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User's Guide



9353402

Issue 2

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Quick guide

These pages give you some tips for using your Nokia THR850 phone. For more detailed information, read through this user's guide.



■ Before using your phone

- Install and charge the battery.
- Switch on the phone by pressing .


For details, see Getting started on page 26.

■ Call functions

Making a phone call

Key in the area code and phone number and press . The area code is not required for TETRA numbers. Scroll to *Private*, *Phone* or *Office ext.* (see also Making a phone call on page 29) and press .

Answering a phone call

Press  when a ringing tone is played.







Making an express call

Key in a TETRA number and press and hold the PTT key. You can start speaking when a short tone is played.

Responding to an express call

Press and hold the PTT key. You can start speaking when a short tone is played.

Setting a talk group as your selected group

Press **Menu**, scroll with  or  to *Talk groups* and press **Select**. Scroll with  or  to *Selected group* and press **Select**. Scroll with  or  to the desired talk group and press **Select**.

Making a group call to your selected group

Once you have set your selected group and its name appears on the standby display, press and hold the PTT key.

Responding to a group call

Press and hold the PTT key. You can start speaking when a short tone is played.

Activating and deactivating the loudspeaker




Press . When the loudspeaker is active, a red light flashes on the top of the phone.

Adjusting the volume

Press the volume keys on the right side of the phone to adjust the volume of the activated speaker, either loudspeaker or earphone.



■ Phone book functions

Retrieving names from the phone book

To find names, press  in the standby mode, key in the first character or more of the name and scroll with  or  to the name.

■ Basic menu functions

Entering a menu

Press **Menu**, scroll with  or  to the desired menu function and press **Select**.

Exiting a menu


Press  to exit a menu function without changing its settings and return to standby mode.

■ Other essential functions

Locking the keypad

Press **Menu** and then  (within 2 seconds).

Unlocking the keypad

Press **Unlock** and then  quickly.

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For your safety



For your safety, follow these instructions. Exceptions may be made only by trained personnel (police, firefighters and others) who determine that special use is appropriate. Further detailed information is given in this manual.



ROAD SAFETY COMES FIRST

Don't use a hand-held phone while driving; park the vehicle first.



INTERFERENCE

All wireless phones may get interference which could affect performance.



SWITCH OFF IN HOSPITALS

Follow any regulations or rules. Switch phone off near medical equipment.



SWITCH OFF IN AIRCRAFT

Wireless phones can cause interference. Using them on aircraft is illegal.



SWITCH OFF WHEN REFUELING

Don't use phone at a refuelling point. Don't use near fuel or chemicals.



SWITCH OFF NEAR BLASTING

Don't use phone where blasting is in progress. Observe restrictions, and follow any regulations or rules.



USE SENSIBLY

Use only in normal position. Don't touch the antenna area unnecessarily.

**USE QUALIFIED SERVICE**

Only qualified service personnel must install or repair equipment.



**ACCESSORIES AND BATTERIES**

Use only approved accessories and batteries. Do not connect incompatible products.

**CONNECTING TO OTHER DEVICES**

When connecting to any other device, read its user guide for detailed safety instructions. Do not connect incompatible products. Remember to make backup copies of all important data.

**EMERGENCY CALLS**

Ensure the phone is switched on and in service. Press  as many times as needed (e.g. to exit a call, to exit a menu, etc.) to clear the display. Enter the emergency number, then press . Give your location. Do not end the call until told to do so.

General information

■ Network services

The wireless phone described in this user guide is approved for use on the TETRA network.

A number of features included in this user guide are called network services. They are special services provided by wireless service providers. Before you can take advantage of any of these network services, you must subscribe to these service(s) from your home service provider and obtain instructions for their use.

■ Accessories

Li-Ion battery BLN-4 is the manufacturer-approved rechargeable battery available for your phone.

This apparatus is intended for use when supplied with power from ACP-7, ACP-8 and LCH-9 battery chargers. Other usage will invalidate any approval given to this apparatus and may be dangerous.



Warning! Use only batteries, chargers and accessories approved by the phone manufacturer for use with this particular phone model. The use of any other types will invalidate any approval or warranty applying to the phone, and may be dangerous.

For availability of approved accessories, please check with your dealer.

When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.

■ Access codes

You can use the access codes to avoid unauthorized use of your phone.

Security code (5 digits)

The factory setting for the security code is 12345. To avoid unauthorised use of your phone, change the code in the Change of access codes submenu of the *Settings* menu, see Change of access codes (Menu 6-8-2) on page 80. Keep the new code secret and in a safe place separate from your phone.

PIN code (4 digits)

The factory setting for the PIN code is 1234. To avoid unauthorised use of your phone, change the code in the Change of access codes menu of the *Settings* menu. Keep the new code secret and in a safe place separate from your phone.

When the PIN code request is enabled (Pin code request Menu 6-8-1), the code is requested each time the phone is switched on.

■ Typographys used in this guide












The display texts which appear on the phone's display are indicated in italic typeface, for example *Calling*.

The display texts related to the selection keys are indicated in bold typeface, for example **Menu**. Only the selection key texts without the key symbols are shown in the text.

In this user guide all key presses are represented by icons such as  and .

1. Your phone



- ① **Power key** Switches the power on and off.
-  **Selection keys** Perform the function indicated by the text immediately above them, e.g. **Select** or **OK**.
-  **Scroll keys** Use these keys to scroll through names, phone numbers and menus. Press  or  once in the standby mode to get quick access to phone numbers or the *My groups* submenu, respectively.
-  **Dials and answers a phone call.** In the standby mode, shows the list of the most recently dialled numbers.
-  **Ends or rejects a phone call or an express call.** Also exits from any function at any time.
-  **Enter numbers and characters.**
-  **Note that pressing and holding  calls your voice mailbox.**
-  **Used for various purposes in different functions.**
- 

■ Types of calls


Your phone provides you with three types of calls:

- **Phone calls** are like conventional telephone calls. For details, see Phone calls on page 29.
- **Express calls** are walkie-talkie style calls between two people. For details, see Express calls on page 33.
- **Group calls** are walkie-talkie style calls between talk group members. For details, see Group calls on page 35.

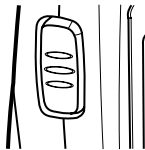
For details and availability on these call types, contact your service provider.

■ Using the PTT (Push-To-Talk) key

Your phone can make and receive one-way and two-way calls. During a one-way call, only one person can speak at a time and the speaker has to press and hold the PTT key. During a two-way call, the PTT is not needed and you can speak as with a conventional phone call.

To speak during a one-way call, press and hold the PTT key. You can start speaking after a short tone is played and  (transmitting) appears on the display.

Express calls and groups calls are one-way calls. Phone calls are normally two-way calls, but your phone is also capable of making and receiving one-way phone calls. For details, see Phone calls on page 29.



■ Loudspeaker

Your phone has a high volume loudspeaker for hands-free use. When the loudspeaker is in use, you can listen and speak to the phone from a short distance. Use the **HI/LO** key to activate or deactivate the loudspeaker.

Important! Do not hold the phone near your ear when the loudspeaker is in use, because the volume may be extremely loud.

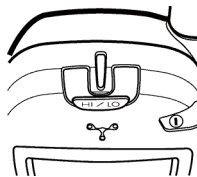
When you use the earphone, hold the phone as you would any other telephone, with the antenna pointed up and over your shoulder. When you use the loudspeaker, hold the phone approximately 10 cm (4 inches) away from your mouth with the antenna pointed up and away from your face and eyes.



■ Using the loudspeaker activation key

You can use **HI/LO** to activate or deactivate your phone's loudspeaker or both the loudspeaker and earphone.

- To activate or deactivate the loudspeaker, press **HI/LO**.
- To activate or deactivate both the loudspeaker and earphone, press and hold **HI/LO**. If you make or receive a phone call while the earphone is not in use, the earphone is activated when the call is connected.




When the loudspeaker is in use,  is displayed and a red light flashes on the top of the phone.


Note: If you have switched off both the loudspeaker and earphone, press and hold **HI/LO** to activate the loudspeaker instead of quickly pressing the key.

■ Using the volume key

The volume key adjusts the volume of the currently active speaker, either earphone or loudspeaker. Press the upper end of the key to increase the volume and press the lower end of the key to decrease it.

■ Using the selection keys

The functions of the selection keys depend on the guiding texts shown above the keys. For example, when the **Menu** text appears above the  key, pressing this key accesses the menu functions.

Similarly, pressing  under the text **Names** gives you access to the phone book functions. In this user guide, the selection keys are indicated by the relevant guiding text in bold type.

■ Display indicators

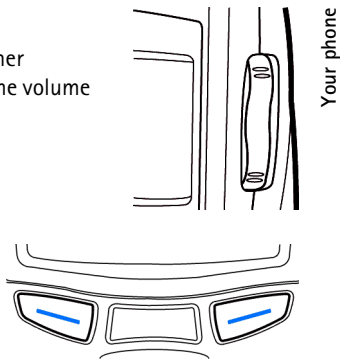
Display indicators inform you about the operation of your phone.

Standby Mode





When the phone is switched on and ready for use, the standby display appears with the following indicators:

xxxxxx

Indicates in which network the phone is currently used.















If group calls are switched on and you have set a talk group as your selected group, the talk group's name is displayed under the network name.

-  Shows the signal strength of the cellular network at your current location. The higher the bar, the stronger the signal.
-  The signal strength indicator is replaced with  when data connection is set to *Always online*. See Setting up the phone for a WAP service on page 92.
-  Shows the battery charge level. The higher the bar, the more power there is in the battery.









List of other indicators in the standby mode

The following icons may also be shown when the phone is in the standby mode:

-  The loudspeaker is in use. See Using the loudspeaker activation key on page 17.
-  The loudspeaker is not in use. See Using the loudspeaker activation key on page 17.
-  You have received one or more text messages. See Reading and viewing text messages on page 64.
-  You have received one or more status messages. See Reading status messages on page 54.
-  The phone's speakers and tones are muted.
-  The phone's keypad is locked. See Locking or unlocking the keypad on page 28.
-  You have set the alarm clock. See Alarm clock (Menu 6-1) on page 74.

-  A dial-up connection is established.  is replaced with  when there is an incoming or outgoing phone call during the connection and data transfer is suspended. See Data communications on page 103.
-  A task is active in the task journal. See Active work view on page 88.
-  Group calls are switched on and you have selected the group you primarily wish to communicate with and/or defined the group(s) you wish to scan. See Starting group communication on page 36.

Call indicators







-  Displayed during one-way calls.
-  Displayed during two-way calls.
-  Indicates that your phone is transmitting a call and that it is your turn to speak during a one-way call.
-  Indicates that your phone is receiving a one-way call.
-  Displayed during a one-way phone call when neither party is transmitting.
-  Displayed during an express call when neither party is transmitting.
-  Displayed during a call made to your selected group when nobody is transmitting.
-  Displayed during a call made to a scanned group when nobody is transmitting.

■ Using the menu

Several phone functions can be accessed via the phone's menu.


Most of the menu functions are provided with a brief help text. To view the text, scroll to the desired function and wait for 15 seconds. To exit the text, press **Back**.

Accessing a menu function by scrolling

1. To access the menu facility, press **Menu**. Press  or  to reach the desired main menu, e.g. *Settings*. Press **Select** to enter the menu.
2. If the menu contains any submenus, find the one you want by scrolling with  or . Press **Select** to enter the submenu (for example *Phone settings*).
3. If the menu you have selected contains submenus, repeat step 2. Press **Select** to enter the next submenu (for example *Display contrast*).
4. Press  or  to find the setting of your choice and confirm the chosen setting.






Tip: You can return to the previous menu level by pressing **Back** or exit the menu without changing any settings by pressing and holding **Back**.

You can always exit the menu without changing the menu settings by pressing .

Accessing a menu function by its shortcut number

The menu items (menus, submenus and setting options) are numbered and can be accessed quickly using their shortcut number. For menu shortcuts, see the list of menu functions.

1. Press **Menu**.

2. Key in quickly, within two seconds, the index number of the menu function you want to access. For example, to adjust display contrast, press **Menu**, then  for *Settings*,  for *Phone settings* and  for *Display contrast*.

List of menu functions

1. Status msgs.

1. Send status message
2. Received
3. Sent
4. My folders
5. Erase messages
6. Status settings



2. Messages

1. Write message
2. Inbox
3. Outbox
4. Archive
5. Templates
6. My folders
7. Erase messages
8. Message settings
 1. Delivery reports
 2. Message centre number



3. Call register

1. Missed calls
2. Received calls
3. Dialed numbers



4. Erase recent call lists

5. Call duration

1. Phone calls
 1. Last call duration
 2. Dialed calls' duration
 3. Received calls' duration
 4. All calls' duration
2. Private calls (same submenus as in Phone calls)
3. Clear timers
6. Data counter
7. Data connection timer

4. Talk groups

1. My groups
2. Selected group
3. Scanned groups
4. Group calls



5. Profiles

1. General
 1. Activate
 2. Personalise
 1. Incoming call alert
 2. Ringing tone
 3. Push-to-talk ringing tone



- 4. Ringing volume
- 5. Message alert tone
- 6. Status message alert tone
- 7. Keypad tones
- 8. Warning tones
- 9. Speakers
- 10. Alert for
- 2. Silent
 - 1. Activate
 - 2. Personalise
 - 1.-10. Same as in General
 - 11. Rename
- 3. Meeting
(same submenus as in Silent)
- 4. Outdoor
(same submenus as in Silent)
- 5. Pager
(same submenus as in Silent)

6. Settings

- 1. Alarm clock
- 2. Clock
 - 1. Show clock/ Hide clock
 - 2. Set the time
 - 3. Time format
- 3. Call settings
 - 1. Anykey answer



- 2. Summary after call
- 3. Priority call 0-key
- 4. Phone settings
 - 1. Language
 - 2. Welcome note
 - 3. Display contrast
- 5. Communication settings
 - 1. Listen to voice messages
 - 2. Voice mailbox number
- 6. Accessory settings
 - 1. Headset
 - 1. Default profile
 - 2. Automatic answer
 - 2. Handsfree
 - 1. Default profile
 - 2. Automatic answer
 - 3. Lights
- 7. Modem settings
 - 1. Active access point
 - 2. Edit active access point
 - 1. Alias for access point
 - 2. Access point
- 8. Security settings
 - 1. PIN code request
 - 2. Change of access codes
 - 1. Change security code
 - 2. Change PIN code

9. Restore factory settings

7. Games

1. Games
 1. Snake II
 2. Pairs II
 3. Space Impact
 4. Bumper
2. Settings
 1. Game sounds
 2. Game lights



8. Calculator



9. Calendar



10.Task journal

1. Restart
2. Add new
3. Find



4. Edit

5. Erase

6. History

11.To-do list



12.Services

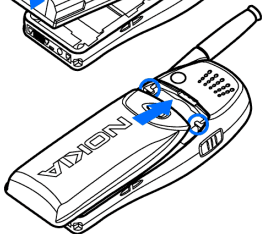
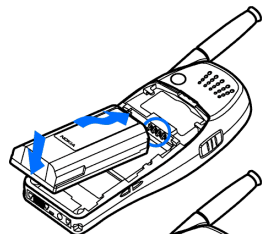


1. Home
2. Bookmarks
3. Service inbox
4. Settings
 1. Active service settings
 2. Edit active service settings
 3. Appearance settings
 4. Download settings
 5. Authority certificates
 6. Service inbox settings
5. Go to address
6. Clear the cache

2. Getting started

■ Installing the battery

1. Place the battery on the back of the phone so that the electric contacts of the battery and the phone touch one another.
2. Insert the two catches on the detachable back cover in the corresponding slots on the phone. Slide the cover towards the top of the phone until it locks into place

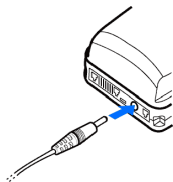


■ Charging the battery

1. Connect the lead from the charger to the bottom of your phone.
2. Connect the charger to an AC wall outlet. The battery indicator bar starts to scroll. The text *Charging* is briefly displayed if the phone is switched on. You can use the phone while charging.

If the battery is completely empty, it may take a few minutes before the charging indication appears on the display or any calls can be made.

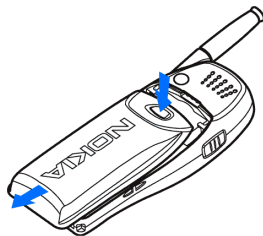
3. The battery is fully charged when the battery indicator bar stops scrolling and the text *Battery full* is briefly displayed (if the phone is on).



If the text *Not charging* is displayed, charging has been suspended. Wait for a while, disconnect the charger, plug it in again and retry. If charging still fails, contact your dealer.

■ Removing the battery

If you need to remove the battery, press the locking catch at the top of the back cover, slide the cover and lift it. Then remove the battery by lifting it.



■ Switching the phone on and off





1. Press and hold ① to switch the phone on and off.
2. If the phone asks for a PIN code, key in the four-digit PIN code (displayed as ****) and press **OK**.
3. If the phone asks for a security code, key in the five-digit security code (displayed as *****) and press **OK**.

For more information on the access codes, see Access codes on page 13.

Warning! Do not switch on the phone when wireless phone use is prohibited or when it may cause interference or danger.

Tips on efficient operation: If your phone has an extendable antenna, extend your antenna fully. As with any other radio transmitting device, do not touch the antenna unnecessarily when the phone is switched on. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

■ Locking or unlocking the keypad

To lock the keypad, press **Menu**, then   (within 2 seconds). To unlock the keypad, press **Unlock** and then   quickly.

You can answer a phone call, and respond to a group call or an express call when the keypad lock is on. When the call ends, the keypad is automatically locked.

Note: When keypad lock is ON, calls may be possible to the emergency number programmed into your phone (e.g. 112 or other official emergency number).

3. Phone calls

Phone calls are like conventional telephone calls. They can be made to TETRA network and public telephone network numbers.

Phone calls are normally two-way calls, but your phone is also capable of making and receiving one-way phone calls in case the other party's terminal cannot make or receive two-way calls.



Note: If you receive an express call when the loudspeaker is off, you will receive the call like a phone call, with the phone alerting you. This is to make sure that you do not miss the call. Use the PTT when you speak during a one-way call.

One-way and two-way calls have different ringing tones. You can change the tones in the [Profiles](#) menu.


Two-way phone calls are a network service. For availability and details, contact your service provider.

■ Making a phone call

1. Key in the area code and phone number. The area code is not required for TETRA numbers.
2. Press
3. Scroll to one of the following number types:
 - [Private](#) if the number is a TETRA network number
 - [Phone](#) if the number is a public telephone network number
 - [Office ext.](#) if the number is an office extension number.


For details on the number types, contact your service provider.

4. Press  to dial the call.

If a red light flashes on the top of the phone, the loudspeaker is in use. You can activate or deactivate the loudspeaker by pressing . For details, see Using the loudspeaker activation key on page 17.



If the call is changed to a one-way call, the text *Use PTT to speak* appears on the display. Press and hold the PTT to speak during a one-way call.





Tip: You can make a phone call even during an express call or a group call. After you have pressed  to make a call, the other call is disconnected.

For information on how to make a phone call using the phonebook, see Retrieving a name and phone number on page 48.

Making a phone call to an abbreviated TETRA number

To make a phone call to an abbreviated TETRA number, press , key in the number and press . For details on abbreviated TETRA numbers, contact your service provider.

International phone calls


1. Press  twice for the international prefix (the + character replaces the international access code).
2. Enter the country code, area code, and the phone number.
3. Press .


In-call options


Your phone provides a number of functions that you can use during a two-way phone call. By pressing **Options** during a two-way call, the following options become available:

- **Send DTMF** Allows you to key in and send DTMF tones, for example, passwords or bank account numbers
- **Phone book** Allows you to access the phone book.
- **Menu** Enters the menu.
- **Mute** or **Unmute** Mutes or unmutes the phone's microphone.
- **End active call** Ends the call.

■ Answering a phone call

When a ringing tone is played, press .


If a red light flashes on the top of the phone, the loudspeaker is in use. To deactivate or activate the loudspeaker, press .

If the call is a one-way call, you can also answer it by pressing and holding the PTT.  is displayed during a one-way call.

Muting the ringing tone

Press **Silent** or **Options** to mute the ringing tone. By pressing **Options**, the following options also become available: **Answer** and **Reject**.

Rejecting a phone call

To reject an incoming call and to send the caller the 'line busy' tone, press  or **Reject**.



4. Express calls


Express calls are immediate one-way calls between two people. They are connected without the recipient answering. You can make express calls to TETRA network numbers.

If you receive an express call when you are not using the loudspeaker, your phone alerts you and the call is connected only after you have answered it.

Express calls are a network service. For details and availability, contact your service provider.

■ Making an express call




1. Key in a TETRA number.
2. Press and hold the PTT key and start speaking after a short tone is played and  (transmitting) appears on the display.
3. Release the PTT key to let the other party speak.  (receiving) is displayed when you receive a call.

If a red light flashes on the top of the phone, the loudspeaker is in use. You can activate or deactivate the loudspeaker by pressing . For details, see Using the loudspeaker activation key on page 17.


If the text *Call type changed* appears, the call is changed to a one-way phone call. You have to wait until the other party has answered it before you can start speaking.

For information on how to make an express call using the phone book, see Making a group call using the phone book on page 40.


Reusing a number

After an express call has ended, the other party's name and number remain on the display for a short while and the call indicator changes to . You can make a new call to the number by pressing and holding the PTT key while  is displayed. You can also make a phone call to the number by pressing .

Making an express call to an abbreviated TETRA number

To make a call to an abbreviated TETRA number, press , key in the number and press and hold the PTT key. For details on abbreviated TETRA numbers, contact your service provider.


■ Receiving an express call

When you receive an express call, the caller's name (if stored in the phone book) and number and  are displayed.



Tip: You can use the menu and phone book when you are listening to an express call.

Responding to an express call

Press and hold the PTT and start speaking after a short tone is played and  appears on the display.

Rejecting an express call

To reject an express call, press .

5. Group calls

■ Group call basics

Group calls are immediate one-way calls within a talk group. Like express calls, they are connected without the recipients answering.

You can select one talk group you primarily wish to communicate with and other talk groups whose calls you wish to scan. You will receive calls made to your selected group even when you are engaged on a call with a scanned group.

Scanning allows you to follow the calls going on in several talk groups. The scanned groups may have different scanning priorities and a group with a high scanning priority can interrupt a call you are having with another scanned group.

You can access the talk groups stored in your phone's memory via the *Talk groups* menu or the phone book.

Group calls are a network service. For details and availability, contact your service provider.

Broadcast calls

Broadcast calls are like group calls. They are used, for example, to make announcements to several talk groups.

You can receive broadcast calls even when group calls are switched off. Broadcast calls can also interrupt any group calls in progress. You can respond to broadcast calls, but you cannot start them.

■ Talk groups (Menu 4)



This menu contains the talk groups that have been stored in your phone's memory. It allows you to select the group you primarily want to communicate with and the groups you want to scan, and also to call these talk groups.



Talk groups can be added to and removed from your phone's memory over the air by your service provider. When groups are added or removed, an information note is displayed (e.g. *2 new talk groups*) and you can view the changes by pressing **View**.

Starting group communication

1. Switch on group calls. See Switching group calls on or off below.
2. Select the group you primarily want to communicate with and the groups whose calls you want to scan. See Setting a group as your selected group and Selecting scanned groups below.

 is displayed when group calls are switched on and you have selected the group you primarily wish to communicate with and/or the group(s) you wish to scan. You can call or receive calls from the groups that are audible. Audible groups are identified with  in the *My groups* submenu.

Switching group calls on or off

1. Press **Menu**, scroll to *Talk groups* and press **Select**.
2. Scroll to *Group calls* and press **Select**.
3. To switch on group calls, scroll to *On* and press **OK**. To switch off group calls, scroll to *Off* and press **OK**.

Setting a group as your selected group

1. Press **Menu**, scroll to *Talk groups* and press **Select**.

2. Scroll to *Selected group* and press **Select**.
3. To select a group, scroll to the desired group and press **Select**. To undo your selection, select *No group* or select another group.



Once your selected group is ready for communication, its name is displayed on the standby display.

Selecting scanned groups

1. Press **Menu**, scroll to *Talk groups* and press **Select**.
2. Scroll to *Scanned groups* and press **Select**.
3. Scroll to the desired group and press **Mark** to include it in scanning or **Unmark** to undo your selection.

My groups

The *Mygroups* submenu of the *Talk groups* menu contains your selected talk group and the talk groups you have chosen to scan. It allows you to:

- Check whether your own group and the scanned groups are audible. Audible groups are indicated with  and those that are not audible are indicated with .
- Change your selected group or the scanned groups.
- Make a group call to the talk groups shown in this menu.

To view and modify My groups:

1. Press **Menu**, scroll to *Talk groups* and press **Select**.
2. Scroll to *Mygroups* and press **Select**.
3. Scroll to the desired group and press **Options** to view its settings.

4. To include the group in scanning, scroll to *Scanned* and press **Mark**. To undo the selection, press **Unmark**.


Or



To set the group as your selected group, scroll to *Selected* and press **Mark**. To undo your selection, press **Unmark**.

Note: If you change your selected group, you cannot receive calls from the group that used to be your selected group unless you include the group in scanning.

■ Receiving a group call

You can receive group calls from your selected talk group and the scanned groups.

When you receive a group call, the group's name and the caller's name or number and  (receiving) are displayed on the standby display.



When nobody is speaking during a group call,  is displayed if the call comes from your selected group and  is displayed if the call comes from a scanned group.




Tip: You can use the menu functions and the phone book when you are listening to a group call.

Responding to a group call

Press and hold the PTT while the group's name is displayed.

If the call icon has changed to  or , the call has been disconnected and pressing and holding the PTT key will start a new call to the group.

You can queue for your turn to talk during a group call by pressing and holding the PTT. A queuing tone is played and the text *queued* is displayed while you are on the queue. You can start speaking after a short tone is played and  appears on the screen.




Tip: You can also respond to a group call when you are using the menu.

■ Making a group call

Making a call to your selected talk group

Press and hold the PTT when your selected group's name is displayed on the standby screen. You can start speaking after a short tone is played and  appears on the display.

Making a call to a scanned talk group

You can make a new call to a scanned group after conversation has ended in it by pressing and holding the PTT while the group's name and  are still on the display.

You can also call the scanned groups using the *Talk groups* menu or the phone book.

Making a group call using the Talk groups menu

1. Once in the *Talk groups* menu, select:

- *My groups* to call your selected group or a group you are scanning
- *Selected group* to call your selected group
- *Scanned groups* to call a group you are scanning


2. Scroll to the desired group and press and hold the PTT to make the call.

Making a group call using the phone book


You can call your selected group and the groups you are scanning using the phonebook.

1. Press **Names**, scroll to *Talk groups* and press **Select**.
2. Scroll to the desired talk group. Or search the group by keying in the first character or more of the group name.
3. Press and hold the PTT to start the call.



Tip: You can quickly display the groups stored in the *My groups* submenu by pressing  once in the standby mode.

Calling a talk group's dispatcher

1. Press **Names**, scroll to *Talk groups* and press **Select**.
2. Scroll to the desired group and press .

You can also select the group whose dispatcher you wish to call using the *Talk groups* menu.





If the group whose dispatcher you are calling is not your selected group or if you are not scanning the group, you may have to wait a few seconds before your call is connected. Note that not all talk groups may have dispatchers.

If the text *Use PTT to speak* is displayed, the call is changed to a one-way call and you have to press and hold the PTT when you speak.



6. Further call functions


■ Last number redial



The last ten phone numbers you called or attempted to call are stored in the phone's memory. To call these numbers, proceed as follows:

1. When in the standby mode, press  once to access the list of the last-dialled numbers.
2. Use  or  to reach the desired number or name.
3. To make a phone call, press . To make an express call, press and hold the PTT key. Note that express calls can only be made to TETRA network numbers.

■ Speed dialling





If you have assigned a phone number or group name to one of the speed dialling keys  - , you can call that number by proceeding as follows:

1. Press the corresponding speed dialling key.
2. Depending on the number or group name you have assigned to the key, you can:
 - make a phone call by pressing .
 - make an express call by pressing and holding the PTT.
 - make a group call by pressing and holding the PTT. Note that you can call the talk group only if it is currently your selected group or if you are scanning it.

Note: Pressing and holding  dials your voice mailbox number. Pressing and holding  dials a priority call.

7. Writing text

You can key in text, for example, when writing messages, in two different ways. You can use the method traditionally used in mobile phones or another method called predictive text input.


When you are writing text, predictive text input is indicated by  and traditional text input is indicated by  on the top left of the display. The character case is indicated by **Abc**, **abc**, or **ABC** next to the text input indicator, and you can change the character case by pressing . The number mode is indicated by **123**, and you can change between letter and number modes by pressing and holding .

■ Setting predictive text input on or off

When writing text, press **Options** and select *Dictionary*.

- To set predictive text input on, select a language from the dictionary options list. Predictive text input is only available for the languages on this list.
- To change back to traditional text input, select *Dictionary off*.



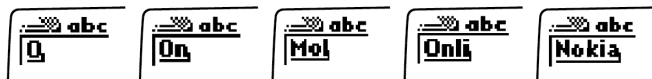
Tip: To quickly set predictive text input on or off when writing text, press  twice, or press and hold **Options**.

■ Using predictive text input

You can key in any letter with a single keypress. Predictive text input is based on a built-in dictionary to which you can also add new words.

1. Start writing a word by using the keys **2 ABC** to **9 WXYZ**. Press each key only once for one letter. The word changes after each keystroke.

For example, to write **Nokia** when the English dictionary is selected, press **6 NMCK** once for N, **5 JKL** once for o, **4 GHI** once for i and **2 ABC** once for a:



To insert a number while in letter mode, press and hold the desired number key.

For more instructions, see Tips for writing text on page 44.

2. When you have finished writing the word and it is correct, confirm it by pressing **▼** or adding a space with **0**.




If the word is not correct, you have the following options:

- Press ***+** repeatedly until the word you want appears and confirm it.
- Press **Options** and select **Matches**.



If the ? character is displayed after the word, the word you intended to write is not in the dictionary. To add the word to the dictionary, press **Spell**, key in the word (traditional text input is used) and press **Save**. When the dictionary becomes full, the new word replaces the oldest one that was added.

3. Start writing the next word.




Writing compound words

Key in the first part of the word and confirm it by pressing . Write the last part of the word and confirm it by pressing  or .

■ Using traditional text input

Press a number key,  to , repeatedly until the character you want appears. Not all characters available under a number key are printed on the key. The characters available depend on the language selected in the [Language](#) menu, see Language (Menu 6-4-1) on page 77.




To insert a number while in letter mode, press and hold the desired number key.








- If the next letter you want is located on the same key as the present one, wait until the cursor appears, or press  or , and then key in the letter.
- The most common punctuation marks and special characters are available under the number key .

For more instructions, see Tips for writing text on page 44.

■ Tips for writing text


You can also use the following keys to write text:

- To insert a space, press .
- To move the cursor to the right or left, press  or , respectively.
- To delete a character to the left of the cursor, press [Clear](#). Press and hold [Clear](#) to delete the characters more quickly.

- To insert a special character when using traditional text input, press  or when using the predictive text input, press and hold , or press **Options** and select *Insert symbol*. Scroll through the list of characters and press **Use** to select a character. To scroll through the list more quickly, press , ,  or  and press  to select a character.
- To insert a number while in letter mode, press **Options** and select *Insert number*. Key in the numbers you want and press **OK**.
- To insert a name or a phone number by searching for it in the phone book, press **Options** and select *Insert name* or *Insert number*.
- To insert a word when using predictive text input, press **Options** and select *Insert word*. Write the word using traditional text input and press **Save**. The word is also added to the dictionary.

8. Phone book


You can use your phone as a contact manager, since you can store multiple phone numbers as well as text, such as an E-mail address, a street address or a note under a name in the phone book. You can also view the talk groups stored in your phone's memory and call your selected group and the groups you are scanning using the phone book.

You can enter the phone book by pressing **Names** when the phone is in the standby mode. To quickly enter the stored names and numbers, press  when the phone is in standby mode. To enter the list of talk groups, press **Names** when the phone is in standby mode and then select *Talk groups*.

■ Storing names and numbers in the phone book

You can store at least 255 names (each of which can have up to 20 characters) and phone numbers in the phone book and up to 5 numbers and up to 2 text notes under a name. You may be able to store more than 255 names and numbers if your phone has enough memory available for this. The amount of available memory depends on the amount of data (e.g. text messages and calendar notes) stored in your phone memory.






Each number has to be assigned a number type when it is stored in the phone book. The first number stored under a name is automatically set as the name's default number.

When you select a name from the phone book, e.g. to make a call or to send a message, the default number is used unless you select another number. The default number is indicated by a box around the number type icon (e.g. ).




Note: You can call a stored number only if it has been assigned the correct number type.

To store names and numbers:

1. Press **Names**, scroll to *Add name* and press **Select**.
 2. Key in the name. See also Writing text on page 42.
 3. Press **OK**.
 4. Key in an area code and phone number, and press **OK**.
 5. Scroll to one of the following number types:
 -  *Private* if the number is a TETRA number other than an abbreviated TETRA number.
 -  *Abbr. number* if the number is an abbreviated TETRA number
 -  *Phone* if the number is a public telephone network number
 -  *Office ext.* if the number is an office extension number.
 6. Press **Select**.
-  **Tip Quick save.** When in the standby mode, key in the phone number, press **Options**, and select *Save*. Then, enter the name and press **OK**. Finally, scroll to the correct number type and press **Select**.

Adding numbers and text items to a stored name

1. Enter the list of names, for example, by pressing .
2. Scroll to the name to which you want to add a new number or text item and press **Details**.
3. Press **Options** and scroll to *Add number* or to *Add text* and press **Select**.
4. Scroll to one of the number or text types and press **Select**.
5. Enter the number or enter the text and press **OK** to save it.

6. Press **Options** (and then repeat steps 3–5) if you wish to continue adding numbers or text items to the name. Press **Back**, and then **Exit** to exit the phone book and return to the standby mode.



Changing a number type


1. Once you have entered the list of names, scroll to the desired name and press **Details**.
2. Scroll to the number whose type you want to change and press **Options**.
3. Scroll to *Change type* and press **Select**.


Changing the default number

1. Once you have entered the list of names, scroll to the desired name and press **Details**.
2. Scroll to the number you want to set as the default number, press **Options**.
3. Scroll to *Set as default* and press **Select**.


■ Retrieving a name and phone number

1. Press **Names**.
2. Scroll to *Search names* and press **Select**.
3. Key in the first character or more of the name (press **List** to access the list of names) you are searching for and press **Search**.
4. Press  or  until the desired name appears.
5. If multiple numbers have been stored for the name, you can view them by pressing **Details** and you can then scroll to the number you want to call.

You can skip this step if you want to make a call to the name's default number, which is indicated with a box around the number type icon (e.g. )

- Once the desired name is highlighted, press  to make a phone call and press and hold the PTT to make an express call. Note that express calls can only be made to TETRA network numbers.



Tip: To quickly access the list of stored names and numbers, press  when the phone is in the standby mode.

During a call: Press **Options**, select *Phone book* and select *Search names* to search for a name.

■ List of talk groups

The talk group list contains the talk groups that have been stored in your phone's memory.

Entering the list of talk groups

Press **Names** scroll to *Talk groups* and press **Select**.

To make a group call using the list of talk groups:

You can call your selected group and the groups you are scanning using the list of talk groups. For details, see Making a group call using the phone book on page 40.

To set a talk group as your selected group or a scanned group:

Once you have entered the list of talk groups, scroll to the desired group and press **Options**. Then scroll to *Selected* or *Scanned* and press **Mark**. To undo your selection, press **Unmark**.

See also Starting group communication on page 36.

■ Organizing the phone book

Editing a name and number

1. Retrieve the name or number you want to edit and press **Details**. Then press **Options**.
2. Scroll to *Edit name* or *Edit number* and press **Select**.
3. Edit the name or number and press **OK**.

Erasing a name and number

1. Retrieve the name and number you want to erase and press **Details**. Then press **Options**.
2. Scroll to *Erase* and press **Select**.

Note: If you have stored multiple numbers per name, the *Erase* option deletes the name and all the numbers and text notes stored under it.

To erase all names and numbers

1. Press **Names**, scroll to *Erase* and press **Select**.
2. Scroll to *Erase all* and press **Select**.
3. Press **OK** when the text *Are you sure?* is displayed and then key in your security code and press **OK**.

■ Assigning a phone number or a group name to a speed dial key

You can set any of the number keys **2** ABC - **9** WXYZ to work as a speed dial key. To do this you need to assign a phone number or a group name to one of these number keys. You can make a group call using a speed dial key only to your currently selected group or a group you are scanning.

1. Press **Names**, scroll to *Speed dials* and press **Select**.
2. Scroll to the desired speed dial key (2 to 9), and press **Assign**.
3. Press **Search** and press **Select**.
4. To assign a phone number to the key, select **Names**. If multiple numbers have been stored for the name, scroll to the desired name and press **Select**.
5. To assign a group name to the key, select *Talk groups*, scroll to the desired group and press **Select**.



After assigning a number to a speed dial key, you can call, view or change the number or group name or undo the speed dial. See Speed dialling on page 41.

■ Caller groups

You can set the phone to sound a specific ringing tone and show a selected graphic on the display when you receive a phone call from a particular name and phone number. To do this, first include a name and number in a caller group. Then, define a ringing tone and graphic for this group.

Note: You can set the phone to ring only upon receiving phone calls from names and numbers that belong to a specific caller group by using the *Alert for* setting under the Profiles menu, see Customising profiles on page 72.

Adding a name and phone number to a caller group

1. Press **Names**, scroll with  or  to *Caller groups*, and press **Select**.
2. Scroll to the desired caller group and press **Select**.
3. Scroll to *Group members* and press **Select**.
4. Press **OK** when *Add name* is highlighted, then scroll to the desired name and press **Add**.

5. If you have more than one number stored under the name, scroll to the number that you want to add to the caller group and then press **OK**.



Tip: You can also add a new name to a caller group by retrieving it from the phone book. At the desired number, first press **Details** and then **Options**. Scroll to *Caller groups* and press **Select**. Scroll to the desired caller group and press **Select**.

Setting a ringing tone and graphic for a caller group and renaming a caller group

1. Press **Names**, scroll to *Caller groups* and press **Select**.
2. Scroll to one of the caller groups and press **Select**.
3. Scroll to one of the following settings and press **Select**.

Group title. To rename the caller group, key in a new name and press **OK**.

Group ringing tone. To set the phone to ring a specific ringing tone for the caller group, scroll to the desired tone and press **Select**. *Default* is the tone selected for the currently selected profile.

Group logo To set the phone to display the caller group graphic, scroll to *On* and press **Select**.

Removing a name and number from a caller group

1. Press **Names**, scroll to *Caller groups* and press **Select**.
2. Scroll to the desired caller group and press **Select**.
3. Scroll to *Group members* and press **Select**.
4. Scroll to the name you want to remove, press **Options** and scroll to *Remove name* and press **Select**.

■ Setting the type of view for the list of names

You can set your phone to show the stored names and numbers in two different ways.

1. Press **Names**, scroll to *Settings* and press **Select**.
2. Scroll to *Phone book view* and press **Select**.
3. Scroll to *Name list* (shows three names at a time) or *Name & number* (one name and phone number at a time) and press **Select**.

■ Memory status

You can check what percentage of the phone's internal memory is in use and how much memory is still free.

1. When in the standby mode, press **Names**.
2. Scroll to *Settings* and press **Select**.
3. Scroll to *Memory status* and press **Select**.

9. Status messaging (Menu 1)


Within the Status m'ges menu you can read status messages, send them to one recipient or a talk group and save them for later use. Status messages are of three types:



- **Status messages** are predefined messages with varying contents. You can send them to your selected recipient.
- **Situation indicators** are predefined messages with varying contents. You can send them to a predefined recipient.
- **Callback requests** contain the message 'callback'. You can send callback requests to your selected recipient.

Status messaging is a network service. For details and availability, contact your service provider.

■ Reading status messages







When you receive a status message, the message and  appear on the standby screen. The type of the message is identified with either *Status* (statuses addressed to an individual), *Group Status* (statuses addressed to a talk group), *Situation* or *Callback request*.

To confirm that you have read the message: Press **OK**. If you have received another status message, *1 status message received* is displayed. To read the message, press **Read**.

To read the message later: press **Exit**.

After you have pressed **OK** or **Exit**, the message is moved to the *Received* folder of the *Status msgs.* menu.

Reading a status message in the received folder

1. In the standby mode, press **Menu**, scroll to *Status msgs.* and press **Select**.
2. Scroll to *Received* and press **Select** to view the messages. In the case of callback messages, the sender's name or number is shown instead of the message. The messages are identified with the following indicators:
 -  an unread status message
 -  a read status message
 -  an unread situation indicator
 -  a read situation indicator
 -  an unread callback request
 -  a read callback request
3. Scroll to the desired message and press **Read**.

Press **Options** for the following functions when you are reading a message: *Erase*, *Reply*, *Save*, *Use number* and *Group name* (available only for messages addressed to a talk group). For details, see the following sections.

Replying to a status message

You can reply to a status message with a status message or a callback request. When you are reading the message, press **Options**, choose *Reply* and then choose either *Status* or *Callback*. If you chose *Status* message, scroll to the desired message. Press **OK** to send the message.

Erasing a status message

When you are reading a message, press **Options** and choose *Erase*.

Saving a status message



After the received folder has become full, the oldest read message is overwritten when a new message is moved to the folder. You can create folders in the *My folders* submenu of the *Status msgs.* menu and store your status messages there. When you are reading a message, press **Options** and choose *Save*. If you have not yet created any folders, *Add folder* is displayed when you attempt to save the message and you can create a folder for it.

Viewing group name

When you are reading a message addressed to a talk group, press **Options** and choose *Group name*.

Easy callback

To call the sender of a status message, proceed as follows:

1. Once you are reading a status message, press .
2. To make a phone call, press . To make an express call, press and hold the PTT key.

■ Sending status messages

Tip: You can ask the network to send delivery reports on your status messages (network service). For details, see Status message settings on page 61.

Sending a status message

1. Press **Menu**, scroll to *Status msgs.* and press **Select**.
2. Press **Select** when *Send status message* is displayed.
3. Press **Select** when *Status* is highlighted.

4. Scroll to the desired status message and press **OK**. Instead of scrolling, you can also search for a message by keying in its first letter(s).
5. To send the message to an individual:
 - Key in the number and press **OK**. Select one of the following number types and then press **Send** to send the message:
 - Private* if the number is a TETRA network number
 - Phone* if the number is a public telephone network number
 - Office ext.* if the number is an office extension number
 - Or
 - Search the number from the phone book. Press **Search**, select *Names*, scroll to the desired name and press **OK**. If multiple numbers have been stored for the name, scroll to the desired number and press **OK** to send the message.
6. To send the message to a talk group, press **Search** and select *Talk groups*. Scroll to the desired group name and press **Send**.

Sending a situation indicator

1. Press **Menu**, scroll to *Status msgs.* and press **Select**.
2. Press **Select** when *Send status message* is displayed.
3. Scroll to *Situation* and press **Select**.
4. Scroll to the desired situation indicator and press **Send**. Instead of scrolling, you can also search for a message by keying in its first letter(s).

You can view the recipient in the *Status settings* submenu of the *Status msgs.* menu (see Status message settings on page 61).

Sending a callback request

1. Press **Menu**, scroll to *Status msgs.* and press **Select**.
2. Press **Select** when *Send status message* is displayed.
3. Scroll to *Callback* press **Select**.
4. To send the message to an individual:
 - Key in the number and press **OK**. Select one of the following number types and then press **Send** to send the message:
 - Private* if the number is a TETRA network number
 - Phone* if the number is a public telephone network number
 - Office ext.* if the number is an office extension number
 - Or
 - Search the number from the phone book. Press **Search**, select *Names*, scroll to the desired name and press **OK**. If multiple numbers have been stored for the name, scroll to the desired number and press **OK** to send the message.
5. To send the message to a talk group, press **Search** and select *Talk groups*. Scroll to the desired group name and press **Send**.

■ Organizing your status messages

Received and sent folders

After you have received a status message, the phone moves it to the *Received* folder of the *Status msgs.* menu. After you have sent a message, the phone moves the message to the *Sent* folder.

Once either of these folders has become full, the oldest read message in the folder is deleted when a new message is moved to the folder. If you want to make sure that some of your messages are not deleted, you can create folders in the *My folders* submenu and store the messages there for later use (see Saving a status message on page 56).

You can define the maximum number of messages that are kept in the *Received* and *Sent* folders (see Status message settings on page 61).

Handling messages in the received and sent folders

1. Once in the *Status msgs.* menu, scroll to *Received* or *Sent* and press *Select*.
2. Scroll to the desired message and press *Read* to view the message.
3. Press *Options* for the following functions: *Erase*, *Reply* (available only for received messages), *Save*, *Use number* and *Group name* (available only for group messages). For more information on the options, see Reading a status message in the received folder on page 55.

User-specified folders

You can create folders in the *My folders* submenu of the *Status msgs.* menu and save received and sent messages there.

Creating and organizing user-specified folders

1. Once in the *Status msgs.* menu, scroll to *My folders* and press **Select**.
2. Scroll to the desired folder. Skip this step if you are adding a folder.
3. Press **Options** and choose one of the following functions (if you have not yet created any folders, only *Add folder* is available):
 - *Open folder* Opens the selected folder.
 - *Add folder* Creates a new folder in the *My folders* submenu. After you have selected this option, enter the name of the new folder and press **OK**.
 - *Clear folder* Deletes all the messages in the selected folder.
 - *Rename folder* Renames the folder.
 - *Remove folder* Deletes the selected folder.

Handling messages in the user-specified folders

1. Once in the *Status msgs.* menu, scroll to *My folders* and press **Select**.
2. Scroll to the desired folder and press **Options**.
3. Scroll to *Open folder* and press **Select**.
4. Scroll to the desired message and press **Read** to view the message.
5. Press **Options** for the following functions: *Erase*, *Reply* (available only for received messages), *Move* (moves the message to another folder), *Use number* and *Group name*. For more information on the options, see Reading a status message in the received folder on page 55.

Clearing status message folders

1. Once in the *Status msgs.* menu, scroll to *Erase messages* and press **Select**.
2. Scroll to the folder whose contents you want to delete and press **OK**.

Or

Scroll to *All* to delete the contents of all the status message folders and press **OK**.

■ Status message settings

Once in the *Status msgs.* menu, choose *Status settings* to view and modify the following settings:

- *Max. number of received* Defines the maximum number of received status messages that are kept in the *Received* folder. The options are 20, 50 and 100. Note that once the folder has become full and a new message is moved to it, the oldest read message is deleted.
- *Max. number of sent* Defines the maximum number of sent status messages that are kept in the *Sent* folder. The options are 20, 50 and 100. Note that once the folder has become full and a new message is moved to it, the oldest read message is deleted.
- *Delivery reports* Allows you to request the network to send delivery reports on your status messages (network service).
- *Recipient of situations* Displays the name or number of the recipient of situation indicators.

10. Text messaging (Menu 2)



Within the Messages menu you can read and write text messages and send them to individuals and talk groups. You can also save them in folders for later use. You can send text messages of up to 160 characters to phone and office extension numbers and of up to 140 characters to private numbers. For number types, see Making a phone call on page 29.

Text messaging is a network service. For details and availability, contact your service provider.

■ Writing and sending text messages

1. In the standby mode, press **Menu** and press **Select** when *Messages* is displayed.
2. Press **Select** when *Write message* is displayed.
3. Key in a message. For details, see Writing text on page 42.

The number of characters you have keyed in is shown by a counter on the top right of the display. If you key in more than 140 characters, which is the maximum length of messages that can be sent to private numbers, the counter starts to count characters from -1 to -20. You can send messages containing the additional 20 characters marked with a minus sign to phone and office extension numbers.

Tip: When writing a text message, the phone uses the text case, which automatically writes the first character of a sentence in upper case.

You can also insert templates (see Standard answers and templates on page 64) into your messages.

4. To send the message, press **Options**. The option list includes options for sending, saving and erasing the message you are writing.
5. Press **Select** when *Send* is highlighted.
6. To send the message to an individual:
 - Key in the number and press **OK**. Then select one of the following number types and press **Send**:
Private if the number is a TETRA network number.
Phone if the number is a public telephone network number.
Office ext. if the number is an office extension number.
 - Or
 - Search the number from the phone book. Press **Search**, select *Names*, scroll to the desired number and press **OK**. If multiple numbers have been stored for the name, scroll to the desired number. Press **OK** to send the message.
7. To send the message to a talk group, press **Search** and select *Talk groups*. Scroll to the desired group name and press **Send**.

Sending a text message to multiple recipients

You can send a message to multiple recipients. When sending a reply message, use the *Send to many* option under *Forw. options*, and when writing and sending a message, use *Send to many* under *Send options*.

1. After you have written the message, press **Options**, scroll to *Send options* and press **Select**.
2. Scroll to *Send to many* and press **Select**: the list of names is displayed.
3. Scroll to the desired name and press **OK** to send the message.

4. Then select the next recipient and press **OK**.
5. When you do not want to send the message to any more recipients, press **Done**.

Standard answers and templates


Your phone offers you a list of standard answers and templates that you can use when replying to messages. You can also use templates when writing messages.

You can find the list of default templates in the *Templates* folder of the *Messages* menu. You can edit the text message templates to your liking, but the original templates will be restored when the Menu 6-9 is selected (*Restore factory settings*).

To insert a template:


1. When you are writing a text message, press **Options**.
2. Scroll to *Use template* and press **Select**.
3. Scroll to the desired template and press **Select**.

■ Reading and viewing text messages

When you have received a text message, the  indicator and the number of new messages followed by *Messages received* will appear on the display.

1. Press **Show** to view the message or press **Exit** to view it later.

To read the text message later:

Once in the *Messages* menu, scroll to *Inbox* and press **Open**. Scroll to the desired message and press **Select** to read it. An unread text message is indicated by the  icon in front of it. The message is stored in the *Inbox* folder after you have read it.



2. While reading and viewing the message, press **Options** to scroll through the list of options and press **Select** at the highlighted option to select it.

The option list includes options for erasing, replying, forwarding, moving, editing, and renaming the message you are reading. You can also change the font size of the message you are reading.

You can also copy the message to your phone's calendar as a reminder note (*Copy to calend.*). The *Details* option shows you, for example, the sender's name and phone number, message centre used for sending, reception date and time. If you want to extract numbers from the current message, use the option *Use number*.

Easy callback

To call the sender of the text message, proceed as follows:

1. Once you are reading a text message, press .
2. To make a phone call, press . To make an express call, press and hold the PTT key. Note that express calls can only be made to TETRA numbers.

Replying to a message


1. Once in a message you want to reply to, press **Options**, scroll to *Reply* and press **Select**.
2. Scroll to one of the following reply types and press **Select**.
 - *Emptyscreen*. Original message is not included in the reply message.
 - *Orig. message*. Original message is included in the reply message.

- Standard answers, e.g. *Yes*, *Thank you* or *Congrats*. Only the selected standard answer is included in the reply message. The standard answer can be modified and additional text can be added.
 - *Template*. The selected template is included in the beginning of the reply message. The template text can also be modified and additional text can be added.
3. If you selected *Template*, the list of templates, including e.g. *Please call* or *See you in*, is displayed. Scroll to the desired template and press **Select**.
 4. Key in your reply message and press **Options**, scroll to *Send* and press **Select**. Press **OK** to send the message to the displayed number.

■ Organizing your text messages

Inbox and Outbox folders

After you have read an incoming text message, the phone stores the message in the *Inbox* folder of the *Messages* menu. When you save a message you have written and/or sent, the phone stores the message in the *Outbox* folder.

Note: The blinking  icon indicates that the message memory is full. Before you can receive or send new messages, delete some of your old messages.

Archive folder and user-specified folders

If you want to make sure that certain text messages will not be overwritten when the message memory becomes full, or if you want to further organize your text messages, you can move some of your

messages to the [Archive](#) folder or you can add new folders under the [Messages](#) menu and store some of your messages there.

Add a folder

1. Once in the [Messages](#) menu, scroll to [My folders](#) and press **Open**.
2. Press **Options** and scroll to [Add folder](#) and press **Select**. Enter the name of the new folder and press **OK**.

Deleting the contents of a single folder or of all the folders

1. Once in the [Messages](#) menu, scroll to [Erase messages](#) and press **Select**.
2. Scroll to the folder whose contents you want to delete and press **OK**. Then press **OK** when [Erase all read messages?](#) is displayed.

Or

Scroll to [All read](#) and press **OK** to erase all read messages from all the folders. Then press **OK** when [Erase all read messages?](#) is displayed.

Deleting a folder

1. Once in the [Messages](#) menu, scroll to [My folders](#) and press **Open**.
2. Scroll to the folder you want to delete and press **Options**.
3. Scroll to [Remove folder](#) and press **Select**.

Note: When you delete a folder, all the messages contained in that folder are also deleted.

Moving or erasing a text message

1. Once in the desired message, press **Options**.
2. Scroll to [Move](#) or to [Erase](#) and press **Select**.

3. If you want to move a message, scroll to the selected folder name and press **OK**.

■ Message settings

The message settings affect the sending of messages.

1. Once in the *Messages* menu, select *Message settings*.
2. Scroll to one of the following and press **Select**.
 - *Delivery reports* to ask the network to send delivery reports on your text messages (network service). Select *Yes* or *No* and press **OK**. Delivery reports are not available for messages addressed to talk groups.
 - *Message centre number* to save the phone number of the message centre (network service). Key in the number and press **OK**. The message centre number is needed to send text messages. You obtain it from your service provider.

11. Call register (Menu 3)

Within the Call register menu you can view the phone numbers registered by the phone and view the approximate length of your two-way phone calls (network service). You can also check the amount of data you have sent and received, and the duration of a data connection.



Note: The actual time invoiced for voice or data calls by your service provider may vary, depending upon network features, rounding-off for billing, and so forth.


When you press **Options** in the *Missed calls*, *Received calls* or *Dialled numbers* menus, you can view the date and time of the call, call the number, save the number in the phone book and view, edit or erase the number from the list.

Note: The phone registers missed and received calls only if the network supports Calling Line Identification (CLI), and the phone is switched on and within the network's service area.

■ Missed calls (Menu 3-1)

This function allows you to view a list of the last ten phone numbers from which somebody has tried to make a phone call to you with no success (network service). To access the function, press **Menu**, select *Call register* and then *Missed calls*.



Tip: When a note about missed calls is being displayed, press **List** to see the phone number. To call back immediately, press  to make a phone call or press and hold the PTT to make an express call. Note that express calls can only be made to TETRA numbers.


■ Received calls (Menu 3-2)

This function allows you to view a list of the ten phone numbers from which you have most recently accepted a phone call or from which you have received an express call (network service). To access the function, press **Menu**, select *Call register* and then *Received calls*.

■ Dialed numbers (Menu 3-3)

This function allows you to view a list of the ten phone numbers to which you have most recently made or tried to make a phone call or an express call by dialling the number. To access the function, press **Menu**, select *Call register* and then *Dialed numbers*.



Tip: To quickly access the list of last dialled numbers, press  once when the phone is in the standby mode.

■ Erase recent call lists (Menu 3-4)

This function allows you to delete all the phone numbers which appear in the *Missed calls*, *Received calls* and *Dialed numbers* menus. To access the function, press **Menu**, select *Call register*, *Erase recent call lists* and then select the menu whose contents you want to delete.

■ Call duration (Menu 3-5)

This function allows you to view the duration of your incoming and outgoing two-way phone calls in hours, minutes and seconds. To access the function, press **Menu**, select *Call register* and *Call duration*. Then select *Phone calls* to view information on public telephone network calls or *Private calls* to view information on TETRA network calls.

To clear call timers, you need to enter the security code. See Access codes on page 13.

■ Data counter (Menu 3-6)

This function allows you to check the amount of data you have sent or received during the last data connection or in total. You can also clear the counters. The counter unit is a byte. To access the function, press **Menu**, select *Call register* and *Data counter*. Then select either *Data sent in last session*, *Data received in last session*, *All sent data* or *All received data*.

■ Data connection timer (Menu 3-7)

This function allows you to check the duration of the last data connection or of all data connections. You can also clear the timers. To access the function, press **Menu**, select *Call register* and *Data connection timer*. Then select either *Duration of last session* or *Duration of all sessions*.

12. Profiles (Menu 5)

Within the Profiles menu, you can adjust and customise the phone's tones for different events, environments and caller groups.



■ Activating a user profile

If you want to change the currently selected profile :

1. Press **I** quickly in standby mode.
2. Scroll to the profile you want to activate and press **Select**.

Or

Press **Menu**, scroll to **Profiles** and press **Select**. Scroll to the profile you want to activate and press **Options**. Press **Select** when **Activate** is highlighted.

■ Customising profiles

1. Press **Menu**, scroll to **Profiles** and press **Select**. The following list of options appears: **General**, **Silent**, **Meeting**, **Outdoor** and **Pager**.
2. Scroll to the desired profile and press **Options**.
3. Select **Personalise** and press **Select**.
4. Scroll to the setting you want to customise and press **Select**.
5. Scroll to the desired option and press **OK** or **Select**.

Settings you can personalise

Once you have selected the option *Personalise*, you can change the following settings of the selected profile: *Ring tone* for two-way phone calls, *Push-to-talk ringing tone* for one-way phone calls, *Incoming call alert*, *Ring volume*, *Message alert tone*, *Status message alert tone*, *Keypad tones*, *Warning tones*, *Speakers* for muting both loudspeaker and earphone and *Alert for* for setting the phone to ring only upon calls from phone numbers which belong to a selected caller group.

Note: If you change the *Alert for* setting, see also Adding a name and phone number to a caller group on page 51 and Setting a ringing tone and graphic for a caller group and renaming a caller group on page 52.

■ Renaming a profile

You can rename the profiles to your personal liking except for the *General* profile.

1. Press *Menu*, scroll to *Profiles* and press *Select*.
2. Scroll to the profile you want to rename and press *Options*, then scroll to *Personalise* and press *Select*.
3. Scroll to *Profile name* and press *Select*.
4. Enter the new name and press *OK*. To enter letters, see Storing names and numbers in the phone book on page 46.

13. Settings (Menu 6)

■ Alarm clock (Menu 6-1)



You can set the phone to alarm at a specified time within the *Alarm clock* menu. The alarm clock uses the time format set for the clock, i.e. either the 12-hour or 24-hour format.

To set the alarm time: Press **Menu**, select *Settings* and then select *Alarm clock*.

- If the alarm was off when you entered this function, key in the desired alarm time in hours and minutes and press **OK**.
- If the alarm was on when you entered this function, select *On* to change the alarm time or select *Off* to switch off the alarm.

When the alarm is on, the  indicator appears on the standby screen.

When the alarm time is reached:

Press **Stop** to stop the alarm. If you let the alarm ring for a minute or press **Snooze**, the alarm stops for a few minutes and then resumes.

If the phone is off when the alarm starts to ring, press **Stop** to stop the alarm and then press either **Yes** to switch on the phone or **No** to keep the phone switched off.



Note: Do not switch on the phone when the use of a wireless phone is prohibited or when it may cause interference or danger.

■ Clock (Menu 6-2)

Within this menu, you can set the time display on or off, set the correct time or select the 12-hour or 24-hour time format.



Note: Your phone must be switched on to use this function. Do not switch on the phone when the use of a wireless phone is prohibited or when it may cause interference or danger.

Show clock / Hide clock (Menu 6-2-1)

With this submenu you can choose whether the current time is shown on the standby display. Press **Menu**, select *Settings*, *Clock* and then *Show clock* to set the time display on or *Hide clock* to set the time display off.

Set the time (Menu 6-2-2)

Press **Menu**, select *Settings*, *Clock* and then *Set the time*. Enter the present time and press **OK**.

Time format (Menu 6-2-3)



This submenu is used to select the 12-hour or 24-hour time format. Press **Menu**, select *Settings*, *Clock*, *Time format* and then the time format.

This setting also affects the time format of the following functions: *Status msgs.* (Menu 1), *Messages* (Menu 2), *Call register* (Menu 3), *Alarm clock* (Menu 6-1), *Calendar* (Menu 9) and *Task journal* (Menu 10).

Note: If the battery is removed from the phone for a long time, you may need to set the time again.

■ Call settings (Menu 6-3)

Anykey answer (Menu 6-3-1)



When this function is set to on, you can answer a phone call by pressing any key briefly, except  and . The facility to answer a call by pressing **Reject** is not available when this function is on.


To activate or deactivate the anykey answer function: Press **Menu**, *select Settings, Call settings, Anykey answer* and then *On* or *Off*.

Summary after call (Menu 6-3-2)

When this function is set to on, the phone will briefly display the approximate duration and cost (network service) of the last two-way phone call. Press **Menu**, *Settings, Call settings, Summary after call* and then either *On* or *Off*.

Priority call 0-key (Menu 6-3-3)

With the priority call feature on, the phone attempts to make a priority call when you press , then . The phone dials the number preprogrammed into your phone and attempts to make the kind of call that has been preprogrammed into your phone, either a phone call, an express call or a group call. The priority call feature is a network service. For details and availability, contact your service provider.

Note: You can also dial a priority call by pressing and holding  until the phone indicates it is attempting to make a priority call. However, this method does not work when the keypad is locked.

To activate  for priority calls:

1. Once in the *Settings* menu, scroll to *Priority call 0-key* and press **Select**.

2. Scroll to *On* to activate the key or *Off* to deactivate it and press *Select*.

■ Phone settings (Menu 6-4)



Language (Menu 6-4-1)

Within this menu you can select the language in which the display texts are shown. This setting also affects the time and date formats of the following functions: *Alarm clock* (Menu 6-1), *Calendar* (Menu 9), *Task journal* (Menu 10).

Welcome note (Menu 6-4-2)

Within this menu you can store a note (up to 44 characters in length) that is briefly shown when the phone is switched on. Press *Menu*, select *Settings*, *Phone settings* and then *Welcome note*. Key in the note, press *Options* and select *Save* to save the note. If you want to delete the note, press *Erase*.

Display contrast (Menu 6-4-3)


You can adjust the display contrast with this menu. Press *Menu*, *Settings*, *Phone settings* and then *Display contrast*. Use  or  to adjust the contrast when the contrast bar is shown on the display.

■ Communication settings (Menu 6-5)

Listen to voice messages (Menu 6-5-1)

Press **Menu**, select **Settings** and then **Communication settings**. When **Listen to voice messages** is displayed, press **OK**. Note that the voice mailbox is a network service and you may need to subscribe to it first.



Tip: To quickly call your voice mailbox, press and hold  when in the standby mode or in the menu.

Voice mailbox number (Menu 6-5-2)

Within this submenu, you can store and edit your voice mailbox number. To store your voice mailbox number: Press **Menu**, select **Settings**, **Communication settings** and then **Voice mailbox number**. Enter your voice mailbox number and press **OK**.

Voice mailbox is a network service. For more information and for the voice mailbox number, contact your service provider.

■ Accessory settings (Menu 6-6)

This menu is shown only if the phone is or has been connected with the HDC-9P headset or the CARK91T handsfree car kit.

1. Once you are in the **Settings** menu, select **Accessory settings**.
2. Select either **Headset** or **Handsfree** and scroll to one of the available settings for the accessory:
 - **Default profile** and press **Select**. Select profile you want to have activated with the selected accessory.

- *Automatic answer* and press *Select*. Select *On* to set the phone to automatically answer an incoming call in five seconds' time. If the *Incoming call alert* is set to *Beep once* or *Off*, automatic answer will not be in use.
- *Lights* and press *Select*. Select *On* to set the lights permanently on, or *Automatic* to set the lights on for 15 seconds after a keypress, or *Off* to set the lights off.

■ Modem settings (menu 6-7)

You can connect your phone via a cable to a compatible PC and use it as a modem to enable connectivity from your PC to a data network. To establish a connection to the data network, you need to activate the access point you wish to use for the connection. For details on the access point, contact your network operator or service provider.

To activate an access point and to change its settings:

1. Press *Menu*, select *Settings* and then select *Modem settings*.
2. Select *Active access point*, scroll to the access point you want to use and press *Activate*.
3. Select *Edit active access point* to change the access point settings.
 - Scroll to *Alias for access point* and press *Rename*. Key in the name you would like for the activated access point and press *OK*.
 - Scroll to *Access point* and press *Edit*. Key in the Access Point Name (APN) and press *OK*.

■ Security settings (Menu 6-8)

PIN code request (Menu 6-8-1)

To switch the PIN code request on or off

1. Once you are in the *Settings* menu, select *Security settings* and then select *PIN code request*.
2. Enter your PIN code and press **OK**.
3. Scroll to *On* or *Off* and press **OK**.

Note: If you enter an incorrect PIN code three times in succession, the code is blocked and you need to enter the security code to unblock the PIN code.

Change of access codes (Menu 6-8-2)

With this menu you can change the security code and the PIN code.

Press *Menu*, *Settings*, *Security settings*, *Change of access codes* and then either *Change security code* or *Change PIN code*. The phone will prompt you to enter the current code and the new code. It will also ask you to verify the new code by entering it again.

For more information on the codes, see Access codes on page 13.



Note: Avoid using access codes similar to the emergency numbers, such as 112, to prevent accidental dialing of the emergency number.

■ Restore factory settings (Menu 6-9)

Within the *Restore factory settings* menu of the *Settings* menu, you can reset some of the menu settings to their original values. The security code is needed for this function. Press *Menu*, select *Settings* and *Restore factory settings*.

14. Games (Menu 7)

The Games menu offers you four games to play: Snake II, Pairs II and Space Impact and Bumper.




Note: Your phone must be switched on to use this function. Do not switch on the phone when the use of a wireless phone is prohibited or when it may cause interference or danger.

■ Starting a new game and game options

Press **Menu**, select **Games** and **Select game**. Select the game you would like to play, *Snake II*, *Pairs II*, *Space Impact* or *Bumper*.

Select one of the options that may be available for the game:

- **Continue** to continue a paused game. To pause a game, press  or either of the selection keys.
- **New game** to start a new game session.
- **Options** to change the settings for the selected game.
- **Level** to set the level of difficulty for the selected game.
- **High scores** to view the highest scores.
- **Instructions** to view instructions on how to play the game.

■ Game settings

You can switch the games' tones and lights on or off. Press **Menu**, select **Games**, **Settings** and either **Game sounds** or **Game lights**. Then switch the tones or lights on or off.

15. Calculator (Menu 8)

The phone has a calculator that can also be used for rough currency conversions. The calculator has a limited accuracy and rounding errors may occur, especially in long divisions.



Note: Your phone must be switched on to use this function. Do not switch on the phone when the use of a wireless phone is prohibited or when it may cause interference or danger.

■ Making a calculation

To enter the Calculator menu, press **Menu**, scroll to *Calculator*, and press **Select**.

- Use the number keys to enter numbers. To change the sign, press **Options** and select *Change sign*.
- To add a decimal point, press **[.]**. To erase any mistakes, press **Clear**.
- **[*]** Press once (for +) to add, twice (for -) to subtract, three times (for *) to multiply and four times (for /) to divide.
- For a total, press **Options** and select *Equals*.

■ Making a currency conversion

To set the exchange rate:

Once in the Calculator menu, press **Options** and select *Exchange rate*. Then select either *Foreign unit expressed in domestic units* or *Domestic unit expressed in foreign units*, key in the exchange rate (press **[.]** for the decimal point) and press **OK**.

To make the conversion:

Once you have set the exchange rate, key in the amount you want to convert, press **Options** and select *In domestic* or *In foreign*.

16. Calendar (Menu 9)

The calendar helps you to keep track of reminders, calls that you need to make, meetings, and birthdays. You can set the phone to sound an alarm tone when the set date for a meeting, birthday or a call is reached.



Note: Your phone must be switched on to use this function. Do not switch on the phone when the use of a wireless phone is prohibited or when it may cause interference or danger.

■ Viewing the calendar

Press **Menu** and select **Calendar**. Scroll to the day you want. If you have set notes for the day, a note indicator is shown.






Day view: The day view lists the notes made for the day. Press **Options** and select **View day notes**.

Note view: When in the Day view, scroll to the note you want to view, press **Options** and select **View**.


The other options of calendar views may include:

- Options for making a note and for sending a note as a text message.
- Options for erasing, editing, moving and repeating a note and for copying a note to another day.
- **Settings** to set the date, time, date format and time format. In the **Auto erase** option you can set the phone to delete old notes automatically after a specified time, except for the repeat notes (for example, birthday notes).

■ Adding a calendar note

1. Once in the *Calendar* menu, scroll to the desired date.
2. Press **Options** and select *Make a note*.
3. Select one of the following note types. For entering letters and numbers, see Writing text on page 42.
 - *Meeting* () Enter the note and press **OK**. Then enter the time and press **OK**.
 - *Call* () Enter the desired phone number (or search for it from the phone book) and press **OK**. Then enter the desired name (or search for it from the phone book) and press **OK**. Repeat this with the time.
 - *Birthday* () Enter the person's name and press **OK**, then repeat the same with the date of birth and year of birth (optional).
 - *Memo* () Enter the note and press **OK**.
4. Scroll to the desired alarm option and press **Select**. The presence of a tone alert is indicated by  when you view the notes.

When the phone alarms for a note:

The phone beeps and displays the note. With a *Call* note on the display, you can make a phone call to the displayed number by pressing  or an express call by pressing and holding the PTT. Note that express calls can only be made to TETRA numbers.

To stop the alarm and to view the note, press **View**. To stop the alarm without viewing the note, press **Exit**.

17. Task journal (Menu 10)

The task journal is like a timecard used for keeping track of working times and costs, and also for storing various comments. You can send Task journal data to another phone as a text message.



Note: Your phone must be switched on to use this function. Do not switch on the phone when the use of a wireless phone is prohibited or when it may cause interference or danger.

Note: If the phone is switched off during an active task, the task is not stopped. Also, if the phone is powered off due to a low battery, the task journal timer continues to run as long as there is enough power to keep the phone's main clock running.

■ Restart (Menu 10-1)

Within this submenu, you can restart a task. Each time you restart a task, a new entry is created for the task.


To restart a task, Select *Restart* when you are in the *Task journal* menu, scroll to the desired task and press *Start*.

■ Add new (Menu 10-2)

This submenu allows you to create a new task.

1. Once in the *Task journal* menu, scroll to *Add new* and press *Select*.
2. Key in a title for the task and press *OK*. Then key in the customer's name and press *Start*.

After you have created a task, the active work view is displayed. You can add costs and comments and pause or end the task by pressing **Options** in this view. For details, see Active work view on page 88.

 is shown on the standby display when the task is active.

■ Find (Menu 10-3)

With this submenu you can search for previous tasks by title or by customer.

1. Once in the *Task journal* menu, scroll to *Find* and then press **Select**.
2. Scroll to *By title* and enter the tasks title or part of it and press **OK**.

Or scroll to *By customer*, key in the customer's name or the first letter(s) of it and press **OK**.

■ Edit (Menu 10-4)

Within this submenu you can edit a task's title and the customer's name. Once you are in the *Task journal* menu, select *Edit* and then select the task you want to edit.

■ Erase (Menu 10-5)

1. Once in the *Task journal* menu, scroll to *Erase* and press **Select**.
2. To delete one task at a time, select *One by one* and then select the task you want to delete. Press **OK** to confirm your selection.

Or to delete all tasks, select *All tasks* and press **OK**.



■ History (Menu 10-6)

Within this submenu you can view details about tasks.

1. Select *History* from the *Task journal* menu.
2. Scroll to the desired task and press **OK**.

The history view shows the task's title, the customer's name and the following information on the task: *Created*, *Entries*, *Total time*, *Total wages*, *Total materials*, *Total costs* and *Comments*.

By pressing **Options** in the history view, the following options become available:

- *Details* Shows the following information about a task's entries: *Task time*, *Wages*, *Materials* and *Costs*. You can scroll through the entries using  and . To view more detailed information on an entry, press **Options**.
- *Send as text* Allows you to send data from the task journal to another phone as a text message. The contents of the message depend on the view that was displayed when you selected the sending option.
- *Erase* Erases the information presented in the history view.

■ Active work view

The active work view appears in the task journal menu when a task is active. It contains the following information: title of the active task, starting time and duration of the current entry and the total work time of the task.

Press **Options**, for example, for the following options:

- *Pause* to pause the task. To continue, press **Options** and choose *Continue*.
- *Stop* to stop the task's current entry.

- *Add cost* to add wage or material costs to the task's current entry. To add material costs, select *Material*, key in the material ID, the amount of used parts and the price. To add wage costs, select *Wages* and key in the hourly wage.
- *Add comment* to write comments for the task. The maximum length of a comment is 40 characters.

18. To-do list (Menu 11)

The to-do list allows you to create a list of things you must do and to prioritize them according to their importance. You can also store to-do list notes in the calendar and send them to another phone as a text message. Depending on the size of the notes, you can store up to 30 notes in the list.



Note: Your phone must be switched on to use this function. Do not switch on the phone when the use of a wireless phone is prohibited or when it may cause interference or danger.

■ To-do list options

To enter the to-do list, press **Menu** and select *To-do list*. Press **Options** for the following options:

- **Add** Creates a to-do list note. Key in the note, press **Options** and select **Save**. Select the note's priority, either *High (1)*, *Medium (2)* or *Low (3)*.
- **View** Displays a to-do list note.
- **Erase** Erases a to-do list note.
- **Edit** Allows you to edit a to-do list note. To save the note, press **Options** and select **Save**.
- **Edit priority** Allows you to change the priority of a to-do list note.
- **Go to priority** Goes to the first to-do list note with a certain priority.
- **Go to calendar** Allows you to view the calendar.
- **Save to calend.** Saves a to-do list note in the calendar.
- **Send as text** Sends a note to another phone as a text message.

19. Services (Menu 12)

The Services menu allows you to access WAP (Wireless Application Protocol) services provided by your organisation and various commercial WAP services such as banking, news, weather reports and flight times. These services are specially designed for mobile phones and they are maintained by WAP service providers.



Check the availability of WAP services, pricing and tariffs with your network operator and/or the service provider whose service you want to use. Service providers will also give you instructions on how to use their services.



Note: Your phone must be switched on and you must be within the cellular network coverage area to use this function. Do not switch the phone on when wireless phone use is prohibited or when it may cause interference or danger.

The WAP services use Wireless Mark-Up Language (WML) on their WAP pages. Web pages using the Hyper Text Mark-Up Language (HTML) cannot be viewed on your phone.

■ Call functions during a WAP connection

You can make and receive phone calls when you are connected to a wap service. When you make or answer a call, data transfer is suspended.

Group calls and express calls are not possible during a WAP connection. The express calls made to you, however, are changed to one-way phone calls and you can receive them like phone calls.

■ Basic steps for accessing and using WAP services

1. Save the service settings that are needed to access the WAP service that you want to use. See Setting up the phone for a WAP service below and Appearance settings of WAP browser on page 97.
2. Make a connection to the given WAP service. See Making a connection to a WAP service on page 94.
3. Start browsing the pages of the WAP service. See Browsing the pages of a WAP service on page 96.
4. Once you are done with browsing, end the connection to the WAP service. See Ending a WAP connection on page 97.

■ Setting up the phone for a WAP service

You may receive the service settings as a text message from the network operator or service provider that offers the WAP service that you want to use. For more information, contact your network operator or service provider.

You can also key in the settings manually. For appropriate settings, contact your network operator or service provider. The WAP settings may be available, for example, on the Web site of the network operator or service provider.

Saving the service settings received as a text message

When you receive the service settings as a text message, *Service settings received* is displayed.

- To save and activate the received settings, press **Options** and select *Save*.


If no settings are saved in *Active service settings*, the settings are saved under the first free connection set and also activated.

- To discard the received settings, press **Options** and select *Discard*.
- To view the received settings first, press **Options** and select *View*. To save the settings, press **Save**.

Keying in the service settings manually


1. Press **Menu**, select *Services*, and *Settings*.
2. Select *Active service settings*.

You need to activate the set where you want to save the service settings. A set is a collection of settings needed for making a connection to a WAP service.

3. Scroll to the set you like to activate and press **Activate**.
4. Select *Edit active service settings*.
5. Select each of the settings one by one and key in all the required settings.
 - *Settings name* – Key in the new name for the connection set and press **OK**.
 - *Homepage* – Key in the homepage address of the WAP service that you want to use, press  for a period, and press **OK**.
 - *Session mode* – Select *Permanent* or *Temporary*.
 - *Connection security* – Select *On* or *Off*.

When the connection security is *On*, the phone tries to use a secure connection with the WAP service. If a secure connection is not available, the connection will not be made. If you wish to connect anyway, with a non-secure connection, you must set the connection security to *Off*.


 - *Data connection* – Select *Always online* or *When needed*.

If you select *Always online*, the data connection is automatically established when you switch on the phone. The  indicator is shown on the display. The data connection is not closed when you end a WAP connection.

If you select *When needed*, the data connection is established when you connect to a WAP service and closed when you end the WAP connection.

- *Access point* – Key in the access point name and press **OK**.

Access point name is needed to establish a connection to data network. You obtain the access point name from your network operator or service provider.

- *IP address* – Key in the address, press  for a period, and press **OK**.
- *Authentication type* – Select *Secure* or *Normal*.
- *Login type* – Select *Manual* or *Automatic*. If you select *Manual* when the *Data connection* is set to *Always online*, the *Always online* connection will be disabled.
- *User name* – Key in the user name and press **OK**.
- *Password* – Key in the password and press **OK**.

■ Making a connection to a WAP service

Firstly, make sure that the service settings of the WAP service you want to use are activated. To activate the settings:

- Press **Menu**, select *Services* and *Settings*. Select *Active service settings* and scroll to the set you want to activate and press **Activate**.

Secondly, make a connection to the WAP service. There are three ways to connect:

- Open the homepage of the WAP service:

Press **Menu**, select *Services* and *Home*.

OR

- Select a bookmark of the WAP service:

Press **Menu**, select *Services*, *Bookmarks*, and select a bookmark.



If the bookmark does not work with the current active service settings, activate another set of service settings and try again.


OR

- Key in the address of the WAP service:

Press **Menu**, select *Services* and then *Go to address*. Key in the address of the WAP service, press  for special characters, and press **OK**.

Note that it is not necessary to add the prefix `http://` in front of the address since it will be added automatically.







The indicator  is shown on the top left of the display when you are connected to a wap service. If there is an incoming (or outgoing) phone call during the connection, the connection is suspended and the indicator  is shown on the top right of the display.

Group calls and express calls are not possible when the indicator  is shown. The express calls made to you, however, are changed to one-way phone calls and you can receive them like normal phone calls.

■ Browsing the pages of a WAP service

After you have made a connection to the WAP service, you can start browsing its WAP pages. The function of the phone keys may vary in different WAP services. Follow the text guides on the phone display. For more information, contact your WAP service provider.

General guidelines for using the phone keys

- Use the scroll keys  or  to browse the WAP page.
- To select a highlighted item, press .
- To enter letters and numbers, press the keys  -  and to enter special characters, press the key .
- Some or all of the following options are available while a WAP connection is in progress. Press **Options** and select the option you want.

Home - to go back to the homepage of the WAP service.

Bookmarks - the list of bookmarks is displayed. For details, see Bookmarks on page 98.

Edit / Open row / Open link / Open list - to key in text or select a highlighted item on the WAP page.

Add bookmark - to add the current WAP page as a bookmark in your bookmarks list.

Go to address - to key in the address of the WAP service you want.

Service inbox - the list of service messages is displayed, see Service inbox on page 99.

Appear. sett. - for details, see Appearance settings of WAP browser on page 97.

Download settings - for details, see Download settings on page 98.

Use number – to copy a number from the current WAP page for saving or calling (and ends the WAP connection). If the WAP page contains several numbers, you may select the desired one.

Reload – to reload and update the current WAP page.


Clear the cache – for details, see The cache memory on page 100.

Security info – to view security information about the current WAP connection and the server.

Quit – to quit browsing and end call.

The WAP browser supports functions which you can access while browsing. You can make a phone call while you are on a WAP page, send DTMF tones while a phone call is in progress, and save in the phone book a name and a phone number from a WAP page.

■ Ending a WAP connection

When you are using a WAP service, press **Options** and select *Quit*. When *Quit browsing?* is shown, press **Yes**. Alternatively, press .

■ Appearance settings of WAP browser

1. When no WAP connection is in progress

- Press **Menu**, select *Services*, *Settings* and *Appearance settings*.

When a WAP connection is in progress

- Press **Options** and select *Appear. sett.*

2. Select *Text wrapping* or *Show images*.

3. Select *On* or *Off* for *Text wrapping* and *Yes* or *No* for *Show images*.

When *Text wrapping* is set to *On*, the text continues on the next line if it cannot be shown on one line.

When *Show images* is set to *No*, any pictures appearing on the WAP page are not shown. This can speed up the browsing of WAP pages that contain a lot of pictures.

■ Download settings

You can set the phone to allow or prevent receiving cookies.

A cookie is data that a WAP site saves in your phone's browser cache memory. The data can be, for example, your user information or your browsing preferences. Cookies will be saved until you clear the cache memory, see The cache memory on page 100.

1. When no WAP connection is in progress

- Press *Menu*, select *Services*, *Settings* and *Download settings*.

When a WAP connection is in progress

- Press *Options* and select *Download settings*.

2. Select *Cookies* and select *Allow* or *Reject* to allow or prevent the phone receiving cookies.

■ Bookmarks

You can save up to 25 WAP page addresses as bookmarks in the phone's memory.

1. When no WAP connection is in progress

- Press *Menu*, select *Services* and then *Bookmarks*.

When a WAP connection is in progress

- Press **Options** and select **Bookmarks**.
2. Scroll to the bookmark you want to use and press **Options**.
 3. Select one of the following options:

Go to to make a connection to the WAP page associated with the bookmark.

Edit or **Erase** to modify or delete the selected bookmark.

Send to send the selected bookmark to another phone via SMS, **Via SMS**.

New bookmark to create a new bookmark without connection to a WAP service. Key in the address and the title of the WAP page and press **OK**.

Note that your phone may have some pre-installed bookmarks for sites not affiliated with Nokia. Nokia does not warrant or endorse these sites. If you choose to access them, you should take the same precautions, for security or content, as you would with any site.

Receiving a bookmark

When you have received a bookmark as an Over The Air (OTA) message, press **Options** and select **View** to view the bookmark, **Save** to save the bookmark, or **Discard** to discard it.

■ Service inbox

The phone is able to receive service messages (pushed messages) sent by your service provider. Service messages are notifications of, for example, news headlines, and they may contain a text message or address of a WAP service.

1. To access service inbox when no WAP connection is in progress

When you have received a service message, *1 service message received* will be displayed. Press **View** to access *Service inbox*.

If you press **Exit** the message is moved to *Service inbox*. To access *Service inbox* later, press **Menu**, select *Services*, and *Service inbox*.

When a WAP connection is in progress

Press **Options** and select *Service inbox*.

2. Scroll to the message you want and press **Options**.

Select *Retrieve* to activate the WML browser and the retrieving of the indicated content.

Select *Details* to display detailed information on the service notification.

Select *Erase* to delete the selected service notification.

To set the phone to receive service messages

Press **Menu**, select *Services*, *Settings*, *Service inbox settings*, and *Service messages*. To set the phone to receive service messages, select *On*. If you select *Off*, the phone will not receive service messages.

■ The cache memory



Note: The information or services you have accessed are stored in the cache of your phone. A cache is a buffer memory, which is used to store data temporarily. If you have tried to access or have accessed confidential information requiring passwords (for example, your bank account), empty the cache of your phone after each use.

To clear the cache memory when no WAP connection is in progress

- Press **Menu**, select **Services**, and **Clear the cache**.

To clear the cache memory when a WAP connection is in progress

- Press **Options** and select **Clear the cache**.

■ Authority certificates

For using some WAP services, such as banking services, you need an authority certificate. Using the certificate can help you to improve the security of connections between your phone and a WAP gateway or WAP server, if the **Connection security** is set **On**.

You can download the certificate from a WAP page if the WAP service supports the use of authority certificates. After the download, you can view the certificate and then save or delete it. If you save the certificate, it is added to the list of certificates in the phone.


You will see a note on the phone display if the identity of the WAP server or WAP gateway cannot be verified, if the WAP server or WAP gateway certificate is not authentic or if you do not have the right certificate in your phone.

Viewing the list of authority certificates

Press **Menu**, select **Services**, and **Settings**. Select **Authority certificates**.

See also **Security info** in General guidelines for using the phone keys on page 96.

Security indicator

If the security indicator  is displayed during a WAP connection, the data transmission between the phone and the WAP gateway or WAP server (identified by the *IP address* in the *Edit active service settings*) is encrypted.

However, the security indicator does not indicate that the data transmission between the gateway and the content server (place where the requested resource is stored) is secure. It is up to the service provider to secure the data transmission between the gateway and the content server.

20. Data communications

You can use your phone as a modem and transfer data to other devices when the phone is connected to a compatible PC via a cable.

To send and receive e-mail and to connect to computers and access the Internet, you also need the appropriate data communications software installed on your computer. You can use your phone with a variety of commercially available data communications applications.

For using your phone as a modem, you first need to install it as a modem.

■ Call functions during a data connection

You can make and receive phone calls during a data connection when data transfer is not in progress. After the call has ended, data transfer can start again.

Group calls and express calls are not possible during a data connection. The express calls made to you, however, are changed to one-way phone calls and you can receive them like phone calls.

■ Installing communication applications and modem drivers

1. Ensure that a data communication application is correctly installed on your PC. For instructions, see the application's documentation.
2. Install the necessary drivers on your PC. For instructions, see the user's guide of your PC's operating system.

Note that you have to define the DTE (data terminal equipment) rate when you install the drivers. The default DTE rate of your phone is 9600 bps. For example, if you use the Windows NT operating system, select a standard 9600 bps modem.

3. Activate an access point and change its settings in the *Modem settings* menu. See Modem settings (menu 6-7) on page 79.



■ Connecting your phone to a PC

You can connect your phone to a PC using the DLR-3P cable.

Note: Both the cable and the connector must be dry.

1. Connect the DLR-3P cable to the serial port on the back of your PC.
2. Connect the DLR-3P cable to your phone.
3. Start using the communication application on your PC. For information on the use of the application, refer to the documentation for the application.

If you use a PC in a vehicle, you can connect your phone to the PC via the CARK91T car kit. For details, contact your local dealer.

The indicator  is displayed during a data connection. If there is an incoming or outgoing phone call, data transfer is suspended and  is displayed instead.



Note: Making or answering phone calls during a PC connection is not recommended as it might disrupt the operation.

For better performance during data calls, place the phone 0.5 metres apart from the PC on a stationary surface with the keypad facing downward. Do not move the phone by holding it in your hand during a data call.

21. Battery information

Your phone is powered by a rechargeable battery. Take good care of the battery and follow the guidelines below.

■ Charging and discharging the battery

- Note that a new battery's full performance is achieved only after two or three complete charge and discharge cycles.
- The battery can be charged and discharged hundreds of times but it will eventually wear out. When the operating time (talk-time and stand-by time) is noticeably shorter than normal, it is time to buy a new battery.
- Use only batteries approved by the phone manufacturer and recharge your battery only with the chargers approved by the manufacturer.
- When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for longer than a week, since overcharging may shorten its life. If left unused a fully charged battery will discharge itself over time.
- Temperature extremes will affect the ability of your battery to charge: allow it to cool down or warm up first.
- When the battery is running out of power and only few minutes of talk time remain, a warning tone is heard and *Battery low* is briefly displayed. When no more talk time is left, *Battery empty* is displayed and a warning tone is sounded and the phone switches itself off.

Using the batteries

- Use the battery only for its intended purpose.
- Never use any charger or battery which is damaged or worn out.

- Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes direct connection of the + and - terminals of the battery (metal strips on the back of the battery) for example when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.
- Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 15°C and 25°C (59 F and 77 F). A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-Ion batteries performance is particularly limited in temperatures below -0°C (32 F).
- Do not dispose of batteries in a fire!



Batteries must be recycled or disposed of properly.

Must not be disposed of in municipal waste!

Care and maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you to fulfill any warranty obligations and to enjoy this product for many years. When using your phone, battery, charger OR any accessory:

- Keep it and all its parts and accessories out of small children's reach.
- Keep it dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.
- Do not use or store it in dusty, dirty areas. Its moving parts can be damaged.
- Do not store it in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store it in cold areas. When the phone warms up (to its normal temperature), moisture can form inside the phone, which may damage the electronic circuit board.
- Do not attempt to open it. Non-expert handling of the device may damage it.
- Do not drop, knock or shake it. rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint it. Paint can clog the device's moving parts and prevent proper operation.
- Use only the supplied or an approved replacement antenna. Unauthorised antennas, modifications or attachments could damage the phone and may violate regulations covering radio devices. Do not attempt to remove the antenna. Only qualified service personnel must remove or install the antenna.
- Do not carry the phone from its antenna because the antenna can be damaged.
- Do not attempt to change the front cover. Only qualified service personnel must change the front cover.
- If the phone, battery, charger or any accessory are not working properly, take them to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

Important safety information

■ Traffic safety

Do not use a hand-held telephone while driving a vehicle. If using a hand-held phone park the vehicle before conversing. Always secure the phone in its holder; do not place the phone on the passenger seat or where it can break loose in a collision or sudden stop.

The use of an alert device to operate a vehicle's lights or horn on public roads is not permitted.

Remember road safety always comes first!

■ Operating environment

Remember to follow any special regulations in force in any area and always switch off your phone whenever it is forbidden to use it, or when it may cause interference or danger.

When connecting the phone or any accessory to another device, read its user guide for detailed safety instructions. Do not connect incompatible products.

As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the equipment should only be used in the normal operating position. When the earphone is used, hold the phone as you would any telephone with the antenna pointed up and over your shoulder. When the loudspeaker is used, hold the phone approximately 10 cm (4 inches) away from the mouth with the antenna pointed up and away from the face and eyes.

Using two TETRA devices closely may cause them to interfere with each other, for example when two such devices are in the same vehicle. If you experience such interference, separate the two devices until the interference stops.

■ Electronic devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

Pacemakers

Pacemaker manufacturers recommend that a minimum separation of 20 cm (6 inches) be maintained between a hand-held wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemaker:

- Should always keep the phone more than 20 cm (6 inches) from their pacemaker when the phone is switched on;
- Should not carry the phone in a breast pocket;
- Should use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, switch off your phone immediately.

Hearing aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider.

Other medical devices

Operation of any radio transmitting equipment, including cellular phones, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions.

Switch off your phone in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles (e.g. electronic fuel injection systems, electronic anti-skid (anti-lock) braking systems, electronic speed control systems, air bag systems).

Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted facilities

Switch your phone off in any facility where posted notices so require.

■ Potentially explosive atmospheres

Switch off your phone when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Users are advised to switch off the phone when at a refuelling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include below deck on boats; chemical transfer or storage facilities; vehicles using liquified petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

■ Vehicles

Only qualified personnel should service the phone, or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty which may apply to the unit.

Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.

Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.

For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Switch off your phone before boarding an aircraft. The use of wireless telephones in an aircraft may be dangerous to the operation of the aircraft, disrupt the wireless telephone network and may be illegal.

Failure to observe these instructions may lead to suspension or denial of telephone services to the offender, or legal action or both.



■ Emergency calls



IMPORTANT! This phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as user-programmed functions which cannot guarantee connection in all conditions. Therefore, you should never rely solely upon any wireless phone for essential communications (e.g. medical emergencies).

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate cellular signal strength. Emergency calls may not be possible on all wireless phone networks or when certain network services and/or phone features are in use. Check with local cellular service providers.

To make an emergency call:

1. If the phone is not on, switch it on.
2. Press  as many times as needed (e.g. to exit a call, to exit a menu, etc.) to clear the display.
3. Key in the emergency number for your present location (e.g. 112 or other official emergency number). Emergency numbers vary by location.
4. Press the  key.

If certain features are in use (Keypad lock etc.), you may first need to turn those features off before you can make an emergency call. Consult this document and your local cellular service provider.

When making an emergency call, remember to give all the necessary information as accurately as possible.

Remember that your wireless phone may be the only means of communication at the scene of an accident - do not cut off the call until given permission to do so.