Nokia 6101 and Nokia 6102 User Guide

9240568
Issue 1

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Nokia 6101h and 6102h User Guide addendum

■ Hearing Aid Compatibility

Your mobile device model complies with FCC rules governing hearing aid compatibility with hearing aids operating in microphone mode. These rules require phone models to fulfil the telephone near field category M3 or higher category. The M-value, shown on the device box, refers to lower radio frequency (RF) emissions. A higher M-value generally indicates that a device model has a lower RF emissions level, which may improve the likelihood that the device will operate with certain hearing aids. Some hearing aids are more immune than others are to interference. Please consult your hearing health professional to determine the M rating of your hearing aid and whether your hearing aid will work with this device.

GSM networks in the United States utilize 850 and 1900 MHz bands. Your phone operates on both bands, and is enhanced with a "hearing aid mode" to activate if needed. In this mode, the phone reduces the maximum power that it can use when operating in the GSM 850 MHz band, thus potentially reducing interference with a hearing aid. When your phone is operating in the GSM 1900 MHz band, using the hearing aid mode does not impact the phone's operations. There is also no benefit to using the hearing aid mode if you do not wear hearing aids.

The type of hearing aid and how far the phone is from a network base station both contribute to whether the hearing aid mode is beneficial. Hearing aid users should experiment with use of the hearing aid mode to determine whether it affects the operation of their hearing aids while using the mobile phone.

Activate the hearing aid mode

Select **Menu** > *Settings* > *Enhancement settings* > *Hearing aid* > *On*.
An "ear" icon is displayed on the start screen.

If you make an emergency call to 911 while the phone is in the hearing aid mode, the phone will use as much power as it needs (up to the maximum available) to connect the call.

More information on accessibility can be found at www.nokiaaccessibility.com

■ Certification information (SAR)

The following text supplements the section entitled "Certification Information" in the User Guide:

THIS MOBILE DEVICE MEETS GUIDELINES FOR EXPOSURE TO RADIO WAVES.

Your mobile device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves recommended by international guidelines. These guidelines were

developed by the independent scientific organization ICNIRP and include safety margins designed to assure the protection of all persons, regardless of age and health.

The exposure guidelines for mobile devices employ a unit of measurement known as the Specific Absorption Rate or SAR. The SAR limit stated in the ICNIRP guidelines is 2.0 watts/ kilogram (W/kg) averaged over ten grams of tissue. Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands. The actual SAR level of an operating device can be below the maximum value because the device is designed to use only the power required to reach the network. That amount changes depending on a number of factors such as how close you are to a network base station. The highest SAR value under the ICNIRP guidelines for use of the device at the ear is 0.68 W/kg for the Nokia 6101h phone and 0.68 W/kg for the Nokia 6102h phone.

Use of device accessories and enhancements may result in different SAR values. SAR values may vary depending on national reporting and testing requirements and the network band. Additional SAR information may be provided under product information at www.nokia.com.

Your mobile device is also designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA) and Industry Canada. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value for reported for the Nokia 6101h phone under this standard during product certification for use at the ear is 0.75 W/kg and when properly worn on the body is 0.53 W/kg. The highest SAR value for reported for the Nokia 6102h phone under this standard during product certification for use at the ear is 0.48 W/kg and when properly worn on the body is 1.07 W/kg. Information can be found at http://www.fcc.gov/oet/fccid by searching the equipment authorization system using FCCID PPIRM-77H for the Nokia 6101h phone and FCCID PPIRM-77XH for the Nokia 6102h phone.

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DECLARATION OF CONFORMITY

We, NOKIA CORPORATION declare under our sole responsibility that the products RM-76 and RM-77 are in conformity with the provisions of the following Council Directive:1999/5/EC.

A copy of the Declaration of Conformity can be found at **http://www.nokia.com/phones/declaration of conformity/**.

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LEGAL INFORMATION

Part No. 9240568, Issue No. 1

EXPORT CONTROLS

This device may contain commodities, technology, or software subject to export laws and regulations from the U.S. and other countries. Diversion contrary to law is prohibited.

FCC/INDUSTRY CANADA NOTICE

Your device may cause TV or radio interference (for example, when using a telephone in close proximity to receiving equipment). The FCC or Industry Canada can require you to stop using your telephone if such interference cannot be eliminated. If you require assistance, contact your local service facility. This device complies with part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference.

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DRAFT

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 get interference, which could
affect performance.

SWITCH OFF IN HOSPITALS
Follow any restrictions. Switch the phone off near medical equipment.

SWITCH OFF IN AIRCRAFT
Follow any restrictions. Wireless devices can cause interference
in aircraft.

SWITCH OFF WHEN REFUELLING
Don't use the phone at a refuelling point. Don't use near fuel
or chemicals.

SWITCH OFF NEAR BLASTING
Follow any restrictions. Don't use the phone where blasting is
in progress.

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

QUALIFIED SERVICE
Only qualified personnel may install or repair this product.

ENHANCEMENTS AND BATTERIES
Use only approved enhancements and batteries. Do not connect
incompatible products.

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 850/1800/1900 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, audio messages, instant messaging service, e-mail, 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, multimedia messages (but no attachments), instant messaging, groups, voice commands, calendar, and to-do notes. The second shared memory is used by files stored in *Gallery*, attachments of multimedia messages, e-mail, and Java™ applications. Use of one or more of these features may reduce the memory available for the remaining features sharing memory. For example, saving many Java applications 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 text messages, may have a certain amount of memory specially allotted to them in addition to the memory shared with other features.
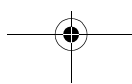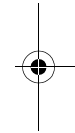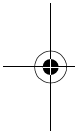
General information

■ Overview of functions

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

- Enhanced data rates for GSM evolution (EDGE), see "Packet data (EGPRS)," p. 42

- Extensible hypertext markup language (XHTML), see "Web," p. 57

- Audio messaging, see "Nokia Xpress audio messaging," p. 29

- Java 2 Platform, Micro Edition (J2ME™), see "Applications," p. 55

■ 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 to set the phone to request the code, see "Security," p. 44.

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. 44.

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. 61.

The signing PIN is required for the digital signature. See "Digital signature," p. 63.

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.

General information

<u>Restriction password</u>

The restriction password (4 digits) is required when using the *Call restrictions*.
See "Security," p. 44.

■ Configuration settings service

To use some of the network services, such as mobile Internet services, MMS,
Nokia Xpress audio messaging, or remote Internet server synchronization, your
phone needs the correct configuration settings. You may be able to receive the
settings directly as a configuration message. After receiving the settings you
need to 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.nokiausa.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. 43.

■ 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 on the Web

Check **www.nokia.comusa/support** or your local Nokia Web site for the latest
version of this guide, additional information, downloads, and services related to
your Nokia product.

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1. Get started

■ Open the fold

When you open the fold of the phone, it
opens up to approximately 155 degrees.
Do not try to force the fold open more.
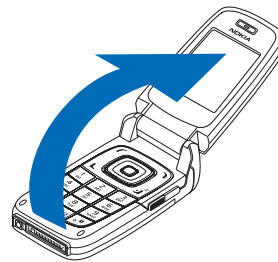
■ Install the SIM card and the battery

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

This device is intended for use with BL-4C battery.

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

To remove the back cover of the phone press the release
buttons (1), and slide the back cover to remove it from
the phone (2).
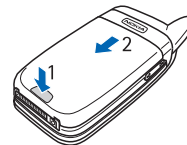
Remove the battery as shown(3).
Release the SIM card holder (4).
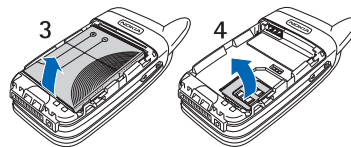
Insert the SIM card (5). Make sure that the SIM card is properly inserted, and that the golden contact area on the card is facing downwards. Close the SIM card holder (6) and press it until it snaps into position.
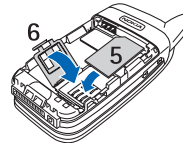
Replace the battery (7). Observe the battery contacts. Always use original Nokia batteries. See "Nokia battery authentication guidelines," p. 68.
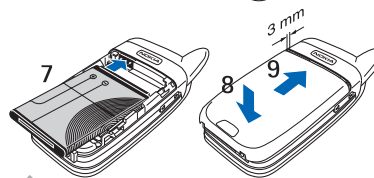
Slide the back cover into its place (8, 9).

■ 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 an AC-3, AC-4, and DC-4 charger, and from AC-1, ACP-7, ACP-12, and LCH-12 charger when used with the charger adapter CA-44, which is available at your Nokia dealer or **www.nokiausa.com**.

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

1. Connect the charger to a wall socket.
2. Connect the lead from the charger to the socket on the bottom of your phone.
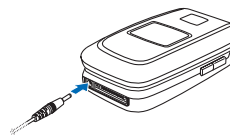
If the battery is completely discharged, it may take a few minutes before the charging indicator appears on the display or before any calls can be made.

The charging time depends on the charger and the battery used. For example, charging a BL-4C battery with the AC-3 charger takes approximately 2 hours and 12 minutes while the phone is in the standby mode.

■ Switch the phone on and off

Press and hold the end key.

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

■ Normal operating position

Use the phone only in its normal
operating position.

Your device has an external 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.
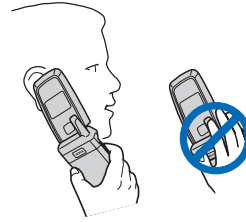
Your phone

2. Your phone

■ Keys and parts

📌 **Note:** Your phone may vary slightly in appearance, but the functionality is the same.

- Earpiece (1)
- Main display (2)
- Left selection key (3)

  Middle selection key (4)

  Right selection key (5)

  The function of these keys depends on the guiding text shown on the display above the keys.

- Volume key (6)
- 4-way navigation key (7)

  Scroll up, down, left, and right.

- Call key (8)
- Camera release key (9)
- Infrared (IR) port (10)
- End key and power key (11)
- Charger connector (12)
- Pop-Port™ connector (13)
- Microphone (14)
- Loudspeaker (15)
- Camera lens (16)
- Mini display (17)

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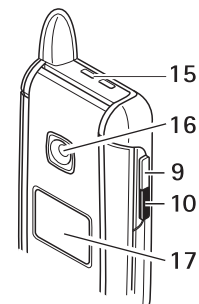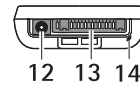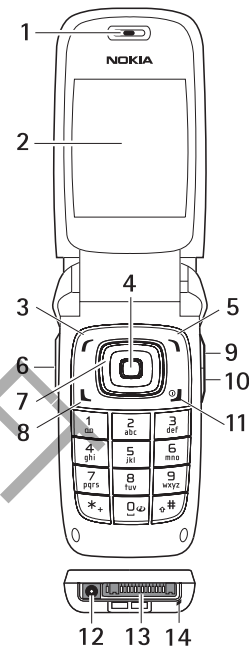
■ Standby mode

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

Mini display

When the fold is closed, the mini display may show the following:

- The signal strength of the cellular network at your current location and the battery charge level
- The name of the network, or if the phone is not in service, it is indicated by a text note
- The time and date, the active profile, and the alarm clock or calendar note alerts

When you have an incoming call, the caller's name or number is shown if it is identified.

Main display

- 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 selected. See "My shortcuts," p. 39. Operator variants may have an operator-specific name to access an operator-specific Web site.
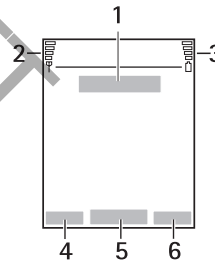
Personal shortcut list

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** > *Organize*. Select the desired function and **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. See "My shortcuts," p. 39.

Power saving

A digital clock view overwrites the display when no function of the phone has been used for a certain period of time. To activate the power saver, see *Power saver* in "Main display," p. 39, and "Mini display," p. 40. To deactivate the screen saver, open the fold, or press any key.

Indicators

✉ You received one or several text or picture messages. See "Read and reply to an SMS message," p. 26.

✆ You received one or several multimedia messages. See "Read and reply to a multimedia message," p. 28.

↪☎ The phone registered a missed call. See "Call log," p. 37.

🔒 The 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* and *Message alert tone* are set to *Off*. See "Tones," p. 38.

🔔 The alarm clock is set to *On*. See "Alarm clock," p. 50.

G When the packet data connection mode *Always online* is selected and the packet data service is available, the indicator is shown. See "Packet data (EGPRS)," p. 42.

G A packet data connection is established. See "Packet data (EGPRS)," p. 42 and "Browse pages," p. 58.

N The packet data connection is suspended (on hold), for example, if there is an incoming or outgoing call during a packet data dial-up connection.

▶··· When the infrared connection is activated, the indicator is shown continuously.

■ 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 *****. If the *Security keyguard* is set *On*, enter the security code if requested.

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* and *Security keyguard*, see "Phone," p. 41.

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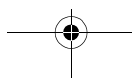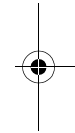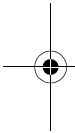
Call functions

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, or close the phone.

To make a call using names, search for a name or phone number in *Contacts*, see "Search for a contact," p. 33. 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.

1-touch dialing

Assign a phone number to one of the 1-touch dialing keys, **2** to **9**. See "1-touch dials," p. 36. Call the number in either of the following ways:

- Press a 1-touch dialing key, and then press the call key.
- If *1-touch dialing* is set to *On*, press and hold a 1-touch dialing key until the call begins. See *1-touch dialing* in "Call," p. 40.

■ Answer or reject a call

To answer an incoming call, press the call key, or open the phone. To end the call, press the end key, or close the phone. For more options, see "Call," p. 40.

To reject an incoming call, press the end key, or if the phone is open, close the phone. To reject an incoming call when the phone is closed, open the phone, and press the end key within 1.5 seconds.

To mute the ringing tone, press one of the volume keys, or select *Silence*.

> **Tip:** If the *Forward if busy* function is activated to forward the calls (for example, to your voice mailbox) rejecting an incoming call also forwards the call. See "Call," p. 40.

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

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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. 40.

■ Options during a call

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

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

Call options are *Mute* or *Unmute*, *Contacts*, *Menu*, *Record*, *Lock keypad*, *Audio enhancing*, *Loudspeaker* or *Handset*.

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

Touch tones — to send tone strings

Swap — to switch between the active call and the call on hold

Transfer calls — 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** > *Writing language*. Predictive text input is only available for the languages listed.

Select **Options** > *Dictionary on* to set the predictive text input or *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 writing language. See "Settings," p. 22.

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.
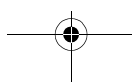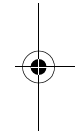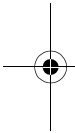
5. Navigate the menus

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

1. To access the menu, select **Menu**. To change the menu view, select **Options** > *Main menu view* > *List* or *Grid*.

2. Scroll through the menu, and select a submenu (for example, *Settings*).

3. If the menu contains submenus, select the one that you want (for example, *Call*).

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**.
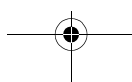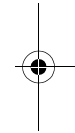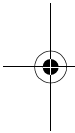
6. Messages

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 center 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.

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. 30.

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 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 an 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. 26. Each picture message comprises several text messages. Sending one picture or multipart message may cost more than sending one text message.

Messages

3. To send the message, select **Send** > *Recently used*, *To phone number*, *To many*, or *To e-mail address*. To send a message using a predefined message profile, select *Via sending profile*. For the message profile, see "Text and SMS e-mail," p. 30. Select or enter a phone number or profile.

Read and reply to an 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*, or *Multimedia msg.* 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 texts, pictures, or SMS e-mail messages.

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

■ Multimedia messages (MMS)

Note: Only devices that offer compatible multimedia message or e-mail features can receive and display multimedia messages. Multimedia message objects may contain viruses or otherwise be harmful to your device or PC. Do not open any attachment if you are not sure of the trustworthiness of the sender.

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. 31. To check availability and to subscribe to the multimedia messaging service, contact your service provider.

1. Select **Menu** > *Messages* > *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 image opens the *Camera* — to take a new image to be added to the message

   New sound clip opens the *Recorder* — to make a new recording to be added to the message

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

   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** > *Recently used*, *To phone number*, *To e-mail address*, or *To many*.

Messages

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. 31. When the message is sent, it is not an
    indication that the message has been received at the intended destination.

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

Read and reply to a multimedia message

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

When your phone receives a multimedia message, the animated is displayed.
When the message has been received, and *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 **Zoom**. To view a business card or calendar
    note or to open a theme object, select **Open**.

3. To reply to the message, select **Options** > *Reply* > *Text message* or
    Multimedia msg.. 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.

■ Memory full

When you receive 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 a new multimedia message is 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.

■ Folders

The phone saves received text and multimedia messages in the *Inbox* folder.

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

If you select *Message settings* > *Text messages* > *Save sent messages* > *Yes*, and *Message settings* > *Multimedia msgs.* > *Save sent messages* > *Yes*, the sent messages are saved in the *Sent items* folder.

To save the text message that you write and wish to send later in the *Saved items* folder, select *Options* > *Save message* > *Saved text msgs.*. For multimedia messages, select *Save message*. ✉ indicates unsent messages.

To organize your text messages, move some of them to *My folders* or add new folders for your messages. Select *Messages* > *Saved items* > *Text messages* > *My folders*.

To add a folder, select **Options** > *Add folder*. If you have not saved any folders, select **Add**.

To delete or rename a folder, scroll to the desired folder, and select **Options** > *Delete folder* or *Rename folder*.

■ Nokia Xpress audio messaging

With this menu, use the multimedia message service to create and send a voice message in a convenient way. Multimedia messaging service must be activated before this service can be used.

Create an audio message

Select **Menu** > *Messages* > *Create message* > *Audio message*. The recorder opens. For further operation of the recorder, see "Recorder," p. 48. When the message is ready to send, select **Options** > *Play* (to check the message before sending), *Replace sound clip* (to repeat the recording), *Save message*, *Save sound clip* (to save the recording in *Gallery*), *Edit subject* (to insert a subject to the message), *Message details* (to view the message details), or *Loudspeaker* or *Handset*.

To send the message, select **Send** > *Recently used*, *To phone number*, *To e-mail address*, or *To many*. Depending on your operator, more options may be available.

Messages

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.

■ 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 the *Info messages* 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 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.

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The following options may be available: *Message center 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 center* (network service) and *Rename sending profile*.

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

Automatic resending > *On* — The phone automatically attempts to resend a text message, if the sending has failed.

Multimedia

The message settings affect the sending, receiving, and viewing of 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 multi-media 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 select a multimedia messaging service account contained in the active configuration settings.

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

Messages

Other settings

To select other settings for messages, select **Menu** > *Messages* > *Message settings* > *Other settings*. To change the font size for reading and writing messages, select *Font size*. To replace character-based smileys with graphical ones, select *Graphical smileys* > *Yes*.

■ Message counter

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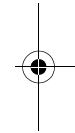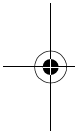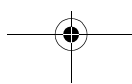
7. Contacts

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* > *Names* > **Options** > *Find*. 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* > *Names* > **Options** > *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, 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** > *Add detail*.

3. To add a number, select *Number* and one of the number types.

   To add another detail, select a text type or an image from *Gallery*.

   To change the number type, scroll to the desired number, and select **Options** > *Change type*. To set the selected number as the default number, select *Set as default*.

4. Enter the number or text item; to save it, select **OK**.

5. To return to the standby mode, select **Back** > **Exit**.

Contacts

■ Copy contacts

Search for the contact you want to copy, and select **Options** > *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*.

■ Delete contacts or contact details

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

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

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

■ 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*, *Via text message*, or *Via infrared*.

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**.

■ 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

■ Groups

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

■ 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.

Contacts

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.

■ 1-touch dials

To assign a number to a 1-touch dialing key, select **Menu** > *Contacts* > *1-touch dialing*, and scroll to the 1-touch dialing number that you want.

Select *Assign*, or if a number has already been assigned to the key, select **Options** > *Change*. Select **Find**, the name, then the number you want to assign. If the *1-touch dialing* function is off, the phone asks whether you want to activate it. See also *1-touch dialing* in "Call," p. 40.

To make a call using the 1-touch dialing keys, see "1-touch dialing," p. 20.

■ Info, service, and my numbers

Select **Menu** > *Contacts* and from the following functions:

Info numbers — to call the information numbers of your service provider if the numbers are included on your SIM card (network service)

Service numbers — to call the service numbers of your service provider if the numbers are included on your SIM card (network service)

My numbers — to view the phone numbers assigned to your SIM card, if the numbers are included on your SIM card

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8. Call log

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*, *Dialed numbers*, or *Message Recipients* 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 *Delete recent calls*.

■ 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 log* > *Call timers*, *Packet data counter*, or *Packet data conn. timer* for approximate information on your recent communications.

Settings

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 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.

To personalize the profile, select *Customize*. Select the setting you want to change, and make the changes.

■ 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. 60.

■ Tones

You can change the settings of the selected active profile.

Select **Menu** > *Settings* > *Tones*. Select and change *Incoming call alert*, *Ringing tone*, *Ringing volume*, *Vibrating alert*, *Message alert tone*, *Keypad tones*, and *Warning tones*. You can find the same settings in the *Profiles* menu. See "Profiles," p. 38.

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**.

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■ My shortcuts

With personal shortcuts, you get quick access to often used functions of the phone. To manage the shortcuts, select **Menu** > *Settings* > *My 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.

Navigation key — to select shortcut functions for the navigation key. Scroll to the desired navigation key, select **Change** and a function from the list. To remove a shortcut function from the key, select *(empty)*. To reassign a function for the key, select **Assign**. 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. 35. To activate a voice command, see "Make a call with a voice tag," p. 36.

■ Main display

Select **Menu** > *Settings* > *Main display* and from the following options:

Wallpaper — to add the background image to the main display in standby mode. To select, activate, or deactivate the wallpaper, select *Select wallpaper* > *On* or *Off*. Select *Select slide set* and a folder in the *Gallery* to use the images in the folder as a slide set. To download more images for wallpaper, select *Graphic downloads*.

Screen saver > *On* — to activate the screen saver for the main display. 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 or a graphic from the *Gallery*. Select *Select slide set* and a folder in the *Gallery* to use the images in the folder as a slide set. To download more images for the screen saver, select *Graphic downloads*.

Power saver > *On* — to save some battery power. A digital clock is displayed when no function of the phone is used for a certain time.

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

Idle state font color — to select the color for the texts on the display in the standby mode.

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.

■ Mini display

Select **Menu** > *Settings* > *Mini display settings*. You can change the settings for *Wallpaper*, *Screen saver*, *Power saver*, and *Color schemes*.

■ Time and date

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

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

Call forwarding (network service) — to forward your incoming calls. You may not be able to forward your call, if some call restriction functions are active. See *Call restrictions* in "Security," p. 44.

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

Answer when fold is opened > *On* — to answer an incoming call, open the phone.

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

1-touch dialing > *On* — to activate speed dialing. To set up speed dialing, see "1-touch dials," p. 36. 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. 21.

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* and from the following options:

Phone language — to set the display and writing language

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

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.

Security keyguard — to set the phone to ask for the security code when you unlock the keyguard. Enter the security code, and select *On*.

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

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. 64.

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 connect your phone to compatible devices using an IR connection. You can also define the settings for packet data dial-up connections.

Infrared

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

Do not point the IR beam at anyone's eyes or allow it to interfere with other IR devices. Infrared devices are Class 1 laser products.

Settings

When sending or receiving data, ensure that the IR ports of the sending and receiving devices are pointing at each other and that there are no obstructions between the devices.

To activate the IR port of your phone to receive data using IR, select **Menu** > *Settings* > *Connectivity* > *Infrared*.

To deactivate the IR connection, select **Menu** > *Settings* > *Connectivity* > *Infrared*. When the phone displays *Deactivate infrared?*, select **Yes**.

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

IR connection indicator

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

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

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.

 indicates a packet data connection.

Modem settings

You can connect the phone using an IR or a data cable (CA-42) 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 EGPRS network.

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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. 65. 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* > *Enhancements*. 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.

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

TTY/TDD > *Use TTY* > *Yes* — to use the TTY settings instead of headset or loopset settings

■ Configuration

You can configure your phone with settings that are required for certain services to function correctly. The services are browser, multimedia messaging, and remote Internet server synchronization. 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. 12.

Select **Menu** > *Settings* > *Configuration* 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.

Settings

Connect to service provider support — to download the configuration settings from your service provider

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 restriction, closed user group, and fixed dialing), calls still may be possible to the official emergency number programmed into your device.

Select **Menu** > *Settings* > *Security* 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 restrictions (network service) — to restrict incoming calls to and outgoing calls from your phone. A restriction password is required.

Fixed dialing — 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 set the PIN code or UPIN code in use, or to change the security code, PIN code, UPIN code, PIN2 code, and restriction 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 which is covered by the PIN2 code

■ Restore factory settings

To reset some of the menu settings to their original values, select **Menu** > *Settings* > *Restore 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. If this menu is not shown the following menu numbers change accordingly.

The operator can update this menu with a service message. For more information, see "Service inbox," p. 60.
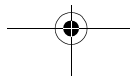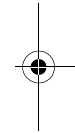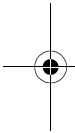
11. Gallery

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, ringing tones, and other content from being copied, modified, transferred, or forwarded.

The files stored in *Gallery* use a memory that may have a capacity of approximately 3 MB.

1. Select **Menu** > *Gallery*.

2. Scroll to the desired folder. To view a list of files in the folder, select **Open** > **Options** and one of the available options.

3. Scroll to the file you want to view, and select **Open** > **Options** and one of the following functions:

   Send — to send the selected file using MMS or IR

   Delete all — to delete all the files and folders in the selected folder

   Edit image — to insert text, a frame or clip-art into the selected picture, or to crop the image

   Open in sequence — to view the files in the folder one by one

   Zoom — to increase the size of the image

   Mute audio or *Unmute audio* — to mute or unmute the sound file

   Set contrast — to adjust the contrast level of the image

   Activate content — to update the activation key of the selected file. The option is only shown if the activation key updating is supported by the file.

   Activation key list — to view the list of all available activation keys. You can delete the activation keys (for example, delete the expired ones).

12. Media

Copyright protections may prevent some images, 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.

Take a photo

Select **Menu** > *Media* > *Camera* > **Capture**, or press the camera release key. 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 take a self-portrait, close the fold and use the mini display as a view finder. Press the camera release key.

Record a video clip

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

■ Radio

The FM radio depends on an antenna other than the wireless devices antenna. A compatible headset or enhancement needs to be attached to the device for the FM radio to function properly.

> **Warning:** Listen to music at a moderate level. Continuous exposure to high volume may damage your hearing. Do not hold the device near your ear when the loudspeaker is in use, because the volume may be extremely loud.

Select **Menu** > *Media* > *Radio*. To use the graphical keys ▲ , ▼ , ◄◄ , or ►► on the display, scroll left or right to the desired key, and select it.

To change the volume, press the volume keys.

Media

Save radio channels

1. To start the channel search, select and hold or . To change the radio frequency in 0.05 MHz steps, briefly press or .

2. To save the channel to a memory location, 1 to 9, press and hold the corresponding number key. To save the channel in the memory location from 10 to 20, press briefly **1** or **2**, and press and hold the desired number key, **0** to **9**.

3. Enter the name of the channel, and select **OK**.

Listen to the radio

Select **Menu** > *Media* > *Radio*. To scroll to the desired channel, select or , or press the headset key. To select a radio channel location, briefly press the corresponding number keys.

Select **Options** and from the following options:

Turn off — to turn off the radio

Save channel — to save a new channel, and enter the channels name

Channels — to select the list of saved channels. To delete or rename a channel, scroll to the desired channel, and select **Options** > *Delete channel* or *Rename*.

Mono output or *Stereo output* — to listen to the radio in monophonic sound or in stereo

Loudspeaker or *Headset* — to listen to the radio using the loudspeaker or headset. Keep the headset connected to the phone. The lead of the headset functions as the radio antenna.

Set frequency — to enter the frequency of the desired radio channel

You can normally make a call or answer an incoming call while listening to the radio. During the call, the volume of the radio is muted.

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

■ 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* > *Recorder*.

   To use the graphical keys, , , or , on the display, scroll left or right to the desired key, and select it.

2. To start the recording, select . To start the recording during a call, select **Options** > *Record*. While recording a call, all parties to the call hear a faint beeping sound about every 5 seconds. When recording a call, hold the phone in the normal position near to your ear.

3. To end the recording, select . The recording is saved in *Gallery* > *Recordings*.

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

5. To send the last recording using a multimedia message or IR, select **Options** > *Send last recorded*.

List of recordings

Select *Menu* > *Media* > *Recorder* > **Options** > *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. 46.

13. Organizer

■ Alarm clock

You can set the phone to alarm at a desired time. Select **Menu** > *Organizer* > *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 the alarm tone or set a radio channel as the alarm tone, select *Alarm tone*. If you select the radio as an alarm tone, connect the headset to the phone. The phone uses the last channel you listened to as the alarm, and the alarm plays through the loudspeaker. If you remove the headset or switch off the phone, the default alarm tone replaces the radio.

To set a 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** or open the phone. If you let the phone continue to sound the alarm for a minute or select **Snooze**, the alarm stops for the selected snooze time-out and 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** >*Organizer* > *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 or multimedia message, with IR, 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** > *Organizer* > *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** > *Organizer* > *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 for writing and sending notes, select **Menu** > *Organizer* > *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, a multimedia message, or IR. 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, to synchronize your phone, start the synchronization from your phone. To synchronize the data in the phone contacts, calendar, and notes to correspond with the data of your compatible PC, start the synchronization from the PC. The contact data in your SIM card is not synchronized.

Answering an incoming call during synchronization ends the synchronization, and you must restart it.

Synchronize from your phone

Before synchronizing from your phone, you must do the following:

- Subscribe to a synchronization service. For details, contact your service provider.
- Retrieve the synchronization settings from your service provider. See "Synchronization settings," p. 52.

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

1. Select the configuration settings you need for the synchronization. See "Synchronization settings," p. 52.
2. Select **Menu** > *Organizer* > *Sync* > *Server sync* > *Data to be synchronized*. Mark the data to be synchronized.
3. Select **Menu** > *Organizer* > *Sync* > *Server sync* > *Synchronize*. 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.

Synchronization settings

You may receive the configuration settings required for synchronization as a configuration message from the network operator or service provider. To manage the configuration settings, see "Configuration," p. 43.

1. Select **Menu** > *Organizer* > *Sync* > *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.

2. Select *PC sync settings* to enter the settings for server alerted synchronization. Set the *User name* and *Password*.

   The user name and password must be the same in the phone and in the PC.

Synchronize from a compatible PC

To synchronize *Contacts*, *Calendar*, and *Notes* from a compatible PC, use an IR, or 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.

■ 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** > *Organizer* > *Calculator*. When 0 is displayed on the screen, enter the first number in the calculation. Press **#** 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** > *Organizer* > *Calculator*. To save the exchange rate, select **Options** > *Exchange rate*. Select either of the displayed options. Enter the exchange rate, press **#** 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** > *To home* or *To foreign*.

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

■ 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** > *Organizer* > *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.

Organizer

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 time — 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

■ Countdown timer

Select **Menu** > *Organizer* > *Timer*. Enter the alarm time in hours, minutes, and seconds, and select **OK**. 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 completed*. 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**.
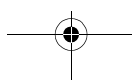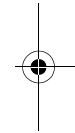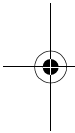
14. Applications

■ Games

Your phone software includes some games.

Launch a game

Select **Menu** > *Applications* > *Games*. Scroll to the desired game, and select **Open**.

For options related to a game, see "Other application options," p. 55.

Game downloads

Select *Menu* > *Applications* > **Options** > *Downloads* > *Game downloads*. The list of available bookmarks is shown. Select *More bookmarks* to access the list of bookmarks in the *Web* menu. See "Bookmarks," p. 59.

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

Game settings

To set sounds, lights, and shakes for the game, select *Menu* > *Applications* > **Options** > *App. settings*.

■ Collection

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

Launch an application

Select **Menu** > *Applications* > *Collection*. Scroll to an application, and select **Open**; or press the call key.

Other application options

Delete — to delete the application or application set from the phone

Details — to view additional information about the application

Update version — to check if a new version of the application is available for download from *Web* (network service)

Applications

Web page — to provide further information or additional data for the application from an Internet page. This feature must be supported by the network. It is only shown if an Internet address has been provided with the application.

App. access — to restrict the application from accessing security relevant functions like network access or access to user data. Different categories are shown. Select in each category, if available, one of the following permission: *Ask every time* to set the phone to always ask for network access, *Ask first time only* to set the phone to ask for network access only on the first attempt, *Always allowed* to allow the network access, or *Not allowed* to not allow the network access.

Download an application

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

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

You can download new Java applications in different ways.

Select **Menu** > *Applications* > **Options** > *Downloads* > *App. downloads*. The list of available bookmarks is shown. Select *More bookmarks* to access the list of bookmarks in the *Web* menu. Select the appropriate bookmark to connect to the desired page. For the availability of different services, pricing, and tariffs, contact your service provider.

Select **Menu** > *Web* > *Downloads*. Download an appropriate application or game. See "Download files," p. 60.

Use the game download function. See "Game downloads," p. 55.

Use the Nokia Application Installer in PC Suite to download the applications to your phone.

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.

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 network operator or service provider that offers the service that you want to use. See "Configuration settings service," p. 12. You can also enter all the configuration settings manually. See "Configuration," p. 43.

■ 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. 57.

   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 address*.

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

Web

■ 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

Nokia.com, *Home*, *Shortcuts*, *Add bookmark*, *Bookmarks*, *Page options*, *History*, *Downloads*, *Other options*, *Reload*, and *Quit* may be available. The service provider may also offer other options.

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

To empty the cache, see "Cache memory," p. 61.

Direct calling

The browser supports functions that you can access while browsing. You can make a phone call, send touch 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. For more information, see "Browser security," p. 61.

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. 61.

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 settings* > *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.

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Web

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.

To save all downloaded files automatically in *Gallery*, select **Menu** > *Web* > *Settings* > *Downloading settings* > *Automatic saving* > *On*.

■ 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, and 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*.

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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*.

■ Positioning information

The network may send you a location request. You can ensure that the network delivers location information of your phone only if you approve it (network service). Contact your network operator or service provider to subscribe and to agree upon the delivery of location information.

To accept or reject the location request, select **Accept** or **Reject**. If you miss the request, the phone automatically accepts or rejects it according to what you have agreed with your network operator or service provider. The phone displays *1 missed position request*. To view the missed location request, select **Show**.

To view the information on the 10 most recent privacy notifications and requests or to delete them, select **Menu** > *Web* > *Positioning* > *Position log* > *Open folder* or *Delete all*.

■ 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.

W e b

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 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. 11.

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, which may include the amount and date, is shown.

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. 11), and select OK. The digital signature icon disappears, and the service may display a confirmation of your purchase.
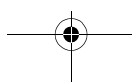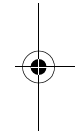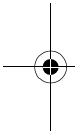
16. SIM services

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 you the confirmation messages sent between your phone and the network when you are using the SIM services, select **Menu** > *Settings* > *Phone* > *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 an IR or 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.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. 42.

■ 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. Enhancements

If you want to enhance device functionality, a range of enhancements is available for you. You can select any of these items to help accommodate your specific communication needs. For availability of these and other enhancements, contact your dealer. Wrist straps for your Nokia 6101 or Nokia 6102 mobile device are available for purchase at your Nokia dealer or **www.nokiausa.com**.

Check the model number of any charger before use with this device. This device is intended for use when supplied with power from an AC-3, AC-4, and DC-4 charger, and from AC-1, ACP-7, ACP-12, and LCH-12 charger when used with the charger adapter CA-44, which is available at your Nokia dealer or **www.nokiausa.com**.

> **Warning:** Use only batteries, chargers and enhancements approved by Nokia for use with this particular model. The use of any other types may invalidate any approval or warranty, and may be dangerous. For availability of approved enhancements, please check with your dealer.

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

A few practical rules about accessories and enhancements:

- Keep all accessories and enhancements out of the reach of small children.

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

- Check regularly that enhancements installed in a vehicle are mounted and are operating properly.

- Installation of any complex car enhancements must be made by qualified personnel only.

■ Power

- Battery, 760 mAh, Li-Ion (BL-4C)
- Compact charger (AC-3)
- Travel charger (AC-4)
- Charger adapter (CA-44)

■ Data

- Connectivity Adapter Cable (CA-42)

■ Audio

- Stereo headset (HS-23)
- Display headset (HS-6)

■ Car

- Mobile holder (CR-34)
- Car kit (CK-10)

■ Covers and carrying

- Carrying case

19. Reference information

■ 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 59°F and 77°F (15°C and 25°C). 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.

How do you check the security features on batteries with hologram labels?
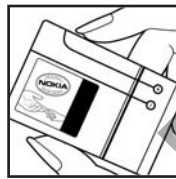
1. When looking at the hologram label, you should see the Nokia connecting hands symbol from one angle and the Nokia Original Enhancements logo when looking from another angle.
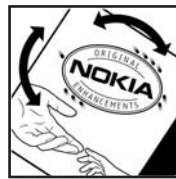
2. When you angle the hologram to the left, right, down, and up sides of the logo, you should see 1, 2, 3, and 4 dots on each side, respectively.
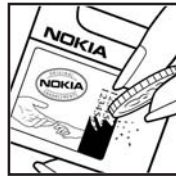
3. Scratch the side of the label to reveal a 20-digit code, for example, 12345678919876543210. Turn the battery so that the numbers are facing upwards. The 20-digit code reads starting from the number at the top row followed by the bottom row.

4. Confirm that the 20-digit code is valid by following the instructions at **www.nokia.com/batterycheck**.

What if your battery is not verified as authentic?

If you cannot confirm that your Nokia battery with the hologram 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.nokia.com/battery**.

■ Additional safety information

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 7/8 inch (2.2 cm) 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 at least 7/8 inch (2.2 cm) away from your body.

In order to transmit data files or messages, this device requires a 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.

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

Medical devices

Operation of any radio transmitting equipment, including wireless devices, 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 6 inches (15.3 cm) be maintained between a wireless device 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. To minimize the potential for interference, persons with pacemakers should

- Always keep the device more than 6 inches (15.3 cm) from their pacemaker when the device is switched on
- Not carry the device in a breast pocket
- Hold the device to the ear opposite the pacemaker

If you have any reason to suspect that interference is taking place, switch off your device immediately.

Hearing aids

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

Airplanes

Using your device while flying may be 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, may disrupt the wireless teledevice network, and may be illegal.

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

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 devices, 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.

To make an emergency call, do the following:

1. If the device is not on, switch it on. Check for adequate signal strength. For SIM card devices, add 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. Consult this guide or your service provider. 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 scene of an accident. Do not end the call until given permission to do so.

■ Certification information (SAR)

THE NOKIA 6101 and 6102 DEVICES MEET GUIDELINES FOR EXPOSURE TO RADIO WAVES.

Your mobile device is a radio transmitter and receiver. It is designed and manufactured not to exceed the limits for exposure to radio frequency (RF) energy recommended by international guidelines (ICNIRP). These limits establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards and guidelines include a substantial safety margin designed to assure the safety of the public, regardless of age and health and to account for any variations in measurements.

The exposure guidelines for mobile devices employ a unit of measurement known as the Specific Absorption Rate or SAR. The SAR limit stated in the international guidelines is 2.0 watts/kilogram (W/kg) averaged over ten grams of tissue. Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands. The actual SAR level of an operating device can be well below the maximum value because the device is designed to use only the power required to reach the network. That amount changes depending on a number of factors such as how close you are to a network base station. The highest SAR value when tested according to international testing procedures for use at the ear for device type RM-76 is 0.82 W/kg and for device type RM-77 is 0.68 W/kg. Your device's type is listed on the label located under the battery.

SAR values may vary depending on national reporting and testing requirements and the network band. Use of device accessories and enhancements may result in different SAR values. Additional SAR information may be provided under product information at **www.nokia.com**.

USA and Canada: The SAR limit of USA (FCC) and Canada (IC) is 1.6 W/kg averaged over one gram of tissue. Device types RM-76 and RM-77 have also been tested against this SAR limit. The highest SAR values reported under this standard during product certification for use at the ear and when properly worn on the body are:

Device type	IC	FCC ID	SAR at the ear	SAR on the body
RM-76	661U-RM76	PPIRM-76	0.79 W/kg	0.59 W/kg
RM-77	661U-RM77	PPIRM-77	0.95 W/kg	0.59 W/kg
		PPIRM-77X	0.97 W/kg	0.91 W/kg

Information about these devices can be found on the FCC's website at http://www.fcc.gov/oet/fccid by searching the equipment authorization system using FCC ID: PPIRM-76, PPIRM-77, or PPIRM-77X.

Your device's IC and FCC ID are listed on the label located under the battery.

Reference information

■ Technical information

Feature	Specification
Weight	3.4 oz (97 g) with BL-4C Li-Ion mAh battery
Size	Volume: 4.7 in^3 (77cm^3) Length: 3.3 in (85 mm) Width: 1.8 in (45 mm) Thickness: 0.9 in (24 mm)
Frequency range	GSM 850 824–894 MHz (TX) 869–894 MHz (RX) GSM 900 880–915 MHz (TX) 925–960 MHz (RX) GSM 1800 1710–1785 MHz (TX) 1805–1865 MHz (RX) GSM 1900 1850–1910 MHz (TX) 1930–1990 MHz (RX)
Transmitter output power	Up to 2 W
Battery voltage	3.7 V dc
Number of channels	299
Memory size	Up to 16 MB flash memory Up to 4.6 MB shared memory
Operating temperature	59°F to + 77°F (15°C to + 25°C)

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■ Patent information

Manufactured or sold under one or more following US Patents:

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4868846 5568545 5806003 5966374 6118775 6240079 6366659 6466033 6582147 6675012 6834181
4945633 5570369 5809018 5896369 6119002 6243455 6369635 6466585 6584089 6678361
4969192 5574985 5809115 5898775 6119003 6243582 6370362 6469673 6584161 6678368
5012208 5577024 5812835 5898925 6119180 6249584 6370367 6470313 6584164 6678527
5016851 5581244 5819165 5901353 6121846 6253089 6370389 6222924 6584314 6678531
5045973 5590160 5821735 5905235 6122498 6259312 6370390 6473016 6587680 6680913
5059131 5590415 5826191 5907480 6125267 6259323 6370391 6473594 6587695 6680955
5127844 5594948 5827082 5907796 6128322 6259676 6370591 6473611 6587817 6681099
5128965 5596571 5832381 5907796 6128509 6262735 6374083 6473622 6591116 6681253
5168982 5597102 5832524 5987406 6130650 6265928 6374118 6477151 6593914 6683860
5173927 5598125 5835858 5987639 6134439 6266321 6377803 6480485 6594472 6687499
5200997 5603103 5835862 6026161 6137789 6266330 6377817 6480715 6594486 6690307
5218270 5606548 5835889 6028567 6141410 6266516 6381453 6483051 6597319 6691085
5229701 5613235 5838672 6029128 6144243 6269126 6381468 6487288 6597914 6693892
5230091 5621367 5839059 6031827 6144660 6269331 6385054 6487397 6597917 6694135
5241583 5625274 5841774 6035189 6144676 6271794 6385446 6487424 6600663 6694141
5267234 5633913 5842141 6035194 6144709 6274825 6385451 6493564 6603773 6697347
5270666 5634197 5845219 6035201 6145095 6275708 6392503 6497364 6606508 6697604
5271056 5638034 5850607 6038238 6148103 6278688 6392605 6498785 6606593 6697624
5289059 5640395 5857151 6038695 6148209 6282436 6393008 6501957 6611507 6707428
5292259 5652748 5859843 6041120 6151485 6285884 6393121 6501967 6611693 6708028
5293139 5664004 5862178 6041234 6151507 6285888 6393260 6504595 6614860 6711211
5307371 5664053 5862489 6041235 6154455 6285889 6393518 6507590 6614905 6711689
5311179 5669069 5870683 6043760 6154457 6286122 6396878 6510148 6615044 6714091
5313661 5678192 5884103 6044264 6163546 6292669 6397074 6512756 6615169 6714784
5317283 5678224 5884176 6047181 6163708 6295286 6397081 6516193 6621910 6717925
5319525 5692032 5884190 6047196 6164547 6298035 6400958 6519241 6622011 6717928
5331638 5692105 5887266 6047196 6167038 6300887 6407532 6522670 6625452 6718179
5350956 5697074 5889770 6049796 6167248 6301338 6408063 6522877 6625458 6721304
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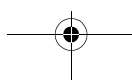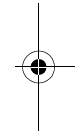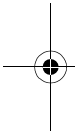
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Care and maintenance

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 and enjoy your device for many years.

- Keep the device dry. Precipitation, humidity, and all types of liquids or moisture can contain minerals that will corrode electronic circuits.

- 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 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.

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Notes

Nokia 6101h and 6102h User Guide addendum

■ Hearing Aid Compatibility

Your mobile device model complies with FCC rules governing hearing aid compatibility with hearing aids operating in microphone mode. These rules require phone models to fulfil the telephone near field category M3 or higher category. The M-value, shown on the device box, refers to lower radio frequency (RF) emissions. A higher M-value generally indicates that a device model has a lower RF emissions level, which may improve the likelihood that the device will operate with certain hearing aids. Some hearing aids are more immune than others are to interference. Please consult your hearing health professional to determine the M rating of your hearing aid and whether your hearing aid will work with this device.

GSM networks in the United States utilize 850 and 1900 MHz bands. Your phone operates on both bands, and is enhanced with a "hearing aid mode" to activate if needed. In this mode, the phone reduces the maximum power that it can use when operating in the GSM 850 MHz band, thus potentially reducing interference with a hearing aid. When your phone is operating in the GSM 1900 MHz band, using the hearing aid mode does not impact the phone's operations. There is also no benefit to using the hearing aid mode if you do not wear hearing aids.

The type of hearing aid and how far the phone is from a network base station both contribute to whether the hearing aid mode is beneficial. Hearing aid users should experiment with use of the hearing aid mode to determine whether it affects the operation of their hearing aids while using the mobile phone.

Activate the hearing aid mode

Select **Menu** > *Settings* > *Enhancement settings* > *Hearing aid* > *On*.
An "ear" icon is displayed on the start screen.

If you make an emergency call to 911 while the phone is in the hearing aid mode, the phone will use as much power as it needs (up to the maximum available) to connect the call.

More information on accessibility can be found at www.nokiaaccessibility.com

■ Certification information (SAR)

The following text supplements the section entitled "Certification Information" in the User Guide:

THIS MOBILE DEVICE MEETS GUIDELINES FOR EXPOSURE TO RADIO WAVES.

Your mobile device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves recommended by international guidelines. These guidelines were

developed by the independent scientific organization ICNIRP and include safety margins designed to assure the protection of all persons, regardless of age and health.

The exposure guidelines for mobile devices employ a unit of measurement known as the Specific Absorption Rate or SAR. The SAR limit stated in the ICNIRP guidelines is 2.0 watts/kilogram (W/kg) averaged over ten grams of tissue. Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands. The actual SAR level of an operating device can be below the maximum value because the device is designed to use only the power required to reach the network. That amount changes depending on a number of factors such as how close you are to a network base station. The highest SAR value under the ICNIRP guidelines for use of the device at the ear is 0.68 W/kg for the Nokia 6101h phone and 0.68 W/kg for the Nokia 6102h phone.

Use of device accessories and enhancements may result in different SAR values. SAR values may vary depending on national reporting and testing requirements and the network band. Additional SAR information may be provided under product information at www.nokia.com.

Your mobile device is also designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA) and Industry Canada. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value for reported for the Nokia 6101h phone under this standard during product certification for use at the ear is 0.75 W/kg and when properly worn on the body is 0.53 W/kg. The highest SAR value for reported for the Nokia 6102h phone under this standard during product certification for use at the ear is 0.48 W/kg and when properly worn on the body is 1.07 W/kg. Information can be found at http://www.fcc.gov/oet/fccid by searching the equipment authorization system using FCCID PPIRM-77H for the Nokia 6101h phone and FCCID PPIRM-77XH for the Nokia 6102h phone.