

User's Guide for Nokia 6610i phone



9230846
Issue 1

LEGAL INFORMATION

CE 168

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We, NOKIA CORPORATION declare under our sole responsibility that the product RM-37 is in conformity with the provisions of the following Council Directive:1999/5/EC. A copy of the Declaration of Conformity can be found at http://www.nokia.com/phones/declaration_of_conformity/.

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Asterisk (*) indicates design patents pending.

4868846	5519885	5827082	5966378	6112099	6266330
4969192	5526366	5835889	5970059	6115617	6282436
5001372	5553125	5839101	5987137	6118775	6285888
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5212834	5570369	5857151	5999523	6128322	6308084
5230091	5581244	5862178	6005857	6128509	6310609
5233634	5597102	5870683	6011853	6138091	6311054
5241284	5625274	5887266	6014573	6140966	6314166
5241583	5640395	5889770	6018277	6144243	6324412
5266782	5664004	5892475	6026161	6144676	6347218
5311151	5664053	5898925	6028567	6148209	6356759
5311179	5669069	5907823	6029128	6151485	6359904
5317283	5677620	5914690	6038238	6151507	6363259
5331638	5678224	5914796	6043760	6163609	6370362
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5446364	5794142	5960354	6094587	6240076	
5479476	5802465	5960389	6097964	6240079	
5487084	5805084	5963901	6105784	6249584	
5493255	5805301	5966374	6108553	6259312	

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FOR YOUR SAFETY

Read these simple guidelines. Not following them may be dangerous or illegal. Read the complete user guide for further information.



SWITCH ON SAFELY

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



ROAD SAFETY COMES FIRST

Obey all local laws. Always keep your hands free to operate the vehicle while driving. Your first consideration while driving should be road safety.



INTERFERENCE

All wireless phones may be susceptible to interference, which could affect performance.



SWITCH OFF IN HOSPITALS

Follow any restrictions. Switch the phone off near medical equipment.



SWITCH OFF IN AIRCRAFT

Follow any restrictions. Wireless devices can cause interference in aircraft.



SWITCH OFF WHEN REFUELLING

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



SWITCH OFF NEAR BLASTING

Follow any restrictions. Don't use the phone where blasting is in progress.



USE SENSIBLY

Use only in the normal position as explained in the product documentation. Don't touch the antenna unnecessarily.



QUALIFIED SERVICE

Only qualified personnel may install or repair this product.



ENHANCEMENTS AND BATTERIES

Use only approved enhancements 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.



BACK-UP COPIES

Remember to make back-up copies or keep a written record of all important information stored in your phone.





WATER-RESISTANCE

Your phone is not water-resistant. Keep it dry.



EMERGENCY CALLS

Ensure the phone is switched on and in service. Press  as many times as needed to clear the display and return to the start screen. Key in the emergency number, then press . Give your location. Do not end the call until given permission to do so.

■ ABOUT YOUR DEVICE

The wireless device described in this guide is approved for use on the EGSM 900, GSM 1800 and GSM1900 network. Contact your service provider for more information about networks.

When using the features in this device, obey all laws and respect privacy and legitimate rights of others.



Warning: To use any features in this device, other than the alarm clock, the device must be switched on. Do not switch the device on when wireless device use may cause interference or danger.

■ Network Services

To use the phone you must have service from a wireless service provider. Many of the features in this device depend on features in the wireless network to function. These Network Services may not be available on all networks or you may have to make specific arrangements with your service provider before you can utilize Network Services. Your service provider may need to give you additional instructions for their use and explain what charges will apply. Some networks may have limitations that affect how you can use Network Services. For instance, some networks may not support all language-dependent characters and services.

Your service provider may have requested that certain features be disabled or not activated in your device. If so, they will not appear on your device menu. Contact your service provider for more information.

■ Shared Memory

The following features in this device may share memory: phone book, text and multimedia messages, images and ringing tones in gallery, calendar, to-do notes, and Java games and applications. Use of one or more of these features may reduce the memory available for the remaining features sharing memory. For example, saving many images, bookmarks, Java applications, etc. may use all of the available memory. Your device may display a message that the memory is full when you try to use a shared memory feature. In this case, delete some of the information or entries stored in the shared memory features before continuing. Some of the features, such as cache, bookmarks, and security certificates may have a certain amount of memory specially allotted to them in addition to the memory shared with other features.

■ Enhancements and batteries

Always switch the device off and disconnect the charger before removing the battery.

Check the model number of any charger before use with this device. This device is intended for use when supplied with power from ACP-12, ACP-8, ACP-7, LCH-9, and LCH-12.



Warning: Use only batteries, chargers, and enhancements approved by Nokia for use with this particular model. The use of any other types may invalidate any approval or warranty, and may be dangerous.

For availability of approved enhancements, please check with your dealer. When you disconnect the power cord of any enhancement, grasp and pull the plug, not the cord.

Your device and its enhancements may contain small parts. Keep them out of reach of small children.

A few practical rules about accessories and enhancements.

- Keep all accessories and enhancements out of the reach of small children.
- When you disconnect the power cord of any accessory or enhancement, grasp and pull the plug, not the cord.
- Check regularly that enhancements installed in a vehicle are mounted and are operating properly.
- Installation of any complex car enhancements must be made by qualified personnel only.

General information

■ Access codes

Security code (5 to 10 digits)

The security code helps to protect your phone against unauthorised use. The pre-set code is 12345. Change the code, and keep the new code secret and in a safe place separate from your phone. To change the code, and to set the phone to request the code, see Security settings on page 62.

PIN and PIN2 codes (4 to 8 digits), Module PIN and Signing PIN

- The PIN (Personal Identification Number) code protects your SIM card against unauthorised use. The PIN code is usually supplied with the SIM card. Set the phone to request the PIN code each time the phone is switched on, see Security settings on page 62.
- The PIN2 code may be supplied with the SIM card and is required to access some functions, such as charging unit counters.
- The module PIN is required to access the information in the security module. See Security module on page 90. The module PIN is supplied with the SIM card if the SIM card has a security module in it.
- The signing PIN is required for the digital signature. See Digital signature on page 92. The signing PIN is supplied with the SIM card if the SIM card has a security module in it.

If you key in an incorrect PIN code three times in succession, the phone may display *SIM blocked* or *PIN code blocked*, for example, and ask you to enter the PUK code.

PUK and PUK2 codes (8 digits)

The PUK (Personal Unblocking Key) code is required to change a blocked PIN code. The PUK2 code is required to change a blocked PIN2 code.

If the codes are not supplied with the SIM card, contact your network operator or service provider for the codes.

Barring password (4 digits)

The barring password is required when using the [Call barring service](#), see Security settings on page 62. You can obtain the password from your service provider.

Wallet code (4 to 10 digits)

The wallet code is required to access the wallet services. If you key in an incorrect wallet code several times, the wallet application is blocked for five minutes. For further information, see Wallet on page 78.

Overview of the functions of the phone

Your phone provides many functions, which are practical for daily use, such as a calendar, a clock, an alarm clock, a camera, a radio, and many more.

■ Camera

Your phone has a built-in camera that can be used for taking pictures. For sending a picture via the Multimedia Messaging Service (MMS), see Multimedia messages on page 37, see Camera (Menu 7) on page 65. The pictures can also be used as wallpapers in standby mode or as thumbnail pictures in [Contacts](#).

You can save your pictures in a compatible PC using the PC Suite software.

■ Multimedia messaging service (MMS)

The phone is able to send and receive multimedia messages composed of text, sound and a picture. You can save the pictures and ringing tones for personalising your phone. See Multimedia messages on page 37.

■ Polyphonic sound (MIDI)

Polyphonic sound consists of several sound components played at the same time. Your phone has sound components from over 40 instruments, but the phone can only play a few instruments at the same time. Polyphonic sounds are used, for example, in ringing tones and message alert tones. The phone supports Scalable Polyphonic MIDI (SP-MIDI) format.

You can receive polyphonic ringing tones via a multimedia service, see Reading and replying to a multimedia message on page 39, or you can download them via the gallery menu, see Gallery (Menu 8) on page 66 or via PC suite, see PC Suite on page 94.

■ Java™ applications

Your phone supports Java 2 Micro Edition, J2ME™, and includes some Java™ applications and games that have been specially designed for mobile phones. You can download new applications and games to your phone, see Applications (Menu 11) on page 73.

■ General Packet Radio Service (GPRS)

GPRS technology is a network service that allows mobile phones to be used for sending and receiving data over an Internet Protocol (IP) -based network. GPRS is a data bearer that enables wireless access to data networks such as the Internet. The applications that may use GPRS are MMS and SMS messaging (SMS, Short Message Service), browsing sessions, Java application downloading and the PC dial-up (for example, Internet and e-mail).

Note that your phone supports three simultaneous GPRS connections. For example, you can receive multimedia messages and, at the same time, have an ongoing PC dial-up connection or browsing session.

Before you can use GPRS technology

- Contact your network operator or service provider for availability and subscription to the GPRS service.
- Save the GPRS settings for each of the applications used over GPRS.
See Setting up the phone for a service on page 84, Message settings on page 42 and GPRS on page 83.

Pricing for GPRS and applications

For more detailed information on pricing, contact your network operator or service provider.

■ Over the Air (OTA) settings service

In order to use MMS, GPRS and other wireless services, you need to have proper settings on your phone. You may be able to receive the settings directly as an OTA message and you need to save the settings on your phone. For more information on the availability of the settings, contact your network operator, service provider or nearest authorised Nokia dealer.

1. Your phone

■ Keys and connectors

1. Power key

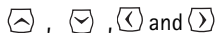
Switches the phone on and off.

When the keypad is locked, pressing the power key briefly turns the phone's display lights on for approximately 15 seconds.

2. Volume keys

Adjust the volume of the earpiece or the loudspeaker, or the headset when it is connected to the phone.

3. 4-way scroll keys



Enables, for example, scrolling through

contacts, menus or settings and in calendar, or moving the cursor when writing text.



4. Selection keys and

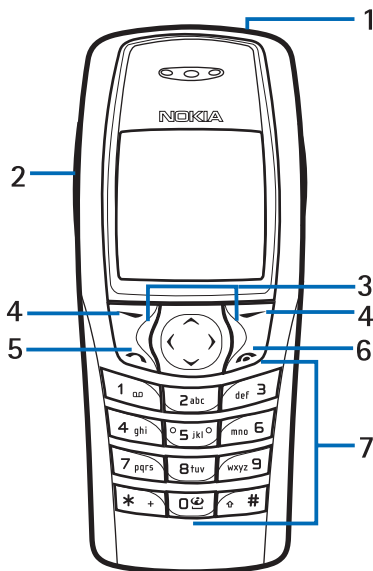
The function of these keys depends on the guiding text shown on the display above the keys. See Standby mode on page 13.

5. dials a phone number, and answers a call. In standby mode it shows the list of the most recently called numbers.

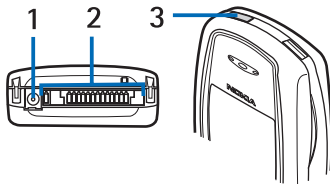
6. ends an active call. Exits from any function.

7. - enter numbers and characters.

 and  are used for various purposes in different functions.



1. Charger connector
2. Pop-Port™ connector used, for example, for headsets and the data cable.
3. Infrared (IR) port



4. Camera lens on the back cover of the phone.



■ Standby mode

When the phone is ready for use, and you have not keyed in any characters, the phone is in standby mode.

1. Shows the name of the network or the operator logo to indicate in which cellular network the phone is currently being used.
2. Shows the signal strength of the cellular network at your current location. The higher the bar, the stronger the signal.
3. Shows the battery charge level. The higher the bar, the more power in the battery.
4. The left selection key in standby mode is **Menu**.
5. The right selection key in standby mode is **Contacts** or **Go to** or it has an operator specific name. If you press the right selection key when it is
 - **Contacts**, you can access the **Contacts** menu.
 - the operator specific key, you can access an operator's homepage.
 - **Go to**, you can then scroll to the specific function and select it. To set the functions for your personal shortcut, see Personal shortcuts on page 54. Same functions can also be activated if you select the menu **Go to**, see Go to (Menu 15) on page 93.










Screen saver









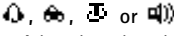
The phone automatically activates a screen saver in standby mode after a certain length of time if no phone function is used. See Screen saver on page 60. Press any key to deactivate the screen saver.

Wallpaper

You can set your phone to display a background picture, wallpaper, when the phone is in standby mode. See Wallpaper on page 59.

Essential indicators in standby mode

-  You have received one or several text or picture messages. See Reading and replying to an SMS message or an e-mail on page 34.
-  You have received one or several multimedia messages. See Reading and replying to a multimedia message on page 39.
-  The phone's keypad is locked. See Keypad lock (Keyguard) on page 20.
-  The phone does not ring for an incoming call or text message when *Incoming call alert* is set to *Off* and *Message alert tone* is set to *Off*. See Tone settings on page 60.
-  The alarm clock is set to *On*. See Alarm clock on page 68.
-  The countdown timer is running. See Countdown timer on page 76.
-  The stopwatch is running in the background. See Stopwatch on page 77.
-  When the GPRS connection mode *Always online* is selected and the GPRS service is available, the indicator is shown on the top left of the display. Refer to GPRS connection on page 83.
-  When a GPRS connection is established, the indicator is shown on the top left of the display. Refer to GPRS connection on page 83 and Browsing the pages of a service on page 86.

-  The GPRS connection is suspended (on hold), for example if there is an incoming or outgoing call during a GPRS dial-up connection. The indicator is shown on the top right of the display.
-  Infrared connection indicator, see Infrared on page 82.
-  All your calls are diverted to another number, *Divert all voice calls*. If you have two phone lines, the divert indicator for the first line is  and for the second line . See Call divert on page 56.
- 1 or 2** If you have two phone lines, the indicator displays the selected phone line. See Line for outgoing calls on page 57.
-  The loudspeaker has been activated, see Options during a call on page 24.
-  Calls are limited to a closed user group. See Security settings on page 62.
-  The timed profile is selected. See Profiles (Menu 4) on page 53.
-  A headset, handsfree, loopset or music stand enhancement is connected to the phone.

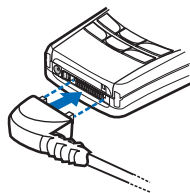
To enable the phone to show the time and date in standby mode, see Clock on page 55 and Date on page 55.

■ Headset



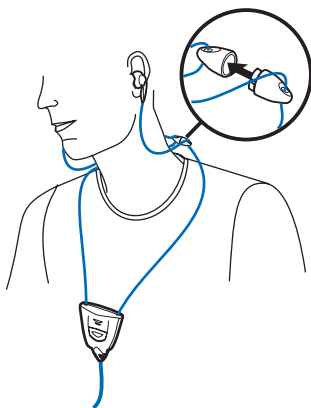
Warning: When using the stereo headset your ability to hear outside sounds may be affected. Do not use the stereo headset where it can endanger your safety.

Connect your headset to the Pop-Port connector as shown in the picture.



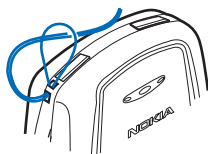
Your phone

You can carry the stereo headset HDS-3 as shown in the picture.



■ Putting on the wrist strap

Thread the strap as shown in the picture and then tighten it.



2. Getting started

■ Installing the SIM card and the battery

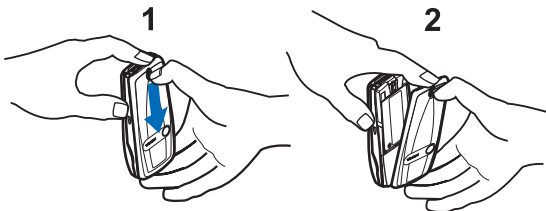
Keep all SIM cards out of the reach of small children. For availability and information on using SIM card services, contact your SIM card vendor. This may be the service provider, network operator, or other vendor.

The SIM card and its contacts can easily be damaged by scratches or bending, so be careful when handling, inserting or removing the card.

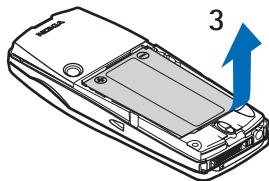
Before installing the SIM card, always make sure that the phone is switched off and disconnected from any enhancement and then remove the battery.

1. To remove the back cover from the phone:

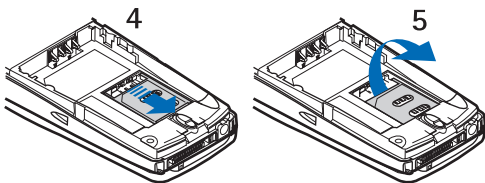
With the back of the phone facing you, push the back cover release button (1) and remove the cover from the phone (2).



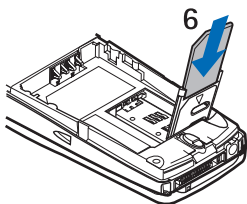
2. Remove the battery by lifting it from the end from the finger grip (3).



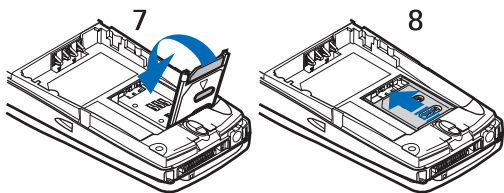
- To release the SIM card holder, slide the card holder backwards (4) and open it by lifting (5).



- Insert the SIM card into the SIM card holder (6). Make sure that the SIM card is properly inserted and that the golden contact area on the card is facing downwards.

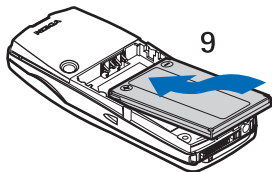


- Close the SIM card holder (7) and slide it forwards to lock it (8).

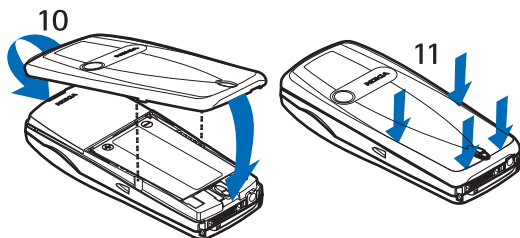


- Replace the battery (9).
- To replace the back cover:

First place the top of the back cover over the locking catch on the top of the phone (10). Direct the back



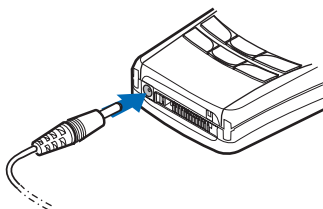
cover towards the locking catches on both sides of the phone and press to lock the cover into place (11).



■ Charging the battery

1. Connect the lead from the charger to the socket on the bottom of your phone.
2. Connect the charger to an AC wall socket.


The text *Charging* is displayed briefly if the phone is switched on. If the battery is completely flat, it may take a few minutes before the charging indicator appears on the display or before any calls can be made.



You can use the phone while the charger is connected.

The charging time depends on the charger and the battery used. For example, charging a BLD-3 battery with the ACP-12 charger takes up to one hour and 30 minutes while the phone is in standby mode.

■ Switching the phone on and off

Press and hold the power key .

Note that if the phone displays *Insert SIM card* even though the SIM card is properly inserted, or *SIM card not supported*, contact your network operator or service provider. Your phone does not support 5-Volt SIM cards and the card may need to be changed.



- If the phone asks for a PIN code, key in the PIN code (displayed as ****), and press **OK**.

See also *PIN code request* in Security settings on page 62 and Access codes on page 8.

- If the phone asks for a security code, key in the security code (displayed as *****), and press **OK**.

See also Access codes on page 8.

Your device has an internal antenna.




Note: As with any other radio transmitting device, do not touch the antenna unnecessarily when the device is switched on. Contact with the antenna affects call quality and may cause the device to operate at a higher power level than otherwise needed. Avoiding contact with the antenna area when operating the device optimises the antenna performance and the battery life.




■ Keypad lock (Keyguard)


You can lock the keypad to prevent the keys being accidentally pressed, for example, when your phone is in your handbag.

- **Locking the keypad**

In standby mode, press **Menu** and then  within 1.5 seconds.


- **Unlocking the keypad**

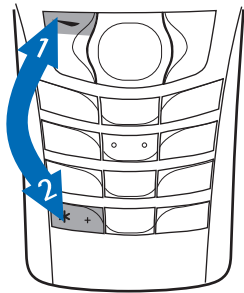
Press **Unlock** and then  within 1.5 seconds.

To answer a call when the keyguard is on, press . During a call, the phone can be operated normally. When you end or reject the call, the keypad will automatically be locked.

For automatic keypad locking, see Automatic keypad on page 58.

For locking the keypad during a call, see Options during a call on page 24.

When the keyguard is on, calls still may be possible to the official emergency number programmed into your device. Key in the emergency number and press .

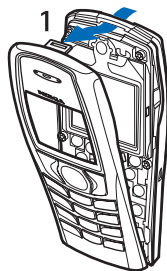


■ Changing the covers

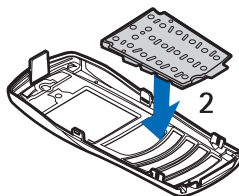


Note: Before removing the cover, always switch off the power and disconnect the charger and any other device. Avoid touching electronic components while changing the covers. Always store and use the device with the covers attached.

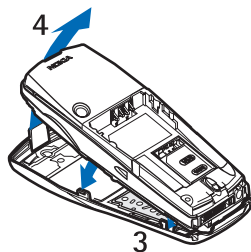
1. Remove the back cover from the phone. See step 1 in Installing the SIM card and the battery on page 17.
2. To remove the front cover, gently pull the locking catch on the top of the front cover from the locking hole in the phone (1) and remove the cover starting from the top.



3. Place the key mat on the new front cover (2).



4. To replace the front cover, first place the catches on the lower part of the cover into the corresponding holes on the phone (3) and then gently push the catch on the top of the cover through the locking hole on the top of the phone (4). Press the cover into place.






5. Replace the back cover of the phone. See step 7 in Installing the SIM card and the battery on page 17.

3. Call functions

■ Making a call


1. Key in the phone number, including the area code. If you key in an incorrect character, press **Clear** to delete it.

For international calls, press  twice for the international prefix (the + character replaces the international access code) and then key in the country code, the area code without the leading 0, if necessary, and the phone number.



2. Press  to call the number.
3. Press  to end the call or to cancel the call attempt.

See also Options during a call on page 24.




Making a call using contacts

- To search for a name/phone number that you have saved in **Contacts**, see Searching for a name in contacts on page 49. Press  to call the number.

Last number redialling



- In standby mode, press  once to access the list of the most recent 20 numbers that you called or attempted to call. Scroll to the number or name that you want, and press  to call the number.


Calling your voice mailbox

- In standby mode, press and hold , or press  and .



If the phone asks for the voice mailbox number, key it in and press **OK**. See also Voice messages on page 42.

Speed dialling a phone number

Before you can use speed dialling, assign a phone number to one of the speed-dialling keys, from  to , see Speed dials on page 52. Call the number in either of the following ways:

- Press the speed-dialling key that you want and then press .
- If **Speed dialling** is set to on, press and hold a speed-dialling key until the call is started. See Speed dialling on page 56.

■ Answering or rejecting an incoming call

Press  to answer an incoming call and press  to end the call.

Press  to reject an incoming call.

If you press **Silence**, only the ringing tone is muted. Then either answer or reject the call.



If a compatible headset supplied with the headset key is connected to the phone, you can answer and end a call by pressing the headset key.



Tip: If the *Divert if busy* function is activated to divert the calls, for example to your voice mailbox, rejecting an incoming call will also divert the call. See Call divert on page 56.

Note that when somebody is calling you, the phone shows the caller's name, phone number or the text *Private number* or *Call*. If more than one name is found in *Contacts* with the same seven last digits of the phone number as the caller's number, only the phone number will be displayed, if this is available. The phone may display an incorrect name, if the caller's number is not saved in *Contacts* but there is another name saved with the same seven last digits in the phone number as in the phone number of the caller.

Call waiting

During a call, press  to answer the waiting call (network service). The first call is put on hold. Press  to end the active call.

To activate the *Call waiting* function, see Call waiting on page 57.


■ Options during a call

Many of the options that you can use during a call are network services. For availability, contact your network operator or service provider.

Press **Options** during a call for some of the following options:

- *Mute* or *Unmute*, *End call*, *End all calls*, *Contacts*, *Menu* and *Hold* or *Unhold*, *New call*, *Private*, *Answer* and *Reject*.
- *Conference* to make a conference call that allows up to six persons to take part in a conference call. During a call, make a call to a new

participant (*New call*). The first call is put on hold. When the new call has been answered, select *Conference* to include the first participant in the conference call. To have a private conversation with one of the participants, select *Private* and select the desired participant. To rejoin the conference call after a private conversation, select *Conference*.

- *Lock keypad* to activate the keypad lock.
- *Send DTMF* to send DTMF (Dual Tone Multi-Frequency) tone strings, for example passwords or bank account numbers. The DTMF system is used by all touch-tone telephones. Key in the DTMF string or search for it in *Contacts* and press **OK**. Note that you can key in the wait character w and the pause character p by repeatedly pressing .
- *Swap* to switch between the active call and the call on hold, *Transfer* to connect a call on hold to an active call, and disconnect yourself from the calls.
- *Loudspeaker* to use your phone as a loudspeaker during a call. Do not hold the phone to your ear during loudspeaker operation. To activate/deactivate the loudspeaker, select *Loudspeaker/Handset* or press *Loudsp./Handset*, respectively. The loudspeaker is automatically deactivated when you end the call or call attempt, or connect the handsfree unit or headset to the phone.

If you have connected a compatible handsfree unit or the headset to the phone, *Handset* in the options list is replaced with *Handsfree* or *Headset* and the selection key *Handset* with *Handsfr.* or *Headset*, respectively.







Warning: Do not hold the device near your ear when the loudspeaker is in use, because the volume may be extremely loud.

Using the loudspeaker with the radio, see Using the radio on page 64.

4. Writing text

You can key in text, for example, when writing messages, using traditional or predictive text input.


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

■ Setting predictive text input on or off

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



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








Tip: To quickly set the 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. The predictive text input is based on a built-in dictionary to which you can also add new words.


1. Start writing a word using the keys  to . Press each key only once for one letter. The word changes after each keystroke.




Example: To write **Nokia** when the English dictionary is selected, press , , ,  and .

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

For more instructions for writing text, see *Tips for writing text* on page 27.

- When you have finished writing the word and it is correct, confirm it by adding a space with  or by pressing any of the scroll keys. Pressing a scroll key also moves the cursor.


If the word is not correct,

press  repeatedly or press **Options** and select **Matches**. When the word that you want appears, confirm it.



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.

- 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 the word.

■ Using traditional text input

Press a number key,  to , repeatedly until the desired character 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 on page 57.






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 any of the scroll keys and then key in the letter.
- The most common punctuation marks and special characters are available under the number key .



More instructions for writing text, see Tips for writing text on page 27.

■ Tips for writing text






The following functions may also be available for writing text:

- To insert a space, press .
- To move the cursor to the left, right, down or up, press the scroll keys , ,  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 delete all the characters at once when writing a message, press **Options** and select *Clear text*.

- To insert a word when using the predictive text input, press **Options** and select *Insert word*. Write the word using the traditional text input and press **Save**. The word is also added to the dictionary.
- To insert a special character when using the traditional text input, press , or when using the predictive text input, press and hold , or press **Options** and select *Insert symbol*.

Press any of the scroll keys to scroll to a character and press **Use** to select the character.

You can also scroll to a character by pressing , ,  or , and select the character by pressing .

The following options are available when writing text messages:



- To insert a phone number while in letter mode, press **Options** and select *Insert number*. Key in the phone number or search for it in *Contacts* and press **OK**.
- To insert a name from *Contacts*, press **Options** and select *Insert contact*. To insert a phone number or a text item attached to the name, press **Options** and select *View details*.

5. Using the menu

The phone offers you an extensive range of functions, which are grouped into menus. Most of the menu functions are provided with a brief help text. To view the help text, scroll to the menu function you want and wait for 15 seconds. To exit the help text, press **Back**. See Help text activation on page 59.



■ Accessing a menu function

By scrolling

1. To access the menu, press **Menu**.
2. Scroll with  or  through the menu (or with any of the scroll keys if the grid menu view is selected), and select, for example, **Settings** by pressing **Select**. To change the menu view, see Menu view on page 60.
3. If the menu contains submenus, select the one that you want, for example **Call settings**.
4. If the selected submenu contains further submenus, repeat step 3. Select the next submenu, for example **Anykey answer**.
5. Select the setting of your choice.
6. Press **Back** to return to the previous menu level, and **Exit** to exit the menu.









By using a shortcut

The menus, submenus and setting options are numbered and you can access some of them by using their shortcut number.









To access the menu, press **Menu**. Key in quickly, within two seconds, the index number of the menu function you want to access. Note that to access the menu functions in menu 1, press **Menu** and key in  and  and then key in the rest of the desired shortcut number.

Press **Back** to return to the previous menu level, and **Exit** to exit the menu.

List of menu functions

- | | | | |
|---|---|--|---|
| <p>1. Messages</p> <ol style="list-style-type: none"> 1. Text messages 2. Multimedia msgs. 3. Chat 4. Voice messages 5. Info messages 6. Message settings 7. Service commands |  | <p>4. Profiles</p> <ol style="list-style-type: none"> 1. General 2. Silent 3. Meeting 4. Outdoor 5. Pager |  |
| <p>2. Call register</p> <ol style="list-style-type: none"> 1. Missed calls 2. Received calls 3. Dialed numbers 4. Delete recent call lists 5. Call duration 6. Call costs 7. GPRS data counter 8. GPRS connection timer |  | <p>5. Settings</p> <ol style="list-style-type: none"> 1. Personal shortcuts 2. Time and date settings 3. Call settings 4. Phone settings 5. Display settings 6. Tone settings 7. Enhancement settings³ 8. Security settings 9. Restore factory settings |  |
| <p>3. Contacts</p> <ol style="list-style-type: none"> 1. Search 2. Add contact 3. Delete 4. Copy 5. Settings 6. Speed dials 7. Info numbers¹ 8. Service numbers¹ 9. My numbers² 10. Caller groups² |  | <p>6. Radio</p> |  |
| | | <p>7. Camera</p> <ol style="list-style-type: none"> 1. Standard photo 2. Portrait photo 3. Night mode 4. Self-timer 5. Settings |  |
| | | <p>8. Gallery</p> <ol style="list-style-type: none"> 1. View folders 2. Add folder 3. Delete folder |  |

-
1. Shown if supported by your SIM card. For availability, contact your network operator or service provider.
 2. If Info numbers, Service numbers or both are not supported, the number of this menu item changes accordingly.
 3. This menu is shown only if the phone is or has been connected to a compatible enhancement available for the phone.

- | | | | |
|------------------------|---|------------------------------------|---|
| 4. Rename folder | | 3. Stopwatch | |
| 5. Gallery downloads | | 4. Wallet | |
| 9. Organiser |  | 5. Synchronisation | |
| 1. Alarm clock | | 13.Connectivity |  |
| 2. Calendar | | 1. Infrared | |
| 3. To-do list | | 2. GPRS | |
| 10.Games |  | 14.Services |  |
| 1. Select game | | 1. Home | |
| 2. Game downloads | | 2. Bookmarks | |
| 3. Memory | | 3. Download links | |
| 4. Settings | | 4. Service inbox | |
| 11.Applications |  | 5. Settings | |
| 1. Select application | | 6. Go to address | |
| 2. App. downloads | | 7. Clear the cache | |
| 3. Memory | | 15.Go to |  |
| 12.Extras |  | 16.SIM services¹ |  |
| 1. Calculator | | | |
| 2. Countdown timer | | | |

1. Only shown if supported by your SIM card. The name and contents may vary depending on the SIM card

6. Menu functions

■ Messages (Menu 1)



You can read, write, send and save text, multimedia and e-mail messages. All messages are organised into folders.

Before you can send any text, picture, or e-mail message, you need to save your message centre number, see Message settings on page 42.



Important: E-mail messages or multimedia message objects may contain viruses or otherwise be harmful to your device or PC. Do not open any attachment if you are not sure of the trustworthiness of the sender.

sender.



Note: When sending messages, your device may display the words "*Message Sent*". This is an indication that the message has been sent by your device to the message centre number programmed into your device. This is not an indication that the message has been received at the intended destination. For more details about messaging services, check with your service provider.

your device to the message centre number programmed into your device. This is not an indication that the message has been received at the intended destination. For more details about messaging services, check with your service provider.

Text messages (SMS)

Using SMS (Short Message Service), your phone can send and receive multi-part messages, which consist of several ordinary text messages (network service). Sending multipart messages may affect invoicing. Consult your service provider for more details.

You can also send and receive text messages that contain pictures.

Your device supports the sending of text messages beyond the normal 160-character limit. If your message exceeds 160 characters, it will be sent as a series of two or more messages.

The number of available characters / the current part number of a multi-part message are shown on the top right of the display, for example 120/2.

Note that using special (Unicode) characters such as ã, â, á, ì take up more space.




Note: Picture message function can be used only if it is supported by your network operator or service provider. Only devices that offer picture message features can receive and display picture messages.

Writing and sending messages

1. Press **Menu**, and select **Messages**, **Text messages** and **Create message**.



Tip: To start writing messages quickly, press  in standby mode.

2. Key in a message. See **Writing text** on page 26. To insert text templates or a picture into the message, see **Templates** on page 36. Each picture message is made up of several text messages. Therefore, sending one picture message may cost more than sending one text message.
3. To send the message, press **Options** and select **Send**.
4. Enter the recipient's phone number or search for the phone number in **Contacts**.
Press **OK** to send the message.

Options for sending a message

After you have written a message, press **Options** and select **Sending options**.

- To send a message to several recipients, select **Send to many**. When you have sent the message to everyone you want to send it to, press **Done**.
- To send a message using a distribution list, select **Send to list**.
To create a distribution list, see **Distribution lists** on page 35.
- To send a message using a message profile, select **Sending profile** and then the desired message profile.
To define a message profile, see **Message settings** on page 42.

Writing and sending e-mail

Before you can send an e-mail via SMS, you need to save the settings for sending e-mail, see **Message settings** on page 42. To check e-mail service availability and to subscribe to the service, contact your network operator or service provider. To save an e-mail address in **Contacts**, see **Saving multiple numbers and text items per name** on page 48.


1. Press **Menu**, and select *Messages*, *Text messages* and *Create SMS e-mail*.
2. Key in the recipient's e-mail address or search for it in *Contacts* and press **OK**.
3. If you wish, you can key in a subject for the e-mail and press **OK**.
4. Key in the e-mail message. See Writing text on page 26. The total number of characters that you can key in is shown on the top right of the display. The e-mail address and subject are included in the total number of characters.


See also Inserting a text template into a message or into an e-mail on page 36. Pictures cannot be inserted.

5. To send the e-mail, press **Options** and select *Send e-mail*. If you have not saved the settings for sending e-mails, the phone asks for the number of the e-mail server.

Press **OK** to send the e-mail.

Reading and replying to an SMS message or an e-mail

When you have received a message or an e-mail, the indicator  and the number of new messages followed by *messages received* are shown.


The blinking  indicates that the message memory is full. Before you can receive new messages, delete some of your old messages in the *Inbox* folder.

The text messages function uses shared memory, see Shared Memory on page 7.

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

Reading the message later:

Press **Menu**, and select *Messages*, *Text messages* and *Inbox*.

2. If more than one message has been received, select the one that you want to read. An unread message is indicated by  in front of it.
3. While reading or viewing the message, press **Options**.

You can select an option, for example, to delete, forward or edit the message as a text message or an e-mail, rename the message you are reading or to move it to another folder.

Select *Copy to calendar* to copy text at the beginning of the message to your phone's calendar as a reminder note for the current day.

Select *Message details* to view, if available, the sender's name and phone number, the message centre used, and the date and time of receipt.

Select *Use detail* to extract numbers, e-mail addresses and website addresses from the current message.

When reading a picture message, select *Save picture* to save the picture in the *Templates* folder.

4. Select *Reply* to reply to a message. Select *Original text* to include the original message in the reply, or select a standard answer to be included in the reply, or select *Empty screen*.

When replying to an e-mail, confirm or edit the e-mail address and subject first. Then write your reply message.

5. Press *Options*, select *Send*, and press *OK* to send the message to the displayed number.

Inbox and sent items folders

The phone saves incoming text messages in the *Inbox* folder and sent messages in the *Sent items* folder of the *Text messages* submenu.

Text messages that you wish to send later can be saved in the *Archive*, *My folders* or *Templates* folder.

Distribution lists

If you need to send messages frequently to a fixed group of recipients, you can define a distribution list for that purpose. You can save these distribution lists in the phone's memory. Note that the phone sends the message separately to each recipient on the list. Therefore, sending a message using a distribution list may cost more than to send a message to one recipient.

Make sure that the contacts you want to add to the distribution lists, are saved in the phone's internal contact memory.

Press *Menu*, and select *Messages*, *Text messages* and *Distribution lists*. The names of the available distribution lists are shown.



- If you have not saved any lists, press *Add* to create one.

- Key in the name for the list and press **OK**. Press **Options**, and select **View list**. Press **Add** and select a contact from the phone's contact memory. To add more contacts to the created list, press **Options**, select **Add contact** and select a new contact.
- Otherwise, scroll to a list, press **Options** and you can select
 - **View list** to view the contacts on the selected list. Press **Options** and you can also delete or view details of a selected contact or add a new contact.
 - **Add list** to create a distribution list.
 - **Rename list** to change the name of the selected list.
 - **Clear list** to delete all names and phone numbers from the selected list.
 - **Delete list** to delete the selected distribution list.

If the message cannot be sent to certain recipients on the distribution list, select **Undelivered**. Press **Options** and select

- **Resend to list** to resend the message to the recipients on the **Undelivered** list.
- **View list** to view the list of the recipients to whom the latest message sending failed.
- **Delete list** to delete the **Undelivered** list.
- **View message** to view the failed message.

Templates


Your phone includes text templates, indicated by , and picture templates, indicated by .

To access the template list, press **Menu**, and select **Messages**, **Text messages** and **Templates**.

Inserting a text template into a message or into an e-mail

- When you are writing or replying to a message or an e-mail, press **Options**. Select **Use template** and select the template that you want to insert.

Inserting a picture into a text message

- When you are writing or replying to a message, press **Options**. Select **Insert picture** and select a picture to view it. Press **Insert** to insert the picture into your message. The  indicator in the header of the message indicates that a picture has been attached. The number of characters that you can enter in a message, depends on the size of the picture.

To view the text and the picture together before sending the message, press **Options** and select **Preview**.

Archive folder and My folders

To organise your messages, you can move some of them to the **Archive** folder, or add new folders for your messages.

While reading a message, press **Options**. Select **Move**, scroll to the folder that you want to move the message to and press **Select**.

To add or delete a folder, press **Menu**, and select **Messages, Text messages** and **My folders**.

- To add a folder, press **Options** and select **Add folder**.
- To delete a folder, scroll to the folder that you want to delete, press **Options** and select **Delete folder**.

Multimedia messages



Note: Only devices that offer compatible multimedia message or e-mail features can receive and display multimedia messages.

A multimedia message can contain text, sound and a picture. The phone supports multimedia messages that are up to 45 kB in size. If the maximum size is exceeded, the phone may not be able to receive the message. Depending on the network, you may receive a text message that includes an Internet address where you can view the multimedia message.

If the message contains a picture, the phone scales it down to fit the display area.

The default setting of the multimedia message service is generally on.

The appearance of a multimedia message may vary depending on the receiving device.

Multimedia messaging supports the following formats:

- Picture: JPEG, GIF, PNG, and BMP.
- Sound: Scalable Polyphonic MIDI (SP-MIDI) and monophonic ringing tones.



The phone does not necessarily support all variations of the aforementioned file formats. If a received message contains any unsupported elements, they may be replaced with the file name and the text *Object format not supported*.

Note that you are not able to receive any multimedia messages if you have a call in progress, a game or another Java application running, or an active browsing session over GSM data (see Keying in the service settings manually on page 85). Because delivery of multimedia messages can fail for a variety of reasons, do not rely solely upon them for essential communications.

Writing and sending a multimedia message

To set the settings for multimedia messaging, see Settings for multimedia messages on page 44. To check availability and to subscribe to the multimedia messaging service, contact your network operator or service provider.


1. Press **Menu**, and select *Messages*, *Multimedia msgs.* and *Create message*.
2. Key in a message. See Writing text on page 26.

To insert a picture or a sound clip, press **Options**, and select *Insert image* or *Insert sound clip*, respectively. The list of available folders in the *Gallery* is shown. Open a specific folder, scroll to the desired picture or sound, press **Options** and select *Insert*. The  or  indicator in the header of the message indicates that a picture or sound has been attached.

To insert a name from *Contacts*, press **Options**, select *More options* and *Insert contact*. Scroll to the desired name, press **Options** and select *Insert contact*.

To insert a number, press **Options**, select *More options* and *Insert number*. Key in the number or search for it in *Contacts*, and press **OK**.



3. To view the message before sending it, press **Options** and select *Preview*.
4. To send the message, press **Options** and select *Send to number* (or *Send to e-mail* or *Send to many*).
5. Enter the recipient's phone number (or e-mail address) or search for it in *Contacts*. Press **OK** and the message is moved to the *Outbox* folder for sending.


It takes more time to send a multimedia message than to send a text message. While the multimedia message is being sent, the animated indicator  is displayed and you can use other functions on the phone. If there is an interruption while the message is being sent, the phone tries to resend it a few times. If this fails, the message will remain in the *Outbox* folder and you can try to resend it later.

The messages that you have sent will be saved in the *Sent items* folder if the setting *Save sent messages* is set to *Yes*. See Settings for multimedia messages on page 44. This is not an indication that the message has been received at the intended destination.

Copyright protections may prevent some images, ringing tones, and other content from being copied, modified, transferred or forwarded.

Reading and replying to a multimedia message

When your phone is receiving a multimedia message, the animated indicator  is displayed. When the message has been received, the indicator  and the text *Multimedia message received* are shown.

The blinking  indicates that the memory for multimedia messages is full, see Multimedia messages memory full on page 40.

The multimedia message function uses shared memory, see Shared Memory on page 7.

1. Press **Show** to view the message, or press **Exit** to view it later.
Reading the message later: Press **Menu**, and select *Messages*, *Multimedia msgs.* and *Inbox*.
2. Scroll to view the message. Press **Options** and some of the following options may be available:
 - *Delete message* to delete a saved message.

- *Reply* or *Reply to all* to reply to the message. To send the reply, refer to Writing and sending a multimedia message on page 38
- *Forward to no.*, *Forward to e-mail* or *Send to many* to forward the message.
- *Edit* to edit a message. You can only edit messages you have created. See Writing and sending a multimedia message on page 38.
- *Message details* to view the subject, size and the type of message.
- *Details* to view the details of the attached image or sound.
- *Save sound clip* to save the ringing tone in the *Gallery*.
- *Save image* to save the picture in the *Gallery*.

Refer also to the file options in *Gallery*, see Gallery (Menu 8) on page 66.

Inbox, Outbox, Saved and Sent items folders


The phone saves the multimedia messages that have been received in the *Inbox* folder of the *Multimedia msgs.* submenu.

Multimedia messages that have not yet been sent are moved to the *Outbox* folder of the *Multimedia msgs.* submenu.

The multimedia messages that you wish to send later, can be saved in the *Saved items* folder of the *Multimedia msgs.* submenu.

The multimedia messages that have been sent are saved in the *Sent items* folder of the *Multimedia msgs.* submenu if the setting *Save sent messages* is set to *Yes*. See Settings for multimedia messages on page 44.

Multimedia messages memory full

When you have a new multimedia message waiting and the memory for the messages is full, the indicator  blinks and *Multimedia memory full, view waiting msg.* is shown. To view the waiting message, press *Show*. To save the message, press *Options*, select *Save message* and delete old messages by first selecting the folder and then the old message to be deleted.

To discard the waiting message, press **Exit** and **Yes**. If you press **No**, you can view the message.

Deleting messages

1. To delete text messages, press **Menu**, and select *Messages, Text messages* and *Delete messages*.

To delete all messages from all folders, select *All messages* and when *Delete all messages from all folders?* is displayed, press **OK**. If the folders contain unread messages, the phone will ask whether you want to delete them also.

To delete multimedia messages, press **Menu**, and select *Messages, Multimedia msgs.* and *Delete messages*.

2. To delete all messages from a folder, select the folder from which you want to delete the messages and press **OK**. If the folder contains unread messages, the phone will ask whether you want to delete them also.

Chat

You can have a conversation with another person using this faster text messaging application (network service). You cannot save received or sent messages, but you can view them while chatting. Each chat message is sent and priced as a separate text message.

1. To start a chat session, press **Menu**, select *Messages* and *Chat*. Key in or search the *Contacts* for the phone number of the person with whom you want to start a chat session and press **OK**.

Another way to start a chat session: When you have received a message, press **Show** to read it. To start a chat session, press **Options** and select *Chat*.

2. Key in your nickname for the chat session and press **OK**.
3. Write your chat message, see Writing text on page 26.
4. To send the message, press **Options** and select *Send*.
5. The reply message from the other person is shown above your original message.

To reply to the message, press **OK** and repeat steps 3 and 4.

6. To end the chat session, press **OK** and press **Options** and select *Quit*.


To view the most recent messages of the current chat session, press **Options** and select *Chat history*. The messages that you sent are indicated by "<" and your nickname and the messages that you received are indicated by ">", and the sender's nickname. Press **Back** to return to the message you are currently writing. To edit your nickname, select the option *Chat name*.

Voice messages

The voice mailbox is a network service and you may need to subscribe to it. For more information and for the voice mailbox number, contact your service provider.

Press **Menu**, and select *Messages* and *Voice messages*. Select

- *Listen to voice messages* to call your voice mailbox at the phone number that you have saved in the *Voice mailbox number* menu.
If you have two phone lines available (network service), each phone line may have its own voice mailbox number. Refer to Line for outgoing calls on page 57.
- *Voice mailbox number* to key in, search for or edit your voice mailbox number and press **OK** to save it.

If supported by the network, the indicator  will show new voice messages. Press **Listen** to call your voice mailbox number.

Info messages

With the info message network service you can receive messages on various topics from your service provider. These messages may include, for example, weather or traffic conditions. For availability, topics and the relevant topic numbers, contact your service provider.

Message settings

The message settings affect the sending, receiving and viewing of messages.

Settings for text and e-mail messages

1. Press **Menu**, and select *Messages*, *Message settings*, *Text messages* and *Sending profile*.
2. If more than one message profile set is supported by your SIM card, select the set you want to change.
 - Select *Message centre number* to save the phone number of the message centre that is required for sending text messages. You will receive this number from your service provider.
 - Select *Messages sent via* to select the message type *Text*, *E-mail*, *Paging* or *Fax*.
 - Select *Message validity* to select the length of time for which the network should attempt to deliver your message.
 - For message type *Text*, select *Default recipient number* to save a default number for sending messages for this profile.
For message type *E-mail*, select *E-mail server* to save the e-mail server number.
 - Select *Delivery reports* to ask the network to send delivery reports about your messages (network service).
 - Select *Use GPRS* and select *Yes* to set GPRS as the preferred SMS bearer. Also, set the *GPRS connection* to *Always online*, see GPRS connection on page 83.
 - Select *Reply via same centre* to allow the recipient of your message to send you a reply via your message centre (network service).
 - Select *Rename sending profile* to change the name of the selected message profile. The message profile sets are only displayed if your SIM card supports more than one set.

Overwrite settings

When the text message memory is full, the phone cannot receive or send any new messages. However, you can set the phone to automatically replace old text messages in the *Inbox* and *Sent items* folders with the new ones.


Press **Menu**, and select *Messages*, *Message settings*, *Text messages* and *Overwriting in inbox* or *Overwriting in sent items*. Select *Allowed* to set the phone to replace the old text messages with new ones in the *Inbox* or the *Sent items* folder, respectively.


Settings for multimedia messages

Press **Menu**, and select *Messages*, *Message settings* and *Multimedia msgs.*. Select

- *Save sent messages*. Select *Yes* to set the phone to save sent multimedia messages in the *Sent items* folder. If you select *No*, the sent messages are not saved.
- *Delivery reports* to ask the network to send delivery reports about your messages (network service)
- *Scale image down* to define the image size for the multimedia messages you are writing.
- *Allow multimedia reception*. Choose *No*, *Yes* or *In home network* to use the multimedia service. If you choose *In home network*, you cannot receive multimedia messages when outside your home network. The default setting is *In home network*.
- *Incoming multimedia messages*. Select *Retrieve* to set the phone to automatically fetch newly received multimedia messages, or select *Reject* if you do not wish to receive multimedia messages. This setting is not shown if the *Allow multimedia reception* is set to *No*.
- *Connection settings*. Define connection settings for retrieving multimedia messages. Activate the set in which you want to save the connection settings and then edit the active settings.

Select each of the settings one by one and key in all the required settings. Contact your network operator or service provider for the the settings.

- *Settings' name*. Key in the new name for the connection set and press **OK**.
- *Homepage*. Key in the homepage address of the service provider that you want to use, press  for a dot, and press **OK**.
- *Session mode*. Select *Permanent* or *Temporary*.
- *Data bearer*. Select *GPRS*.

- *Bearer settings* to set the settings for the selected bearer.
 - *GPRS access point*. Key in the access point name to establish a connection to a GPRS network and press **OK**.
 - *IP address*. Key in the address, press  for a dot, and press **OK**.
 - *Authentication type*. Select *Secure* or *Normal*.
 - *User name*. Key in the user name and press **OK**.
 - *Password*. Key in the password and press **OK**.
- *Allow adverts*. You can receive or reject advertisements. This setting is not shown if the *Allow multimedia reception* is set to *No*.

To receive the multimedia connection settings as an OTA message

You may receive the multimedia connection settings as an OTA message from the network operator or service provider. For more information, contact your network operator or service provider.

Font size setting

To select the font size for reading and writing messages, press **Menu**, and select *Messages*, *Message settings*, *Other settings* and *Font size*.

Service commands

Press **Menu**, and select *Messages* and *Service commands*. Key in and send service requests (also known as USSD commands), such as activation commands for network services, to your service provider.

■ Call register (Menu 2)

The phone registers the phone numbers of missed, received and dialled calls, and the approximate length and cost of your calls.



The phone registers missed and received calls only if the network supports these functions, the phone is switched on and within the network's service area.

When you press **Options** in the *Missed calls*, *Received calls* and *Dialled numbers* menu, you can, for example, view the date and the time of the


call, edit or delete the phone number from the list, save the number in *Contacts* or send a message to the number.

Recent calls lists

Press *Menu*, and select *Call register* and then select

- *Missed calls* to view the list of the last ten phone numbers from which somebody has tried to call you (network service). The number in front of the (name or) phone number indicates the amount of call attempts from that caller.



Tip: When a note about missed calls is displayed, press *List* to access the list of phone numbers. Scroll to the number you would like to call back and press .

- *Received calls* to view the list of the last ten phone numbers from which you have most recently accepted calls (network service).
- *Dialled numbers* to view the list of the 20 phone numbers that you have most recently called or attempted to call. See also Last number redialling on page 23.
- *Delete recent call lists* to delete the recent calls lists. Select whether you want to delete all the phone numbers in the recent calls lists, or only those numbers in the missed calls, received calls or dialled numbers lists. You cannot undo the operation.

Call counters and call timers



Note: The actual invoice for calls and services from your service provider may vary, depending on network features, rounding off for billing, taxes and so forth.

Press *Menu*, and select *Call register* and then select

- *Call duration*, scroll to view the approximate duration of your incoming and outgoing calls in hours, minutes and seconds. The security code is required to clear the timers.

If you have two phone lines available (network service), each phone line has its own call duration timers. The timers of the currently selected line are displayed. Refer to Line for outgoing calls on page 57.

- **Call costs** (network service). Select *Last call units* or *All calls' units* to check the cost of your most recent call or all calls in terms of units specified within the *Show costs in* function.

Select *Call cost settings* and select *Clear counters* to clear the counters, or select *Show costs in* to set the phone to show the remaining talk time in terms of charging units, *Units*, or units of currency, *Currency*. Contact your service provider for charging unit prices.

Select *Call cost limit* to limit the cost of your calls to a certain amount of charging units or units of currency. The PIN2 code is required for the call cost settings.



Note: When no more charging units or currency units are left, calls may only be possible to the official emergency number programmed into the device.

- **GPRS data counter.** Scroll to check the amounts of data that were sent or received in the last session, data sent and received in total, and to clear the counters. The counter unit is a byte. The security code is required to clear the counters.
- **GPRS connection timer.** Scroll to check the duration of the last GPRS connection or the total GPRS connection time. You can also clear the timers. The security code is required to clear the timers.


■ Contacts (Menu 3)



You can save names and phone numbers (contacts) in the phone's memory and in the SIM card's memory.

- The phone's memory may save up to 500 names with numbers and text notes about each name. You can also save an image for a certain number of names. The number of names that can be saved depends on the length of the names, and the number and length of the phone numbers and text items.

Contacts use shared memory, see Shared Memory on page 7.

- The phone supports SIM cards that can save up to 250 names and phone numbers. Names and numbers saved in the SIM card's memory, are indicated by .

Selecting settings for contacts

Press **Menu** and select *Contacts* and *Settings*. Select

- *Memory in use* to select the memory you want to use for your contacts. To recall names and numbers from both memories for contacts, select *Phone and SIM*. In that case, the names and numbers will be saved in the phone's memory.
- *Contacts view* to select how the names, numbers and images in contacts are displayed.
- *Memory status* to see how many names and phone numbers are currently saved and how many can still be saved in the selected memory for contacts.

Saving names and phone numbers (Add name)

Names and numbers will be saved in the used memory, see Selecting settings for contacts above.


1. Press **Menu** and select *Contacts* and *Add contact*.
2. Key in the name and press **OK**. See Using traditional text input on page 27.
3. Key in the phone number, and press **OK**. To key in the numbers, see Making a call on page 23.
4. When the name and number are saved, press **Done**.













Tip: Quick save In standby mode, key in the phone number. Press **Options**, and select *Save*. Key in the name, press **OK** and **Done**.

Saving multiple numbers and text items per name


You can save different types of phone numbers and short text items per name in the phone's internal memory for contacts.

The first number saved is automatically set as the default number and it is indicated with a frame around the number type indicator, for example . When you select a name from contacts, for example to make a call, the default number is used unless you select another number.

1. Make sure that the memory in use is either *Phone* or *Phone and SIM*. See Selecting settings for contacts on page 48.


- To access the list of names and phone numbers, press  in standby mode.
- Scroll to the name saved in the phone's internal memory for the contact to which you want to add a new number or text item, and press **Details**.
- Press **Options** and select *Add number* or *Add detail*.
- Select one of the following number types  *General*,  *Mobile*,  *Home*,  *Office* and  *Fax*, or text types  *E-mail address*,  *Web address*,  *Postal address* and  *Note*.
To change the number or text type, select *Change type* in the options list.
- Key in the number or text item and press **OK** to save it.
- Press **Back** and then **Exit** to return to standby mode.

Changing the default number





Press  in standby mode, scroll to the name you want and press **Details**. Scroll to the number you want to set as the default number. Press **Options** and select *Set as default*.

Adding an image to a name or number in contacts

You can add an image in supported format to a name or number saved in the phone's internal memory.


Press  in standby mode, scroll to the name (and number) you want to add an image to and press **Details**. Press **Options** and select *Add image*. The phone opens the list of folders in the *Gallery*. Scroll to the desired image, press **Options** and select *Save to contacts*. A copy of the image is added to the contact.


Searching for a name in contacts

- Press **Menu** and select *Contacts* and *Search*.
- You can key in the first characters of the name you are searching for in the pop-up window.
Press  and  to scroll through the names in the list, and  and  to move the cursor in the pop-up window.

3. Scroll to the name you want, and press **Details**. Scroll to view the details of the selected name.



Tip: To quickly find a name and phone number, press  in standby mode. Key in the first letter(s) of the name, and/or scroll to the name you want.

Tip: To quickly view a specific name with the default phone number, press and hold  **#** at the name while scrolling through the names.

Editing a name, number or text item or changing an image


Search for the name (and number) you want to edit and press **Details**. Scroll to the name, number, text item or image, and press **Options**. Select **Edit name**, **Edit number**, **Edit detail** or **Change image** and edit the name, number or text or change the image and press **OK**.

Deleting names, numbers and images

Press **Menu** and select **Contacts** and **Delete**. Deleting a name and number will also delete an image attached to it.

- To delete names and numbers one by one, select **One by one** and scroll to the name (and number) you want to delete. Press **Delete** and press **OK** to confirm.
- To delete names and numbers in contacts all at once, select **Delete all** and then scroll to either of the memories **Phone** or **SIM card** and press **Delete**. Press **OK** and confirm with the security code.

Deleting numbers, text items or images

Press  in standby mode, scroll to the desired name (and number) and press **Details**. Scroll to the number or text item you want to delete, press **Options** and select **Delete number** or **Delete detail**, respectively. If you have an image attached to the name or number and you want to delete it, press **Options** and select **Delete image**. Deleting an image from contacts does not delete it from **Gallery**.

Copying contacts

You can copy names and phone numbers from the phone's memory to your SIM card's memory and vice versa. Note that any text items saved in the phone's internal memory, such as e-mail addresses, will not be copied to the SIM card.

1. Press **Menu** and select *Contacts* and *Copy*.
2. Select the copying direction, *From phone to SIM card* or *From SIM card to phone*.
3. Select *One by one*, *All* or *Default numbers*.
 - If you select *One by one*, scroll to the name you want to copy and press **Copy**.

Default numbers is shown if you copy from the phone to the SIM card. Only the default numbers will be copied.

4. To choose whether you want to keep or delete the original names and numbers, select *Keep original* or *Move original*.
 - If you select *All* or *Default numbers*, press **OK** when *Start copying?* or *Start moving?* is displayed.

Sending and receiving a business card

You can send and receive a person's contact information from a compatible device as a business card either via IR or as an Over The Air (OTA) message if supported by the network.

Receiving a business card

To receive a business card via IR, make sure that your phone is ready to receive data through its IR port, see Infrared on page 82. The user of the other phone can now send the name and phone number via Infrared.

When you have received a business card via IR or as an OTA message, press **Show**. Press **Save** to save the business card in the phone's memory. To discard the business card, press **Exit** and then **OK**.

Sending a business card

You can send a business card via IR or as an OTA message to a compatible phone or other compatible device which supports the vCard

standard. You can also send an image attached to the business card via IR, if you have saved images in the phone's memory.

1. To send a business card, search for the name and phone number you want to send from contacts, press **Details** and **Options** and select *Send bus. card*.
2. To send the business card via IR, make sure that the other phone or the PC is set up to receive data via its IR port and select *Via infrared*.
To send the business card as an Over The Air (OTA) message, select *Via text message*.

Speed dials


To assign a number to a speed-dialling key, press **Menu** and select *Contacts* and *Speed dials* and scroll to the speed-dialling key number that you want.

Press **Assign**, press **Search**, and select first the name and then the number you want to assign. If a number has already been assigned to the key, press **Options**, and you can view, change or delete the assigned number. If the *Speed dialling* function is off, the phone asks whether you want to activate it. Press **Yes** to activate the function. Refer to Speed dialling on page 56.

To make a call using the speed-dialling keys, see Speed dialling a phone number on page 23.

Info numbers and service numbers

Your service provider may have included information numbers or service numbers in your SIM card.

Press **Menu** and select *Contacts* and *Info numbers* or *Service numbers*. Scroll through a category to an information number, or to a service number, and press  to call the number.

My numbers

The phone numbers assigned to your SIM card are saved in *My numbers* if this is allowed by the card. To view the numbers press **Menu** and select

Contacts and *My numbers*. Scroll to the desired name or number, and press **View**.

Caller groups

You can arrange the names and phone numbers saved in *Contacts* into caller groups. For each caller group, you can set the phone to sound a specific ringing tone and show a selected graphic on the display when you receive a call from a phone number in the group, see below. To set the phone to ring only upon calls from identified phone numbers belonging to a selected caller group, see *Alert for* in Tone settings on page 60.

Press **Menu** and select *Contacts* and *Caller groups* and select the desired caller group. Select

- *Group name*, key in a new name for the caller group and press **OK**.
- *Group ringing tone* and select the ringing tone for the group. *Default* is the ringing tone selected for the currently active profile.
- *Group logo* and select *On* to set the phone to display the group logo, *Off* not to display it, or *View* to view the logo.
- *Group members* to add a name to the caller group. If there are no names in the group, press **Add**, or otherwise, press **Options** and select *Add contact*. Scroll to the name you want to add to the group and press **Add**.

To remove a name from a caller group, scroll to the name you want to remove, and press **Options** and select *Remove contact*.

■ Profiles (Menu 4)

Your phone has various setting groups, profiles, for which you can customise the phone tones for different events and environments. Initially, personalise the profiles to your own liking and then you only need to activate a profile to use it. Available profiles are *General*, *Silent*, *Meeting*, *Outdoor*, and *Pager*.



Press **Menu**, and select *Profiles*. Scroll to a profile and press **Select**.

- To activate the selected profile, select *Activate*.
 - To set the profile to be active for a certain amount of time up to 24 hours, select *Timed* and set the end time. When the time set for the profile expires, the previous profile that was not timed, becomes active.
 - To personalise the profile, select *Personalise*. Select the setting you want to change and make the changes. The same settings can also be changed in the *Tone settings* menu, see Tone settings on page 60.
- To rename a profile, *Profile name*. The *General* profile cannot be renamed.



Tip: To change the profile quickly in standby mode, press the power key **⓪**, scroll to the profile you want to activate and press *Select*.

■ Settings (Menu 5)



Personal shortcuts

You can add some specific functions to your personal shortcut list and activate them either by pressing *Go to* or accessing the *Go to* menu. Refer to *Go to* (Menu 15) on page 93 and *Standby mode* on page 13.

To select the name for the right selection key and the functions for your personal shortcut list, press *Menu*, and select *Settings* and *Personal shortcuts*.

- To select the name for the right selection key displayed in standby mode, select *Right selection key*. Select an operator specific name, *Go to* or *Contacts*.
 - To select the desired functions for your personal shortcut list, select *Select Go to options* and the list of available functions is shown. Scroll to the desired function and press *Mark* to add it to the shortcut list.
- To remove a function from the list, press *Unmark*.

- To rearrange the functions on the list, select *Organise* and the desired function. Press *Move* and select where you want to move the function.

Time and date settings

Clock

Press *Menu*, and select *Settings, Time and date settings* and *Clock*.

Select *Show clock* (or *Hide clock*) to show (or hide) the time on the top right of the display in standby mode. Select *Set the time* to adjust the clock to the correct time, and *Time format* to select the 12-hour or 24-hour time format.

The clock serves the functions *Messages, Call register, Alarm clock, timed Profiles, Calendar* and screen saver, for example.

If the battery is removed from the phone or if it is flat for a long time, you may need to set the time again.

Date

Press *Menu*, and select *Settings, Time and date settings* and *Date*.

Select *Show date* (or *Hide date*) and the date is shown (or hidden) on the display when the phone is in standby mode. Select *Set the date* to adjust the date. You can also select the date format and date separator.

Auto update of date and time

Press *Menu*, and select *Settings, Time and date settings* and *Auto-update of date & time* (network service). To set the phone to automatically update the time and date according to the current time zone, select *On*. To set the phone to ask for a confirmation before the update, select *Confirm first*.

The automatic update of the date and time does not change the time that you have set for the alarm clock, calendar or the alarm notes. They are in local time. Updating may cause some alarms that you have set to expire.

For information on availability, contact your network operator or service provider.

Call settings

Call divert




Press **Menu**, and select *Settings*, *Call settings* and *Call divert* (network service). With call divert, you can direct your incoming calls to another number, for example to your voice mailbox number. For details, contact your service provider. Divert options not supported by your SIM card or your network operator may not be shown.

Select the divert option you want, for example, select *Divert if busy* to divert voice calls when your number is busy or when you reject an incoming call.

To set the divert setting to on, select *Activate* and then select the timeout after which the call is diverted, if this is available for the divert option. To set the divert setting to off, select *Cancel*, or select *Check status*, if this is available for the divert option, to check whether call divert is activated or not. Several divert options may be active at the same time.

To see the divert indicators in standby mode, see Standby mode on page 13.



Anykey answer

Press **Menu**, and select *Settings*, *Call settings* and then *Anykey answer*. Select *On* and you can answer an incoming call by briefly pressing any key, except **0**, selection keys  and , and .

Automatic redial

Press **Menu**, and select *Settings*, *Call settings* and *Automatic redial*. Select *On* and your phone will make a maximum of ten attempts to connect the call after an unsuccessful call attempt.

Speed dialling

Press **Menu**, and select *Settings*, *Call settings* and *Speed dialling*. Select *On* and the names and phone numbers assigned to the speed-dialling keys, from  to , can be dialled by pressing and holding the corresponding number key.

Call waiting

Press **Menu**, and select *Settings, Call settings* and *Call waiting*. Select *Activate* and the network will notify you of an incoming call while you have a call in progress (network service). See Call waiting on page 24.

Summary after call

Press **Menu**, and select *Settings, Call settings* and *Summary after call*. Select *On* and the phone will briefly display the approximate duration and cost (network service) of the call after each call.

Send my caller identity

Press **Menu**, and select *Settings, Call settings* and *Send my caller identity*. Select *Yes* and your phone number will be displayed to the person you are calling (network service). Select *Set by network* and the setting agreed upon with your service provider is used.


Line for outgoing calls

Line for outgoing calls is a network service to select the phone line 1 or 2, that is, the subscriber number, for making calls. For example, you can have a private and a business line. For more information on availability, contact your network operator or service provider.

Press **Menu**, and select *Settings, Call settings* and *Line for outgoing calls*. If you select *Line 2* and have not subscribed to this network service, you will not be able to make calls. However, calls on both lines can be answered regardless of the selected line.

If supported by your SIM card, you can prevent the line selection by selecting the option *Lock*.



Tip: In standby mode, you can switch from one line to the other by pressing and holding .

Phone settings

Language

Press **Menu**, and select *Settings, Phone settings* and *Language*. Select the language for the display texts. If *Automatic* is selected, the phone selects the language according to the information on the SIM card.

Memory status

Press **Menu**, and select *Settings, Phone settings* and *Memory status*. Scroll to view the free memory, the total used memory and the memory used for each function in the list.

You may also find the memory information in the menu of some of those functions, for example in Gallery.

Automatic keyguard

When the keyguard is on, calls still may be possible to the official emergency number programmed into your device. Key in the emergency number and press



You can set the keypad of your phone to lock automatically after a pre-set time delay when the phone is in standby mode and none of the phone's functions have been used.

Press **Menu**, and select *Settings, Phone settings* and *Automatic keyguard*. Select *On* and set the time delay from 10 seconds to 60 minutes. To deactivate the automatic keyguard, select *Off*.

Refer also to Keypad lock (Keyguard) on page 20.

Cell info display

Press **Menu**, and select *Settings, Phone settings* and *Cell info display*. Select *On* to set the phone to indicate when it is used in a cellular network based on Micro Cellular Network (MCN) technology.

Welcome note

Press **Menu**, and select *Settings, Phone settings* and *Welcome note*. Key in the note you would like to be shown briefly when the phone is switched on. To save the note, press **Options**, and select *Save*.

Network selection

Press **Menu**, and select *Settings, Phone settings* and *Network selection*. Select *Automatic* and the phone automatically selects one of the cellular networks available in your area.

If you select *Manual*, you can select a network that has a roaming agreement with your home network operator. If *No access* is displayed, you must select another network. The phone stays in manual mode until the automatic mode is selected or another SIM card is inserted into the phone.

Confirm SIM service actions

See SIM services (Menu 16) on page 93.

Help text activation

To set the phone to show or not to show the help texts, press **Menu**, and select *Settings*, *Phone settings* and *Help text activation*.

See also Using the menu on page 29.

Start-up tone

To set the phone to play or not to play a start-up tone when the phone is switched on, press **Menu**, and select *Settings*, *Phone settings* and *Start-up tone*.

Display settings

Wallpaper

You can set your phone to display a background image, known as wallpaper, when the phone is in standby mode. Some images are pre-saved in the *Gallery* menu. You can also receive images, for example, via multimedia messages, or transfer them with PC Suite from a compatible PC and then save them in *Gallery*. Your phone supports JPEG, GIF, BMP and PNG formats but not necessarily all variations of these file formats.

Press **Menu**, and select *Settings*, *Display settings* and *Wallpaper*.

- Select *Change image* and open an image folder. Scroll to the image you want to set as wallpaper, press **Options** and select *Set as wallpaper*.
- To activate/deactivate the wallpaper, select *On/Off*, respectively.

Note that the wallpaper is not displayed when the phone activates the screen saver.

Colour schemes

You can change the colour in some display components, for example, indicators and signal and battery bars.

Press **Menu**, and select *Settings*, *Display settings* and *Colour schemes*.

Select the desired colour scheme.

Menu view

To select the way the phone displays the main menu, press **Menu**, and select **Settings**, **Display settings** and **Menu view**. Select **List** for the menu list view and **Grid** for the menu grid view.

Operator logo

To set your phone to display or hide the operator logo, press **Menu**, and select **Settings**, **Display settings** and **Operator logo**. If you have not saved the operator logo, the **Operator logo** menu is dimmed.

Note that the operator logo is not displayed when the phone activates the screen saver.

For more information on availability of an operator logo, contact your network operator or service provider. See also PC Suite on page 94.

Screen saver

The digital clock screen saver is used for power saving in standby mode. It is activated when none of the phone's functions have been used for a certain time. Press any key to deactivate the screen saver. The screen saver is also deactivated when the phone is out of the network coverage area.

Press **Menu**, and select **Settings**, **Display settings** and **Screen saver timeout**. Select the timeout after which the digital clock display will be activated from 5 seconds to 60 minutes.

Note that the screen saver overrides all the graphics and texts on the display in standby mode.

Display brightness

You can change the display brightness level used on the phone display.

Press **Menu**, and select **Settings**, **Display settings** and **Display brightness**. Scroll with **⏪** and **⏩** to decrease and increase the brightness level, and press **OK** to accept it.

Tone settings

Press **Menu**, and select **Settings** and then **Tone settings**. You can find the same settings in the **Profiles** menu, see Profiles (Menu 4) on page 53.

Note that the settings you make, will change the settings in the active profile.

Select *Incoming call alert* to choose how the phone notifies you of an incoming voice call. The options are *Ringing*, *Ascending*, *Ring once*, *Beep once* and *Off*.

Select *Ringing tone* for incoming voice calls. To select ringing tones that have been saved in the *Gallery*, select *Open gallery* from the ringing tone list.

Select *Ringing volume* and *Vibrating alert* for incoming voice calls and messages. The vibrating alert does not work when the phone is connected to a charger, a desktop stand, or a car kit.



Tip: If you receive a ringing tone via infrared connection or by downloading, you can save the ringing tone in the *Gallery*.

Select *Message alert tone* to set the alert tone for the incoming messages, *Keypad tones*, or *Warning tones* to set the phone to sound tones, for example, when the battery is running out of power.

Select *Alert for* to set the phone to ring only upon calls from phone numbers that belong to a selected caller group. Scroll to the caller group you want or *All calls* and press *Mark*.

Enhancement settings

The enhancement settings menu is shown only if the phone is or has been connected to some mobile enhancements, chargers and handsfree units, for example.

Press *Menu*, and select *Settings* and *Enhancement settings*. You can select *Headset*, *Handsfree*, *Loopset*, *Text phone*, *Music stand* or *Charger*, if the corresponding enhancement is or has been connected to the phone. Depending on the enhancement, you can select some of the following options:

- *Default profile* to select the profile that you want to be automatically activated when you connect to the selected enhancement. You can select another profile while the enhancement is connected.

- *Automatic answer* to set the phone to answer an incoming call automatically after five seconds. If the *Incoming call alert* is set to *BEEP ONCE* or *OFF*, automatic answer will not be used.
- *Lights* to set the lights permanently *ON*. Select *Automatic* to set the lights on for 15 seconds after a keypress.
- When the phone is connected to the full car kit, select *Ignition detector* and *ON* to automatically switch off the phone approximately 20 seconds after you have switched off the car's ignition.
- For *Text phone*, select *Use text phone* and select *Yes* to use the text phone settings instead of headset or loopset settings.

Security settings

When security features that restrict calls are in use (such as call barring, closed user group and fixed dialling) calls still may be possible to the official emergency number programmed into your device.

Press *Menu*, and select *Settings* and *Security settings*. Select

- *PIN code request* to set the phone to ask for your PIN code every time the phone is switched on. Some SIM cards do not allow the PIN code request to be turned off.
- *Call barring service* (network service) to restrict incoming calls to and outgoing calls from your phone. A barring password is required.
- *Fixed dialling* to restrict your outgoing calls and text messages to selected phone numbers if this function is supported by your SIM card. The PIN2 code is required.

When the fixed dialling is on, GPRS connections are not possible except while sending text messages over a GPRS connection. In this case, the recipient's phone number and the message centre number have to be included on the fixed dialling list.

- *Closed user group*. Closed user group is a network service that specifies the group of people whom you can call and who can call you. For more information contact your network operator or service provider.

- **Security level.** Select **Phone** and the phone will ask for the security code whenever a new SIM card is inserted into the phone.
Select **Memory** and the phone will ask for the security code when the SIM card's memory is selected and you want to change the memory in use, (see Selecting settings for contacts on page 48) or copy from one memory to another (Copying contacts on page 51).
- **Access codes** to change the security code, PIN code, PIN2 code or barring password. Codes can only include numbers from 0 to 9.

Restore factory settings

To reset some of the menu settings to their original values, press **Menu**, and select **Settings** and **Restore factory settings**. Key in the security code and press **OK**. Note that the data you have keyed in or downloaded, for example, the names and phone numbers saved in **Contacts** are not deleted.

■ Radio (Menu 6)



The FM radio uses the wire of the headset as an antenna. A compatible headset needs to be attached to the device for the FM radio to function properly.

Note that the quality of the radio broadcast depends on the radio station's coverage in that particular area.




Warning: Listen to music at a moderate level. Continuous exposure to high volume may damage your hearing.

1. To turn on the radio, press **Menu** and select **Radio**. The display shows the
 - Channel location number and the name of the radio channel if you have saved the channel.
 - Frequency of the radio channel.
2. If you have already saved radio channels, you can scroll to the channel you would like to listen to, or select a radio channel location 1 to 9 by pressing the corresponding number key.



When using the compatible headset supplied with the headset key, press the key to scroll to the desired saved radio channel.

- When the radio is on, press **Options** and select *Switch off* to turn off the radio.



Tip: To quickly turn off the radio, press and hold .

Tuning a radio channel





When the radio is on, press and hold  or  to start the channel search. Searching stops when a channel is found. To save the channel, press **Options**, and select *Save channel*. Key in the name of the channel and press **OK**. Select the location where you want to save the channel.



Tip: To quickly save the channel in a location 1 to 9, press and hold the corresponding number key, then key in the name of the channel and press **OK**.

Using the radio

When the radio is on, press **Options** and select



- Switch off* to turn off the radio.
- Save channel* to save the radio channel you have found, refer to Tuning a radio channel above. Up to 20 radio channels can be saved.
- Automatic tuning*. Briefly press  or  to start the channel search upwards or downwards. The search stops when a channel has been found, press **OK**. To save the channel, see *Save channel* above.
- Manual tuning*. Briefly press  or  to move the channel search 0.1 MHz upwards or downwards or press and hold down the keys to quickly search upwards or downwards for a channel. To save the channel, press **OK** and see *Save channel* above.



Tip: To quickly select *Manual tuning*, press   when in the *Radio* menu.

- Set frequency*. If you know the frequency of the radio channel you would like to listen to (between 87.5 MHz and 108.0 MHz), key it in and press **OK**. To save the channel, see *Save channel* above.



Tip: To quickly select *Set frequency*, press   when in the *Radio* menu.

- Delete channel*. To delete a saved channel, scroll to it, press **Delete**, and **OK**.

- **Rename.** Key in a new name for the saved channel and press **OK**.
- **Loudspeaker** (or **Headset**) to listen to the radio using the loudspeaker (or headset). Keep the headset connected to the phone. The lead of the headset functions as the radio antenna.
- **Mono output** (or **Stereo output**) to listen to the radio in mono (or in stereo).

You can normally make a call or answer an incoming call while listening to the radio. The volume of the radio is muted. When you end the call, the radio will automatically be turned on.

When an application using a GPRS or HSCSD connection is sending or receiving data, it may interfere with the radio.

■ Camera (Menu 7)



In this menu you can take photos with the phone's built-in camera and adjust its settings. The camera lens is on the back of the phone, and the display of the phone works as a viewfinder. The camera produces JPEG pictures.


If there is not enough memory to take a new photo, you need to free some by deleting old photos or other files in the gallery. Note that the camera uses shared memory, see Shared Memory on page 7.

The Nokia 6610i phone supports an image capture resolution of 352 x 288 pixels. The image resolution in these materials may appear different.

To take a photo

1. Press **Menu**, and select **Camera** and **Standard photo**, **Portrait photo** or if the lighting is dim for taking photos, select **Night mode**. If you want to add the photo to a name/phone number saved in contacts, select **Portrait photo**.



Tip: To quickly open the camera viewfinder with standard photo view, press  in standby mode.

2. The live image appears on the display, and you can use the display as a viewfinder.

- To take a photo, press **Capture**. The phone saves the photo in the *Photos* folder of the *Gallery* menu. The saved photo will be shown on the display.

To define the default title for the photo, see *Default title* in Camera settings on page 66.

- Select **Back** to take another photo, or press **Options** and select, for example, an option to delete or rename the saved photo, send it as a multimedia message, or attach the photo to a name or phone number in contacts, or access the gallery.



Tip: You can activate the self-timer of the camera for one picture at a time. Press **Menu**, and select *Camera, Self-timer* and *Standard photo, Portrait photo* or *Night mode*. Press **Start**, and after the timeout, the camera takes the photo and saves it in the *Gallery* menu. While the self-timer is running, a beeping sound is heard.

Camera settings

Press **Menu**, and select *Camera* and *Settings*. Select

- Image quality* to define how much the photo file will be compressed when saving the image. Select *High, Normal* or *Basic*. *High* provides the best image quality but takes more memory.
- Camera sounds* to set the shutter sound and the self-timer tone to *On* or *Off*.
- Default title* to define the title that will be used when saving a photo. If you select *Automatic*, the default title will be used, or if you select *My title*, you can key in or edit a new title.

■ Gallery (Menu 8)

In Gallery you can manage images, photos and tones saved in your phone.



The gallery uses shared memory, see *Shared Memory* on page 7.

- Press **Menu** and select *Gallery*. The list of options is shown.
- Select *View folders* to open the list of folders.

Other available options are:

- *Add folder* to add a new folder. Key in a name for the folder and press **OK**.
- *Delete folder* to select the folder you want to delete. You cannot delete the original folders on the phone.
- *Rename folder* to select the folder you want to rename. You cannot rename the original folders on the phone.
- *Gallery downloads* to download more images and tones. Select *Image downloads* or *Tone downloads*, respectively. The list of available browser bookmarks is shown. Select *More bookmarks* to access the list of bookmarks in the *Services* menu, see Bookmarks on page 88.

Select the appropriate bookmark to connect to the desired page. If the connection fails, you may not be able to access the page from the service whose connection settings are currently active. In this case, enter the *Services* menu and activate another set of service settings, see Making a connection to a service on page 86. Try again to connect to the page.

For the availability of different services, pricing and tariffs, contact your network operator and/or the service provider.
Download content only from the sources you trust.

3. Open the folder you want and the list of files in the folder is shown. *Photos*, *Graphics* and *Tones* are the original folders in the phone.

Press **Options** and some of the following options are available:

- *Open* to open the selected file.
- *Delete* to delete the selected file.
- *Send* to send the selected file via MMS.
- *Move* to move a file to another folder.
- *Rename* to give a new name to the file.
- *Set as wallpaper* to set the selected image file as wallpaper.
- *Set as ring tone* to set the selected sound file as the ringing tone.
- *Details* to see the details of the file, for example the size of the file.

- *Sort* to sort the files and folders by date, type, name or size.
 - *Delete all* to delete all the files in the selected folder.
 - *Edit image* to insert text, a frame or clip-art into the selected picture.
4. Open the file you want. Press **Options** and some of the following options are available:
- *Play (Pause)* to listen to or to view a sound or image file that is contained in the message.
 - *Zoom* to increase the size of the image that is contained in the message.
 - *Mute audio (Unmute audio)* to mute (unmute) the sound file.
 - *Set contrast* to adjust the contrast level of the image.
 - *Set as wallpaper* to set the selected image file as wallpaper.
 - *Set as ring tone* to set the selected sound file as the ringing tone.
 - *Edit image* to insert text, a frame or clip-art to the selected picture.
 - *Details* to see the details of the file, for example the size of the file.
 - *Delete* to delete the selected file.
 - *Send* to send the selected file via MMS.
 - *Rename* to give a new name to the file.
 - *View in sequence* to view the files in the folder sequentially.

Note that copyright protections may prevent some images, ringing tones and other content from being copied, modified, transferred or forwarded.

■ **Organiser (Menu 9)**



Alarm clock

The alarm clock uses the time format set for the clock. The alarm clock works even when the phone is switched off if there is enough power in the battery.

Press **Menu**, and select *Organiser* and *Alarm clock*.

- Select *Alarm time*, key in the alarm time and press **OK**.

To change the alarm time, select *On*.

- Select *Alarm tone* and select the default alarm tone, personalise the alarm tone by selecting one from the ringing tone list or from the gallery, or set a radio channel as the alarm tone.

If you select the radio as an alarm tone, connect the headset to the phone. The phone uses the most recent channel you listened to as an alarm tone via the loudspeaker. If the headset is removed, the default alarm tone will be used instead of the radio.

When the alarm time expires

The phone will sound an alert tone, and flash *Alarm!* and the current time on the display.

Press **Stop** to stop the alarm. If you let the phone continue to sound the alarm for a minute or press **Snooze**, the alarm stops for about ten minutes and then resumes.

If you have selected the radio as an alarm tone, instead of **Snooze** the phone asks whether you want to switch off the radio or not.

If the alarm time is reached while the device is switched off, the device switches itself on and starts sounding the alarm tone. If you press **Stop**, the device asks whether you want to activate the device for calls. Press **No** to switch off the device or **Yes** to make and receive calls. Do not press **Yes** when wireless phone use may cause interference or danger.


Calendar

The calendar helps you to keep track of reminders, calls that you need to make, meetings, and birthdays.

The calendar uses shared memory, see Shared Memory on page 7.

Press **Menu**, and select *Organiser* and *Calendar*.



Tip: To quickly open the *Calendar* menu, press  in standby mode.

Scroll to the day you want. The current day is indicated by a frame around the day. If there are any notes set for the day, the day is in bold type. To view the day notes, press **Options** and select *Day notes*.

- To view a single note, scroll to the note you want to view, press **Options** and select **View**. The note view allows you to view the details of the selected note. You can scroll through the note.
- For example, there are also options for making a note, or for sending a note via IR, or as a note directly to another compatible phone's calendar or as a text message.




There are also options for deleting, editing, moving and repeating a note and for copying a note to another day.



Settings to set the date, time, date or time format, or the first day of the week. In the **Auto-delete** option you can set the phone to delete old notes automatically after a specified time. However, the repeat notes, for example, birthday notes, will not be deleted.


Making a calendar note

For keying in letters and numbers, see Writing text on page 26.



Press **Menu**, and select **Organiser** and **Calendar**. Scroll to the date you want, press **Options** and select **Make a note**. Select one of the following note types:

-  **Meeting** - Key in the note (or press **Options** and search for the name in contacts). Press **Options** and select **Save**. Key in the location for the meeting and press **Options** and select **Save**. Key in the start time for the meeting and press **OK**, and then the end time and press **OK**. To set the alarm for the note, select **With tone** or **Silent** (no alarm tone) and then set the alarm time.
-  **Call** - Key in the phone number, press **Options** and select **Save**. Key in the name, press **Options** and select **Save**. (Instead of keying in the phone number, press **Options** to search for the name and number in contacts.) Then key in the time for the call and press **OK**. To set the alarm for the note, select **With tone** or **Silent** (no alarm tone) and then set the alarm time.
-  **Birthday** - Key in the person's name (or press **Options** and search for it in contacts), press **Options** and select **Save**. Then key in the year of birth, and press **OK**. To set the alarm for the note, select **With tone** or **Silent** (no alarm tone) and then set the alarm time.

-  **Memo** – Key in the note, press **Options** and select **Save**. Key in the end day for the note and press **OK**. To set the alarm for the note, select **With tone** or **Silent** (no alarm tone) and then set the alarm time.
-  **Reminder** – Key in the subject for the reminder, press **Options** and select **Save**. To set the alarm for the note, select **Alarm on** and then set the alarm time.

When you have set the alarm, the indicator  is displayed when you view the notes.

When the phone sounds an alarm for a note

The phone beeps, and displays the note. With a call note  on the display, you can call the displayed number by pressing . To stop the alarm and view the note, press **View**. To stop the alarm without viewing the note, press **Exit**.

To-do list

You can save a note for a task that you have to do, select a priority level for the note and mark it as done when you have completed it. You can sort the notes by priority or by date.

The to-do list uses shared memory, see Shared Memory on page 7.

Press **Menu**, and select **Organiser** and **To-do list** and the list of notes is shown. Press **Options**, or scroll to the desired note and press **Options**.

- To add a new note, select **Add**. Key in the subject for the note. When you have keyed in the maximum number of characters for a note, no further characters are accepted. Press **Options** and select **Save**. Select the priority for the note, **High**, **Medium**, or **Low**. The phone automatically sets the deadline without an alarm for the note. To change the deadline, view the note and select the option for the deadline.

Dictionary, refer to Setting predictive text input on or off on page 26.


- For example, you can also view and delete the selected note and delete all the notes that you have marked as done. You can sort the notes by priority or by deadline, send a note to another phone, save a note as a calendar note, or access the calendar.


While viewing a note, you can also, for example, select an option to edit the selected note, edit the deadline or priority for the note, or mark the note as done.

■ Games (Menu 10)



Launching a game

1. Press **Menu**, and select **Games** and **Select game**.
2. Scroll to a game or a game set (the name depends on the game).
3. Press **Options** and select **Open** or press . If the selection is a single game it will be launched.

Otherwise, a list of games in the selected game set is displayed. To launch a single game, scroll to the desired game and press **Options** and select **Open**, or press .

Note that running some games may consume the phone's battery faster (and you may need to connect the phone to the charger).

Other options available for a game or game set

Options for games, see Other options available for an application or application set on page 74.

Game downloads

Press **Menu**, and select **Games** and **Game downloads**. The list of available bookmarks is shown. Select **More bookmarks** to access the list of bookmarks in the **Services** menu, see Bookmarks on page 88.

Select the appropriate bookmark to connect to the desired page. If the connection fails, you may not be able to access the page from the service whose connection settings are currently active. In this case, enter the **Services** menu and activate another set of service settings, see Making a connection to a service on page 86. Try again to connect to the page.

For the availability of different services, pricing and tariffs, contact your network operator and/or the service provider.

To download more games, refer also to [Downloading an application on page 74](#).

Note that when downloading a game, it may be saved in the [Applications](#) menu instead of the [Games](#) menu.



Important: Only install applications from sources that offer adequate protection against harmful software.

Memory status for games

To view the amount of memory available for game and application installations, press [Menu](#), and select [Games](#) and [Memory](#). See also [Memory status for applications on page 75](#).

The games use shared memory, see [Shared Memory on page 7](#).


Game settings


Press [Menu](#), and select [Games](#) and [Settings](#) to set sounds, lights and shakes for the game.

■ Applications (Menu 11)



Launching an application

1. Press [Menu](#), and select [Applications](#) and [Select application](#).
2. Scroll to an application or an application set (the name depends on the application).
3. Press [Options](#) and select [Open](#) or press . If the selection is a single application it will be launched.

Otherwise, a list of applications in the selected application set is displayed. To launch a single application, scroll to the desired application and press [Options](#) and select [Open](#), or press .

Note that running some applications may consume the phone's battery faster (and you may need to connect the phone to the charger).

Other options available for an application or application set

- *Delete* to delete the application or application set from the phone.
Note that if you delete a pre-installed application or an application set from your phone, you may download it again to your phone from the Nokia Software Market, <http://www.softwamarket.nokia.com/wap>.
- *Web access* to restrict the application from accessing the network. Select *Ask first* to set the application to ask for your permission to connect to the network, or *Allowed* / *Not allowed* to allow or not allow the connection.
- *Update version* to check if a new version of the application is available for download from the services (network service).
- *Web page* to provide further information or additional data for the application from an Internet page. This feature needs to be supported by the network. It is only shown if an Internet address has been provided with the application.
- *Service settings* for some applications that need specific service settings. Your phone is set to use as default the service settings for the browser.
- *Details* to give additional information about the application.

Downloading an application

Your phone supports Java technology (J2ME) applications. Make sure that the application is compatible with your phone before downloading it. You can download new Java applications in different ways:

- Press *Menu*, and select *Applications* and *App. downloads* and the list of available bookmarks is shown. Select *More bookmarks* to access the list of bookmarks in the *Services* menu, see Bookmarks on page 88.

Select the appropriate bookmark to connect to the desired page. If the connection fails, you may not be able to access the page from the service whose connection settings are currently active. In this case, enter the *Services* menu and activate another set of service settings,

see Making a connection to a service on page 86. Try again to connect to the page.

For the availability of different services, pricing and tariffs, contact your network operator and/or service provider.

- Press **Menu**, and select *Services* and *Download links*. Select to download an appropriate application or game. See Downloading on page 89.
- Use the game download functionality, see Game downloads on page 72.
- Use the Nokia Application installer from PC Suite to download the applications in your phone.



Important: Only install applications from sources that offer adequate protection against harmful software.

Note that when downloading an application, it may be saved in the *Games* menu instead of the *Applications* menu.

Memory status for applications

To view the amount of memory available for game and application installations, press **Menu**, and select *Applications* and *Memory*.

The applications use shared memory, see Shared Memory on page 7.

■ Extras (Menu 12)




Calculator


The calculator in your phone adds, subtracts, multiplies, divides, calculates the square and the square root and converts currency values.



Note: This calculator has limited accuracy and is designed for simple calculations.


1. Press **Menu**, and select *Extras* and *Calculator*.
2. When '0' is displayed on the screen, key in the first number in the calculation, press  for a decimal point.
3. Press **Options** and select *Add*, *Subtract*, *Multiply*, *Divide*, *Square*, *Square root* or *Change sign*.



Tip: Alternatively, press  once to add, twice to subtract, three times to multiply or four times to divide.

4. Key in the second number.
5. For a total, press **Options** and select *Equals*. Repeat steps 3 to 5 as many times as is necessary.
6. To start a new calculation, first press and hold **Clear**.

Performing a currency conversion

1. Press **Menu**, and select *Extras* and *Calculator*.
2. To save the exchange rate, press **Options** and select *Exchange rate*. Select either of the displayed options. Key in the exchange rate, press  for a decimal point, and press **OK**. The exchange rate remains in the memory until you replace it with another one.
3. To perform the currency conversion, key in the amount to be converted, press **Options** and select *In domestic* or *In foreign*.



Tip: You can also perform the currency conversion in standby mode. Key in the amount to be converted, press **Options** and select *In domestic* or *In foreign*.


Countdown timer

Press **Menu**, and select *Extras* and *Countdown timer*. Key in the alarm time in hours and minutes and press **OK**. If you wish, write your own note text which is displayed when the time expires, and press **OK** to start the countdown timer.

- To change the countdown time, select *Change time*, or to stop the timer, select *Stop timer*.

If the alarm time is reached when the phone is in standby mode, the phone sounds a tone and flashes the note text if it is set or else *Countdown time up*. Stop the alarm by pressing any key. If no key is pressed, the alarm automatically stops within 30 seconds. To stop the alarm and to delete the note text, press **OK**.

Stopwatch

You can measure time, take intermediate times or lap times using the stopwatch. During timing, the other functions of the phone can be used. To set the stopwatch timing in the background, press .

Using the stopwatch or allowing it to run in the background when using other features increases the demand on battery power and reduces the battery life.

Time observation and time splitting

1. Press **Menu**, and select *Extras*, *Stopwatch* and *Split timing*. You can select *Continue* if you have set the timing in the background.
2. Press **Start** to start the time observation. Press **Split** every time you want to take an intermediate time. The intermediate times are listed below the running time on the display. Scroll to view the times.
3. Press **Stop** to stop the time observation.
4. Press **Options** and select
 - Start* to start the time observation again. The new time is added to the previous time.
 - Save* to save the time. Key in a name for the measured time and press **OK**. If no name is keyed in, the total time is used as the title.
 - Reset* to reset the time without saving it.

Lap times

Press **Menu**, and select *Extras*, *Stopwatch* and *Lap timing*. Press **Start** to start the time observation and **Lap** to take a lap time. Press **Stop** to stop the lap timing. Press **Options** and you can save or reset the lap times. Refer to Time observation and time splitting above.

Viewing and deleting times

Press **Menu**, and select *Extras*, and *Stopwatch*.

If the stopwatch is not reset, you can select *Show last* to view the most recent measured time. Select *View times* and a list of names or final times of the time sets is shown, select the time set you want to view.

To delete the saved times, select *Delete times*. Select *Delete all* and press **OK**, or select *One by one*, scroll to the times you want to delete, press **Delete** and press **OK**.

Wallet

In *Wallet* you can save personal information, for example, credit card numbers and make purchases with your phone where supported by the service provider.

You can access wallet via the *Wallet* menu or via the browser, see Options while browsing on page 87.

When you access wallet for the first time, you need to create your own wallet code. At *Create wallet code*: key in the code and press **OK** to confirm it and at *Verify wallet code*: key in the code again and press **OK**.

If you want to delete all the content of the wallet and the wallet code, key in `*#7370925538#` (`*#res0wallet#` in letters) in standby mode. You also need the phone's security code.

See also General information on page 8.

Saving and changing personal card information

To access the wallet, press **Menu**, select *Extras* and *Wallet*. If required, key in your wallet code and press **OK**, see Wallet settings on page 79.

Select *Cards* to view the list of cards. The maximum number of cards is five. Scroll to the desired card.

- To save information on a card, press **Options** and select *View*. Select
 - *Card info* to key in, for example, card holder's name, card type, number and expiry information.
 - *User info* to save user name and password for accessing sites.
 - *Shipping info* to save your contact information.
 - *Billing info* to save the contact information in case the invoicing address differs from your own, for example, with company credit cards.
 - *Receipt info* to save phone numbers and e-mail addresses where you want the service provider to send a receipt of your purchase.
- To make a copy of the card, press **Options** and select *Copy card*.
- To delete all the information on the card, press **Options** and select *Clear card*.
- To rename the card, press **Options** and select *Rename card*.

Personal notes

You can save up to 30 confidential personal notes, for example, passwords, codes or notations.

Press **Menu**, select *Extras*, *Wallet* and *Personal notes*. Press **Options** and you can view, add, edit a selected note and sort notes either by name or date or delete notes. When viewing a note, the option *Edit* is for editing a note, and *Send via text msg.* copies the note as a text message. *Copy to calendar* copies the note to the calendar as a memo. *Use detail* extracts numbers, e-mail addresses and web addresses from a note.

Wallet settings

Press **Menu**, select *Extras*, *Wallet* and *Settings*. Select

- *Code request* to set the wallet code request to on or off. You need to key in the correct wallet code before you can set the code request to on or off. Note that if you set the code request *Off*, the wallet can be accessed without a wallet code.
- *Change code* to change the wallet code.

Guidelines for paying for your purchases with wallet

1. Access the desired site that supports wallet, to do your shopping, see Making a connection to a service on page 86, and choose the product you want to buy.

Read carefully all information provided before your purchase.



Note: The text may not fit within a single screen. Therefore, make sure to scroll through and read all of the text before signing.

2. To pay for the items you wish to purchase, press **Options** and select *Use wallet info*. See Options while browsing on page 87.
3. Select the card you want to pay with. Fill in the data form you receive from the service provider by transferring the credit card details from the wallet. If you want to fill in all the fields automatically, select *Fill in all fields*. The option is shown only when the service supports the Electronic Commerce Modelling Language standard. You can also fill the form by selecting information fields from the card one by one. The phone displays the filled form.
4. Approve the purchase, and the information is sent forward.

5. You may receive a sign-in document from the service that you need to sign to make the purchase binding, see [Digital signature](#) on page 92.
6. To close the wallet, select [Close wallet](#). See [Options while browsing](#) on page 87.

Synchronisation

Synchronisation allows you to save your calendar and contacts data in a remote Internet server or in a compatible PC. If you have saved data in the remote Internet server, you can synchronise your phone by starting the synchronisation from your phone. Synchronising to the remote server is a network service. You can also synchronise the data in your phone's contacts and calendar to correspond with the data of your compatible PC by starting the synchronisation from the PC. The contact data in your SIM card will not be synchronised.

Note that answering an incoming call during synchronisation will end the synchronisation and you need to start it again.

Synchronising from your phone to a remote server

Before synchronising from your compatible phone, you may need to do the following:

- Subscribe to a synchronisation service. For more information on availability and the synchronisation service settings, contact your network operator or service provider.
- Retrieve the synchronisation settings from your network operator or service provider.

You may receive the synchronisation settings as an OTA message, see [Saving the synchronisation settings received as an OTA message](#) on page 81 or you may have to key in the settings manually, see [Keying in the synchronisation settings manually](#) on page 81.

To start the synchronisation from your phone:

1. Press [Menu](#), and select [Services, Active service settings](#) and select the connection settings you need for synchronisation.

The synchronisation settings may differ from the service settings required for browsing. After synchronising, change your *Active service settings* back to the previous ones if you want to use other services later.

2. Mark the data to be synchronised. See *Data to be synchronised* in Keying in the synchronisation settings manually on page 81.
3. Press **Menu**, and select *Extras*, *Synchronisation* and *Synchronise*.
4. The marked data of the active set will be synchronised after confirmation.

Note that synchronising for the first time or after an interrupted synchronisation may take time up to 30 minutes, if contacts or calendar are full.

Saving the synchronisation settings received as an OTA message

When you receive the synchronisation settings as an OTA message, *Synchronisation settings received* is displayed.

Press **Options** and select *Details* to view the received settings first, *Save* to save the synchronisation settings, or *Discard* to discard them.

Keying in the synchronisation settings manually

Press **Menu**, select *Extras*, *Synchronisation* and *Settings*.

Select *Active Internet sync. settings*.

You need to activate the set where you want to save the synchronisation settings. A set is a collection of settings required to make a connection to a service.

Scroll to the set you wish to activate and press **Activate**.

Select *Edit active Internet sync. settings*. Select each setting one by one and key in all the required settings.

- *Settings' name*. Key in the name for the set and press **OK**.
- *Data to be synchronised*. Mark the data you want to synchronise, *Contacts* and/or *Calendar*, and press **Done**.
- *Database addresses*. Select *Contacts database* and/or *Calendar database* to be edited. Key in the name of the database and press **OK**.

- *User name*. Key in the user name and press **OK**.
- *Password*. Key in the password and press **OK**.
- *Synchronisation server*. Key in the name of the server and press **OK**.

Synchronising from a compatible PC

To synchronise contacts and calendar from a compatible PC, use either an IR connection or a data cable. You also need the PC Suite software of your phone installed on the PC. Start the synchronisation from the PC using PC suite.

■ Connectivity (Menu 13)



Infrared

You can set up the phone to receive data through its infrared (IR) port. To use an IR connection, the device with which you want to establish a connection must be IrDA compliant. You can send or receive data such as business cards and calendar notes to or from a compatible phone or data device (for example, a computer) via the IR port of your phone.


Do not point the IR (infrared) beam at anyone's eye or allow it to interfere with other IR devices. This device is a Class 1 laser product.


Sending and receiving data via IR

- Ensure that the IR ports of the sending and receiving devices are pointing at each other and that there are no obstructions between the devices. The preferable distance between the two devices in an infrared connection is 1 metre at most.
- To activate the IR port of your phone to receive data via IR, press **Menu**, and select *Connectivity* and *Infrared*.
- The user of the sending phone selects the desired IR function to start data transfer.

If data transfer is not started within 2 minutes after the activation of the IR port, the connection is cancelled and has to be started again.

IR connection indicator

- When  is shown continuously, the IR connection is activated and your phone is ready to send or receive data via its IR port.

- When  blinks, your phone is trying to connect to the other device or a connection has been lost.




GPRS

GPRS connection

GPRS is a network service. You can set the phone to automatically register to a GPRS network when you switch the phone on. Press **Menu**, and select *Connectivity*, *GPRS*, *GPRS connection* and *Always online*.

When you start an application using GPRS, the connection between phone and network is established, and data transfer is possible. When you end the application, the GPRS connection is ended but the registration to the GPRS network remains.

If you select *When needed*, the GPRS registration and connection are established when an application using GPRS needs it and closed when you end the application.

When *Always online* is selected and the GPRS service is available, the indicator  is shown on the top left of the display. When the GPRS connection is established, the indicator  is shown. If you receive a call or a text message, or make a call during a GPRS connection, the indicator  will be shown on the top right of the display to indicate that the GPRS connection is suspended (on hold).

Note that your phone supports three simultaneous GPRS connections. For example, you can browse pages, receive multimedia messages and have an ongoing PC dial-up connection at the same time.

GPRS modem settings

You can connect the phone via an infrared or a data cable connection to a compatible PC and use the phone as a modem to enable GPRS connectivity (network service) from the PC.

Press **Menu**, and select *Connectivity*, *GPRS* and *GPRS modem settings*. Select *Active access point* and activate the access point you want to use. Select *Edit active access point* to change the access point settings.

- Select *Alias for access point*. Key in the name you would like for the activated access point and press **OK**.

- Select **GPRS access point**. Key in the Access Point Name (APN) to establish a connection to a GPRS network and press **OK**. Contact your network operator or service provider for the access point name.

You can also set the GPRS dial-up service settings (Access Point Name) on your PC using the Nokia Modem Options software, see PC Suite on page 94. If you have set the settings both on your PC and on your phone, note that the PC's settings will be used.

■ Services (Menu 14)



You can access various services on the Internet. For example, these services may include weather reports, news or flight times and financial information.

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

With your phone's multi-mode browser you can view the services that use Wireless Mark-Up Language (WML) or extensible HyperText Markup Language (xHTML) on their pages. Since the phone's display and the memory capacity are much smaller than in a computer, Internet content is displayed differently on the phone's display. Note that you may not be able to view all details on the Internet pages.

Basic steps for accessing and using services

1. Save the service settings that are required to access the service that you want to use. See page 84.
2. Make a connection to the given service. See page 86.
3. Start browsing the pages of the service. See page 86.
4. Once you are finished browsing, end the connection to the service. See page 87.

Setting up the phone for a service

You may receive the service settings as an OTA message from the network operator or service provider that offers the service that you

want to use. You can also key in the settings manually or add and edit the settings with PC Suite.

For more information and for appropriate settings, contact your network operator or service provider that offers the service that you want to use. The settings may be available, for example, on their website.

Saving the service settings received as an OTA message

When you receive the service settings as an OTA message, *Service settings received* is displayed.

- To save 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 are also activated.
If there are settings saved in *Active service settings*, *Activate saved service settings?* will be displayed. To activate the saved settings, press **Yes**, or to save them only, press **No**.
- To view the received settings first, press **Options** and select **View**. To save the settings, press **Save**.
- To discard the received settings, press **Options** and select **Discard**.

Keying in the service settings manually


1. Press **Menu**, and select *Services*, *Settings* and *Connection settings*.
2. Select *Active service settings*.
3. Scroll to the connection set you would like to activate and press **Activate**.

You need to activate the connection set where you want to save the service settings. A connection set is a collection of settings required to make a connection to a service.

4. Select *Edit active service settings*.



Select each of the settings one by one and key in all the required settings according to the information you have received from your network operator or service provider. Note that all the bearer-related settings are in the *Bearer settings* menu.

Making a connection to a service

1. Firstly, make sure that the service settings of the service you want to use are activated. To activate the settings:
 - Press **Menu**, and select *Services*, *Settings* and *Connection settings*. Select *Active service settings* and scroll to the connection set you want to activate and press **Activate**.
2. Secondly, make a connection to the service. There are three ways to connect:
 - Open the start page, for example, the homepage of the service provider:
Press **Menu**, and select *Services* and *Home*, or in standby mode press and hold .
 - Select a bookmark of the service:
Press **Menu**, and 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.
 - Key in the address of the service:
Press **Menu**, and select *Services* and then *Go to address*. Key in the address of the service 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.





Browsing the pages of a service

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

Note that if GPRS is selected as the data bearer, the indicator  is shown on the top left of the display during browsing. If you receive a call or a text message, or make a call during a GPRS connection, the indicator  will be shown on the top right of the display to indicate

that the GPRS connection is suspended (on hold). After the call, for example, the phone tries to reconnect the GPRS connection.

Using the phone keys while browsing

- Use any of the scroll keys to browse through the page.
- To select a highlighted item, press .
- To enter letters and numbers, press the keys  -  and to enter special characters, press the key .

Options while browsing

Press **Options** and the following options may be available. The service provider may also offer other options. Select



- **Home** to return to the homepage.
- **Add bookmark** to save the page as a bookmark.
- **Bookmarks**. See Bookmarks on page 88.
- **Download links** to show the list of bookmarks for downloading.
- **Shortcuts** to open a new list of options that are, for example, specific to the page.
- **Other options** to show a list of other options, for example, options for wallet and some security options.
- **Reload** to reload and update the current page.
- **Quit**. See Disconnect from a service on page 87.

Direct calling

The multi-mode browser supports functions that you can access while browsing. You can make a voice call, send DTMF tones while a voice call is in progress, and save in contacts a name and a phone number from a page.

Disconnect from a service

To quit browsing and to end the connection, press **Options** and select **Quit**. When **Quit browsing?** is shown, press **Yes**.

Alternatively, press . If **GSM data** is the selected data bearer, press  twice. The phone ends the connection to the service.

Appearance settings of the multi-mode browser

1. While browsing, press **Options** and select *Other options* and *Appear. settings*,
or in standby mode, press **Menu**, and select *Services, Settings* and *Appearance settings*.
2. Select *Text wrapping*. Select *On* and the text continues on the next line if it cannot be shown on one line. If you select *Off*, the text is abbreviated if it is too long to be shown on one line.
Select *Show images*. Select *No* and any pictures appearing on the page are not shown. This can speed up the browsing of pages that contain a lot of pictures.

Cookies

A cookie is data that a 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 90.

1. While browsing, press **Options** and select *Other options, Security* and *Cookies*,
or in standby mode, press **Menu**, and select *Services, Settings, Security settings* and *Cookies*.
2. Select *Allow* or *Reject* to allow or prevent the phone receiving cookies.

A cache is a memory location that is used to store data temporarily. If you have tried to access or have accessed confidential information requiring passwords, empty the cache after each use. The information or services you have accessed is stored in the cache. To empty the cache, see The cache memory on page 90.

Bookmarks

You can save page addresses as bookmarks in the phone's memory.

1. While browsing, press **Options** and select *Bookmarks*,
or in standby mode, press **Menu**, and select *Services* and *Bookmarks*.
2. Scroll to the bookmark you want to use and press **Options**.

3. Select **Go to** to make a connection to the page associated with the bookmark. You can also view the title and the address of the selected bookmark, edit or delete the selected bookmark, or send it directly to another phone as a bookmark, or as an OTA message, or create a new bookmark.

Your device may have some bookmarks loaded 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 Internet site.

Receiving a bookmark

When you have received a bookmark (sent as a bookmark) **1 bookmark received** is displayed. Press **View**, then press **Options** and select **View** to view the bookmark, **Save** to save the bookmark, or **Discard** to discard it.

Downloading

1. To download more tones, images, games or applications to your phone, press **Menu**, and select **Services** and **Download links**.
2. Select **Tone downloads**, **Image downloads**, **Game downloads** or **App downloads** to download tones, images, games or applications, respectively.



Important: Only install applications from sources that offer adequate protection against harmful software.

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 an address of a service.

To access the **Service inbox** in standby mode, when you have received a service message, press **Show**.

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

To access the **Service inbox** while browsing, press **Options** and select **Other options** and **Service inbox**. Scroll to the message you want, press

Options. Select *Retrieve* to activate the multi-mode browser and download the marked content, or *Details* to display detailed information on the service notification, or select *Delete* to delete it.

Service inbox settings

Press **Menu**, and select *Services*, *Settings* and *Service inbox settings*.

- Select *Service messages* and *On* (or *Off*) to set the phone to receive (or not to receive) service message.
- Select *Automatic connection*. If you have set the phone to receive service messages and select *Automatic connection on*, the phone will automatically activate the browser when the phone has received a service message.

If you select *Automatic connection off*, the phone will activate the browser only after you have selected *Retrieve* when the phone has received a service message.

The cache memory

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. To empty the cache:

- while browsing, press **Options** and select *Other options* and *Clear the cache*, or
- in standby mode, press **Menu**, and select *Services*, and *Clear the cache*.

Browser security

Security features may be required for some services, such as banking services or shopping on a site. For such connections you need security certificates and possibly a security module which may be available on your SIM card. For more information, contact your service provider.

Security module

The security module can contain certificates as well as private and public keys. The security module may improve the security services for applications requiring browser connection, and allows you to use a

digital signature. The certificates are saved in the security module by the service provider.

Press **Menu** and select *Services*, *Settings*, *Security settings* and *Security module settings*. Select


- *Security module details* to show the security module title, its status, manufacturer and serial number.
- *Module PIN request* to set the phone to ask for the module PIN when using services provided by security module. Key in the code and select *On*. To disable the module PIN request, select *Off*.
- *Change module PIN* to change the module PIN, if allowed by the security module. Enter the current module PIN code, then enter the new code twice.
- *Change signing PIN*. Select the signing PIN you want to change. Enter the current PIN code, then enter the new code twice.

See also General information on page 8.

Certificates

There are three kinds of certificates: server certificates, authority certificates and user certificates.

- The phone uses a server certificate to improve security in connection between the phone and the gateway. The phone receives the server certificate from the service provider before the connection is established and its validity is checked using the authority certificates saved in the phone. Server certificates are not saved.

The security indicator  is displayed during a connection, if the data transmission between the phone and the gateway (identified by the *IP address* in the *Edit active service settings – Bearer settings*) is encrypted.

- Authority certificates are used by some services, such as banking services, for checking the validity of other certificates. Authority certificates can either be saved in the security module by the service provider, or they can be downloaded from the network, if the service supports the use of authority certificates.

- User certificates are issued to users by a Certifying Authority. User certificates are required, for example, to make a digital signature and they associate the user with a specific private key in a security module.

The security icon does not indicate that the data transmission between the gateway and the content server (or place where the requested resource is stored) is secure. The service provider secures the data transmission between the gateway and the content server.




Important: Note that even if the use of certificates makes the risks involved in remote connections and software installation considerably smaller, they must be used correctly in order to benefit from increased security. The existence of a certificate does not offer any protection by itself; the certificate manager must contain correct, authentic, or trusted certificates for increased security to be available. Certificates have a restricted lifetime. If Expired certificate or Certificate not valid yet is shown even if the certificate should be valid, check that the current date and time in your device are correct.

Before changing any certificate settings, you must make sure that you really trust the owner of the certificate and that the certificate really belongs to the listed owner.

Digital signature

You can make digital signatures with your phone. This feature requires support from your SIM card. The signature can be traced back to you via the private key on the security module and the user certificate that was used to perform the signature. Using the digital signature can be the same as signing your name to a paper bill, contract or other document.

To make a digital signature, select a link on a page, for example, the title of the book you want to buy and its price. The text to sign (possibly including amount, date, etc.) will be shown.

Check that the header text is *Read* and that the digital signature icon  is shown.



Note: If the digital signature icon does not appear, there is a security breach, and you should not enter any personal data such as your signing PIN.

To sign the text, read all of the text first and then you can select *Sign*.



Note: The text may not fit within a single screen. Therefore, make sure to scroll through and read all of the text before signing.

Select the user certificate you want to use. Key in the signing PIN (see General information on page 8) and press **OK**. The digital signature icon will disappear, and the service may display a confirmation of your purchase.

■ Go to (Menu 15)

To access some specific functions quickly, press **Menu** and select *Go to* and select the desired function from the list.



If there are no functions on the list, press **Add**, scroll to the function that you want to add to the list and press **Mark**.

To remove or add more functions on the list, see Personal shortcuts on page 54.

■ SIM services (Menu 16)

In addition to the functions available on the phone, your SIM card may provide additional services that you can access in Menu 16. Menu 16 is shown only if it is supported by your SIM card. The name and contents of the menu depend entirely on the service available.



You can set the phone to show you the confirmation messages sent between your phone and the network when you are using the SIM services by selecting the option *Yes* within the menu *Confirm SIM service actions* in *Phone settings*.

Note that accessing these services may involve sending a text message (SMS) or making a phone call for which you may be charged.

7. PC Connectivity

You can send and receive e-mails, and access the Internet when your phone is connected to a compatible PC via an IR connection or a data cable. You can use your phone with a variety of PC connectivity and data communications applications. With PC Suite you can, for example, send text messages, synchronise contacts, calendar and to-do notes between your phone and the compatible PC

You may find more information and downloadable files on the Nokia website, <http://www.nokia.com/pcsuite>.

■ PC Suite

The PC Suite contains the following applications:

- **Nokia Application Installer** to install Java applications from the compatible PC to the phone.
- **Nokia Image Converter** to make images in supported formats usable for multimedia messages or wallpaper and to transfer them to your phone.
- **Nokia Sound Converter** to optimise MIDI sounds to be compatible with your phone and to transfer them to your phone.
- **Nokia Content Copier** to back up and restore personal data between your phone and PC. You can also transfer content between multiple Nokia phones.
- **Nokia Phone Editor** to send text messages and to edit the contacts and message settings of your phone.
- **Nokia Phone Browser** to view the contents of the Gallery folder of your phone on a compatible PC. You can browse picture and audio files and also modify files in the phone's memory and transfer files between the phone and the PC.
- **Nokia PC Sync** to synchronise contacts, calendar and to-do notes between your phone and a compatible PC.

- **Nokia Multimedia Player** plays the multimedia messages you receive via e-mail and audio, image, and video files. You can also create playlists of your favourite multimedia files.
- Nokia 6610i data modem drivers enable you to use your phone as a modem.
- **Nokia Modem Options** contains settings for HSCSD and GPRS connections.
- **Nokia Connection Manager** to select the connection type between the PC and the phone.

Copyright protections may prevent some images, ringing tones and other content from being copied, modified, transferred or forwarded.

GPRS, HSCSD and CSD

With your phone you can use GPRS (General Packet Radio Service), HSCSD (High Speed Circuit Switched Data) and CSD (Circuit Switched Data, *GSM data*) data services.

For availability and subscription to data services, contact your network operator or service provider.

Note that the use of the HSCSD service consumes the phone's battery faster than normal voice or data calls. You may need to connect the phone to a charger for the duration of data transfer.

See GPRS modem settings on page 83.

■ Using data communication applications

For information on using a data communication application, refer to the documentation provided with it.

Note that making or answering phone calls during a computer connection is not recommended as it might disrupt the operation.

For better performance during data calls, place the phone on a stationary surface with the keypad facing downward. Do not move the phone or hold it in your hand during a data call.

8. Battery information

■ Charging and Discharging

Your device is powered by a rechargeable battery. The full performance of a new battery 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 talk and standby times are noticeably shorter than normal, buy a new battery. Use only Nokia approved batteries, and recharge your battery only with Nokia approved chargers designated for this device.

Unplug the charger from the electrical plug and the device when not in use. Do not leave the battery connected to a charger. Overcharging may shorten its lifetime. If left unused, a fully charged battery will lose its charge over time. Temperature extremes can affect the ability of your battery to charge.

To prolong battery life of NiMh batteries, discharge the battery from time to time by leaving your device switched on until it turns itself off. Do not attempt to discharge the battery by any other means.

Use the battery only for its intended purpose. Never use any charger or battery that is damaged.

Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object such as a coin, clip, or pen causes direct connection of the positive (+) and negative (-) terminals of the battery. (These look like metal strips on the battery.) This might happen, 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 device with a hot or cold battery may not work temporarily, even when the battery is fully charged. Battery performance is particularly limited in temperatures well below freezing.

Do not dispose of batteries in a fire! Dispose of batteries according to local regulations. Please recycle when possible. Do not dispose as household waste.

9. Technical Information

Weight.....	87 grams (3,07 ounces) with BLD-5 battery
Battery.....	850 mAh Li-Ion Battery
Networks.....	Wireless networks GSM 900, 1800 and 1900
Size (volume).....	4.39 cubic inches (72 cc)
Frequency range (Rx)	
.....	EGSM 900: 925 - 960 MHz
.....	GSM 900: 935 - 960 MHz
.....	GSM1800: 1805 - 1880 MHz
.....	GSM1900: 1930 - 1990 MHz
Frequency range (Tx)	
.....	EGSM 900: 880 - 915 MHz
.....	GSM 900: 890 - 915 MHz
.....	GSM 1800: 1710 - 1785 MHz
.....	GSM1900: 1850 - 1910 MHz
Tx output power.....	2 W (max)
Battery voltage.....	3.7 V DC
Number of channels.....	299

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 fulfil any warranty obligations and to enjoy this product for many years.

- Keep the phone and all its parts and accessories out of the reach of small children.
- Keep the phone dry. Precipitation, humidity and all types of liquids or moisture can contain minerals that will corrode electronic circuits.
- Do not use or store the phone in dusty, dirty areas. Its moving parts can be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When it warms up (to its normal temperature), moisture can form inside, which may damage electronic circuit boards.
- Do not attempt to open the phone. Nonexpert handling may damage it.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the phone.
- Do not paint the phone. Paint can clog the 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 governing radio devices.

All of the above suggestions apply equally to your phone, battery, charger or any accessory. If any of them is not working properly, take it 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 handheld telephone while driving a vehicle. 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.

Remember road safety always comes first!

■ Operating environment

Remember to follow any special regulations and always switch off your phone wherever forbidden, or when it may cause interference or danger.

Use the phone only in its normal operating positions.

When connecting the phone or accessory to another device, read its user's guide for safety instructions. Don't connect incompatible products. As with other mobile radio transmitting equipment, users are advised to operate this equipment only in the normal operating position (held to your ear with the antenna pointing over your shoulder).

■ 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 a distance of 6 inches (20 cm) be maintained between a handheld wireless phone and a pacemaker to avoid interference with the pacemaker. These recommendations are consistent with independent research and recommendations of Wireless Technology Research.

PERSONS WITH A 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 hearing aids. In the event of such interference, consult your wireless 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 (for example, electronic fuel injection systems, electronic antiskid/antilock 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 refueling 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 liquefied 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.

■ Aircraft

FCC regulations prohibit using your phone while in the air. 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, legal action, or both.



■ Emergency calls

Important: This phone, like any wireless phone, operates using radio signals, wireless, and landline networks as well as userprogrammed functions. Because of this, connections in all conditions cannot be guaranteed. Therefore you should never rely solely upon any wireless phone for essential communications (for example, medical emergencies).

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 service providers.

MAKING AN EMERGENCY CALL

Note: Some networks may require that a valid SIM card be properly inserted in the phone. Official emergency numbers vary by location (for example, 911 or other official emergency number).

- 1. If the phone is not on, switch it on. Check for adequate signal strength.
2. Press  as many times as needed (for example, to exit a call, to exit a menu, etc.) to clear the display and ready the phone for calls.
3. Enter the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
4. Press the  key.

If certain features are in use, you may first need to turn those features off before you can make an emergency call. Consult this user guide 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 end the call until given permission to do so.

■ CERTIFICATION INFORMATION (SAR)

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model.

The highest SAR value for this model phone as reported to the FCC when tested for use at the ear is 0.97W/kg and when worn on the body, as described in this user guide, is 1.05W/kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements).

While there may be differences between the SAR levels of various phones and at various positions, they all meet the government

requirement. The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID LJPRM-37

For body-worn operation, this phone has been tested and meets the FCC RF exposure guidelines for use with a carry case, belt clip or holder that contains no metal and that positions the handset a minimum of 7/8 inch (2.2 cm) from the body. Use of other carry cases, belt clips or holders may not ensure compliance with the FCC RF exposure guidelines. If you do not use a body-worn enhancement and are not holding the phone at the ear, position the handset a minimum of 7/8 inch (2.2 cm) from your body when the phone is switched on.

*In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements. SAR values may vary depending on national reporting requirements and the network band. For SAR information in other regions please look under product information at www.nokia.com.

APPENDIX

■ A message from the CTIA

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Safety is the most important call you will ever make.

A Guide to Safe and Responsible Wireless Phone Use

Tens of millions of people in the U.S. today take advantage of the unique combination of convenience, safety and value delivered by the wireless telephone. Quite simply, the wireless phone gives people the powerful ability to communicate by voice--almost anywhere, anytime--with the boss, with a client, with the kids, with emergency personnel or even with the police. Each year, Americans make billions of calls from their wireless phones, and the numbers are rapidly growing.

But an important responsibility accompanies those benefits, one that every wireless phone user must uphold. When driving a car, driving is your first responsibility. A wireless phone can be an invaluable tool, but good judgment must be exercised at all times while driving a motor vehicle--whether on the phone or not.

The basic lessons are ones we all learned as teenagers. Driving requires alertness, caution and courtesy. It requires a heavy dose of basic common sense---keep your head up, keep your eyes on the road, check your mirrors frequently and watch out for other drivers. It requires obeying all traffic signs and signals and staying within the speed limit. It means using seatbelts and requiring other passengers to do the same.

But with wireless phone use, driving safely means a little more. This brochure is a call to wireless phone users everywhere to make safety their first priority when behind the wheel of a car. Wireless telecommunications is keeping us in touch, simplifying our lives, protecting us in emergencies and providing opportunities to help others in need.

When it comes to the use of wireless phones, *safety is your most important call.*

Wireless Phone "Safety Tips"

Below are safety tips to follow while driving and using a wireless phone which should be easy to remember.

1. Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.
2. When available, use a hands free device. A number of hands free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.
3. Position your wireless phone within easy reach. Make sure you place your wireless phone within easy reach and where you can grab it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.
4. Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.
5. Do not take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a "to do" list while driving a car, you are not watching where you are going. It's common sense. Don't get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise

stationary. But if you need to dial while driving, follow this simple tip--dial only a few numbers, check the road and your mirrors, then continue.

7. Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix--they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations--with your phone at your side, help is only three numbers away. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!
9. Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a "Good Samaritan" in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special wireless non-emergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you still can use your wireless phone to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

Careless, distracted individuals and people driving irresponsibly represent a hazard to everyone on the road. Since 1984, the Cellular Telecommunications Industry Association and the wireless industry have conducted educational outreach to inform wireless phone users of their responsibilities as safe drivers and good citizens. As we approach a new century, more and more of us will take advantage of the benefits of

wireless telephones. And, as we take to the roads, we all have a responsibility to drive safely.

The wireless industry reminds you to use your phone safely when driving.

For more information, please call 1-888-901-SAFE.

For updates: <http://www.wow-com.com/consumer/issues/driving/articles.cfm?ID=85>

■ A message from the U.S. Food and Drug Administration to all users of mobile phones

© July 18, 2001 For updates: <http://www.fda.gov/cdrh/phones>.

Consumer Update on Wireless Phones U.S. Food and Drug Administration

1. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

2. What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to

notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

3. What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called cell mobile or PCS phones. These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called cordless phones; which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

4. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about

long-term exposures, since the average period of phone use in these studies was around three years.

5. What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists.

Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

6. What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF).

FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial

research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

7. How can I find out how much radiofrequency energy exposure I can get by using my wireless phone?

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects. Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fcc.gov/oet/rfsafety>) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

8. What has FDA done to measure the radiofrequency energy coming from wireless phones?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques, sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different

laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

9. What steps can I take to reduce my exposure to radiofrequency energy from my wireless phone?

If there is a risk from these products--and at this point we do not know that there is--it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

10. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children

was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a accompanied hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

12. Where can I find additional information?

For additional information, please refer to the following resources:

- FDA web page on wireless phones
<http://www.fda.gov/cdrh/phones/index.html>
- Federal Communications Commission (FCC) RF Safety Program
<http://www.fcc.gov/oet/rfsafety>
- International Commission on Non-Ionizing Radiation Protection
<http://www.icnirp.de>

- World Health Organization (WHO) International EMF Project
<http://www.who.int/emf>
- National Radiological Protection Board (UK)
<http://www.nrpb.org.uk/>

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For updates: <http://www.fda.gov/cdrh/phones>