

User's Guide for Nokia 3220

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CE 168

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Issue 3

Contents

For your safety.....	6	Options during a call.....	20
General information	9	4. Write text.....	22
Overview of functions.....	9	Settings	22
Access codes.....	9	Predictive text input.....	22
Security code.....	9	Write compound words.....	22
PIN codes.....	9	Traditional text input	23
PUK codes	9	5. Navigate the menus.....	24
Barring password	10	6. Messages.....	25
Wallet code.....	10	Text messages (SMS).....	25
Configuration settings service.....	10	Write and send a SMS message	26
Download content and applications	10	Read and reply to a SMS message	26
Nokia support and contact		Templates	27
information	11	Saved items folder and My folders	27
1. Get started	12	Multimedia messages (MMS)	27
Installing the SIM card and the		Write and send a multimedia	
battery	12	message	27
Charge the battery.....	13	Read and reply to a multimedia	
Switch the phone on and off.....	14	message	28
Antenna.....	14	Message folders.....	29
Wrist strap.....	14	Memory full.....	29
Changing the covers.....	14	Flash messages.....	30
Changing the grips.....	15	Write a message.....	30
Creating cut-out covers	15	Receive a message.....	30
Changing the cut-out cover.....	16	Instant messaging (IM)	30
2. Your phone	17	Access the menu	30
Keys and parts.....	17	Connect to the instant messaging	
Standby mode	17	service	31
Personal shortcut list.....	18	Start an instant messaging session	31
Shortcuts in the standby mode.....	18	Accept or reject an invitation	32
Power saving.....	18	Read a message.....	32
Indicators	18	Participate in a conversation.....	32
Keypad lock (keyguard).....	19	Edit your availability status.....	32
3. Call functions	20	Contacts for instant messaging.....	32
Make a call.....	20	Block and unblock messages	33
Speed dialing.....	20	Groups.....	33
Answer or reject a call.....	20	E-mail application.....	33
Call waiting	20	Write and send an e-mail.....	34
		Download e-mail.....	34

Read and reply to e-mail.....	34	Themes.....	45
Inbox and other folders.....	35	Tones.....	45
Delete e-mail messages.....	35	Light settings.....	45
Voice messages.....	35	Personal shortcuts.....	46
Info messages.....	35	Display.....	46
Service commands.....	35	Time and date.....	46
Delete messages.....	35	Call.....	47
Message settings.....	36	Phone.....	47
Text and SMS e-mail.....	36	Connectivity.....	48
Multimedia.....	36	Packet data (EGPRS).....	48
E-mail.....	37	Enhancements.....	49
Font size.....	37	Configuration.....	49
Message counter.....	37	Security.....	50
7. Call register.....	38	Restore factory settings.....	51
Recent calls lists.....	38	10. Operator menu.....	52
Counters and timers.....	38	11. Gallery.....	53
Positioning information.....	38	12. Media.....	54
8. Contacts.....	39	Camera.....	54
Search for a contact.....	39	Take a photo.....	54
Save names and phone numbers.....	39	Record a video clip.....	54
Save numbers, items, or an image ...	39	Recorder.....	54
Copy contacts.....	40	Record sound.....	54
Edit contact details.....	40	Options after recording.....	55
Delete contacts or contact details...	40	13. Organizer.....	56
Business cards.....	40	Alarm clock.....	56
My presence.....	40	Stop the alarm.....	56
Subscribed names.....	41	Calendar.....	56
Add contacts to the subscribed names.....	41	Make a calendar note.....	56
View the subscribed names.....	42	A note alarm.....	57
Unsubscribe a contact.....	42	To-do list.....	57
Settings.....	42	Notes.....	57
Speed dialing.....	42	Synchronization.....	57
Voice dialing.....	43	Server synchronization.....	58
Add and manage voice tags.....	43	PC synchronization.....	58
Make a call with a voice tag.....	43	14. Applications.....	59
Service numbers.....	44	Games and applications.....	59
My numbers.....	44	Game and application downloads.....	59
Caller groups.....	44	Game settings.....	60
9. Settings.....	45	Memory status.....	60
Profiles.....	45	Calculator.....	60

Countdown timer	60	Audio.....	77
Stopwatch	61	Boom Headset (HDB-4).....	77
Wallet	61	20. Care and maintenance.....	78
Access the wallet menu	62	21. Additional safety	
Create a wallet profile.....	62	information.....	79
Wallet settings	62	Index.....	83
Making purchases with the wallet	62		
15. Web.....	64		
Set up browsing.....	64		
Connect to a service.....	64		
Browse pages.....	65		
Browse with phone keys	65		
Options while browsing	65		
Direct calling.....	65		
Appearance settings.....	65		
Cookies	66		
Scripts over secure connection	66		
Bookmarks.....	66		
Receive a bookmark	67		
Download files	67		
Service inbox	67		
Service inbox settings.....	67		
Cache memory	68		
Browser security.....	68		
Security module	68		
Certificates	69		
Digital signature.....	69		
16. SIM services.....	71		
17. PC connectivity	72		
PC Suite.....	72		
Packet data, HSCSD, and CSD.....	72		
Data communication applications...	72		
18. Battery information	73		
Charging and discharging.....	73		
Nokia Battery Authentication			
Guidelines.....	73		
19. Genuine Enhancements ...	76		
Power	76		
Standard Charger (ACP-7).....	76		
Travel Charger (ACP-12)	77		

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

Do not use the phone at a refuelling point. Do not use near fuel or chemicals.



SWITCH OFF NEAR BLASTING

Follow any restrictions. Do not use the phone where blasting is in progress.



USE SENSIBLY

Use only in the normal position as explained in the product documentation. Do not 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.



WATER-RESISTANCE

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



BACK-UP COPIES

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



CONNECTING TO OTHER DEVICES

When connecting to any other device, read its user guide for detailed safety instructions. Do not connect incompatible products.



EMERGENCY CALLS

Ensure the phone is switched on and in service. Press the end key as many times as needed to clear the display and return to the start screen. Enter the emergency number, then press the call key. 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 and GSM 1800 and 1900 networks. Contact your service provider for more information about networks.

When using the features in this device, obey all laws and respect the 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. Your device may also have been specially configured for your network provider. This configuration may include changes in menu names, menu order and icons. Contact your service provider for more information.

This device supports WAP 2.0 protocols (HTTP and SSL) that run on TCP/IP protocols. Some features of this device, such as text messages, multimedia messages, instant messaging service, e-mail application, presence enhanced contacts, mobile Internet services, content and application download, and synchronization with a remote Internet server, require network support for these technologies.

Shared memory

The following features in this device may share memory: contacts, text messages, instant messages, SMS e-mail, voice tags, calendar, and notes. Use of one or more of these features may reduce the memory available for the remaining features sharing memory. For example, saving many SMS e-mail 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 contacts, text messages, instant messages and SMS e-mail may have a certain amount of memory specially allotted to them in addition to the memory shared with other features.

Enhancements

A few practical rules about accessories and enhancements are as follows:

- 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

■ Overview of functions

Your phone provides many functions that are practical for daily use, such as a calendar, a clock, an alarm clock, and a built-in camera. Your phone also supports the following functions:

- Multimedia messaging. See ["Multimedia messages \(MMS\)"](#) p. 27.
- Instant messages. See ["Instant messaging \(IM\)"](#) p. 30.
- E-mail. See ["E-mail application"](#) p. 33.
- Presence-enhanced contacts. See ["My presence"](#) p. 40.
- EDGE (Enhanced Data rates for GSM Evolution). See ["Packet data \(GPRS\)"](#) p. 48.
- Java 2 Platform, Micro Edition, J2ME®. See ["Applications"](#) p. 59.
- XHTML browser. See ["Web"](#) p. 64.

■ Access codes

Security code

The security code (5 to 10 digits) helps to protect your phone against unauthorized use. The preset code is 12345. To change the code and set the phone to request the code, see ["Security"](#) p. 50.

PIN codes

The personal identification number (PIN) code and the universal personal identification number (UPIN) code (4 to 8 digits) help to protect your SIM card against unauthorized use. See ["Security"](#) p. 50.

The PIN2 code (4 to 8 digits) may be supplied with the SIM card and is required for some functions.

The module PIN is required to access the information in the security module. See ["Security module"](#) p. 68.

The signing PIN is required for the digital signature. See ["Digital signature"](#) p. 69.

PUK codes

The personal unblocking key (PUK) code and the universal personal unblocking key (UPUK) code (8 digits) is required to change a blocked PIN code and UPIN code, respectively. The PUK2 code (8 digits) is required to change a blocked PIN2 code. If the codes are not supplied with the SIM card, contact your local service provider for the codes.

Barring password

The barring password (4 digits) is required when using the *Call barring service*. See "Security" p. 50.

Wallet code

The wallet code (4 to 8 digits) is required to access the wallet services. For further information, see "Wallet" p. 61.

■ Configuration settings service

To use some of the network services, such as mobile Internet services, MMS, or remote Internet server synchronization, your phone must have the correct configuration settings. You may be able to receive the settings directly as a configuration message. After receiving the settings you must save them on your phone. The service provider may provide a PIN that is needed to save the settings. For more information on availability, contact your network operator, service provider, nearest authorized Nokia dealer, or visit the support area on the Nokia Web site, <www.nokia-asia.com/support>.

When you have received a configuration message, *Configuration sett. received* is displayed.

To save the settings, select **Show** > **Save**. If the phone requests *Enter settings' PIN*;, enter the PIN code for the settings, and select **OK**. To receive the PIN code, contact the service provider that supplies the settings. If no settings are saved yet, these settings are saved and set as default configuration settings. Otherwise, the phone asks *Activate saved configuration settings?*

To discard the received settings, select **Exit** or **Show** > **Discard**.

To edit the settings, see "Configuration" p. 49.

■ Download content and applications

You may be able to download new content (for example, themes) to the phone (network service). Select the download function (for example, in the *Gallery* menu). To access the download function, see the respective menu descriptions. For the availability of different services, pricing, and tariffs, contact your service provider.



Important: Use only services that you trust and that offer adequate security and protection against harmful software.

■ Nokia support and contact information

For the latest version of this guide, downloads, services and additional information related to your Nokia product, please visit www.nokia-asia.com/support or your local Nokia web site. You may also download free configuration settings such as MMS, GPRS, e-mail, and other services for your phone model at www.nokia-asia.com/phonesettings.

Should you still require assistance, please refer to www.nokia-asia.com/contactus.

To check for the nearest Nokia care center location for maintenance services, you may like to visit www.nokia-asia.com/repair.

1. Get started

■ Installing the SIM card and the battery

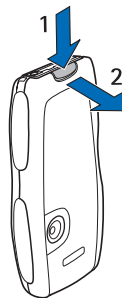
Keep all SIM cards out of the reach of small children. For availability and information on using SIM card services, contact your SIM card vendor. This may be the service provider, network operator, or other vendor.



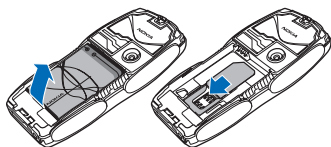
Note: Always switch off the power and disconnect the charger and any other device before removing the cover. Avoid touching electronic components while changing the cover. Always store and use the device with the covers attached.

1. To remove the back cover of the phone: Push the back cover release button (1) and gently prise the back cover away from the phone beginning at the

bottom of the phone (2).

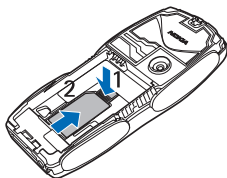


2. Remove the battery by lifting it as shown. Insert the SIM card into the SIM card holder until it snaps into position. Make sure that the SIM card is properly inserted and that the golden contact area on the card is facing downwards.

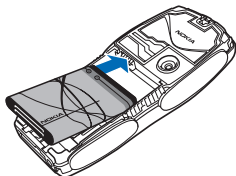


3. To remove the SIM card press the card release (1) and slide the SIM

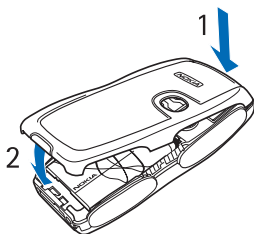
card towards the top of the phone (2).



4. Replace the battery. Observe the contacts of the battery.



5. Align the top of the back cover with the top of the phone (1), press the bottom of the back cover to lock it (2).



■ Charge the battery



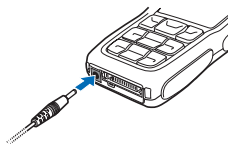
Warning: Use only batteries, chargers, and enhancements approved by Nokia for use with this particular model. The use of any other types may

invalidate any approval or warranty, and may be dangerous.

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

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.

1. Connect the charger to a wall socket.



2. Connect the lead from the charger to the socket on the bottom of your phone.

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

The charging time depends on the charger and the battery used. For example, charging a battery with the ACP-12 charger takes approximately 1 hour and 20 minutes while the phone is in the standby mode.

■ Switch the phone on and off



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



Press and hold the power key.

If the phone asks for a PIN or a UPIN code, enter the code (displayed as ****), and select **OK**.

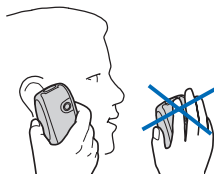
■ Antenna

Your device has an internal antenna.



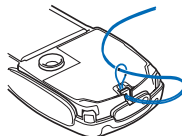
Note: As with any other radio transmitting device, do not touch the antenna unnecessarily when the device is switched on. Contact with the antenna affects call quality and may cause the device to operate at a higher power level than otherwise needed. Avoiding contact with the antenna area when operating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

device optimizes the antenna performance and the battery life.



■ Wrist strap

Remove the back cover and thread the strap as shown in the picture and tighten it. Replace the back cover.



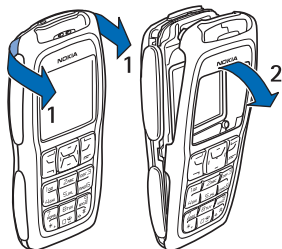
■ Changing the covers



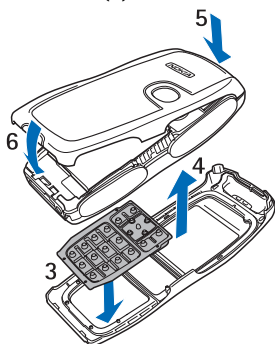
Note: Before removing the cover, always switch off the power and disconnect the charger and any other device. Avoid touching electronic components while changing the covers. Always store and use the device with the covers attached.

1. Remove the back cover from the phone as described on page 12.
2. Remove the front cover from the phone. For this gently prise the front cover away from the phone

beginning at the top of the phone (1) and detach the front cover (2).



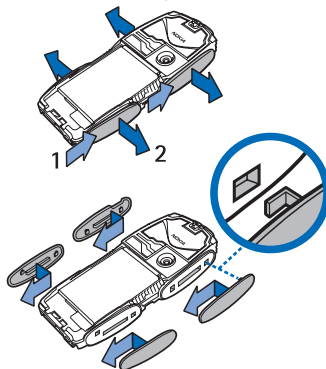
3. Remove the key mat from the front cover by taking it out gently.
4. Place the key mat in the new front cover (3).



5. Replace the front cover by pressing it gently onto the phone until it snaps into position (4).
6. Align the top of the back cover with the top of the phone (5), press the bottom of the back cover to lock it (6).

■ Changing the grips

1. Remove the covers from the phone. See ["Changing the covers"](#) on page 14.
2. To remove the grips slide them to the top of the phone (1), then remove the grip (2).



3. Replace the grips as shown.
4. Replace the covers of the phone. See ["Changing the covers"](#) on page 14.

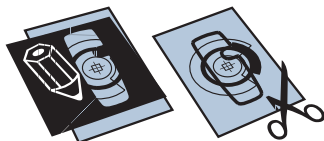
■ Creating cut-out covers

Use the plastic stencil to create a cut-out cover using your own design.



Note: Use normal, plain paper as found in standard printers or use a photo print that is not thicker than 0.3 mm. To avoid affecting the antenna performance the material must not contain metal particles.

1. Place the stencil in the correct position and draw the outline.



2. Carefully cut out your new cut-out cover.

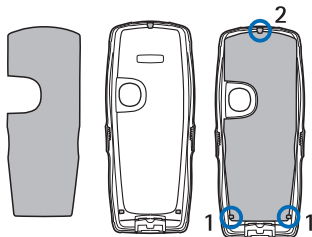


Tip: The Nokia PC Suite provides within the image editor a tool to create cut-out covers.

■ Changing the cut-out cover

1. Remove the back cover from the phone. See "[Changing the covers](#)" on page [14](#).

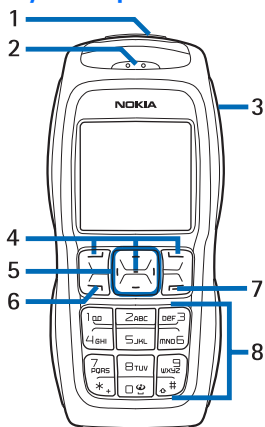
2. Remove the cut-out cover from the back cover.



3. Place the new cut-out cover into the back cover by sliding the cut-out cover under the two guides at the bottom (1) and then under the guide at the top (2).
4. Replace the back cover.

2. Your phone

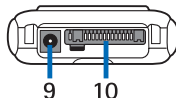
■ Keys and parts



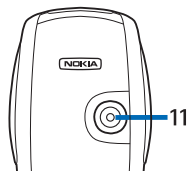
Note: The keymat may vary according to different markets.

- Power key (1)
- Earpiece (2)
- Loudspeaker (3)
- Left selection, middle selection, and right selection key (4)
- 4-way navigation key (5)
- Call key (6)
- End key (7)
- Keypad (8)
(depending on your region)

- Charger connector (9)



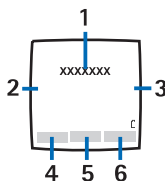
- Pop-Port™ connector (10)
- Camera lens (11)



■ Standby mode

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

- Name of the network or the operator logo (1)



- Signal strength of the cellular network at your current location (2)
- Battery charge level (3)
- Left selection key is **Go to** (4)
- Middle selection key is **Menu** (5)

- Right selection key is **Names** (6) or another shortcut to a function that you select. See "[Personal shortcuts](#)" p. 46. Operator variants may have an operator-specific name to access an operator-specific Web site.

Personal shortcut list

The left selection key is **Go to**.

To view the functions in the personal shortcut list, select **Go to**. To activate a function select it.

To view a list with available functions, select **Go to > Options > Select options**. To add a function to the shortcut list, select **Mark**. To remove a function from the list, select **Unmark**.

To rearrange the functions on your personal shortcut list, select **Go to > Options > Organise**. Select the desired function, **Move**, and the place where you want to move the function.

Shortcuts in the standby mode

To access the list of dialed numbers, press the call key once. Scroll to the number or name that you want; and to call the number, press the call key.

To open the web browser, press and hold 0.

To call your voice mailbox, press and hold 1.

Use the navigation key as a shortcut. Press the navigation key right to access the calendar, left to start writing an SMS message, up to activate the camera and down to access the list of contacts.

Power saving

For power saving, a digital clock view overwrites the display when no phone function has been used for a certain period of time. Press any key to deactivate the screen saver.



Indicators















You have received one or several text, picture or multimedia messages. See "[Read and reply to a SMS message](#)" p. 26 or "[Read and reply to a multimedia message](#)" p. 28.



The phone has registered a missed call. See "[Call register](#)" p. 38.



Your phone is connected to the instant messaging service and the availability status is online or offline, respectively. See "[Connect to the instant messaging service](#)" p. 31.

-  You have received one or several instant messages and you are connected to the instant messaging service. See "[Connect to the instant messaging service](#)" p. 31.
-  The phone keypad is locked. See "[Keypad lock \(keyguard\)](#)" p. 19.
-  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 "[Tones](#)" p. 45.
-  The alarm clock is set to *On*. See "[Alarm clock](#)" p. 56.
-  When the EGPRS connection mode *Always online* is selected and the EGPRS service is available, the indicator is shown on the top left of the display. See "[Packet data \(EGPRS\)](#)" p. 48.
-  When the EGPRS connection is established, the indicator is shown on the top left of the display. See "[Packet data \(EGPRS\)](#)" p. 48 and "[Browse pages](#)" p. 65.
-  The EGPRS connection is suspended (on hold), for example if there is an incoming or outgoing call during the EGPRS dial-up connection.
-  The loudspeaker has been activated, see "[Options during a call](#)" p. 20.
-  Calls are limited to a closed user group. See "[Security](#)" p. 50.
-  A headset or handsfree is connected.
-   A loopset or music stand is connected.

■ Keypad lock (keyguard)

To prevent the keys from being accidentally pressed, select **Menu**, and press * within 3.5 seconds to lock the keypad.

To unlock the keypad, select **Unlock**, and press *.

To answer a call when the keyguard is on, press the call key. When you end or reject the call, the keypad automatically locks.

For *Automatic keyguard*, see "[Phone](#)" p. 47.

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

3. Call functions

■ Make a call

1. Enter the phone number, including the area code.
For international calls, press * twice for the international prefix (the + character replaces the international access code) and then enter the country code, the area code without the leading 0, if necessary, and the phone number.
2. To call the number, press the call key.
3. To end the call or to cancel the call attempt, press the end key.

To make a call using names, search for a name or phone number in *Contacts*, see "[Search for a contact](#)" p. 39. Press the call key to call the number.

To access the list of up to 20 numbers you last called or attempted to call, press the call key once in the standby mode. To call the number, select a number or name, and press the call key.

Speed dialing

Assign a phone number to one of the speed-dialing keys, 2 to 9. See "[Speed dialing](#)" p. 42. Call the number in either of the following ways:

- Press a speed-dialing key, then the call key.
- If *Speed dialling* is set to *On*, press and hold a speed-dialing key until the call begins. See *Speed dialling* in "[Call](#)" p. 47.

■ Answer or reject a call

To answer an incoming call, press the call key. To end the call, press the end key.

To reject an incoming call, press the end key.

To mute the ringing tone, select **Silence**.

If a compatible headset supplied with the headset key is connected to the phone, to answer and end a call, press the headset key.

Call waiting

To answer the waiting call during an active call, press the call key. The first call is put on hold. To end the active call, press the end key.

To activate the *Call waiting* function, see "[Call](#)" p. 47.

■ Options during a call

Many of the options that you can use during a call are network

services. For availability, contact your network operator.

During a call, select **Options** and from the following options:

Call options are *Mute* or *Unmute*, *Contacts*, *Menu*, *Record*, *Lock keypad*, *Auto volume on* or *Auto volume off*, *Loudspeaker* or *Handset*.

Network services options are *Answer* and *Reject*, *Hold* or *Unhold*, *New call*, *Add to conference*, *End call*, *End all calls*, and the following:

Send DTMF — to send tone strings

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

Conference — to make a conference call that allows up to five persons to take part in a conference call



Private call —to discuss privately in a conference call



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

4. Write text

You can enter text (for example, when writing messages) using traditional or predictive text input. When using traditional text input, press a number key, 1 to 9, repeatedly until the desired character appears. In predictive text input you can enter a letter with a single keypress.

When you are writing text, predictive text input is indicated by  and traditional text input by  at the top left of the display. **abc**, **abc**, or **ABC** appear next to the text input indicator, indicating the character case.

To change the character case and the text input mode, press **#**. **123** indicates number mode. To change from the letter to number mode, press and hold **#**, and select *Number mode*.

■ Settings

To set the writing language, select **Options** > *Dictionary* and the desired language. Predictive text input is only available for the languages listed.

Select **Options** > *Dictionary off* to set traditional text input.

■ Predictive text input

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 2 to 9 keys. Press each key only once for a single letter. The word changes after each keypress.
2. When you have finished writing the word and it is correct, to confirm it, press **0** to add a space, or press any of the navigation keys. Press a navigation key to move the cursor.

If the word is not correct, press ***** repeatedly, or select **Options** > *Matches*. When the word that you want appears, confirm it.

If **?** is displayed after the word, the word you intended to write is not in the dictionary. To add the word to the dictionary, select **Spell**. Enter the word (traditional text input is used), and select **Save**.

3. Start writing the next word.

Write compound words

Enter the first part of the word, and press the navigation key right to confirm it. Write the last part of the word, and confirm the word.

■ Traditional text input

Press a number key, 1 to 9, 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 *Phone language* menu, see "Phone" p. 47.

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 navigation keys and enter the letter.

The most common punctuation marks and special characters are available under the 1 key.

5. Navigate the menus

The phone offers you an extensive range of functions that are grouped into menus.

1. To access the menu, select **Menu**.
2. Use the navigation key to scroll through the menu and select a submenu (for example, *Settings*). To change the menu view, see *Menu view* in "Display" p. 46.
3. If the menu contains submenus, select the one that you want (for example *Call settings*).
4. If the selected menu contains further submenus, select the one that you want (for example, *Anykey answer*).
5. Select the setting of your choice.
6. To return to the previous menu level, select **Back**. To exit the menu, select **Exit**.

6. Messages



The message services can only be used if they are supported by your network or your service provider.



Note: When sending messages, your phone 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.



Important: Exercise caution when opening messages. Messages may contain malicious software or otherwise be harmful to your device or PC.



Note: Only devices that have compatible features can receive and display messages. The appearance of a message may vary depending on the receiving device.

■ Text messages (SMS)

Using the short message service (SMS) you can send and receive multipart messages made of several ordinary text messages (network service) that can contain pictures.

Before you can send any text, picture, or e-mail message, you must save your message center number. See ["Message settings" p. 36](#).

To check SMS e-mail service availability and to subscribe to the service, contact your service provider.

Your device supports the sending of text messages beyond the character limit for a single message. Longer messages will be sent as a series of two or more messages. Your service provider may charge accordingly. Characters that use accents or other marks, and characters from some language options like Chinese, take up more space limiting the number of characters that can be sent in a single message.

At the top of the display, you can see the message length indicator that tracks the number of characters available. For example, 10/2 means that you can still add 10 characters for the text to be sent as two messages.

Write and send a SMS message

1. Select **Menu** > *Messages* > *Create message* > *Text message*.
2. Enter a message. See "Write text" p. 22. To insert text templates or a picture into the message, see "Templates" p. 27. Each picture message comprises several text messages. Sending one picture or multipart message may cost more than sending one text message.
3. To send the message, select **Send**, or press the call key.





Note: The picture message function can be used only if it is supported by your network operator or service provider. Only compatible devices that offer picture message features can receive and display picture messages. The appearance of a message may vary depending on the receiving device.

Options for sending a message


After you have written a message, select **Options** > *Sending options* > *Send to many* to send the message to several recipients. Select *Send as e-mail* to send a message as an SMS e-mail (network service). Select *Sending profile* to use a predefined message profile. To define a message

profile, see "Text and SMS e-mail" p. 36.

Read and reply to a SMS message

 is shown when you received an SMS message or an SMS e-mail. 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.

1. To view a new message, select **Show**. To view it later, select **Exit**.



To read the message later, select **Menu** > *Messages* > *Inbox*. If more than one message is received, select the message that you want to read.  indicates an unread message.

2. While reading a message, select **Options**, and delete or forward the message; edit the message as a text message or an SMS e-mail, rename the message you are reading or move it to another folder; or view or extract message details. You can also copy text from the beginning of the message to your phone calendar as a reminder note. To save the picture in the *Templates* folder when reading a picture message, select *Save picture*.
3. To reply as a message, select **Reply** > *Text message*, *Multimedia msg.*, or *Flash*

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

4. To send the message to the displayed number, select **Send** > **OK**.

Templates

Your phone has text templates  and picture templates  that you can use in text, picture, or SMS e-mail messages.

To access the template list, select **Menu** > *Messaging* > *Saved items* > *Text messages* > *Templates*.

Saved items folder and My folders

To organize your messages, you can move some of them to the *Saved items* folder, or add new folders for your messages. While reading a message, select **Options** > *Move* > the folder that you want to move the message > **Select**.

To add a folder, select **Menu** > *Messaging* > *Saved items* > *Text messages* > *My folders*. To add a folder if you have not saved any folder, select **Add**. Otherwise, select **Options** > *Add folder*. To delete a folder, select the folder to be deleted and **Options** > *Delete folder*.

Multimedia messages (MMS)

A multimedia message can contain text, sound, a picture, a calendar note, a business card, or a video clip. If the message is too large, the phone may not be able to receive it. Some networks allow text messages that include an Internet address where you can view the multimedia message.

You cannot receive multimedia messages during a call, a game, another Java application, or an active browsing session over GSM data. Because delivery of multimedia messages can fail for various reasons, do not rely solely upon them for essential communications.

Write and send a multimedia message

To set the settings for multimedia messaging, see "[Multimedia](#)" p. 36. To check availability and to subscribe to the multimedia messaging service, contact your service provider.

1. Select **Menu** > *Messaging* > *Create message* > *Multimedia msg..*
2. Enter a message. See "[Write text](#)" p. 22.

To insert a file, select **Options** > *Insert* and from the following options:

Image, Sound clip, or Video clip — to insert a file from *Gallery*

New sound clip opens the *Voice recorder* — to make a new record to be added to the message


Slide — to insert a slide to the message. Your phone supports multimedia messages that contain several pages (slides). Each slide can contain text, one image, a calendar note, a business card, and one sound clip. To open a desired slide if the message contains several slides, select **Options** > *Previous slide*, *Next slide*, or *Slide list*. To set the interval between the slides, select **Options** > *Slide timing*. To move the text component to the top or bottom of the message, select **Options** > *Place text first* or *Place text last*.

Business card or *Calendar note* — to insert a business card or a calendar note in the message

The following options may also be available: *Delete* to delete an image, slide, or sound clip from the message, *Clear text*, *Preview*, or *Save message*. In *More options* the following options may be available: *Insert contact*, *Insert number*, *Message details*, and *Edit subject*.

3. To send the message, select **Send** > *Phone number*, *E-mail address*, or *Many*.

4. Select the contact from the list, or enter the recipient's phone number or e-mail address, or search for it in *Contacts*. Select **OK**. The message is moved to the *Outbox* folder for sending.

While the multimedia message is being sent, the animated indicator  is displayed and you can use other functions on the phone. If the sending fails, the phone tries to resend it a few times. If this fails, the message remains in the *Outbox* folder, and you can try to resend it later.

If you select *Save sent messages* > *Yes*, the sent message is saved in the *Sent items* folder. See "Multimedia" p. 36.



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

Read and reply to a multimedia message




Important: Exercise caution when opening messages. Multimedia message objects may contain malicious software or otherwise be harmful to your device or PC.

When your phone receives a multimedia message, the animated

 is displayed. When the message has been received,  and the text *Multimedia message received* are shown.

1. To read the message, select **Show**. To view it later, select **Exit**.

To read the message later, select **Menu > Messages > Inbox**. In the list of messages,  indicates an unread message. Select the message that you want to view.

2. The function of the middle selection key changes according to the currently displayed attachment in the message.

To view the whole message if the received message contains a presentation, a sound clip, or view a video clip, select **Play**.

To zoom in on an image, select **Options > Objects > select the image > Zoom**. To view a business card or calendar note or to open a theme object, select **Attachments > Open**.


3. To reply to the message, select **Options > Reply > Text message, Multimedia msg., or Flash message**. Enter the reply message, and select **Send**. You can send the reply message only to the person who sent you the original message.


Select **Options** to access available options.

Message folders

The phone saves the received multimedia messages in the *Inbox* folder. Multimedia messages that have not yet been sent are moved to the *Outbox* folder. The multimedia messages that you wish to send later can be saved in the *Saved items* folder. 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 "Multimedia" p. 36.

Memory full

When you have received a new text message and the message memory is full,  blinks and *Text msgs. memory full. Delete msgs.* is shown. Select **No**, and delete some messages from a folder. To discard the waiting message, select **Exit > Yes**.

When you have a new multimedia message waiting and the memory for the messages is full,  blinks and *Multimedia memory full. View waiting msg.* is shown. To view the waiting message, select **Show**. Before you can save the waiting message, delete old messages to free memory space. To save the message, select **Save**.

To discard the waiting message, select **Exit > Yes**. If you select **No**, you can view the message.

■ Flash messages

Flash messages are text messages that are instantly displayed upon reception.

Write a message

Select **Menu** > *Messages* > *Create message* > *Flash message*. Write your message. The maximum length of a flash message is 70 characters. To insert a blinking text into the message, select **Options** > *Insert blink char.* to set a marker. The text after the marker blinks until a second marker is inserted.

Receive a message

A received flash message is not automatically saved. To read the message, select **Read**. To extract phone numbers, e-mail addresses, and Web site addresses from the current message, select **Options** > *Use detail*. To save the message, select **Save** and the folder in which you want to save the message.

■ Instant messaging (IM)

Instant messaging (network service) is a way to send short, simple text messages to online users.

Before you can use instant messaging, you must subscribe to the service. To check the availability and costs, and to subscribe to the service, contact your service

provider, from whom you also receive your unique ID, password, and settings.

To set the required settings for the instant messaging service, see *Connect. settings* in "Access the menu" p. 30. The icons and texts on the display may vary, depending on the instant messaging service.

Depending on the network, the active instant messaging conversation may consume the phone battery faster, and you may need to connect the phone to a charger.

Access the menu

To access the menu while still offline, select **Menu** > *Messages* > *Instant messages*. If more than one set of connection settings for the instant messaging service is available, select the desired one. If there is only one set defined, it is selected automatically.

The following options are shown:

Login — to connect to the instant messaging service

Saved convers. — to view, erase or rename the instant messaging conversations that you have saved during the instant messaging session

Connect. settings — to edit the settings needed for messaging and presence connection

Connect to the instant messaging service





To connect to the instant messaging service, enter the *Instant messages* menu, activate an instant messaging service, and select *Login*. When the phone has successfully connected, *Logged in* is displayed.


To disconnect from the instant messaging service, select *Logout*.

Start an instant messaging session

Open the *Instant messages* menu, and connect to the service. Start the service in different ways.

Conversations — to view the list of new and read instant messages or invitations for instant messaging during the active instant messaging session. Scroll to the message or invitation that you want, and select *Open* to read the message.





 indicates the new and  read group messages.  indicates the new and  the read instant messages.

 indicates the invitations.

The icons and texts on the display may vary, depending on the instant messaging service.

IM contacts — to view the contacts that you have added. Scroll to the contact with whom you would like to chat and select *Chat* or *Open* if a new contact is shown in the list. To add contacts see "[Contacts for](#)

[instant messaging](#)" p. 32.

 indicates the online and  the offline contacts in the phone contacts memory.  indicates a blocked contact.  indicates a contact that has been sent a new message.

Groups > *Public groups* — to display the list of bookmarks to public groups provided by the network operator or service provider. To start a instant messaging session with a group, scroll to a group, and select *Join*. Enter your screen name that you want to use in the conversation. When you have successfully joined the group conversation, you can start a group conversation. To create a private group, see "[Groups](#)" p. 33.

Search > *Users* or *Groups* — to search for other instant messaging users or public groups on the network by phone number, screen name, e-mail address, or name. If you select *Groups*, you can search for a group by a member in the group or by group name, topic, or ID. To start the conversation when you have found the user or the group that you want, select *Options* > *Chat* or *Join group*.

Start a conversation from *Contacts*, see "[View the subscribed names](#)" p. 42.

Accept or reject an invitation

In the standby mode, when you are connected to the instant messaging service and you receive a new invitation, *New invitation received* is displayed. To read it, select **Read**.

If more than one invitation is received, scroll to the invitation you want, and select **Open**. To join the private group conversation, select **Accept**, and enter the screen name; or to reject or delete the invitation, select **Options** > *Reject* or *Delete*.

Read a message

In the standby mode, when you are connected to the instant messaging service, and you receive a new message that is not a message associated with an active conversation, *New instant message* is displayed. To read it, select **Read**.

If you receive more than one message, scroll to the message, and select **Open**.

New messages received during an active conversation are held in *Instant messages* > *Conversations*. If you receive a message from someone who is not in *IM contacts*, the sender ID is displayed. To save a new contact that is not in the phone memory, select **Options** > *Save contact*.

Participate in a conversation



To join or start an instant messaging session, select **Write**. Write your message, and select *Send* or press the call key to send it. Select **Options** to access available options.

Edit your availability status

1. Open the *Instant messages* menu, and connect to the instant messaging service.
2. To view and edit your own availability information, or screen name, select *My settings*.
3. To allow all the other instant messaging users to see you when you are online, select *Availability* > *Available for all*.

To allow only the contacts on your instant messaging contact list to see you when you are online, select *Availability* > *Avail. for contacts*.

To appear as being offline, select *Availability* > *Appear offline*.

When you are connected to the instant messaging service,  indicates that you are online, and  indicates that you are not visible to others.

Contacts for instant messaging

To add contacts to the instant messaging contacts list, connect to the instant messaging service, and

select *IM contacts*. To add a contact to the list, select **Options** > *Add contact*, or if you have no contacts added, select **Add**. Select *Enter ID manually*, *Search from serv.*, *Copy from server*, or *By mobile number*.

Scroll to a contact, and to start a conversation, select **Chat** or **Options** > *Contact info*, *Block contact* or *Unblock contact*, *Add contact*, *Remove contact*, *Change list*, *Copy to server*, or *Availability alerts*.

Block and unblock messages

To block messages, connect to the instant messaging service, and select *Conversations* > *IM contacts*; or join or start a conversation. Scroll to the contact from whom you want to block incoming messages, and select **Options** > *Block contact* > *OK*.

To unblock the messages, connect to the instant messaging service, and select *Blocked list*. Scroll to the contact from whom you want to unblock the messages, and select *Unblock*.

Groups

You can create your own private groups for an instant messaging conversation, or use the public groups provided by the service provider. The private groups exist only during an instant messaging conversation. The groups are saved

on the server of the service provider. If the server you are logged on to does not support group services, all group-related menus are dimmed.

Public groups

You can bookmark public *Groups* that your service provider may maintain. Connect to the instant messaging service, and select *Public groups*. Scroll to a group with which you want to chat, and select **Join**. If you are not in the group, enter your screen name as your nickname for the group. To delete a group from your group list, select **Options** > *Delete group*.

To search for a group, select *Groups* > *Public groups* > *Search groups*. You can search for a group by a member in the group, by group name, topic, or ID.

Private groups

Connect to the instant messaging service, and select *Groups* > *Create group*. Enter the name for the group and the screen name that you want to use. Mark the private group members in the contacts list, and write an invitation.

■ E-mail application

The e-mail application allows you to access your compatible e-mail account from your phone when you are not in the office or at home. This

e-mail application is different from the SMS and MMS e-mail function.

Your phone supports POP3 and IMAP4 e-mail servers. Before you can send and retrieve any e-mail, you may need to do the following:

- Obtain a new e-mail account or use the current one. For availability of your e-mail account contact your e-mail service provider.
- For the settings required for e-mail, contact your e-mail service provider. You may receive the e-mail configuration settings as a configuration message. See "Configuration settings service" p. 10. You can also enter the settings manually. See "Configuration" p. 49.


To activate the e-mail settings, select **Menu** > *Messages* > *Message settings* > *E-mail messages*. See "E-mail" p. 37.

This application does not support keypad tones.

Write and send an e-mail

1. Select **Menu** > *Messages* > *E-mail* > *Create e-mail*.
2. Select **Edit** to enter the recipient's e-mail address and a subject.
3. Select **Options** > *Message editor* to enter the text message.
4. Select **Send** > *Send now*.

Download e-mail

1. To access the e-mail application, select **Menu** > *Messages* > *E-mail*.
2. To download e-mail messages that have been sent to your e-mail account, select *Retrieve*.
To download new e-mail messages and send e-mail that has been saved in the *Outbox* folder, select **Options** > *Retrieve and send*.
3. Select the new message in *Inbox*. To view it later, select **Back**.
 indicates an unread message.

Read and reply to e-mail



Important: Exercise caution when opening messages. E-mail messages may contain malicious software or otherwise be harmful to your device or PC.

Select **Menu** > *Messages* > *E-mail* > *Inbox* and select the desired message. While reading the message, select **Options** to view the available options.

To reply to an e-mail, select **Reply** > *Original text* or *Empty screen*. To reply to many, select **Options** > *Reply to all*. Confirm or edit the e-mail address and subject; then write your reply. To send the message, select **Send** > *Send now*.

Inbox and other folders

Your phone saves e-mail that you download from your e-mail account in the *Inbox* folder. *Other folders* contains the folders: *Drafts* for saving unfinished e-mail, *Archive* for organising and saving your e-mail, *Outbox* for saving e-mail that have not been sent, and *Sent items* for saving e-mail that have been sent.


Delete e-mail messages

To delete e-mails, select **Menu** > *Messages* > *E-mail* > **Options** > *Delete messages*. To delete all messages from a folder, select the folder from which you want to delete the messages and press **Yes**. To delete all messages from all folders, select *All messages* and press **Yes**. Note that deleting an e-mail from your phone does not delete it from the e-mail server.

Voice messages

The voice mailbox is a network service and you may need to subscribe to it. For details, contact your service provider.

To call your voice mailbox, select **Menu** > *Messages* > *Voice messages* > *Listen to voice messages*. To enter, search for, or edit your voice mailbox number, select *Voice mailbox number*.

If supported by the network,  indicates that there are new voice messages. Select **Listen** to call your voice mailbox number.

Info messages

Select **Menu** > *Messages* > *Info messages*. With this network service, you can receive messages on various topics from your service provider. To check availability, topics, and the relevant topic numbers, contact your service provider.

Service commands

Select **Menu** > *Messages* > *Service commands*. Write and send service requests (also known as USSD commands) to your service provider, such as activation commands for network services.

Delete messages

To delete all messages from a folder, select **Menu** > *Messages* > *Delete messages* and the folder from which you want to delete the messages. Select **Yes**, and if the folder contains unread messages, the phone asks whether you want to delete them also. Select **Yes** again.

■ Message settings

Text and SMS e-mail

The message settings affect the sending, receiving, and viewing of text and SMS e-mail messages.

Select **Menu** > *Messages* > *Message settings* > *Text messages* and from the following options:

Sending profile — If more than one message profile set is supported by your SIM card, select the set you want to change.

The following options may be available: *Message centre number* (delivered from your service provider), *Messages sent via*, *Message validity*, *Default recipient number* (text messages) or *E-mail server* (e-mail), *Delivery reports*, *Use packet data*, *Reply via same centre* (network service), and *Rename sending profile*.

Save sent messages > *Yes* — Set the phone to save the sent text messages in the *Sent items* folder.

Multimedia

The message settings affect sending, receiving, and viewing multimedia messages.

Select **Menu** > *Messages* > *Message settings* > *Multimedia msgs.* and from the following options:

Save sent messages > *Yes* — to set the phone to save sent multimedia messages in the *Sent items* folder

Delivery reports — to ask the network to send delivery reports about your messages (network service)

Scale image down — to define the image size when you insert an image to a multimedia message

Default slide timing — to define the default time between slides in multimedia messages

Allow multimedia reception > *Yes* or *No* — to receive or to block the multimedia message. If you select *In home network*, you cannot receive multimedia messages when outside your home network.

Incoming multimedia messages > *Retrieve*, *Retrieve manually*, or *Reject* — to allow the reception of multimedia messages automatically, manually after being prompted, or to reject the reception

Configuration settings > *Configuration* — Only the configurations that support multimedia messaging are shown. Select a service provider, *Default*, or *Personal config.* for multimedia messaging. Select *Account* and a multimedia messaging service account contained in the active configuration settings.

Allow adverts — to receive or reject advertisements. This setting is not shown if *Allow multimedia reception* is set to *No*.

E-mail

The settings affect sending, receiving, and viewing e-mail.

You may receive the configuration settings for the e-mail application as a configuration message. See "[Configuration settings service](#)" p. 10. You can also enter the settings manually. See "[Configuration](#)" p. 49.

To activate the settings for the e-mail application, select **Menu** > *Messages* > *Message settings* > *E-mail messages* and from the following options:

Configuration — Select the set that you would like to activate.

Account — Select an account provided by the service provider.

My name — Enter your name or nickname.

E-mail address — Enter e-mail address.

Include signature — You can define a signature that is automatically added to the end of your e-mail when you write your message.

Reply-to address — Enter the e-mail address to which you want the replies to be sent.

SMTP user name — Enter the name that you want to use for outgoing mail.

SMTP password — Enter the password that you want to use for outgoing mail.

Display terminal window — Select *Yes* to perform manual user authentication for intranet connections.

Incoming server type — Select either *POP3* or *IMAP4*, depending on the type of e-mail system that you are using. If both types are supported, select *IMAP4*.

Incoming mail settings — Select available options for POP3 or IMAP4.

Font size

To change the font size for reading and writing messages, select

Menu > *Messages* > *Message settings* > *Other settings* > *Font size*.

■ Message counter

Select **Menu** > *Messages* > *Message counter* for approximate information on your recent communications.

7. Call register



The phone registers the phone numbers of identified missed, received, and dialed calls; the message recipients; and the approximate length of your calls.

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

■ Recent calls lists

When you select **Options** in the *Missed calls*, *Received calls*, or *Dialed numbers* menu, you can view the time of the call; edit, view, or call the registered phone number; add it to the memory; or delete it from the list. You can also send a text message. To delete the recent calls lists, select *Clear recent call lists*.

■ Counters and timers



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

Some timers, including the life timer, may be reset during service or software upgrades.

Select **Menu** > *Call register* > *Call duration*, *Packet data counter*, or *Packet data connection timer* for approximate information on your recent communications.

■ Positioning information

Some networks allow position requests (network service). *Positioning* allows you to view the received position requests from the network operator. Contact your network operator or service provider to subscribe to and agree upon the delivery of location information.


Select **Menu** > *Call register* > *Positioning* > *Position log* to see a list of received position requests.

8. Contacts



You can save names and phone numbers (*Contacts*) in the phone memory and in the SIM card memory.

The phone memory may save contacts with numbers and text items. You can also save an image for a certain number of names.

Names and numbers saved in the SIM card memory are indicated by .

■ Search for a contact


Select **Menu** > *Contacts* > *Search*. Scroll through the list of contacts, or enter the first letter of the name for which you are searching.

■ Save names and phone numbers

Names and numbers are saved in the used memory. Select **Menu** > *Contacts* > *Add new contact*. Enter the name and the phone number.

■ Save numbers, items, or an image

In the phone memory for contacts, you can save different types of phone numbers and short text items per name.

The first number you save is automatically set as the default number. It is indicated with a frame around the number type indicator (for example, ). When you select a name (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*.
2. Scroll to the name to which you want to add a new number or text item, and select **Details** > **Options**.
3. To add a number, select *Add number* and one of the number types.

To set the selected number as the default number, select *Set as default*.

To change the number type, scroll to the desired number, and select **Options** > *Change type*.

To add a detail, select *Add detail* and a detail type.

To add a image, select *Add image* and an image from *Gallery*.

To search for an ID from the server of your service provider if you have connected to the presence service, select *User ID* > *Search*. See *"My*

presence" p. 40. If only one ID is found, it is automatically saved. Otherwise, to save the ID, select **Options** > **Save**. To enter the ID, select *Enter ID manually*.

■ Copy contacts

Search for the contact you want to copy, and select **Contacts** > **Copy**. You can copy names and phone numbers from the phone contact memory to the SIM card memory or vice versa. The SIM card memory can save names with one phone number attached to them.

■ Edit contact details

1. Search for the contact you want to edit, select **Details**, and scroll to the desired name, number, text item, or image.
2. To edit a name, number, or text item, or to change an image, select **Options** > *Edit name*, *Edit number*, *Edit detail*, or *Change image*.

You cannot edit an ID when it is on the *IM contacts* or *Subscribed names* list.

■ Delete contacts or contact details

To delete a contact, search for the desired contact, and select **Options** > **Delete**.

To delete a number, text item, or an image attached to the contact, search for the contact, and select the desired detail > **Options** > *Delete number*, *Delete detail*, or *Delete image*. Deleting an image from contacts does not delete it from *Gallery*.

To delete all contacts and the details attached to them from the phone or SIM card memory, select **Menu** > **Contacts** > **Delete** > *One by one* or *Delete all* > *From phone mem.* or *From SIM card*. Confirm with the security code.

■ Business cards

You can send and receive a person's contact information from a compatible device that supports the vCard standard as a business card.

To send a business card, search for the contact whose information you want to send, and select **Options** > *Send bus. card* > *Via multimedia*, or *Via text message*.

When you have received a business card, select **Show** > **Save** to save the business card in the phone memory. To discard the business card, select **Exit** > **Yes**.

■ My presence

With the presence service (network service) you can share your presence status with other users with

compatible devices and access to the service. Presence status includes your availability, status message, and personal logo. Other users who have access to the service and who request your information are able to see your status. The requested information is shown in *Subscribed names* in the viewers' *Contacts* menu. You can personalize the information that you want to share with others and control who can see your status.

Before you can use presence, you must subscribe to the service. To check the availability and costs, and to subscribe to the service, contact your network operator or service provider, from whom you also receive your unique ID, password, and the settings for the service. See *"Configuration"* p. 49.

While you are connected to the presence service, you can use the other functions of the phone; the presence service is active in the background. If you disconnect from the service, your presence status is shown for a certain amount of time to viewers, depending on the service provider.

Select **Menu** > *Contacts* > *My presence* and from the following options:

Connect to 'My presence' service or *Disconnect from service* — to

connect to or disconnect from the service.

View my presence — to view the status in *Private pres.* and *Public presence*.

Edit my presence — to change your presence status. Select *My availability*, *My presence message*, *My presence logo*, or *Show to*.

My viewers > *Current viewers*, *Private list*, or *Blocked list*

Settings > *Show current presence in idle*, *Synchronise with profiles*, *Connection type*, or *Presence settings*

■ Subscribed names

You can create a list of contacts whose presence status information you want to be aware of. You can view the information if it is allowed by the contacts and the network. To view these subscribed names, scroll through the contacts, or use the *Subscribed names* menu.

Make sure that the memory in use is either *Phone* or *Phone and SIM*.

To connect to the presence service, select **Menu** > *Contacts* > *My presence* > *Connect to 'My presence' service*.

Add contacts to the subscribed names

1. Select **Menu** > *Contacts* > *Subscribed names*.




2. If you have no contacts on your list, select **Add**. Otherwise, select **Options** > *Subscribe new*. The list of your contacts is shown.
3. Select a contact from the list and if the contact has an user ID saved, the contact is added to the subscribed names list.


View the subscribed names

To view the presence information, see "Search for a contact" p. 39.

1. Select **Menu** > *Contacts* > *Subscribed names*.

The status information of the first contact on the subscribed names list is displayed. The information that the person wants to give to the others may include text and some of the following icons:

,  or  indicate that the person is available, discreet or not available.

 indicates that the person's presence information is not available.

2. Select **Details** to view the details of the selected contact; or select **Options** > *Subscribe new*, *Chat*, *Send message*, *Send bus. card*, or *Unsubscribe*.

Unsubscribe a contact

To unsubscribe a contact from the *Contacts* list, select the contact, and

Details > the user ID > **Options** > *Unsubscribe* > **OK**.

To unsubscribe, use the **Subscribed names** menu. See "View the subscribed names" p. 42.

Settings

Select **Menu** > *Contacts* > *Settings* and from the following options:

Memory in use — to select SIM card or phone memory for your contacts

Contacts view — to select how the names and numbers in contacts are displayed

Memory status — to view the free and used memory capacity

Speed dialing

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

Select *Assign*, or if a number has already been assigned to the key, select **Options** > *Change*. Select **Search**, the name, then the number you want to assign. If the *Speed dialling* function is off, the phone asks whether you want to activate it. See also *Speed dialling* in "Call" p. 47.

To make a call using the speed-dialing keys, see "Speed dialing" p. 20.

Voice dialing

You can make a phone call by saying a voice tag that has been added to a phone number. Any spoken words, such as a name, can be a voice tag. The number of voice tags you can create is limited.

Before using voice tags, note the following:

- Voice tags are not language-dependent. They are dependent on the speaker's voice.
- You must say the name exactly as you said it when you recorded it.
- Voice tags are sensitive to background noise. Record voice tags, and use them in a quiet environment.
- Very short names are not accepted. Use long names, and avoid similar names for different numbers.




Note: Using voice tags may be difficult in a noisy environment or during an emergency, so you should not rely solely upon voice dialing in all circumstances.

Add and manage voice tags

Save or copy the contacts to the phone memory for which you want to add a voice tag. You can also add voice tags to the names in the SIM card, but if you replace your SIM card with a new one, you must first

delete the old voice tags before you can add new ones.

1. Search for the contact to which you want to add a voice tag.
2. Select **Details**, scroll to the desired phone number, and select **Options > Add voice tag**.
3. Select **Start**, and say clearly the words you want to record as a voice tag. After recording, the phone plays the recorded tag.  appears behind the phone number with a voice tag in **Contacts**.

To check the voice tags, select **Menu > Contacts > Voice tags**. Scroll to the contact with the voice tag that you want, and select an option to listen to, delete, or change the recorded voice tag.

Make a call with a voice tag

If the phone has an application running that is sending or receiving data using a GPRS connection, you must end the application before voice dialing.

1. In the standby mode, press and hold the volume down key. A short tone is heard, and **Speak now** is displayed.
2. Say the voice tag clearly. The phone plays the recognized voice tag and dials the phone number of the voice tag after 1.5 seconds.

If you are using a compatible headset with the headset key, press and hold the headset key to start the voice dialing.

■ Service numbers

Your service provider may have included service numbers in your SIM card. These menus are only shown if supported by your SIM card.

■ My numbers

To view the phone numbers assigned to your SIM card, if the numbers are included on your SIM card, elect **Menu** > *Contacts* > *My numbers*.

■ Caller groups

Select **Menu** > *Contacts* > *Caller groups* to arrange the names and phone numbers saved in the memory into caller groups with different ringing tones and group images.

9. Settings



■ Profiles

Your phone has various setting groups, called profiles, for which you can customize the phone tones for different events and environments.

Select **Menu** > **Settings** > **Profiles** and a profile.

To activate the selected profile, select **Activate**.

To personalize the profile, select **Personalise**. Select the setting you want to change, and make the changes. To change your presence status information, select **My presence** > **My availability** or **My presence message**. The **My presence** menu is available if you set **Synchronise with profiles** to **On**. See "**My presence**" p. 40.

To set the profile to be active until a certain time up to 24 hours, select **Timed**, and set the time the profile setting shall end. When the time set for the profile expires, the previous profile that was not timed becomes active.

■ Themes

A theme contains many elements for personalizing your phone, such as wallpaper, screen saver, color scheme, and a ringing tone.

Select **Menu** > **Settings** > **Themes** and from the following options:

Select theme — to set a theme in your phone. A list of folders in **Gallery** opens. Open the **Themes** folder, and select a theme.

Theme downloads — to open a list of links to download more themes. See "**Download files**" p. 67.

■ Tones

You can change the settings of the selected active profile.

Select **Menu** > **Settings** > **Tone settings**. > **Incoming call alert**, **Ringing tone**, **Ringing volume**, **Vibrating alert**, **Message alert tone**, **Instant message alert tone**, **Keypad tones**, and **Warning tones**. You can find the same settings in the **Profiles** menu. See "**Profiles**" p. 45.

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

■ Light settings


Lets you select if different light sequences follow the phone functions. Select **Menu** > **Settings** > **Light settings** and **Light**

effects to set the light effects on or off.

■ Personal shortcuts

With personal shortcuts, you get quick access to often used functions of the phone. To manage the shortcuts, select **Menu** > *Settings* > *Personal shortcuts* and from the following options:

Right selection key — to select a function from the list for the right selection key. See also "*Standby mode*" p. 17. This menu may not be shown, depending on your service provider.

Voice commands — to activate phone functions by saying a voice tag. Select a folder, scroll to a function to which you want to add a voice tag, and select **Add**.  indicates a voice tag. To add a voice command, see "*Add and manage voice tags*" p. 43. To activate a voice command, see "*Make a call with a voice tag*" p. 43.

■ Display

Select **Menu** > *Settings* > *Display settings* and from the following options:

Wallpaper > *On* — to add a background image to the display in the standby mode. To select a wallpaper, select *Image* and an image from the *Gallery*. To download

more images, select *Graphic downloads*.

Screen saver > *On* — to activate a screen saver. To set the time after which the screen saver is activated, select *Time-out*. To select a graphic for the screen saver, select *Image* and choose an image from the *Gallery*. To download more images, select *Graphic downloads*.

Colour schemes — to change the color in some display components (for example, menu background color and signal and battery bar colors).

Menu view — to set the way the phone displays the main menu.

Operator logo — to set your phone to display or hide the operator logo. The menu is dimmed if you have not saved the operator logo. For more information on availability of an operator logo, contact your network operator or service provider.

■ Time and date

Select **Menu** > *Settings* > *Time and date settings* and from the following options:

Clock — to set the phone to show the clock in the standby mode, adjust the clock, and select the time zone and the time format

Date — to set the phone to show the date in the standby mode, set the

date, and select the date format and date separator

Auto-update of date & time

(network service) — to set the phone to automatically update the time and date according to the current time zone

■ Call

Select **Menu** > *Settings* > *Call settings* and from the following options:

Automatic volume control — to set the phone to automatically adjust the speaker volume according to the background noise

Call divert (network service) — to divert your incoming calls. You may not be able to divert your call if some call barring functions are active. See *Call barring service* in "Security" p. 50.

Anykey answer > *On* — to answer an incoming call, briefly press any key except the end key and the left and right selection keys.

Automatic redial > *On* — to set your phone to make a maximum of 10 attempts to connect the call after an unsuccessful call attempt

Speed dialling > *On* — to activate speed dialling. To set up speed dialling, see "Speed dialling" p. 42. To dial, press and hold the corresponding number key.

Call waiting > *Activate* — to set the network to notify you of an incoming call while you have a call in progress (network service). See "Call waiting" p. 20.

Summary after call > *On* — to briefly display the approximate duration and cost (network service) of the call after each call

Send my caller ID (network service) > *Yes*, *No*, or *Set by network*

Line for outgoing calls (network service) — to select the phone line 1 or 2 to make calls if supported by your SIM card

■ Phone

Select **Menu** > *Settings* > *Phone settings* and from the following options:

Phone language — to set the display language of your phone. If you select *Automatic* the phone selects the language according to the information on the SIM card.

Memory status — to view the free memory and the used memory in *Gallery* and *Messages*

Automatic keyguard — to set the keypad of your phone to lock automatically after a preset time delay when the phone is in the standby mode and no function of the phone has been used. Select *On*, and you can set the time from 5 seconds to 60 minutes.

Cell info display > *On* — to receive information from the network operator depending on the network cell used (network service)

Welcome note — to enter a welcome note to be shown briefly when the phone is switched on

Operator selection > *Automatic* — to set the phone automatically to select one of the cellular networks available in your area. With *Manual*, you can select a network that has a roaming agreement with your home network operator.

Confirm SIM service actions — See "SIM services" p. 71.

Help text activation — to select whether the phone shows help texts

Start-up tone — to select whether the phone plays a start-up tone when the phone is switched on

■ Connectivity

You can define the settings for packet data dial-up connections.

Packet data (EGPRS)

Enhanced general packet radio service (EGPRS), packet data, is a network service which allows mobile phones to send and receive data over an Internet protocol (IP)-based network. It enables wireless access to data networks such as the Internet.

The applications that may use packet data are MMS, browsing sessions, e-mail, remote SyncML, Java application downloading, and the PC dial-up.

To define how to use the service, select **Menu** > *Settings* > *Connectivity* > *Packet data* > *Packet data connection*.

Select *When needed* to set the packet data connection to be established when an application needs it. The connection will be closed when the application is terminated.

Select *Always online* to set the phone to automatically connect to an packet data network when it is switched on.

G indicates a packet data connection.

Modem settings

You can connect the phone using a data cable connection to a compatible PC, and use the phone as a modem to enable packet data connectivity from the PC.

To define the settings for connections from the PC, select **Menu** > *Settings* > *Connectivity* > *Packet data* > *Packet data settings* > *Active access point*, activate the access point you want to use, and select *Edit active access point*. Select *Alias for access point*, and enter a nick name for the

currently selected access point. Select *Packet data access point*, and enter the access point name (APN) to establish a connection to an GPRS network.

You can also set the dial-up service settings (access point name) on your PC using the Nokia Modem Options software. See "PC Suite" p. 72. If you have set the settings both on the PC and on your phone, the PC settings are used.

■ Enhancements

This menu is shown only if the phone is or has been connected to a compatible mobile enhancement.

Select **Menu** > *Settings* > *Enhancement settings*. You can select an enhancement menu if the corresponding enhancement is, or has been, connected to the phone. Depending on the enhancement, select from the following options:

Default profile — to select the profile that you want to be automatically activated when you connect to the selected enhancement

Automatic answer — to set the phone to answer an incoming call automatically after 5 seconds. If *Incoming call alert* is set to *Beep once* or *Off*, automatic answer is off.



Note: Automatic answer will only be active whilst "General" profile is active.

Lights — to set the lights permanently *On*. Select *Automatic* to set the lights on for 15 seconds after a key press

Ignition detector > *On* — to automatically switch off the phone approximately 20 seconds after you switch off the car ignition when the phone is connected to the full car kit

■ Configuration

You can configure your phone with settings that are required for certain services to function correctly. The services are browser, multimedia messaging, remote Internet server synchronization, presence, and e-mail application. Get the settings from your SIM card, from a service provider as a configuration message, or enter your personal settings manually. You can store configuration settings from up to 20 service providers in the phone and manage them within this menu.

To save the configuration settings received by a configuration message from a service provider, see "*Configuration settings service*" p. 10.

Select **Menu** > *Settings* > *Configuration settings* and from the following options:

Default configuration settings — to view the service providers saved in the phone. Scroll to a service provider, and select **Details** to view the applications that the configuration settings of this service provider support. To set the configuration settings of the service provider as default settings, select **Options** > *Set as default*. To delete configuration settings, select *Delete*.

Activate default in all applications — to activate the default configuration settings for supported applications

Preferred access point — to view the saved access points. Scroll to an access point, and select **Options** > *Details* to view the name of the service provider, data bearer, and packet data access point or GSM dial-up number.

Personal configuration settings — to add new personal accounts for various services manually, and to activate or delete them. To add a new personal account if you have not added any, select **Add new**; otherwise, select **Options** > *Add new*. Select the service type, and select and enter each of the required parameters. The parameters differ according to the selected service type. To delete or activate a personal account, scroll to it, and select **Options** > *Delete* or *Activate*.

■ Security

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

Select **Menu** > *Settings* > *Security settings* and from the following options:

PIN code request — to set the phone to ask for your PIN or UPIN code every time the phone is switched on. Some SIM cards do not allow the 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 to selected phone numbers if this function is supported by your SIM card

Closed user group (network service) — to specify a group of people whom you can call and who can call you

Security level > *Phone* — the phone asks for the security code whenever a new SIM card is inserted into the phone. Select *Memory* and the phone asks for the security code when SIM card memory is selected and you want to change the memory in use.

Access codes — to change the security code, PIN code, UPIN code, PIN2 code, and barring password

Code in use — to select whether the PIN code or UPIN code should be active

Pin2 code request — to select whether PIN2 code is required when using a specific phone feature that is covered by the PIN2 code

■ Restore factory settings

To reset some of the menu settings to their original values, select **Menu** > *Settings* > *Restore factory settings*. Enter the security code. The data you have entered or downloaded are not deleted (for example, the names and phone numbers saved in *Contacts*).

10. Operator menu

This menu lets you access a portal to services provided by your network operator. The name and the icon depend on the operator. For more information contact your network operator.

The operator can update this menu with a service message. For more information, see "[Service inbox](#)" p. 67.

11. Gallery



In this menu you can manage graphics, images, recordings, video clips, themes, and tones. These files are arranged in folders.

Your phone supports an activation key system to protect acquired content. Always check the delivery terms of any content and activation key before acquiring them, as they may be subject to a fee.

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

To see the list of folders, select **Menu** > *Gallery*.

To see the available options of a folder, select a folder > **Options**.

To view the list of files in a folder, select a folder > **Open**.

To see the available options of a file, select a file > **Options**.

12. Media



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

■ Camera

You can take photos or record video clips with the built-in camera. The camera produces pictures in JPEG format and video clips in 3GP format.

When taking and using images or video clips, obey all laws and respect local customs as well as privacy and legitimate rights of others.

Your phone supports an image capture resolution of 640 x 480 pixel. The image resolution in these materials may appear different.

Take a photo

Select **Menu** > **Media** > **Camera** > **Capture**. The phone saves the photo in **Gallery** > **Images**. To take another photo, select **Back**; to send the photo as a multimedia message, select **Send**. To view the options, select **Options**. To change the camera mode, press the navigation key left or right.

Record a video clip

Select **Menu** > **Media** > **Camera**. To select the Video mode, scroll left or right; select **Record**. To pause the recording, select **Pause**; to resume the recording, select **Continue**. To stop the recording, select **Stop**. To view the recorded video clip, press **Play**. To view the options, select **Options**. The phone saves the recording in **Gallery** > **Video clips**.

■ Recorder

You can record pieces of speech, sound, or an active call for 5 minutes.

The recorder cannot be used when a data call or packet data connection is active.

Record sound

1. Select **Menu** > **Media** > **Voice recorder**.
2. To start the recording, select **Record**. To start the recording during a call, select **Options** > **Record**. While recording a call, all parties to the call will hear a faint beeping sound every 5 seconds.

3. To end the recording, select **Stop**.
The recording will be saved in the *Recordings* folder of the *Gallery* menu.

Options after recording

Select *Menu > Media > Voice recorder > Recordings list*. The list of folders in the *Gallery* is shown. Open *Recordings* to see the list with recordings. Select **Options** to select options for files in the *Gallery*. See "Gallery" p. 53.

To listen to the latest recording, select *Play last recorded*.

To send the latest recording, select *Send last recorded*. The recording can be sent using MMS.

13. Organizer



■ Alarm clock

You can set the phone to alarm at a desired time. Select **Menu** > *Organiser* > *Alarm clock*.

To set the alarm, select *Alarm time*, and enter the alarm time. To change the alarm time when the alarm time is set, select *On*. To set the phone to alert you on selected days of the week, select *Repeat alarm*.

To select an alarm tone, select *Alarm tone*.

To set the snooze time-out, select *Snooze time-out*.

Stop the alarm

The phone sounds an alert tone, and flashes *Alarm!* and the current time on the display, even if the phone was switched off. To stop the alarm, select **Stop**. If you let the phone continue to sound the alarm for a minute or select **Snooze**, the alarm stops for the preset snooze time-out, then resumes.

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 select **Stop**, the device asks whether you want to activate the device for calls. Select **No** to switch off the device or **Yes** to make and receive

calls. Do not select **Yes** when wireless phone use may cause interference or danger.

■ Calendar

Select **Menu** > *Organiser* > *Calendar*.

The current day is indicated by a frame. If there are any notes set for the day, the day is in bold type. To view the day notes, select **View**. To view a week, select **Options** > *Week view*. To delete all notes in the calendar, select the month or week view, and select **Options** > *Delete all notes*.

Other options for the day view may be *Make a note*, *Delete*, *Edit*, *Move*, or *Repeat* a note; *Copy* a note to another day; *Send note* as text message, multimedia message, or to the calendar of another compatible phone. In *Settings* you can set the date and time settings. In *Auto-delete notes* you can set the phone to delete old notes automatically after a specified time.


Make a calendar note

Select **Menu** > *Organiser* > *Calendar*. Scroll to the date you want, and select **Options** > *Make a*

note and one of the following note types:

 *Meeting*,  *Call*,  *Birthday*,  *Memo*, or  *Reminder*.

A note alarm

The phone beeps and displays the note. With a call note  on the display, to call the displayed number, press the call key. To stop the alarm and to view the note, select **View**. To stop the alarm for approximately 10 minutes, select **Snooze**. To stop the alarm without viewing the note, select **Exit**.

■ To-do list

To save notes for tasks that you must do, select **Menu** > *Organiser* > *To-do list*.

To create a note if no note is added, select **Add note**; otherwise, select **Options** > **Add**. Write the note, and select **Save**. Select the priority, the deadline, and the alarm type for the note.

To view a note, scroll to it, and select **View**.

You can also select an option to 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 as a text message or a multimedia message; save a note as a calendar note, or access the calendar.

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

■ Notes

To use this application to write and send notes, select **Menu** > *Organiser* > *Notes*. To create a note if no note is added, select **Add note**; otherwise, select **Options** > **Make a note**. Write a note, and select **Save**.

Other options for notes include deleting and editing a note. While editing a note, you can also exit the text editor without saving the changes. You can send the note to compatible devices using a text message or a multimedia message. If the note is too long to send as a text message, the phone asks you to delete the appropriate number of characters from your note.

■ Synchronization

Synchronization allows you to save your calendar and contacts data on a remote Internet server (network service) or on a compatible PC. If you have saved data on the remote Internet server, you can synchronize your phone by starting the synchronization from your phone. You can also synchronize the data in your phone contacts, calendar, and notes to correspond to the data of

your compatible PC by starting the synchronization from your PC.

The contact data on your SIM card will not be synchronized.

Server synchronization

To use a synchronization service subscribe to the service and retrieve the corresponding settings. For details, contact your service provider.

To start the synchronization from your phone, do the following:

1. Select the configuration settings you need for the synchronization. See "[Server synchronization settings](#)" p. 58.
2. Select **Menu** > *Organiser* > *Synchronisation* > *Server sync* > *Data to be synchronised*. Mark the data to be synchronized.
3. Select **Menu** > *Organiser* > *Synchronisation* > *Server sync* > *Synchronise*. The marked data of the active set is synchronized after confirmation.

Synchronizing for the first time or after an interrupted synchronization may take up to 30 minutes to complete, if the contacts or calendar are full.

Server synchronization settings

You may receive the configuration settings required for synchronization as a configuration message from the service provider. To manage the

configuration settings, see "[Configuration](#)" p. 49.

Select **Menu** > *Organiser* > *Synchronisation* > *Server sync* > *Sync settings* and from the following options:

Configuration — Only the configurations that support the synchronization are shown. Select a service provider, *Default*, or *Personal config*. for synchronization.

Account — Select a synchronization service account contained in the active configuration settings.

User name — Enter your user name.

Password — Enter the password of the service.

PC synchronization

To synchronize *Contacts*, *Calendar*, and *Notes* from a compatible PC, use a data cable connection. You also need Nokia PC Suite software of your phone installed on the PC. Start the synchronization from the PC using Nokia PC Suite. Ensure that the phone is in the standby mode and that the time and date are set.

PC synchronization settings

Select **Menu** > *Organiser* > *Synchronisation* > *PC sync settings*, and enter the *User name*: and *Password*:. The user name and password must be the same in the phone and in the PC.

14. Applications



■ Games and applications

Your phone software may include some games and Java applications specially designed for this Nokia phone.

To launch a game or application, select **Menu** > *Applications* > *Games* > *Select game* or *Collection* > *Select application*. Scroll to a game or an application, and select **Open** or press the call key.

The following options may be available for games and applications:

Delete — to delete the game or application from the phone

Details — to give additional information about the game or application

Update version — to check if a new version is available for download from the services (network service)

Web page — to provide further information or additional data from an Internet page. This feature needs to be supported by the network.

App. access — to restrict the game or application from accessing the network to prevent you from accruing unexpected costs. Select *Communication* > *Network access* or *Messaging*, or select *Auto-start*.

Select in each category one of the available permissions.

Game and application downloads

Your phone supports J2ME® Java applications. Make sure that the application is compatible with your phone before downloading it.

Select **Menu** > *Applications* > *Games* > *Game downloads* or *Collection* > *App. downloads*. The list of available bookmarks is shown. Select *More bookmarks* to access the list of bookmarks in the *Web* menu. See "*Bookmarks*" p.66.

Select a bookmark to connect to the desired service. For the availability of different services, pricing and tariffs, contact your service provider.



Important: Only install and use applications and other software from sources that offer adequate security and protection against harmful software.

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

Game settings

Select **Menu** > *Applications* > *Games* > *App. settings* to set sounds, lights and shakes for games.

Memory status

To view the amount of memory available for game and application installations (third shared memory), select **Menu** > *Applications* > *Games* or *Collection* > *Memory*.

■ 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.

Select **Menu** > *Applications* > *Extras* > *Calculator*. When 0 is displayed on the screen, enter the first number in the calculation. Press the # key for a decimal point. Select **Options** > *Add, Subtract, Multiply, Divide, Square, Square root, or Change sign*. Enter the second number. For a total, select **Equals**. Repeat this sequence as many times as it is necessary. To start a new calculation, first select and hold **Clear**.

To perform a currency conversion, select **Menu** > *Applications* >

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



Note: When you change base currency, you must enter the new rates because all previously set exchange rates are set to zero.

■ Countdown timer

Select **Menu** > *Applications* > *Extras* > *Countdown timer*. Enter the alarm time in hours, minutes, and seconds. If you wish, write your own note text that is displayed when the time expires. To start the countdown timer, select **Start**. To change the countdown time, select **Change time**. To stop the timer, select **Stop timer**.

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

alarm and to delete the note text, select **Exit**. To restart the countdown timer, select **Restart**.

■ Stopwatch

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

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.

Select **Menu** > *Applications* > *Extras* > *Stopwatch* and from the following options:

Split timing – to take intermediate times. To start the time observation, select **Start**. Select **Split** every time that you want to take an intermediate time. To stop the time observation, select **Stop**. To save the measured time, select **Save**. To start the time observation again, select **Options** > *Start*. The new time is added to the previous time. To reset the time without saving it, select *Reset*. To set the stopwatch timing in the background, press the end key.

Lap timing – to take lap times. To set the stopwatch timing in the background, press the end key.

Continue – to view the timing that you have set in the background

Show last – to view the most recently measured time if the stopwatch is not reset

View times or *Delete times* – to view or delete the saved times

■ Wallet

In *Wallet*, you can save personal information, such as credit card numbers, addresses, and access codes to services that require a user name and password. You can easily retrieve the information in the wallet to fill in online forms, if the service supports it.

The first time you access the wallet, you have to define the wallet code that protects your encrypted data. See "*Wallet code*" p. 10.

If you want to delete all the content of the wallet and the wallet code, enter *#7370925538# (*#res wallet# in letters) in the standby mode. You also need the security code of the phone; see "*Security code*" p. 9.

To add or edit contents, open the *Wallet* menu. To use the content of the wallet in a mobile service, access the wallet from the browser. See "*Web*" p. 64.

Access the wallet menu

To access the wallet menu, select **Menu** > *Organiser* > *Wallet*. Enter your wallet code and select from the following options:

Wallet profiles to create card combinations for different services. A wallet profile is helpful if the service asks you to fill in many data items. You can select the appropriate wallet profile instead of selecting different cards separately.

Cards — to save personal card information. You can save *Payment cards*, *Loyalty cards*, *Access cards*, *User info cards*, or *Address cards*. If supported by your service provider, you can also receive card information to your phone as a configuration message. You are notified of the card category. For availability of receiving card information as configuration settings, contact the card issuer or service provider.

Tickets — to save the notifications of e-tickets that you bought through a mobile service. To view the tickets, select **Options** > *View*.

Receipts — to save receipts of mobile purchases.

Settings — to modify wallet settings. See "Wallet settings" p. 62.

Personal notes — to save all kinds of personal information that you want to keep protected by the wallet PIN

code, such as account numbers, passwords, or codes.

Create a wallet profile

When you have saved your personal card details, you can combine them together into a wallet profile. You can use the profile to retrieve wallet data from different cards while browsing.

1. Access the wallet, and select *Wallet profiles*.
2. To create a new wallet profile if no profile is added, select **Add new**. Otherwise, select **Options** > *Add new*.
3. Fill in the following fields. Some of the fields contain data that is selected from the wallet. You must save this data before you can create a wallet profile.

Wallet settings

Access the wallet, and select *Settings*. To change the wallet code, select *Change code*. To set the radio frequency identification (RFID) code and type, select *RFID* > *RFID code* and *RFID type*. RFID is technology that helps secure your commercial transactions.

Making purchases with the wallet

To do your shopping, access the desired Web site that supports the

wallet. The service must support the Electronic Commerce Modeling Language specification. See ["Connect to a service"](#) p. 64.

Choose the product you want to buy and read carefully all provided information before your purchase. The text may not fit within a single screen. Therefore, make sure to scroll through and read all of the text before your purchase.

To pay for the items you wish to buy, the phone asks whether you want to use the wallet. The phone also asks for your wallet PIN code.

Select the card you want to pay with from the [Payment cards](#) list. If the data form you receive from the service provider supports the Electronic Commerce Modeling Language specification, the phone automatically fills in the credit card information or the wallet profile from the wallet.

Approve the purchase, and the information is forwarded.

You may receive an acknowledgement or a digital receipt of the purchase.

To close the wallet, select [Close wallet](#). If you do not use the wallet for 5 minutes, it closes automatically.

If you have tried to access or have accessed confidential information requiring passwords (for example

your bank account), empty the cache of your phone after each use.

To empty the cache, see ["Cache memory"](#) p. 68.

15. Web



You can access various mobile Internet services with your phone browser.



Important: Use only services that you trust and that offer adequate security and protection against harmful software.

Check the availability of these services, pricing, tariffs, and instructions with your service provider.

With the phone browser you can view the services that use wireless markup language (WML) or extensible hypertext markup language (XHTML) on their pages. Appearance may vary due to screen size. You may not be able to view all details of the Internet pages.

■ Set up browsing

You may receive the configuration settings required for browsing as a configuration message from the service provider. See "[Configuration settings service](#)" p. 10. You can also enter all the configuration settings manually. See "[Configuration](#)" p. 49.

■ Connect to a service

Verify that the correct configuration settings of the service that you want to use are activated.

1. To select the settings for connecting to the service, select **Menu** > **Web** > **Settings** > **Configuration settings**.
2. Select **Configuration**. Only the configurations that support browsing service are shown. Select a service provider, **Default**, or **Personal config**, for browsing. See "[Set up browsing](#)" p. 64.

Select **Account** and a browsing service account contained in the active configuration settings.

Select **Display terminal window** > **Yes** to perform manual user authentication for intranet connections.



Make a connection to the service in one of the following ways:

- Select **Menu** > **Web** > **Home**; or in the standby mode, press and hold 0.
- To select a bookmark of the service, select **Menu** > **Web** > **Bookmarks**.
- To select the last URL, select **Menu** > **Web** > **Last web addr.**

- To enter the address of the service, select **Menu** > **Web** > **Go to address**, enter the address of the service.

■ Browse pages

After you make 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.

If packet data is selected as the data bearer,  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 packet data connection,  is shown on the top right of the display to indicate that the packet data connection is suspended (on hold). After a call the phone tries to reconnect the packet data connection.

Browse with phone keys

Use the navigation keys to browse through the page.

To select a highlighted item, press the call key, or select **Select**.

To enter letters and numbers, press the keys, 0 to 9. To enter special characters, press *.

Options while browsing

In addition to the options available on your device, your service provider may offer other options.

Direct calling

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

■ Appearance settings

While browsing, select **Options** > **Other options** > **Appear. settings**; or in the standby mode, select **Menu** > **Web** > **Settings** > **Appearance settings** and from the following options:

Text wrapping > **On** — to set the text to continue on the next line on the display. If you select **Off**, the text is abbreviated.

Font size > **Extra small**, **Small**, or **Medium** — to set the font size

Show images > **No** — to hide pictures on the page. This can speed up the browsing of pages that contain a lot of pictures.

Alerts > **Alert for unsecure connection** > **Yes** — to set the phone to alert when an encrypted connection changes to unencrypted during browsing

Alerts > Alert for unsecure items > Yes – to set the phone to alert when an encrypted page contains an unsecure item. These alerts do not guarantee a secure connection. See "Browser security" p. 68.

Character encoding > Content encoding – to select the encoding for the browser page content

Character encoding > Unicode (UTF-8) web addresses > On – to set the phone to send a URL as a UTF-8 encoding. You may need this setting when you access a Web page created in foreign language.

■ Cookies

A cookie is data that a site saves in the cache memory of your phone. Cookies are saved until you clear the cache memory. See "Cache memory" p. 68.

While browsing, select **Options > Other options > Security > Cookie settings**; or in the standby mode, select **Menu > Web > Settings > Security settings > Cookies**. To allow or prevent the phone from receiving cookies, select *Allow* or *Reject*.

■ Scripts over secure connection

You can select whether to allow the running of scripts from a secure

page. The phone supports WML scripts.

1. While browsing, select **Options > Other options > Security > Script settings**; or in the standby mode, select **Menu > Web > Settings > Security settings > Scripts over secure connection**.
2. To allow the scripts, select *Allow*.

■ Bookmarks

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

1. While browsing, select **Options > Bookmarks**; or in the standby mode, select **Menu > Web > Bookmarks**.
2. Scroll to a bookmark, and select it; or press the call key to make a connection to the page associated with the bookmark.
3. Select **Options** to view, edit, delete, or send the bookmark; create a new bookmark; or save the bookmark to a folder.

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.

Receive a bookmark

When you have received a bookmark that is sent as a bookmark, **1 bookmark received** is displayed. To save the bookmark, select **Show > Save**. To view or delete the bookmark, select **Options > View** or **Delete**. To discard the bookmark directly after you have received the bookmark, select **Exit > OK**.

Download files

To download more tones, images, games, or applications to your phone (network service), select **Menu > Web > Downloads > Tone downloads, Graphic downloads, Game downloads, Video downloads, Theme downloads, or App. downloads**.



Important: Only install and use applications and other software from sources that offer adequate security and protection against harmful software.

Service inbox

The phone is able to receive service messages (pushed messages) sent by your service provider (network service). 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 the standby mode, when you have received a service message, select **Show**. If you select **Exit**, the message is moved to the **Service inbox**. To access the **Service inbox** later, select **Menu > Web > Service inbox**.

To access the **Service inbox** while browsing, select **Options > Other options > Service inbox**. Scroll to the message you want. To activate the browser and download the marked content, select **Retrieve**. To display detailed information on the service notification or to delete the message, select **Options > Details** or **Delete**.

Service inbox settings

Select **Menu > Web > Settings > Service inbox settings**.

To set whether you want to receive service message, select **Service messages > On** or **Off**.

To set the phone to receive service messages only from content authors approved by the service provider, select **Message filter > On**. To view the list of the approved content authors, select **Trusted channels**.

To set the phone to automatically activate the browser from the standby mode when the phone has received a service message, select **Automatic connection > On**. If you select **Off**, the phone activates the

browser only after you select *Retrieve* when the phone has received a service message.

■ Cache memory

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, while browsing, select **Options** > *Other options* > *Clear the cache*; in the standby mode, select **Menu** > *Web* > *Clear the cache*.

■ Browser security

Security features may be required for some services, such as online banking or shopping. 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 improves security services for applications requiring a browser connection, and allows you to use a digital signature. The security module may contain certificates as well as private and public keys. The certificates are

saved in the security module by the service provider.

Select **Menu** > *Web* > *Settings* > *Security settings* > *Security module settings* and from the following options:

Security module details — to show the security module title, status, manufacturer, and serial number

Module PIN request — to set the phone to ask for the module PIN when using services provided by the security module. Enter 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 — to change the signing PIN code for the digital signature. Select the signing PIN you want to change. Enter the current PIN code, then the new code twice. See also "[Access codes](#)" p. 9.

Certificates




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.

There are three kinds of certificates: server certificates, authority certificates, and user certificates. You may receive these certificates from your service provider. Authority certificates and user certificates may

also be saved in the security module by the service provider.

To view the list of the authority or user certificates downloaded into your phone, select **Menu > Web > Settings > Security settings > Authority certificates** or **User certificates**.


The security indicator  is displayed during a connection if the data transmission between the phone and the content server is encrypted.

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.

Digital signature

You can make digital signatures with your phone if your SIM card has a security module. 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 is shown, which may include the amount and date.

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

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 select **Sign**.

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. Enter the signing PIN (see ["Access codes"](#) p. 9), and select **OK**.

The digital signature icon disappears, and the service may display a confirmation of your purchase.

16. SIM services



Your SIM card may provide additional services that you can access. This menu is shown only if it is supported by your SIM card. The name and contents of the menu depend on the SIM card.

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.

To set the phone to show the confirmation messages sent between your phone and the network when you are using the SIM services, select **Menu** > *Settings* > *Phone settings* > *Confirm SIM service actions* > *Yes*.

Accessing these services may involve sending messages or making a phone call for which you may be charged.

17. PC connectivity

You can send and receive e-mail and access the Internet when your phone is connected to a compatible PC through a data cable (CA-42) connection. You can use your phone with a variety of PC connectivity and data communications applications.

■ PC Suite

With PC Suite you can synchronize *Contacts*, calendar and to-do notes, and notes between your phone and the compatible PC or a remote Internet server (network service).

You may find more information about PC suite, for example, downloadable files in the support area on the Nokia Web site at <www.nokia-asia.com/support>.

■ Packet data, HSCSD, and CSD

With your phone you can use the packet data, high-speed circuit switched data (HSCSD), and circuit switched data (CSD, *GSM data*).

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

The use of HSCSD services consumes the phone 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 "[Packet data \(EGPRS\)](#)" p. 48.

■ Data communication applications

For information on using a data communication application, refer to the documentation provided with it. 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 down. Do not move the phone by holding it in your hand during a data call.

18. 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, replace the 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 a fully charged battery connected to a charger, since overcharging may shorten its lifetime. If left unused, a fully charged battery will lose its charge over time.

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 and its ability to charge. 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 as they may explode. Batteries may also explode if damaged. Dispose of batteries according to local regulations. Please recycle when possible. Do not dispose as household waste.

■ Nokia Battery Authentication Guidelines

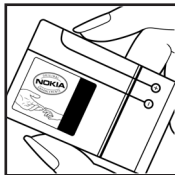
Always use original Nokia batteries for your safety. To check that you are getting an original Nokia battery,

purchase it from an authorized Nokia dealer, look for the Nokia Original Enhancements logo on the packaging, and inspect the hologram label using the following steps:

Successful completion of the four steps is not a total assurance of the authenticity of the battery. If you have any reason to believe that your battery is not an authentic original Nokia battery, you should refrain from using it, and take it to the nearest authorized Nokia service point or dealer for assistance. Your authorized Nokia service point or dealer will inspect the battery for authenticity. If authenticity cannot be verified, return the battery to the place of purchase

Authenticate hologram

1. When looking at the hologram on the label, you should see the Nokia connecting hands symbol from one angle and the Nokia Original Enhancements logo when looking from another angle.

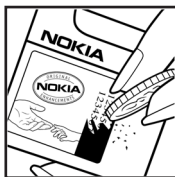


2. When you angle the hologram left, right, down, and up, you

should see 1, 2, 3, and 4 dots on each side respectively.



3. Scratch the side of the label to reveal a 20-digit code, for example, 12345678919876543210. Turn the battery so that the numbers are facing upwards. The 20-digit code reads starting from the number at the top row followed by the bottom row.



4. Confirm that the 20-digit code is valid by following the instructions at www.nokiaoriginals.com/check.



To create a text message enter the 20-digit code, for example, 12345678919876543210, and send to +44 7786 200276.

To create a text message,

- For countries in Asia Pacific, excluding India: Enter the 20-digit code, for example, 12345678919876543210, and send to +61 427151515.
- For India only: Enter Battery followed by the 20-digit battery code, for example, Battery 12345678919876543210, and send to 5555.

National and international operator charges will apply.

You should receive a message indicating whether the code can be authenticated.

If you need assistance confirming the battery code, contact your local Nokia Care Centres listed at www.nokia-asia.com/carecentrelocator.

What if your battery is not authentic?

If you cannot confirm that your Nokia battery with the hologram on the label is an authentic Nokia battery, please do not use the battery. Take it to the nearest authorized Nokia service point or dealer for assistance. The use of a battery that is not approved by the manufacturer may be dangerous and may result in poor performance and damage to your device and its enhancements. It may also

invalidate any approval or warranty applying to the device.

To find out more about original Nokia batteries, visit www.nokiaoriginals.com/battery.

19. Genuine Enhancements

A new extensive range of enhancements is available for your phone. Select the enhancements which accommodate your specific communication needs.



Some of the enhancements are described in detail below.

For availability of the enhancements, please check with your local dealer. A few practical rules for enhancements operation:

- Keep the enhancements out of small children's reach.
- When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.
- Check regularly that all mobile phone equipment in a vehicle is mounted and operating properly.

Use only batteries, chargers and enhancements approved by the phone manufacturer. The use of any other types may invalidate any approval or warranty applying to the phone, and may be dangerous.

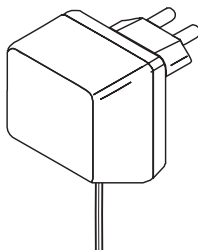
■ Power

Type	Tech	Talktime*	Standby*
BL-5B	Li-ion	min 2.5 h up to 3.5 h	min 150 h up to 350 h

* Variation in operation times may occur depending on SIM card, network and usage settings, usage style and environments. Use of FM radio and integrated hands-free will affect talktime and standby.

Standard Charger (ACP-7)

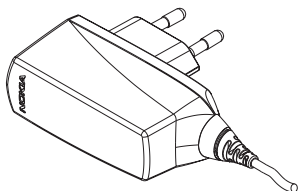
Small, lightweight and durable charger ACP-7 provides an easy and convenient way to charge the phone. It is easy to connect to phone or desktop stand.



Note: The plug types vary according to different markets.

Travel Charger (ACP-12)

Small, lightweight travel charger with multivoltage (100 - 240V) switcher technology. Provides easy and convenient way to charge the phone.

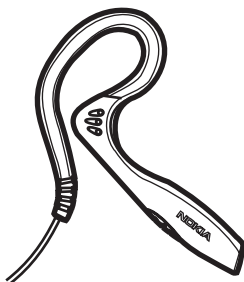


Note: The plug types vary according to different markets.

■ Audio

Boom Headset (HDB-4)

This small and lightweight headset has a beautiful and distinctive Nokia design. Gives you excellent audio quality and you can answer or end calls by pressing the button on the microphone part of the headset.



20. Care and maintenance

Your device is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you protect your warranty coverage.

- Keep the device dry. Precipitation, humidity and all types of liquids or moisture can contain minerals that will corrode electronic circuits. If your device does get wet, remove the battery and allow the device to dry completely before replacing it.
- Do not use or store the device in dusty, dirty areas. Its moving parts and electronic components can be damaged.
- Do not store the device in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the device in cold areas. When the device returns to its normal temperature, moisture can form inside the device and damage electronic circuit boards.
- Do not attempt to open the device other than as instructed in this guide.
- Do not drop, knock, or shake the device. Rough handling can break internal circuit boards and fine mechanics.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the device.

- Do not paint the device. Paint can clog the moving parts and prevent proper operation.
- Use a soft, clean, dry cloth to clean any lenses (such as camera, proximity sensor, and light sensor lenses).
- Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the device and may violate regulations governing radio devices.
- Use chargers indoors.
- Always create a backup of data you want to keep (such as contacts and calendar notes) before sending your device to a service facility.

All of the above suggestions apply equally to your device, battery, charger, or any enhancement. If any device is not working properly, take it to the nearest authorized service facility for service.

21. Additional safety information

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

■ Operating environment

Remember to follow any special regulations in force in any area and always switch off your device when its use is prohibited or when it may cause interference or danger. Use the device only in its normal operating positions.

This device meets RF exposure guidelines when used either in the normal use position against the ear or when positioned at least 2.2 centimeters (7/8 inches) away from the body. When a carry case, belt clip or holder is used for body-worn operation, it should not contain metal and should position the device the above-stated distance from your body. In order to transmit data files or messages, this device requires a good quality connection to the network. In some cases, transmission of data files or messages may be delayed until such a connection is available. Ensure the above separation distance instructions are followed until the transmission is completed.

Parts of the device are magnetic. Metallic materials may be attracted to the device. Do not place credit cards or other magnetic storage media near the device, because information stored on them may be erased.

■ Medical devices

Operation of any radio transmitting equipment, including wireless 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 device 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.

Pacemakers

Pacemaker manufacturers recommend that a minimum separation of 15.3 centimeters (6 inches) be maintained between a wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers should do the following:

- Always keep the device more than 15.3 centimeters (6 inches) from the pacemaker
- Not carry the device in a breast pocket
- Hold the device to the ear opposite the pacemaker to minimize the potential for interference.

If you suspect interference, switch off your device, and move the device away.

Hearing aids

Some digital wireless devices may interfere with some hearing aids. If interference occurs, consult your service provider.

■ Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection systems, electronic antiskid (antilock) braking systems, electronic speed control systems, and air bag systems. For more information, check with the manufacturer, or its representative, of your vehicle or any equipment that has been added.

Only qualified personnel should service the device, or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty that may apply to the device. Check regularly that all wireless device 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 device, its parts, or enhancements. For vehicles equipped with an air bag, remember that air bags inflate with great force. Do not place objects, including 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.

Using your device while flying in aircraft is prohibited. Switch off your device before boarding an aircraft. The use of wireless teledevices in an aircraft may be

dangerous to the operation of the aircraft, disrupt the wireless telephone network, and may be illegal.

■ Potentially explosive environments

Switch off your device when in any area with a potentially explosive atmosphere and obey all signs and instructions. Potentially explosive atmospheres include areas where you would normally be advised to turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Switch off the device at refuelling points such as near gas pumps at service stations. Observe restrictions on the use of radio equipment in fuel depots, 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), and areas where the air contains chemicals or particles such as grain, dust, or metal powders.

■ Emergency calls



Important: Wireless phones, including this device, operate using radio signals, wireless networks, landline networks, and user-programmed functions. Because of this, connections in all conditions cannot be guaranteed. You should never rely solely on any wireless device for essential communications like medical emergencies.

scene of an accident. Do not end the call until given permission to do so.

To make an emergency call:

1. If the device is not on, switch it on. Check for adequate signal strength. Some networks may require that a valid SIM card is properly inserted in the device.
2. Press the end key as many times as needed to clear the display and ready the device for calls.
3. Enter the official emergency number for your present location. Emergency numbers vary by location.
4. Press the call key.

If certain features are in use, you may first need to turn those features off before you can make an emergency call. If the device is in offline or flight mode you must change the profile to activate the phone function before you can make an emergency call. Consult this guide or your service provider for more information.

When making an emergency call, give all the necessary information as accurately as possible. Your wireless device may be the only means of communication at the

■ Certification information (SAR)

THIS MODEL PHONE MEETS INTERNATIONAL GUIDELINES FOR EXPOSURE TO RADIO WAVES.

Your mobile phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the limits for exposure to radio frequency (RF) recommended by international guidelines (ICNIRP). These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines were developed by independent scientific organisations through periodic and thorough evaluation of scientific studies. The guidelines include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit stated in the international guidelines is 2.0 W/kg*. Tests for SAR are conducted using standard operating positions 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 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 base station, the lower the power output of the phone.

The highest SAR value for this model phone when tested for use at the ear is 0.78 W/kg. While there may be differences between the SAR levels of various phones and at various positions, they all meet the relevant international guidelines for RF exposure.

* The SAR limit for mobile phones used by the public is 2.0 watts/kilogram (W/kg) averaged over ten grams of body tissue. The guidelines incorporate 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-asia.com.

Index

A

- access codes 9
- accessories. See enhancements.
- alarm clock 56
- antenna 14
- application download 10
- applications 59

B

- barring password 10
- Battery 76
- battery 73
 - charge level 17
 - charging 13, 73
- Battery Authentication 73
- Battery information
 - type 76
- bookmarks 66
- Boom Headset (HDB-4) 77
- browser 64
 - appearance settings 65
 - bookmarks 66
 - browsing pages 65
 - cache memory 68
 - certificates 69
 - cookies 66
 - digital signature 69
 - script settings 66
 - security module 68
 - set up 64
- business cards 40

C

- cache memory 68
- calculator 60
- calendar 56
- call functions 20
- call key 17
- call register 38
- call settings 47
- call waiting 20
- caller groups 44
- calls
 - answer 20
 - call waiting 20
 - international 20
 - make a voice dialing call 43

- making of 20
- options during call 20
- recent calls list 38
- reject 20
- speed dialling 20
- camera
 - record a video clip 54
 - take a photo 54
- care 78
- certificates 69
- Certification information (SAR) 82
- character case 22
- charge the battery 13
- circuit switched data 72
- clock settings 46
- codes
 - access 9
 - barring password 10
 - PIN 9
 - PUK 9
 - security 9
- configuration 49
- configuration setting service 10
- contact information 11
- contacts 39
 - business cards 40
 - caller groups 44
 - copy 40
 - delete 40
 - edit details 40
 - my numbers 44
 - my presence 40
 - save 39
 - search 39
 - service numbers 44
 - settings 42
 - speed dialing 42, 43
 - subscribed names 41
- cookies 66
- countdown timer 60
- counters 38
- CSD 72
- customer service 11

D

- data communication 72
- date settings 46
- delete

- e-mail 35
 - messages 35
- digital signature 69
- display settings 46
- downloads 10
 - applications 10, 59, 67
 - content 10
 - files 67
 - games 59

E

- earpiece 17
- EGPRS 48
- e-mail 33
 - IMAP4 34
 - POP3 34
- emergency calls 81
- end call 20
- end key 17
- enhancements settings 49
- explosive environments 80

F

- factory settings 51
- flash messages 30
- folders 27
 - inbox 29, 35
 - my folders 27
 - other 35
 - outbox 29
 - saved items 27, 29
 - sent items 29
- font size 37
- functions
 - call 20
 - overview 9

G

- gallery 53
- Genuine Enhancements 76

H

- handsfree. See loudspeaker.
- hearing aids 80
- help text 48
- high-speed circuit switched data 72
- HSCSD 72

I

- IM 30
- IMAP4 34
- indicators 18
- info messages 35
- instant messaging 30
 - accept invitation 32
 - availability 32
 - block 33
 - contacts 32
 - groups 33
 - private 33
 - public 33
 - participate in a conversation 32
 - read 32
 - reject invitation 32
 - service 31
 - start session 31
 - unblock 33
- Internet 64

J

- joystick 17

K

- keyguard 19
- keypad 17
- keypad lock 19
- keys 17
 - keyguard 19
 - keypad lock 19
 - selection keys 17

L

- language 22, 23
- lights 49
- list of recordings 55
- location information 38
- log 38
- loudspeaker 17, 20

M

- maintenance 11, 78
- media 54
- medical devices 79
- memory
 - full 29
 - memory in use 42
 - status 60

- menu 24
- message center number 25
- message settings
 - e-mail 37
 - font size 37
 - MMS 36
 - SMS 36
 - text messages 36
- messages
 - delete 35
 - flash messages 30
 - info messages 35
 - length indicator 25
 - message counter 37
 - message settings 36
 - service commands 35
 - SMS 25
 - text messages 25
 - voice messages 35
 - write SMS 26
 - write text message 26
- MMS. See multimedia messages.
- modem settings 48
- multimedia messages 27
- my numbers 44
- my presence 40

N

- names. See contacts.
- navigation 24
- navigation key. See joy stick
- network
 - EGSM 7
 - GSM 7
 - name on display 17
 - services 7
- Nokia contact and support 11
- note alarm 57
- notes 57

O

- operator menu 52
- organizer 56
 - alarm clock 56
 - calendar 56
 - calendar note 56
 - note alarm 57
 - notes 57
 - PC synchronization 58
 - server synchronization 58
 - synchronization 57

- to-do list 57
- overview
 - functions 9
 - keys and parts 17

P

- pacemakers 79
- packet data 48, 72
- parts 17
- PC
 - connectivity 72
 - PC Suite 72
 - synchronization 58
- personal shortcuts 46
- phone
 - care 78
 - configuration 49
 - keys 17
 - language 23
 - maintenance 78
 - parts 17
 - personalize 45
 - settings 47
- phone lock. See keypad lock.
- phonebook 39
- photo 54
- PIN codes 9
- POP3 34
- Pop-Port 17
- positioning 38
- power key 17
- power saving 18
- predictive text input 22
 - compound words 22
- profiles 45
- PUK codes 9
- punctuation marks 23
- pushed messages 67

R

- recent calls list 38
- record sound 54
- recorder 54
- repair service 11
- ringing tones 44, 45, 53, 67

S

- safety
 - additional information 79
 - emergency calls 81

- enhancements 8
- explosive environments 80
- guidelines 6
- hearing aids 80
- medical devices 79
- operating environment 79
- pacemakers 79
- vehicles 80
- SAR value 82
- screen saver 18
- script settings 66
- scroll key. See joy stick
- security
 - codes 9
 - module 68
 - settings 50
- selection keys 17
- server synchronization 58
- service
 - commands 35
 - inbox 67
 - messages 67
 - numbers 44
- services 64
- settings 45
 - call settings 47
 - clock 46
 - configuration 49
 - connectivity 48
 - date 46
 - display 46
 - EGPRS 48
 - enhancements 49
 - games 60
 - messages 36
 - modem settings 48
 - packet data 48
 - personal shortcuts 46
 - phone settings 47
 - profiles 45
 - restore factory settings 51
 - service inbox 67
 - shortcuts 46
 - themes 45
 - time 46
 - tones 45
 - wallet 62
- shared memory 7
- shortcuts 18, 46
 - in standby mode 18
 - joystick 18
 - personal list 18
- signal strength 17

- SIM services 71
- SMS 25
 - templates 27
- SMS e-mail 26
- special characters 23
- speed dialing 20, 42, 43
- standby mode 17
- stopwatch 61
- strap 14
- subscribed names
 - add contacts 41, 42
 - unsubscribe a contact 42
- support 11
- switch on and off 14
- synchronization 57

T

- take a photo 54
- templates 27
- text
 - character case 22
 - predictive text input 22
 - compound words 22
 - punctuation marks 23
 - settings 22
 - special characters 23
 - traditional text input 22, 23
 - writing 22
- text message 25
 - templates 27
- themes 45
- time settings 46
- timers 38
- to-do list 57
- tones 45
- traditional text input 23

U

- unlock keypad 19
- UPIN 9, 14, 51

V

- vehicles 80
- vibrating alert 45
- video clip 54
- voice commands 43
- voice dialing
 - add voice tags 43
 - make a call 43
 - manage voice tags 43

voice messages 35
voice tags 43

W

wallet 61
 codes 10
 profile 62
wallpaper 45, 46
Web 64
 bookmarks 66
 connect 64
wireless markup language 64
WML 64
wrist strap 14
write text 22
writing language 22

X

XHTML 64