayed.

The names in the phonebook are shown in alphabetical order (alternating with the associated numbers).



Scroll down until you find the name.

or



Enter the first letters of the name.

The first name beginning with those letters is displayed.



Scroll down until you find the name.



Press.

“Delete?” is displayed.



Press to confirm.

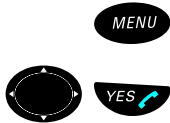
The selected name and the associated number are deleted from the Phonebook.

Add Numbers from the Call List

Up to 20 numbers (dialled, answered and missed) can remain stored in the Call info of your phone. You can use the “Add contact” » “From call list” option to add these numbers to the Phonebook.

The menu option “Add contact” » “From call list” appears only if names or numbers are available for redial. When you have accessed the Phonebook:

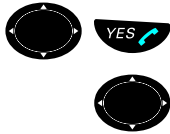
Route: *Menu » Phonebook » Add contact » From call list*



Press.
The phonebook menu is available.

Navigate to menu item “Add contact” and press.
The following options are available:

- New
- From call list



Navigate to “From call list” and press.
A list of numbers is displayed.



Scroll through the list of numbers until you have the number you want to store.



Press.
Name:
No.:
is displayed.



Enter a name.
For information on how to write text, see section “Write Text” on page 95.



Press.
“No.:” and the number to be added is displayed.



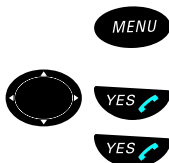
Edit the number if necessary.



Press to confirm.
“Added” is displayed. The name and number are stored in the Phonebook.

Write Text

Use the keypad to write text. The characters that you can enter are written on each key. See the following information on how to write text when you add a new name via the Phonebook menu.



Press.

The phonebook menu is available.

Navigate to menu item “Add contact” and press.

Press to select “New”.

The phone changes to text entry mode automatically.

Example (to write Smith):

7 7 7 7

Press for S.

6

Press for m.

4 4 4

Press for i.

8

Press for t.

4 4

Press for h.



Press to confirm your edit.

In standby and number input mode

In standby mode, pressing briefly enters the digits **0** to **9** and the characters ***** and **#**.

Pressing and holding the *****-key will add a pause represented by the character “-”.

In text input mode

When writing text messages and adding/editing names in the Phonebook, the keys **0** to **9**, *****, or **#** can be used. The first character entered will be an upper level character followed by lower level characters unless the *****-key is pressed before entering the character. When pressing a key, the first available character on that specific key is displayed. To get the following characters, press the key repeatedly. Key **0** and **1** contain special characters. The marked character is selected after a time-out or when another key is pressed. Pressing key **1** adds a space between the characters.

Control keys

While entering a name or a number, you can use the following keys for control and navigation:



Press the left navigation key to move to the left.

Note: Moves to the beginning of the text if held longer.



Press the right navigation key to move to the right.

Note: Moves to the end of the text if held longer.



Press to switch between upper and lower case.

Note: Pressed for more than one second will add a dial tone pause.



Press to enter a space.



Press to correct a wrong entry.

Special characters

See the table below on how to find a special character.

Phone key	Number of times to press the key											
	1	2	3	4	5	6	7	8	9	10	11	12
1	Space	-	?	!	,	.	:	"	'	()	1
2	A	B	C	Ä	Å	Æ	À	Á	Â	Ã	Ç	2
3	D	E	F	È	É	Ê	Ë	3	Δ	E	Φ	
4	G	H	I	Ĝ	Ĥ	Ĭ	Í	Î	Ï	4		
5	J	K	L	5	K	Λ						
6	M	N	O	Ñ	Ö	Ø	Ô	Ó	Ô	Õ	6	
7	P	Q	R	S	ß	\$	7	Π	P	Σ		
8	T	U	V	Ü	Ù	Ú	Û	8				
9	W	X	Y	Z	Ý	Ÿ	9					
0	0	+	&	@	/	\$	%	£	€	¤	Ψ	Ω

Note: Depending on the selected menu language, not all characters might be available, which means that the character order may differ from the table above.

Example for special characters:

8 To enter ü press 8 (seven times).

- 1 time result T
- 2 times result U
- 3 times result V
- 4 times result t
- 5 times result u
- 6 times result v
- 7 times result ü



Press to confirm your edit and exit the menu.

Settings

This section describes how to set and adjust a personal volume, how to change indication of incoming calls, how to adjust the display, how to change the language and how to revert all DT590 settings to their defaults.

Alternative programming for Automatic Callback, Camp-on, Intrusion

The associated number for using the Automatic Callback, Camp-on or the Intrusion function may vary from country to country. If you cannot use a code of a function, maybe your exchange system has been programmed with a different associated number.

Because this User Guide describes only the default programming, the following table shows the most common settings in some of these countries that are known for a different programming.

	<i>Austria, Belgium, Brazil, Denmark, Germany</i>
<i>Camp-on</i>	5
<i>Automatic Callback</i>	6
<i>Answer calls, another extension</i>	8
<i>Intrusion</i>	4

Volume Control

You can adjust the volume in the earpiece, of the loudspeaker for handsfree speaking and the volume of the ringer. Use the volume keys to adjust the volume, see section “[Description](#)” on page 9 for the location of the volume controls.

To turn the microphone, ringing sound and warning sound on or off during a call, see section “[During Calls](#)” on page 37.

Adjust loudspeaker volume for handsfree speaking



Press to adjust the volume during a call.

Adjust earpiece volume



Press to adjust the volume during a call.

The phone will now store and keep the new volume level.

Adjust ringer volume

Route: *Menu » Toolbox » Sound & Alerts » Ringer volume*



Press.



Navigate to “Toolbox”.



Navigate to menu item “Sound & Alerts” and press.



Press to select “Ringer volume”.

The following options are available:

- Voice
- Mail
- Alarm clock

Choose if the signal for Voice, Mail, or Alarm clock is to be changed.



Confirm.



A volume level bar is displayed.



Press to turn the volume up or down.



Press to save the settings.

To turn off the ringing sound permanently



Press when the phone is idle.

“Mute ringer?” is displayed.



Press.

The ring off icon appears.

Note: *If the ringer sound is permanently off and you have set the vibrator alert to “On when silent”, the vibrator turns on when the phone is ringing, see section “[Vibrator Alert](#)” on page 101.*



To turn the ringing sound on again:

Press.

“Unmute ringer?” is displayed.



Press.

The ring off icon disappears.

Vibrator Alert

If you do not want to be disturbed by the ringing of your phone, but still get the call indication, or if you are in a noisy environment, you can activate the Vibrator alert.

Route: *Menu » Toolbox » Sound & Alerts » Vibrator alert*



Press.



Navigate to “Toolbox”.



Navigate to menu item “Sound & Alerts” and press.



Navigate to “Vibrator alert” and press.

The following options are available:

- On
- On when silent
- Off

The current setting is indicated.



Select one of the following options:

- “On” for Vibrator alert.
- “On when silent” for Vibrator alert when the ringer is permanently off. See section [“Adjust ringer volume”](#) on page 100.
- “Off” for no Vibrator alert.



Press to save the settings.

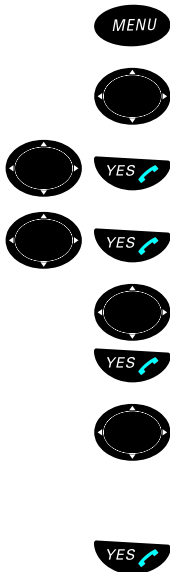
Ringer Tones or Melodies

Different signals for internal calls, external calls and callback can be set. By default, there are 14 different signals in the telephone, and additional signals can be downloaded to the handset.

Note: Ask your system administrator on how to download additional signals to your phone.

To set the sound for a ringing type

Route: Menu » Toolbox » Sound & Alerts » Ring signals » Internal/External/Callback



Press.

Navigate to “Toolbox”.

Navigate to menu item “Sound & Alerts” and press.

Navigate to “Ring signals” and press.

Select the ringing signal type: Internal, External, or Callback.

Press.

The current setting is displayed.

Select sound Low 1, Low 2, Medium 1, Medium 2, High 1, High 2, Mix 1, Mix 2 or Melody (1 - 6).

The selected sound is played. The menu options “Low”, “Medium”, “High” and “Mixed” refer to the pitch of the ringing tone.

Press to save the settings.

The table below lists the names of the melodies.

<i>Melody</i>	<i>Name</i>
1	J.S. Bach - Badinerie - BWV 1067 Suite no 2
2	The Black Bear
3	Rimsky-Korsakov - Flight of the Bumble Bee
4	Menuet Boccherini
5	J.S. Bach - Partita no 3 for violin
6	Ericsson soundmark

Alarm Signal

You can set the signal for the alarm. By default, there are 14 different signals in the telephone, and additional signals can be downloaded to the handset.

To set the sound for Alarm Signal

Route: *Menu » Toolbox » Sound & Alerts » Alarm signal*



Press.



Navigate to "Toolbox".



Navigate to menu item "Sound & Alerts" and press.



Navigate to "Alarm signal" and press.

The current setting is displayed.



Select sound Low 1, Low 2, Medium 1, Medium 2, High 1, High 2, Mix 1, Mix 2 or Melody (1 - 6).

The selected sound is played. The menu options "Low", "Medium", "High" and "Mixed" refer to the pitch of the ringing tone.



Press to save the settings.

Message Alert

You can select different signals for mail and voice messages. By default, there are 16 different signals in the telephone, and additional signals can be downloaded to the handset.

To set the sound for Message Alert

Route: Menu » Toolbox » Sound & Alerts » Message alert



Press.



Navigate to “Toolbox”.



Navigate to menu item “Sound & Alerts” and press.



Navigate to “Message alert” and press.



Select the message alert type: Mail or Voice



Press.

The current setting is displayed.



Select sound Click, Tone, Low 1, Low 2, Medium 1, Medium 2, High 1, High 2, Mix 1, Mix 2 or Melody (1 - 6). You can also select None for no sound.

The selected sound is played. The menu options “Low”, “Medium”, “High” and “Mixed” refer to the pitch of the ringing tone.



Press to save the settings.

Key Sound

Key sound is the sound you hear each time you press a key. This feature can be enabled and disabled.

Route: *Menu » Toolbox » Sound & Alerts » Key sound*



Press.



Navigate to “Toolbox”.



Navigate to menu item “Sound & Alerts” and press.



Navigate to “Key sound” and press.

The following options are available:

- Silent
- Click
- Tone

The current setting is indicated.



Select one of the following options:

- “Silent” for no Key sound.
- “Click” to have a Key sound with each key press.
- “Tone” to have a Key sound with each key press.



Press to save the settings.

Display Backlight

Your phone has a display which is illuminated when a key is pressed. The illumination automatically goes off after a while, unless you press a key.

Route: *Menu » Toolbox » Display » Backlight*



Press.



Navigate to “Toolbox”.



Navigate to menu item “Display” and press.



Navigate to “Backlight” and press.

The following options are available:

- On
- Off
- Automatic

The current setting is indicated.



Select one of the following options:

- “On” for illuminating the display always.
- “Off” for no illumination of the display.
- “Automatic” to activate illumination of the display when a key is pressed.



Press to save the settings.

Display Contrast

You can adjust the contrast of the display to one of eight levels to make it easier to read.

Route: *Menu » Toolbox » Display » Contrast*



Press.



Navigate to "Toolbox".



Navigate to menu item "Display" and press.



Navigate to "Contrast" and press.
The contrast level bar appears.



Adjust the contrast.



Press to save the settings.

Language

The default menu language is English. To select another language, use the Language option. Please note that the menu options stay in English until you confirm your language choice.

Route: *Menu » Toolbox » Language*



Press.



Navigate to “Toolbox”.



Navigate to menu item “Language” and press.

All available languages are displayed. The current language is indicated.

The available languages are Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Portuguese, Spanish, and Swedish. One additional language can be downloaded to the phone.



Scroll through the list of languages until you find the desired language.



Press to confirm your choice.

The language has now been changed.

Time and Date Settings

The time and date information is updated automatically by the system.

Set time format

Route: *Menu » Toolbox » Time & Date*



Press.



Navigate to "Toolbox".



Navigate to menu item "Time & Date" and press.



Press to select "Time format".

The following options are available:

- 24 hour
- 12 hour

The selected option is indicated.



Choose between the 24 or 12 hour format.



Press to save the settings.

Set date format

Route: *Menu » Toolbox » Time & Date*



Press.



Navigate to “Toolbox”.



Navigate to menu item “Time & Date” and press.



Navigate to “Date format” and press.

The following options are available:

- DD-MMM-YY
- MM/DD/YY
- DD-MM-YY
- YYMMDD

The selected option is indicated.



Choose between the different formats.



Press to save the settings.

Reset the DT590 Settings

The phone settings can be reset to their default values. Either only reset the user settings such as ringer volume, vibrator alert etc., or all settings/information which includes all user settings, SMS messages, voice call list, and all entries in the personal phonebook.

Route: *Menu » Toolbox » Master reset*



Press.



Navigate to “Toolbox”.



Navigate to menu item “Master reset” and press.

The following options are available:

- Settings Only
- All



Navigate to the desired option.



Press.



If the phone lock is activated, the phone will ask for your PIN code. Enter the PIN code and press.

See section “[PIN Code](#)” on page 25.

“Proceed?” is displayed.



Press to confirm.

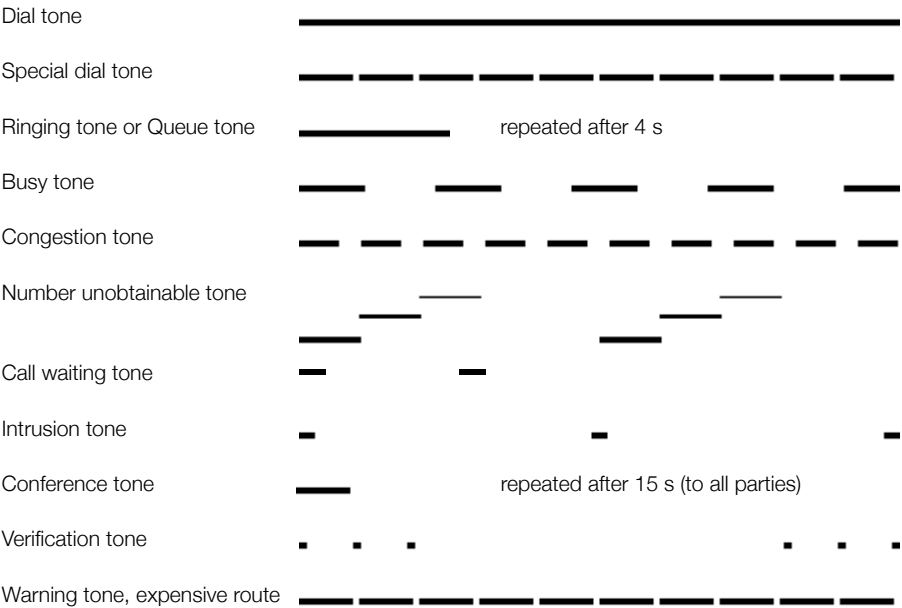
All DT590 settings revert to their default values.

Audible Signals

The following different tones are sent from the exchange to your telephone.

Tone Characteristics

The tones shown in this section are the most used tones worldwide. Many markets use a different tone for one or more situations.



Useful Hints

Connections between external lines

With your BusinessPhone Communication Plattform, you can establish an external call diversion or a conference with more than one external party or transfer an external call to another external destination (e.g. a mobile phone). These features are very useful for everyday business life.

Note: *When these features are used, your BusinessPhone Communication Plattform will occupy at least two external lines.*

However, there may be disadvantages in connecting to several external lines. We would therefore like to draw your attention to the following:

- **Please do not transfer external calls to an external mailbox, to information systems or to external parties before they have answered.**
- **If you are connected to two external lines, cancel one call by pressing “R” and “1”.**

If the external parties are not persons (mailbox, automated information or attendant systems, etc.), connections on external lines can last a long time, which can be costly. Moreover, such calls may occupy two of your system's external lines. You can restrict connections between the external lines by reprogramming your system.

Please ask your system administrator or contact our service center for more information.

Installation

This chapter describes the battery (how to connect and charge) and how to connect the clip to the back of your phone.

Check for completeness

Make sure that all the parts are present. If anything is missing, please contact your system administrator or supplier.

The set contains:

- 1 Cordless phone**
- 2 Battery**
- 3 Clip**
- 4 Assembly card**

Note: *It is important to make a note of the IPEI code. The IPEI code may be needed for unblocking the Cordless phone if an incorrect PIN code has been entered three times. See section “[IPEI Code](#)” on page 27 for further details.*

Battery

The battery compartment with the Li-Ion battery is placed on the rear side of the handset.

Charging the battery

The battery requires charging when the **Battery** icon in the display indicates low level.

Place the phone in the charger. The charging status is shown by the **Battery** icon in the display. An empty battery is fully charged after approximately 4 hours, indicated by a filled **Battery** icon.

Replacing the battery

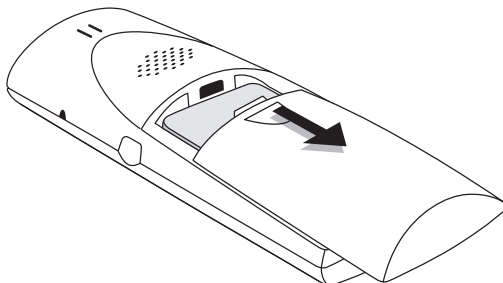
If the standby time for the cordless phone becomes too low, the battery should be replaced by a new one. Please contact your system administrator or your certified Ericsson Sales partner for more information.

After replacing the battery with a new one, the Battery icon can indicate an empty battery even though it is fully charged. Placing the phone in the charger for a while will remove the problem.

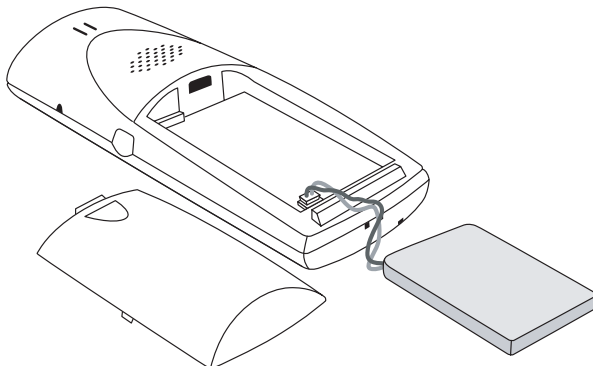
Note: *To avoid fatigue of the phone's battery connector, use the charger instead of repeatedly replacing an empty battery with a new one.*

To replace the battery:

Open the battery compartment and remove the battery.



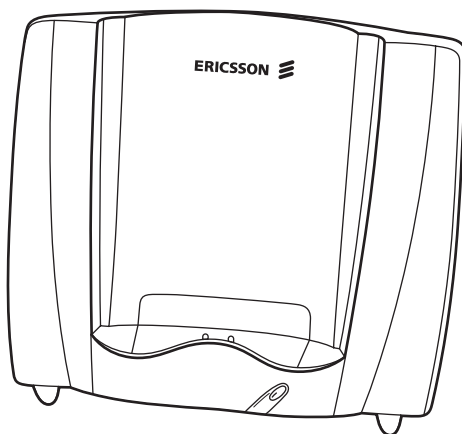
Disconnect the battery cable, and replace with a new battery.



Chargers

Desktop charger

The desktop charger is used for charging your phone, but also for storing it when you are continually at one location, for example at your desk.



The tilted design facilitates the use of handsfree operation, i.e. in loudspeaking mode. The charger is delivered with a plug-in power supply and is connected to an ordinary wall socket.

Note:

Do not use the charger outside the temperature range of +5 - +40 °C.

Do not use other power supplies than originally delivered (see "[Power adapters](#)" on page 118).

Power adapters

Article number

- NTM/BMLNB 101 17/1 (EU)
 - NTM/BMLNB 101 17/2 (UK)
 - NTM/BMLNB 101 17/3 (AU)
 - NTM/BMLNB 101 17/6 (110V)
-

Headset

A headset is recommended if you frequently use the phone, and/or want to have both hands free. The phone has a special headset connector.

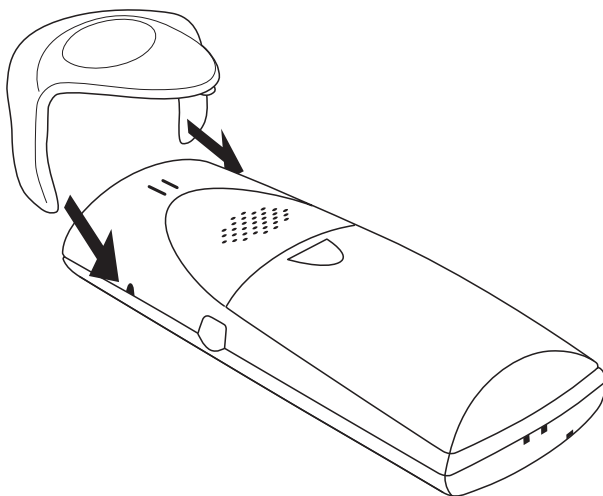
Belt clip

The clip on the back of the phone helps you fasten it to a belt or similar.

To attach or remove the clip:

Spread the clip slightly.

The ends of the clip fit into the holes on the sides of your phone.



Reference

This section describes the terminology used on the display, the phone communication signals, guidelines, technical specifications, spare parts and accessories.

Terminology

The list below explains the terms which may appear on the display.

Terminology used on display

<i>Term</i>	<i>Meaning</i>
DTMF	Dual Tone Multi Frequency or touch tone, for dialling.
IPEI	International Portable part Equipment Identity, unique identity assigned to your Cordless phone by the manufacturer.
PIN	Personal Identification Number for security.

Phone signals

The Cordless phone signals certain events audibly and visually as described below.

<i>Signal</i>	<i>Meaning</i>
Red warning light	Incoming call. Message waiting. Battery almost empty. Cordless phone out of range or not connected.

The Cordless phone also generates audible ringing signals, alarm signals and warning tones, and key clicks.

<i>Sound</i>	<i>Meaning</i>
Ringing signal	Incoming call.
Alarm signal	4 short beeps every 30 seconds: battery almost empty. 4 short beeps every 2 minutes: Cordless phone out of range or not connected.
Key click	You hear this each time you press a key (when selected).
Warning tone	You have pressed a key which has no function.

Maintenance

Consider these suggestions and guidelines to keep your phone in good shape and working properly.

Note: *The phone does not contain user serviceable parts. If your phone requires service, you should return it to the supplier or retailer from whom it was bought.*

Intrinsic safety

Do not use the phone and charger in conditions where there is a danger of electrically ignited explosions.

Battery disposal

Defective batteries must be returned to a collection point for chemical waste disposal.

Treatment

Do not expose the phone and charger to direct sunlight for long periods. Keep the phone and charger away from excessive heat and moisture.

Cleaning

Clean your phone with a soft cloth moistened with water only. The use of soap and other cleaning products can discolor and damage the phone. Clean the battery contacts using ethanol or isopropyl alcohol.

Technical specifications

DECT GAP/CAP

The Cordless phone has the unique advantages of DECT GAP/ CAP (Digital Enhanced Cordless Telecommunications Generic Access Profile/CTM Access Profile). This means that no one can eavesdrop on your calls and that the quality of speech is as good as that of conventional fixed telephones. DECT GAP/CAP enables interoperability with other manufacturers' products.

Cordless phone

Power supply

Battery	850 mAh (Li-Ion)
---------	------------------

Standards and regulations

CE regulations	73/23/EEC, 89/336/EEC, 99/5/EC
CE marking	CE 0344
DECT standards	EN 301 406, TBR10, TBR22
Safety standards	EN 60950
EMC standards	EN 301 489, -6
Low Voltage Directive	EN 60950
SAR standards	EN 50360 (Europe), ACA 2003 (Australia)

Maximum environmental values during use

Operating temperature	0 to +40 °C
Storage temperature	-20 to +55 °C
Relative air humidity	less or equal to 95% RH (25 to 45 °C) non-condensing

Dimensions and weight

L x W x H	143 x 53 x 26 mm (excluding clip)
Weight	131 g

Performance

Stand-by time	up to 140 hours
Speech time	up to 20 hours
Charge time	4 hours maximum

Headset specifications

Microphone level range	From -43dB/Pa to -36dB/Pa
DC resistance	1.5 to 5 kOhm at microphone bias voltage 1.5V via 2.2 kOhm
Speaker impedance	>30 Ohm

Note: If a headset with a hook toggle switch is used, the microphone will be short-circuited when the switch is pressed.

Volume

Ringing signal	Nine-step adjustable volume
Earpiece	Ten-step adjustable volume

Ringing signals (defaults)

External call	0.4 s on, 0.2 s off, 0.4 s on, 5 s off
Internal call	1 s on, 5 s off
Callback	0.32 s on, 0.2 s off

Phonebook

Maximum name length	12 characters
Maximum number length	24 digits
Entries	max. 100 in the personal phonebook

External interfaces

Radio connection	DECT GAP/CAP, 1880-1900 MHz (standard), 1900-1920 MHz (China), 1910-1930 MHz (Latin America), up to 250 mW radiated power during 1 of the 24 time slots
User interface	Display with two lines of 12 alphanumeric characters and 7 icons, keys with text, volume keys on the side.
Accessory connector	For battery charging.

Spare parts and accessories

Use only approved spare parts and accessories. The operation of non-approved parts cannot be guaranteed and may even cause damage. Contact your supplier for more information.

- Clip for Cordless phone
- Li-Ion battery for Cordless phone
- Battery door for Cordless phone
- Security clip for Cordless phone
- Carrying case for Cordless phone

Troubleshooting

This section contains information on how to solve common operational problems.

Go through the following list if you encounter any problems. If this check list does not solve the problem, contact your system administrator. If others have similar problems, there may be a system error.

Fault check list

Fault	Probable cause	Action or comment
No display	Battery low or phone defect	Charge battery
"Connect battery" is displayed	Battery not properly fit or defect	Check battery or contact system administrator
No ringing	Ringer off icon on or phone defect	Off icon on: Adjust volume
Signal strength icon off	Out of coverage area, system or phone defect	Enter coverage area or contact system administrator
Low battery icon on	Battery capacity equal to 10%	Charge battery
Low battery icon flashes	Battery capacity equal to or lower than 5%	Charge battery
4 short beeps every 2 minutes	Out of coverage area or not connected	Enter coverage area or contact system administrator

Fault	Probable cause	Action or comment
"Phonebook Full" is displayed	Phonebook full, you cannot add names or numbers	Delete a name and a number
"Enter XXX" is displayed (where XXX=IPEI or PIN)	IPEI code or PIN code	Enter required IPEI code or PIN code
"No access" is displayed	Network in range, but no access rights	Select another network or resubscribe
"NO NETWORK" is displayed	Cannot connect to selected network or out of range	Select another network, subscribe, get back within range or contact system administrator
"PIN Blocked Unblock?" is displayed	Phone blocked, wrong PIN code entered three times	See section "IPEI Code" on page 27

Contact your system administrator if one of these error messages is displayed:

- System List Error
- Buzzer Data Error
- User Data Error
- User Phonebook Error
- Error xx (where xx = any number)

Glossary

Abbreviated number

Short number. Initiating a call to a pre-programmed number by dialling a code or pressing a key. See section “[Abbreviated Numbers](#)” on page 66.

Conference

If you have an ongoing conversation you can include other persons and establish a telephone conference.

DECT/GAP

Digital Enhanced Cordless Telecommunication/ Generic Access Profile. This means that no one can eavesdrop on your calls and that the quality of speech is as good as that of conventional fixed telephones. DECT/GAP enables interoperability with other manufacturers' products.

Directory number

Number with 1-8 digits which is assigned to an extension or external line or as a common abbreviated number.

DTMF tone

Dual Tone Multi Frequency or touch tone, for dialling.

Extension number

All telephones connected to the PBX have a unique internal number (up to 8 digits). You can see your number on the display.

Idle mode

The state your phone is in when nothing is activated.

IP call

Internal call sent via an internal data network (LAN or WAN).

IPEI Code

International Portable part Equipment Identity, a unique identity assigned to your phone by the manufacturer.

ISDN

Integrated Services Digital Network. Provides your system with supplementary services from the public net.

Least Cost Routing

A function that automatically selects the cheapest way to connect your external call.

PBX

Private Branch Exchange. Your telephone switching system (e.g. BusinessPhone Communication Platform or MD110 Communication System).

PIN Code

Personal Identification Number for security.

Tandem configuration

The tandem configuration is a unit consisting of two phones using the same directory number.

Third party

A third connection (person), which can be included in an ongoing two person conversation. The connection can be internal or external. See section “[During Calls](#)” on page 37.

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Switching On/Off

Switch on:  (until display lights up)

Switch off:  (until display is blank)


Answer calls


Answer:  or  (Handsfree)

Mute ringing: 


End call: 

Make calls

Make calls: *Extension no. or*
 External no. 

Common abbreviated
number: *Abbreviated no.* 

Individual abbreviated
number: *** Abbreviated no. 0 – 9*
 

Last External Number
Redial: *** *** 

You get busy tone or no answer

Automatic Callback: **5**  Go "off hook" when
 called back

Camp on: **4** Stay off hook

Intrusion: **8**

Inquiry

Ongoing
conversation:  Call 3rd party

Conference


Ongoing
conversation:  Call 3rd party
  **3** (To establish)
  (To leave)

Transfer

Transfer a call:  Call 3rd party
  (Before or after answer)

Tandem Configuration

Activate: *** 2 8 #**  

Deactivate: **# 2 8 #**  

Transfer a call between
members:  Own directory no.
Go "on hook" to transfer
the call

Messages


"Call me": **9 #**

Voice: **9 9** Speak



Play-back: *****






Re-record: **9** Speak



Send: **#**


Receive messages: *** 5 9 #** 

Call Forwarding

Fixed Internal/External
Diversion: *Call service » Divert » Select*
 (Select desired position)
  

Individual Internal/
External Diversion: *Call service » Divert » Manual*
  
 Change Internal to
 External 
 desired position
  

Cancel: *Call service » Divert » End »*
 Last  

Bypass Call
Forwarding: *** 6 0 ***
 Extension no.
 # 

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