# Nokia 6638 User Guide

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US Patent No 5818437 and other pending patents. T9 text input software

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## 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.

## Patent information

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# FOR YOUR SAFETY

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

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

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

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

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

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

**SWITCH OFF WHEN REFUELING** Don't use the phone at a refueling 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.

**CONNECTING TO OTHER PHONES** When connecting to any other phone, read its user guide for detailed safety instructions. Do not connect incompatible products.

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**EMERGENCY CALLS** Ensure the phone function of 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 **Talk** 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 CDMA 800 and 1900 networks. Contact your service provider for more information about networks.

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

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

## NETWORK SERVICES

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

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

## SHARED MEMORY

The following features in this device may share memory: contacts, text messages, photos, images, and tones in gallery, calendar notes, games, and applications.. Use of one or more of these features may reduce the memory available for the remaining features sharing memory. For example, saving many images may use all of the available memory. Your phone 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 such as photos, images, tones in gallery, text messages, and applications may have a certain amount of memory specially allotted to them in addition to the memory shared with other features.

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# Welcome

Congratulations on your purchase of the Nokia 6638 mobile phone. Your phone provides many functions which are practical for daily use, such as a hands-free loudspeaker, alarm clock, calculator, calendar, and more. Your phone can also connect to a PC, laptop, or other device using a data cable, Bluetooth, or infrared. To personalize your phone, you can set your favorite ring tones.

## n About your device

The Nokia 6638 wireless phone described in this guide is approved for use on the CDMA 800 and 1900 networks.

Contact your service provider for more information about networks.

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

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

## Register your phone

Make sure to register your phone at **www.warranty.nokiausa.com** or call 1-888-NOKIA-2U (1-888-665-4228) so that we can serve your needs better if you should need to call a customer center to have your phone repaired.

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# Getting help

## Find your phone label

If you need help, Nokia Customer Care is available for assistance. Before calling, we recommend that you write down the following information and have it available:

- Electronic serial number (ESN)
- Your zip code

The ESN is found on the type label, which is located beneath the battery on the back of the phone.

## Contact Nokia

Please have your product with you when contacting either of theses numbers:

**Nokia Customer Care Center, USA**
Nokia Inc.
7725 Woodland Center Boulevard, Suite #150
Tampa, Florida 33614
Tel: 1-888-NOKIA-2U (1-888-665-4228)
Fax: 1-813-249-9619
TTY/TDD users: 1-800-24 NOKIA (1-800-246-6542)

**Customer Care Center, Canada**
Nokia Products Ltd.
60 Westney Road South
Ajax, Ontario L1S 4N7

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Tel: 1-888-22-NOKIA (1-888-226-6542)
Fax: 1-905-619-4360

## Updates

From time to time, Nokia updates this guide to reflect changes. The latest version may be available at **www.nokia.com**. An interactive tutorial for this product may be available at the Web site **www.nokiahowto.com**.

## Accessibility solutions

Nokia is committed to making mobile phones easy to use for all individuals, including those with disabilities. For more information visit the Web site at **www.nokiaaccessibility.com**.

## Personalizing your phone

**Note:** Your service provider/network operator may have requested a different order for menu items or the inclusion of different icons in the phone menu. Contact your service provider/network operator or Nokia Customer Care for assistance with any features that differ from those described in this guide.

- To change the standby mode background image, color scheme, or what is shown in the screen saver, see Themes - the look of your phone, p. '13'.
- To customize the ringing tones, see Profiles - setting tones, p. '12'.

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*Fig. 1 Standby mode with a new background image, a new selection key shortcut, and Bluetooth activated.*

- To change shortcuts assigned for the selection keys in the standby mode, select **Tools** >**Settings** > **Phone**> **Standby mode**> **Left selection key** or **Right selection key**.
- To change the shortcuts assigned for the different presses of the Scroll key in the standby mode, see Standby mode, p. '94'.
- To change the clock shown in the standby mode, select **Tools**> **Settings**> **Date and time settings** > **Clock type** > **Analog** or **Digital**.
- To change the Clock alarm tone, select **Clock** > **Options** > **Settings**. Scroll to **Clock Alarm tone** and select a tone.
- To change the Calendar alarm tone, select **Calendar**> **Options** > **Settings**.
- To change the welcome note to an image or animation, select **Tools** > **Settings** > **Phone** > **General** > **Welcome note or logo**.
- To assign an individual ringing tone to a contact, select **Contacts**. See p. '24'.
- To assign a speed dial to a contact, press a numbered key in the standby mode ( **1** is reserved for the voice mailbox) and press **Select** a contact. To change the 1-touch dialing status (pressing and holding a speed dial key in the standby mode) to **Off**, select **Tools** > **Settings** > **Call settings** > **1-touch dialing**.
- To rearrange the main Menu, in the main Menu, select **Options** > **Move**, **New folder**, or **Move to folder**. You can move less used applications into folders, and place applications that you use more often into the main Menu.

## Profiles – setting tones

To set and customize the ringing tones, message alert tones, and other tones for different events, environments, or caller groups, press and select **Profiles**. You can see the currently selected profile at the top of the display in the standby mode. If the **Normal** profile is in use, only the current date is shown.

- To change the profile, press in the standby mode. Scroll to the profile you want to activate and press **OK**.

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- To modify a profile, select **Profiles**. Scroll to the profile and select **Options** > **Customize**. Scroll to the setting you want to change, and press ◉ to open the choices. Tones stored on the memory card are indicated with . You can scroll through the tone list and listen to each one before you make your selection. Press any key to stop the sound.
- To create a new profile, select **Options** > **Create new**.

**Tip!** When you are choosing a tone, **Tone downloads** opens a list of bookmarks. You can select a bookmark and start connection to a Web page to download tones.

### Offline profile

**Offline** profile lets you use the phone without connecting to the wireless network. When you activate the Offline profile, the connection to the wireless network is turned off, as indicated by ✕ in the signal strength indicator. All wireless phone signals to and from the device are prevented. If you try to send messages, they are placed in Outbox to be sent later.

**Warning:** In Offline profile you cannot make calls, except to certain emergency numbers, or use features that require network coverage. To make calls, change the profile to activate the phone function. If the device has been locked, you must enter the unlock code before you can change the profile and make calls.

**Warning:** Your device must be switched on to use the offline profile. Do not switch the device on when wireless device use is prohibited or when it may cause interference or danger.

To leave the Offline profile, select another profile and select **Options** > **Activate**. Press **Yes**. The phone re-enables wireless transmissions (provided there is sufficient signal strength). If Bluetooth was turned off as a result of entering Offline profile you must re-enable Bluetooth manually. See Bluetooth settings, p. '96'.

**Tip!** For information on how to change the alert tone for Calendar or Clock, see Personalizing your phone, p. '11'.

## Themes – the look of your phone

To change the look of your phone display, such as the wallpaper, color palette, and icons, press  and select **Menu** > **Themes**. The active theme is indicated by ✔. In Themes you

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Options in the Themes main view: **Preview**/ **Theme downloads**, **Apply**, **Edit**, **Copy to mem. card**, **Copy to phone mem.**, **Help**, and **Exit**.

can group together elements from other themes or select images from Gallery to personalizecolor themes further. The themes on the memory card are indicated by .

- To activate a theme, scroll to it and select **Options** > **Apply**.
- To preview a theme, scroll to it, and select **Options** > **Preview**.
- To edit themes, scroll to a theme and select **Options** > **Edit** to change the following options:
  - **Wallpaper** - the image to be shown as a background image in the standby mode.
  - **Color palette** - the colors used on the screen.
  - **Screen saver** - the screen saver type: date and time, or a text you have written yourself. See also Screen saver timeout settings p. '94'.
  - **Icons** - select icons to be used from some other theme. All pre-installed themes have the same icon set.
  - **Image in 'Go to'** - the background image for the Go to application.
- To restore the selected theme back to its original settings, select **Options** > **Restore orig. theme** when you are editing a theme.

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# Your phone

## Essential indicators

- You have received one or several messages to the Inbox folder in Messaging.

- There are messages waiting to be sent in Outbox. See p. '53'.

and - You have missed calls. See Recent calls, p.'21'.

- Shown if **Ringing type** is set to **Silent** and **Message alert tone**, **IM alert tone**, and **E-mail alert tone** are set to **Off**. See Profiles - setting tones, p. '8'.

- The phone keypad is locked. See the Quick Start Guide, 'Keypad lock (Keyguard)'.

- You have an active alarm. See Clock, p. '16'.

- All calls to the phone are diverted to another number.

- A headset is connected to the phone.

- A loopset is connected to the phone.

- The connection to a Bluetooth headset has been lost.

- A data call is active.

- A packet data connection is available.

- A packet data connection is active.

- Shown when the packet data connection is on hold. These icons are shown instead of the signal strength indicator (shown in the top left corner in the standby mode).

- Bluetooth is active.

- Data is being transmitted using Bluetooth. See Bluetooth connection, p. '85'.

- USB connection is active.

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# Clock

Options in Clock: **Set alarm**, **Reset alarm**, **Remove alarm**, **Settings**, **Help**, and **Exit**.

Press and select **Clock**.

- To set a new alarm, select **Options** > **Set alarm**. Enter the alarm time, and press **OK**. When the alarm is active, the indicator is shown.
- To turn off the alarm, press **Stop**. When the alarm tone sounds, press any key or **Snooze** to stop the alarm for five minutes, after which it will resume. You can do this a maximum of five times.

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

- To cancel an alarm, select **Clock** > **Options** > **Remove alarm**.

## Clock settings

- To change the clock settings, select **Options** > **Settings** in Clock.
- To change the clock shown in the standby mode, scroll down and select **Clock type** > **Analog** or **Digital**.
- To allow the mobile phone network to update the time, date, and time zone information to your phone (network service), scroll down and select **Auto time update**. For the **Auto time update** setting to take effect, the phone restarts.
- To change the alarm tone, scroll down and select **Clock alarm tone**.
- To change the daylight saving time status, scroll down and select **Daylight-saving**. Select **On** to add one hour to the **My home city** time. When the Daylight-saving is active, the indicator is shown.

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## World clock

Open **Clock** and press ◉ to open the World clock view. In the World clock view you can view the time in different cities.

- To add cities to the list, select **Options** > **Add city**. Enter the first letters of the city name. The search field appears automatically, and the matching cities are displayed. Select a city. You can add a maximum of 15 cities to the list.
- To set your current city, scroll to a city, and select **Options** > **My home city**. The city is displayed in the Clock main view and the time in your phone is changed according to the city selected. Check that the time is correct and matches your time zone.

# Volume control and built-in loudspeaker

- To increase or decrease the volume level, when you have an active call or are listening to a sound, press ◉ or ◉, respectively.

The built-in loudspeaker allows you to speak and listen to the phone from a short distance without having to hold the phone to your ear, for example, having it on a table nearby. Sound applications use the loudspeaker by default.

- To locate the loudspeaker, see the Quick Start Guide, 'Keys and parts'.
- To use the loudspeaker during a call, start a call, and press ⏻.

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

- To turn off the loudspeaker, when you have an active call or are listening to a sound, press ⏻.

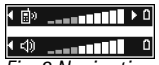

*Fig. 2 Navigation bar shows the speaker in use:* **Handset** *or* **Loudsp.**.

# File manager – managing memory

Many features of the phone use memory to store data. These features include contacts, messages, images, ringing tones, calendar and to-do notes, documents, and downloaded

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applications. The free memory available depends on how much data is already saved in the phone memory. You can use a memory card as extra storage space. Memory cards are re-writable, so you can delete and save data on a memory card.

- To browse files and folders in the phone memory or on a memory card (if inserted), press and select **Tools** > **File mgr.**. The phone memory view ( ) opens. Press to open the memory card view ( ).
- To move or copy files to a folder, press and at the same time to mark a file, and select **Options** > **Move to folder** or **Copy to**.
- To find a file, select **Options** > **Find**, select the memory from which to search, and enter a search text that matches the file name.

**Icons in File manager:**
- folder,
- folder that has a subfolder.

## Viewing memory consumption

- To view what types of data you have in the phone and how much memory the different data types consume, select **Options** > **Memory details**. Scroll down to **Free memory** to view the amount of free memory in the phone.
- To view the amount of free memory in the memory card, if you have a card inserted in the phone, press to open the memory card view, and select **Options** > **Memory details**. See Fig. 3, p. 19'.

**Tip!** You can use Nokia Phone Browser available in Nokia PC Suite to view the different memories in your phone. See the CD-ROM supplied in the sales package.

## Memory low - freeing memory

The phone notifies you if the phone memory or memory card memory is getting low.

- To free phone memory, transfer data to a memory card in the File manager. Mark files to be moved, and select **Move to folder**, select memory card, and a folder.
- To remove data to free memory, use the File manager application, or go to the respective application. For example, you can remove:
  - messages from the Inbox, Drafts, and Sent folders in Messaging
  - retrieved e-mail messages from the phone memory
  - saved Web pages

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- saved images, videos, or sound files
- contact information
- calendar notes
- downloaded applications, see also Application manager, p. '104'.
- any other data that you no longer need.

## Memory card tool

Press and select **Extras** > **Memory**. You can use a memory card as extra storage space. See Quick Start Guide, 'Inserting the memory card'. You can also back up information from phone memory and restore the information to the phone later.

You cannot use the memory card if the door of the memory card slot is open.

Keep all memory cards out of the reach of small children.

Do not open the memory card slot door in the middle of an operation. Opening the slot door may damage the memory card as well as the device, and data stored on the card may be corrupted.

*Fig. 3 Memory consumption of the memory card.*

Use only compatible Multimedia cards (MMC) with this device. Other memory cards, such as Secure Digital (SD) cards, do not fit the MMC card slot and are not compatible with this device. Using an incompatible memory card may damage the memory card as well as the device, and data stored on the incompatible card may be corrupted.

- To backup information from phone memory to a memory card, select **Options** > **Backup phone mem.**.
- To restore information from the memory card to the phone memory, select **Options** > **Restore from card**.
- To set a password to protect your memory card against unauthorized use, select **Options** > **Set password** (up to 8 characters). The password is stored in your phone, and

Options in Memory card: **Backup phone mem.**, **Restore from card**, **Format mem. card**, **Memory card name**, **Set password**, **Change password**, **Remove password**, **Unlock memory card**, **Memory details**, **Help**, and **Exit**.

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you do not have to enter it again while you are using the memory card on the same phone.

- To unlock another password-protected memory card in your phone, select **Options** > **Unlock memory card**, and enter the password of the card.

## Formatting a memory card

When a memory card is formatted, all data on the card is permanently lost.

Some memory cards are supplied preformatted and others require formatting. Consult your retailer to find out if you must format the memory card before you can use it.

To format a memory card, select **Options** > **Format memory card**. Select **Yes** to confirm. When formatting is complete, enter a name for the memory card, and press **OK**.

**Tip!** To rename a memory card, go to Memory card and select Options > Memory card name.

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# Making calls

## Making a voice call

1 In the standby mode, enter the phone number, including the area code. Press C remove a number.
For international calls, press **+*** twice for the **+** character (replaces the international access code), and enter the country code, area code (omit the leading zero if necessary), and phone number.
2 Press the **Talk** key to call the number.
3 Press the **End** key to end the call (or to cancel the call attempt).

Pressing the **End** key will always end a call, even if another application is active.

**Making a call from the Contacts application** - Press and select Contacts. Scroll to the desired name; or enter the first letters of the name to the search field. Matching contacts are listed. Press the **Talk** key to call. Select the call type voice call.

**Calling your voice mailbox (network service)** - To call your voice mailbox, press and hold the **1** key in the standby mode. See also Call forwarding, p. '102'.

**Calling a recently dialed number** - In the standby mode, press to access a list of the 20 last numbers you called or attempted to call. Scroll to the number you want, and press **Talk** key to call the number.

## Making a video call

When you make a video call, you can see a real-time, two-way video between you and the recipient of the call. See page 4. The video image captured by the camera in your phone will be shown to the video call recipient.

**Tip!** To increase or decrease the volume during a call, press or .

**Tip!** To change the phone number of your voice mailbox, press and select **Tools** > **Voice mail** and select **Options** > **Change number**. Enter the number (obtained from your service provider) and press **OK**.

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*Fig. 4 Making a video call.*

**Icons:**
- the video call recipient has denied video sending from his device.
- you have denied video sending from your phone.

**Tip!** To 1-touch dial a number by pressing and holding the key, press and select **Tools** > **Settings** > **Call settings** and set **1-touch dialing** > **On**.

**Tip!** With Nokia Video Call Stand PT-8, you can view your own image and the other caller's image from your phone display during a video call.

1 To start a video call, enter the phone number in the standby mode, or go to Contacts, and select a contact. Then select **Options** > **Call** > **Video call**.
2 Starting a video call may take a while. A note **Waiting for image** is shown.
If the call is not successful, for example, video calls are not supported by the network, or the receiving device is not compatible, you will be asked if you want to try a normal call or send a message instead.
3 The video call is active when you can see two video images and hear the sound through the loudspeaker. See Figure 4. The call recipient may deny video sending (), in which case you may see a still image or a grey background graphic. You will hear the sound.

Select **Enable/Disable**: **Sending video**, **Sending audio** or **Sending audio & video** if you want to change between showing video or hearing only sound.
Select **Zoom in** or **Zoom out**; or press and to zoom your own image. Zoom indicator is shown on the top of the display.
4 To end the video call, press .

## 1-touch dialing

- To assign a phone number to one of the 1-touch dialing keys (**2 – 9**), press and select **Tools** > **1-touch dialing**. **1** is reserved for the voice mailbox.
- To call in standby mode, press the 1-touch dialing key and the **Talk** key.

## Making a conference call (network service)

1 Make a call to the first participant.

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2 To make a call to another participant, select **Options** > **New call**. The first call is automatically put on hold.
3 When the new call is answered, join the first participant in the conference call. Select **Options** > **Conference**.
   - To add a new person to the call, repeat step 2, and select **Options** > **Conference** > **Add to conference**. The phone supports conference calls between a maximum of six participants, including yourself.
   - To have a private conversation with one of the participants, select **Options** > **Conference** > **Private**. Select a participant and press **Private**. The conference call is put on hold on your phone. The other participants can still continue the conference call. Once you have finished the private conversation, select **Options** > **Add to conference** to return to the conference call.
   - To drop a participant, select **Options** > **Conference** > **Drop participant**, scroll to the participant, and press **Drop**.
4 To end the active conference call, press .

## Answering or rejecting a call

- To answer the call, press the **Talk** key.
- To mute the ringing tone when a call comes in, press **Silence**.
- If you do not want to answer a call, press to reject it. The caller will hear a line busy tone. If you have activated the **Call forwarding** > **If busy** function to forward calls, rejecting an incoming call will also forward the call. See Call forwarding, p. '102'. When you reject an incoming call, you can also send a text message to the caller informing why you could not answer the call. Select **Options** > **Reject & send SMS**. You can edit the text before sending. See also **Reject call with SMS**, p. '94'.

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

### Answering or rejecting a video call

When a video call arrives, you can see the icon .

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1 Press the **Talk** key to answer the video call. **Allow video image to be sent to caller?** is shown.
If you select **Yes**, the image being captured by the camera in your phone is shown to the caller. If you select **No**, video sending is not activated, and a still image is shown. You will hear the sound. See Tools, **Image in vid. call**, p. '95'.
If you use Nokia Video Call Stand PT-8, video call starts when you place the phone in the stand.
2 To end the video call, press the **End** key.

## Call waiting (network service)

You can answer a call while you have another call in progress if you have activated the Call waiting function in **Tools** > **Settings** > **Call settings** > **Call waiting** (see also p. '24').

- To answer the waiting call, press the **Talk** key. The first call is put on hold.
- To switch between the two calls, press **Swap**. Select **Options** > **Transfer** to connect an incoming call or a call on hold with an active call and to disconnect yourself from the calls. To end the active call, press the **End** key. To end both calls, select **Options** > **End all calls**.

**Tip!** To change the phone tones for different environments and events, for example, when you want your phone to be silent, see Profiles - setting tones, p. '8'.

## Options during a call

Many of the options that you can use during a call are network services. Press **Options** during a call for some of the following options: **Mute** or **Unmute**, **Answer**, **Reject**, **Swap**, **Hold** or **Unhold**, **Activate handset**, **Activate loudsp.**, or **Activate handsfree** (if a compatible Bluetooth headset is attached), **End active call** or **End all calls**, **New call**, **Conference**, and **Transfer**. Select

**Replace** - to end an active call and replace it by answering the waiting call.
- **Send MMS** - to send an image or a video in a multimedia message to the other participant of the call. You can edit the message and change the recipient before sending. Press the **Talk** key to send the file to a compatible device (network service).

**Tip!** You can add DTMF tones to the **Phone number** or **Touch tone** fields in a contact card.



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- **Send Touch tones** - to send Touch tone strings, for example, a password. Enter the DTMF string or search for it in Contacts. To enter a wait character (**w**) or a pause character (**p**), press * + repeatedly. Press **OK** to send the tone.

# Log

## Recent calls

To monitor the phone numbers of missed, received, and dialed calls, press and select **Log** > **Recent calls**. The phone registers missed and received calls only if the network supports these functions, the phone is switched on, and within the network's service area.

**Erasing recent call lists** - To clear all recent call lists, select **Options** > **Clear recent calls** in the Recent calls main view. To clear one of the call registers, open the register you want to erase, and select **Options** > **Clear list**. To clear an individual event, open a register, scroll to the event, and press C.

## Call duration

To monitor the approximate duration of your incoming and outgoing calls, press and select **Log** > **Call duration**.

**Note:** The actual time invoiced for calls by your service provider may vary, depending on network features, rounding off for billing, and so forth.

**Clearing call duration timers** - Select **Options** > **Clear timers**. For this you need the lock code, see Security, Phone and UIM, p. 99'. To clear an individual event, scroll to it, and press C.

**Tip!** When you see a note in standby mode about missed calls, press **Show** to access the list of missed calls. To call back, scroll to a name or number, and press .

**Tip!** If you want to see the call duration timer while you have an active call, select **Options** > **Settings** > **Show call duration** > **Yes**.

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## Packet data

To check the amount of data sent and received during packet data connections, press and select **Log** > **Packet data**. For example, you may be charged for your packet data connections by the amount of data sent and received.

## Monitoring all communication events

**Icons:**
- incoming,
- outgoing, and
- missed communication events.

**Tip!** To view a list of sent messages, press and select **Messaging** > **Sent**.

To monitor all voice and video calls, text messages, or data connections registered by the phone, press and select **Log**, and press to open the general log. See Fig. 5. For each communication event, you can see the sender or recipient name, phone number, name of the service provider, or access point. You can filter the general log to view just one type of event and create new contact cards based on the log information.

Subevents, such as a text message sent in more than one part and packet data connections, are logged as one communication event. Connections to your mailbox, multimedia messaging centre, or Web pages are shown as packet data connections.

**Note:** When sending messages, your phone may display the word "**Sent**". This is an indication that the message has been sent by your phone to the message centre number programmed into your phone. 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.

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- To filter the log, select **Options** > **Filter**. Scroll to a filter and press **Select**.
- To erase the contents of the log, Recent calls register, and Messaging delivery reports permanently, select **Options** > **Clear log**. Press **Yes** to confirm.
- To set the **Log duration**, go to **Options** > **Settings** > **Log duration**. The log events remain in the phone memory for a set number of days after which they are automatically erased to free memory. If you select **No log**, all the log contents, Recent calls register, and Messaging delivery reports are permanently deleted.

**Packet data counter and connection timer**: To view how much data, measured in kilobytes, has been transferred and how long a certain packet data connection has lasted, scroll to an incoming or outgoing event with the access point icon and select **Options** > **View details**.

*Fig. 5 General log of communication events.*

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# Contacts

Options in the Contacts directory: Open, Call, Create message, New contact, Open conversation, Edit, Delete, Duplicate, Add to group, Belongs to groups, **Mark/ Unmark**, **Go to web address**, Send, Contacts info, Settings, Help, and Exit.

Options when editing a contact card: **Add thumbnail**, **Remove thumbnail**, **Add detail**, **Delete detail**, **Edit label**, **Help**, and **Exit**.

**Tip!** You can add and edit contact cards using Nokia Contacts Editor available in Nokia PC Suite. See the CD-ROM supplied in the sales package.

Press and select **Contacts**. In Contacts you can add a personal ringing tone, voice tag, or a thumbnail image to a contact card. You can also create contact groups, which allow you to send text messages or e-mail to many recipients at the same time. You can add received contact information (business cards) to Contacts. See Receiving logos, tones, business cards, calendar entries, and settings, p. '50'. Contact information can only be sent to or received from compatible devices.

## Saving names and numbers

1 Select **Options** > **New contact**.
2 Fill in the fields that you want, and press **Done**.

- To edit contact cards in Contacts, scroll to the contact card you want to edit, and select **Options** > **Edit**.
- To delete a contact card in Contacts, select a card, and press C. To delete several contact cards at the same time, press ◉ and ✎ to mark the contacts, and press C to delete.
- To attach a small thumbnail image to a contact card, open the contact card and select **Options** > **Edit**. Then select **Options** > **Add thumbnail**. The thumbnail image is shown when the contact calls.

### Using default numbers and addresses

You can assign default numbers or addresses to a contact card. In this way if a contact has several numbers or addresses, you can easily call or send a message to the contact into a certain number or address.

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1 In Contacts, select a contact, and press ⊙.
2 Select **Options** > **Defaults**.
3 Select a default to which you want to add a number or an address, and press **Assign**.
4 Select a number or an address you want to set as a default, and press **Select**.

The default number or address is underlined in the contact card.

## Adding ringing tones for contacts

When a contact or group member calls you, the phone plays the chosen ringing tone (if the caller's telephone number is sent with the call and your phone recognises it).

1 Press ⊙ to open a contact card or go to the Groups list and select a contact group.
2 Select **Options** > **Ringing tone**. A list of ringing tones opens.
3 Select the ringing tone you wish to use for the individual contact or the selected group.

To remove the ringing tone, select **Default tone** from the list of ringing tones.

## Voice dialing

You can make a phone call by saying a voice tag that has been added to a contact card. Any spoken words can be a voice tag.

Before using voice tags, note that:

- 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.

**Tip!** Speed dialing is a quick way to call frequently used numbers. You can assign speed dialing keys to eight phone numbers. See "1-touch dialing", p. 18.

**Tip!** You can synchronise your contacts to a compatible PC with Nokia PC Suite. See the CD-ROM supplied in the sales package.

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## Adding a voice tag to a phone number

Example: You can use a person's name as a voice tag (for example, 'John's mobile'.

**Tip!** To view a list of voice tags you have defined, select **Options** > **Contacts info** > **Voice tags** in Contacts.

You can have only one voice tag per contact card. You can add a voice tag to up to 50 phone numbers.

1 In Contacts, open the contact card to which you want to add a voice tag.
2 Scroll to the number to which you want to add the voice tag and select **Options** > **Add voice tag**.
3 Press **Start** to record a voice tag. After the starting tone, say clearly the words you want to record as a voice tag. Wait until the phone plays the recorded tag and saves it. A symbol can be seen next to the number in the contact card indicating that a voice tag has been added to it.

## Making a call by saying a voice tag

You must say the voice tag exactly as you said it when you recorded it. When you are making a call by saying a voice tag, the loudspeaker is in use. Hold the phone at a short distance away and say the voice tag clearly.

- Press and hold . A short tone is played and the note **Speak now** is displayed. The phone plays the original voice tag, displays the name and number, and dials the number of the recognised voice tag.

**Tip!** To listen to, change, or delete a voice tag, open a contact card and scroll to the number that has a voice tag (indicated by ). Select **Options** > **Voice tags**. Then select either **Playback**, **Change**, or **Delete**.

# Creating contact groups

1 In Contacts, press to open the Groups list.
2 Select **Options** > **New group**.
3 Write a name for the group or use the default name **Group %N** and press **OK**.
4 Open the group and select **Options** > **Add members**.
5 Scroll to a contact, and press to mark it. To add multiple members at a time, repeat the action on all the contacts you want to add.
6 Press **OK** to add the contacts to the group.

To rename a group, select **Options** > **Rename**. Then enter the new name, and press **OK**.

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## Removing members from a group

1 In the Groups list, open the group you want to modify.
2 Scroll to the contact, and select **Options** > **Remove from group**.
3 Press **Yes** to remove the contact from the group.

**Tip!** To check to which groups a contact belongs, scroll to the contact, and select **Options** > **Belongs to groups**.

Options in the Groups list view: **Open**, **New group**, **Delete**, **Rename**, **Ringing tone**, **Contacts info**, **Settings**, **Help**, and **Exit**.

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# Camera and Gallery

## Camera

With the **Camera** application you can take pictures and record videos while on the move. The images and video are automatically saved in the Gallery application. The camera produces JPEG images, and video clips are recorded in the 3GPP file format with the .3gp file extension. You can also send images or a video in a multimedia message, as an e-mail attachment, or using a Bluetooth connection.

The Nokia 6638 device supports an image capture resolution of up to 1200 x 960 pixels. The image resolution in these materials may appear different.

**Shortcut:** Press in the standby mode to open Camera.

**Tip!** You can insert an image into a contact card. See Saving names and numbers, p. '24'.

### Taking pictures

1 Press in the standby mode. The **Camera** application opens, and you can see the view to be captured. See Figure. Press to move between **Image** and **Video** views.

1. Indicator shows where the images will be saved: to phone memory ( ) or memory card ( ).
2. Shows how many images, depending on the selected picture quality, fit in the memory of your phone or the memory card.
3. The zoom indicator shows the zoom level. Press to zoom in, press to zoom out.
4. Night mode active indicator .
5. The sequence mode indicator . See p. '34'.
6. The self-timer indicator shows how much time is left before a picture is taken. See p. '35'.

Options before taking a picture: **Capture**, **New**, **Activate night mode** / **Deact. night mode**, **Sequence mode** / **Normal mode**, **Self-timer**, **Go to Gallery**, **Adjust**, **Settings**, **Help**, and **Exit**.

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**Shortcuts:**
Press 1 to activate or deactivate Night mode.
Press 4 ghi to activate or deactivate Sequence mode.
Press def 3 to adjust brightness.
Press mno 6 to adjust contrast.

2 To take a picture, press ◉. Do not move the phone before the **Camera** application starts to save the image. The image is saved automatically in the **Images** folder of Gallery. See Gallery, p. '37'.

**When taking a picture:**

- It is recommended to use both hands to keep the camera still.
- To take images or record video in a dark environment, use the Night mode. If you are using the Night mode, the exposure time is longer and the camera needs to be kept still longer.
- To adjust brightness or contrast before taking a picture, select **Options** > **Adjust** > **Brightness** or **Contrast**.
- The resolution of a zoomed picture is lower than that of a non-zoomed picture, but the image remains the same size. You may notice the difference in image quality if viewed on a PC, for example.
- **Camera** goes into battery saving mode if there are no key presses within a minute. To continue taking pictures, press ◉.

**After the image has been taken:**

- If you do not want to keep the image, press C.
- To return to the viewfinder to take a new picture, press ◉.
- To send the image **via Bluetooth**, **via e-mail**, or **Via multimedia**, press ☎. For more information see the Messaging chapter, p. '42' and Bluetooth connection, p. '85'.
- To set the picture as wallpaper in the standby mode, select **Options** > **Set as wallpaper**.

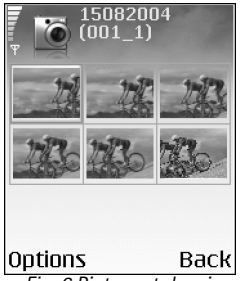

*Fig. 6 Pictures taken in a sequence.*

## Taking pictures in a sequence

Select **Options** > **Sequence mode** to set the camera to take 6 pictures in a sequence. After the pictures have been taken, they are automatically saved in the Gallery, and they are shown in a grid. See Fig. 6.

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## You in the picture – self-timer

Use the self-timer to delay the taking of a picture so that you can include yourself in the picture. Select the self-timer delay: **Options** > **Self-timer** > **10 seconds**, **20 seconds**, or **30 seconds**. Press **Activate**. You can see the self-timer indicator ( ) blink and hear a beep when the timer is running. The camera will take the picture after the selected delay has elapsed.

## Adjusting camera settings

1 Select **Options** > **Settings** > **Image**.
2 Scroll to the setting you want to change:
   - **Show captured image** - Select **Yes** if you want to see the captured image after it has been taken or **No** if you want to continue taking pictures immediately.
   - **Image quality** - **High**, **Normal**, and **Basic**. The better the image quality, the more memory the image consumes. The resolution of a zoomed picture is lower than that of a non-zoomed picture, but the image remains the same size. You may notice the difference in image quality if viewed on a PC, for example. If you are going to print the image, select **High** or **Normal** image quality.
   - **Image resolution** - Select the resolution you want to use for the images you are going to take. When pictures are taken using the Sequence mode, resolution setting may be temporarily changed to a lower value.
   - **Default image name** - Set a default name for the images you are going to take. You can replace date with your own text (for example, 'Holiday_2004').
   - **Memory in use** - Select where to store your images.

**Glossary:** Resolution is a measure of sharpness and clarity of an image. Resolution refers to the number of pixels in an image. The more pixels, the more detailed the picture is, and the more memory it consumes.

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## Recording videos

1 Press **Camera** in the standby mode.
2 Press ◉ ◉ to move between **Image** and **Video** views. Open the **Video** view. An indicator shows where the video will be saved: to phone memory (▯) or memory card (▯).
3 Press ◉ to start recording. The record icon ● is shown.

**1.** The elapsed time / time left with the current video length setting.
**2.** The zoom indicator shows the zoom level. Press ◉ to zoom in on your subject before or during recording. Press ◉ to zoom out.
**3.** Microphone muted indicator.
**4.** Night mode active indicator.
To pause recording at any time, press ◉. The pause icon ❚❚ starts to blink on the display. Press ◉ again to resume recording.

Video recording is automatically stopped if recording is set to pause and there are no key presses within a minute.
4 Press **Stop** to stop recording. The video clip is automatically saved to the **Video clips** folder of the Gallery. See Gallery, p. '37'.

**After a video clip has been recorded:**

- To immediately play the video clip you just recorded, select **Options** > **Play**.
- If you do not want to keep the video, press C.
  To return to the viewfinder to record a new video, press ◉.
  To send the video **via Bluetooth**, **via e-mail**, or **Via multimedia**, press ☎. For more information see the Messaging chapter, p. '42' and Bluetooth connection, p. '85'.

Options before recording a video: **Record**, **New**, **Activate night mode** / **Deact. night mode**, **Mute** / **Unmute**, **Go to Gallery**, **Adjust**, **Settings**, **Help**, and **Exit**.

**Shortcuts:**
Press 1 to activate or deactivate Night mode.
Press def 3 to adjust brightness.
Press mno 6 to adjust contrast.

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## Adjusting video recorder settings

Select **Options** > **Settings** > **Video** and the setting you want to change:

- **Length** - If you select **Maximum**, the length of the video recording is restricted to one hour per clip. Select **Short** to record video clips up to 300 kB, which is approximately 30 seconds in duration, so that they can be conveniently sent as a multimedia message to a compatible device. Some networks, however, may only support sending of multimedia messages with the maximum size of 100 kB.
- **Video resolution**, **Default video name** and **Memory in use**.

# Gallery

In the **Gallery** application you can store and organize your images, sound clips, playlists, video clips, streaming links, and .ram files.

Select **Images**, **Video clips**, **Tracks**, **Sound clips**, **Links**, or **All files**, and press to open it.

You can browse, open, and create folders; and mark, copy and move items to folders. Sound clips, video clips, .ram files, and streaming links are opened and played in the RealPlayer application. See RealPlayer™, p. '38'.

- Press to open a file or a folder. Images are opened in the Image viewer. See Viewing images, p. '38'.
- To copy or move files to the memory card or to phone memory, select a file and **Options** > **Organize** > **Copy to memory card**, **Move to memory card** or **Copy to phone mem.** / **Move to phone mem.**. Files stored on the memory card are indicated with .
- To download files into the Gallery in one of the main folders using the browser, select **Graphic downlds.**, **Video downlds.**, **Track downlds.**, or **Sound downlds.**. The browser opens, and you can choose a bookmark for the site to download from.

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**Tip!** You can transfer images from your phone to a compatible PC with Nokia Phone Browser available in Nokia PC Suite. See the CD-ROM supplied in the sales package.

Options when viewing an image: **Send**, **Set as wallpaper**, **Rotate**, **Zoom in** / **Zoom out**, **Full screen**, **Delete**, **Rename**, **View details**, **Add to 'Go to'**, **Help**, and **Exit**.

- To search for a file, select **Options** > **Find**. Start to enter a search string (for example, the name or date of the file you are searching). Files that match your search are shown.

## Viewing images

Pictures taken with the **Camera** application are stored in the Gallery. Images can also be sent to you in a multimedia message, as an e-mail attachment or through Bluetooth. To be able to view a received image in Gallery, you need to save it to the phone memory or on a memory card.

- Open the **Images** folder in the Gallery to start the image viewer, select an image, and press ◉ to view it.
- To zoom an image, select **Options** > **Zoom in** (or press 5 jkl) or **Zoom out** (or press 0 ␣ ). You can see the zooming ratio at the top of the display. The zooming ratio is not stored permanently.
- To see more of the image, select **Options** > **Full screen** (or press * + ). The panes around the image are removed. To move the focus when you are zooming an image or viewing an image in full screen mode, use the scroll key.
- To rotate the image, select **Options** > **Rotate** (or press 1 to rotate counter clockwise and def 3 to rotate clockwise). Press and hold 0 ␣ to return to the normal view.

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# Media

## Video editor

To create custom video clips, press  and select Media > Vid. editor. You can create custom video clips by combining and trimming video clips, and adding sound clips, transitions, and effects. Transitions are visual effects that you can add in the beginning and end of the video or between the video clips.

### Editing video, sound, and transitions

1 Mark and select one or more video clips.
2 Select **Options** > **Edit**. In the Edit video view, you can insert video clips to make a custom video clip, and edit the clips by trimming and adding effects. You can add sound clips and change their duration.
To modify the video, select one of the following options:
**Preview** - Previews the custom video clip.
**Insert** :
- **Video clip** - Inserts the selected video clip. A thumbnail of the video clip is shown in the Main view. A thumbnail consists of the first non-black view of the video clip. The name and length of the selected video clip is also shown.
- **Sound clip** - Inserts the selected sound clip. The name and length of the selected sound clip is shown in the Main view.
- **New sound clip** - Records a new sound clip to the selected location.

**Cut** - Trims the video clip or sound clip in the Cut video clip or in the Cut sound clip view.

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**Tip!** To take a snapshot of a video clip, select Options > Take screen shot in the Play view, Edit Preview view or in the Cut view.

Edit video clip:

- Move - Moves the video clip to the selected location.
- Add colour effect - Inserts a colour effect on the video clip.
- Use slow motion - Slows the speed of the video clip.
- Mute sound / Unmute sound- Mutes or unmutes the original video clip sound.
- Remove - Removes the video clip from the video.
- Edit sound clip:
  - Move - Moves the sound clip to the selected location.
  - Set duration - Edits the sound clip length.
  - Remove - Removes the sound clip from the video.
  - Duplicate - Makes a copy of the selected video clip or sound clip.
- Edit transition - There are three types of transitions: at the start of a video, at the end of a video, and transitions between video clips. A start transition can be selected when the first transition of the video is active.

3 Select Save to save your video. You can define the Memory in use in the Settings. The default is the phone memory.

**Tip!** In the Settings view you can define the Default video name, Default sc. shot name and the Memory in use.

Select Send: Via multimedia, Via Bluetooth or Via e-mail if you want to send the video. Contact your service provider for details of the maximum multimedia message size that you can send. If your video is too large to be sent in a multimedia message, a symbol will appear.

**Tip!** If you want to send a video clip that is over the maximum multimedia message size allowed by your service provider, you can send the clip using Bluetooth. Sending data using Bluetooth, p. 86. You can also transfer your videos using Bluetooth into your Bluetooth enabled personal computer, or by using a memory card reader (internal/external).

## Movie director

To create muvees, press and select Media > Movie. muvees are short, edited video clips that can contain video, music and text. Quick muvee is created automatically by the Movie

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director after you have selected the style for the muvee. Movie director uses the default music and text associated with the chosen style. Every style has, for example, its own font style, colour, music, and pace. To **Custom muvee** you can select your own video and music clips, images and style, and you can also add an opening and closing message. muvees can be sent using MMS.

Open **Movie**, and press or to move between the and views. You can also return to the main view from the view by pressing **Done**.

The view contains a list of video clips that you can **Play**, **Send**, **Rename**, and **Delete**.

- To create a quick muvee, select **Quick muvee**, and press . Select a style for the muvee from the style list, and press . The created muvee will be saved in the Movie director muvee list. The muvee will be played automatically after saving.
- To create a custom muvee, select **Custom muvee**. In **Video**, **Images**, **Style**, or **Music**, select the clips you want to include in your muvee. In **Message** you can add an opening text and a closing text to a muvee. Select **Create muvee.**:
  - **Multimedia message** - the length of the muvee is optimized for MMS sending.
  - **Same as music** - to set the muvee duration to be the same as the music clip chosen.
  - **User defined** - to define the length of the muvee.

  Select **Options** > **Save**.
- To preview the custom muvee before saving it, in **Preview muvee** view, select **Options** > **Play**.
- To create a new custom muvee by using the same style settings, select **Options** > **Recreate**.
- To add an opening text and a closing text to a custom muvee when you are creating it, in **Create muvee** view select **Message**. Enter the opening message and the closing message, and select **Done**.

**Tip!** To download new styles to your phone, select **Style downloads** from the **Movie director** main view.

Options in the muvee list options menu: **Play**, **Send**, **Rename**, **Delete**, **Help** and **Exit**.

## Settings

Select **Settings** to edit the following options:

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- **Memory in use** - Select where to store your muvees.
- **Resolution** - Select the resolution of your muvees.
- **Default muvee name** - Set a default name for the muvees.

## Image mgr.

To browse your images visually, press and select **Media** > **Image mgr.** See Fig. 7.

1 Press to select the memory: **Phone** or **Memory card**. Image manager also shows how many folders or images are in the selected folder.
2 Open a folder to browse your images visually. Press and to move between images and folders. Press to view an image.
   - Press and simultaneously to mark images for an image show. A check mark is shown next to a selected image. Select **Options** > **Image show**. Press and to view the next or previous image in the show.

*Fig. 7 Images viewed in Image manager.*

## Recorder

Press and select **Media** > **Recorder** to record telephone conversations and voice memos. If you are recording a telephone conversation, both parties will hear a tone every five seconds during recording.

## RealPlayer™

Press and select **Media** > **RealPlayer**. With RealPlayer™, you can play video clips, sound clips, and play or stream media files over the air. A streaming link can be activated when you are browsing Web pages, or it can be stored in the phone memory or memory card.

RealPlayer supports files with the extensions such as .aac, .awb, .mid, .mp3 and .wav.However, RealPlayer does not necessarily support all file formats or all the variations

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of file formats. For example, RealPlayer will attempt to open all .mp4 files, but some .mp4 files may include content that is not compliant with 3GPP standards and, therefore, is not supported by this phone.

## Playing video or sound clips

1 To play a media file stored in phone memory or memory card, select **Options** > **Open** and select:
   - **Most recent clips** - To play one of the last six files played in RealPlayer,
   - **Saved clip** - To play a file saved in the Gallery. See Gallery, p. '33'.
2 Scroll to a file, and press ◉ to play the file.

**Tip!** To view a video clip in full screen mode, press **2abc**. Press again to change back to normal screen mode.

Options in RealPlayer when a clip is selected: **Play**, **Play in full screen**/**Continue**, **Continue in full scr.**; **Stop**, **Mute**/**Unmute**, **Clip details**, **Send**, **Settings**, **Help**, and **Exit**.

## Streaming content over the air

To stream live content, you must first configure your default access point. See Data connections and access points, p. '95'. Many service providers require you to use an Internet access point (IAP) for your default access point. Other service providers allow you to use a WAP access point. Contact your service provider for more information.

**Note:** In RealPlayer, you can only open an rtsp:// URL address. However, RealPlayer will recognize an http link to a ram file.

**Icons:**
- Repeat,
- Random,
- Repeat and random,
- Loudspeaker muted

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**Shortcuts during play:**

To fast forward, press and hold ◉.
To rewind through the media file, press and hold ◉.
To mute the sound, press and hold ◉ until the 🔇 indicator is displayed.
To turn on the sound, press and hold ◉ until you see the 🔊 indicator.

**Glossary**: Proxy servers are intermediate servers between media servers and their users. Some service providers use them to provide additional security or speed up access to browser pages that contain sound or video clips.

To stream content over the air, select a streaming link saved in the Gallery, on a Web page, or received in a text message or multimedia message. Before live content begins streaming, your phone will connect to the site and start loading the content.

## Receiving RealPlayer settings

You may receive RealPlayer settings in a special text message from the network operator or service provider. See Receiving logos, tones, business cards, calendar entries, and settings, p. '50'. For more information, contact your network operator or service provider.

### Changing the RealPlayer settings

Select **Options** > **Settings**:

**Video** - To have RealPlayer automatically repeat video clips after they finish playing.

**Audio settings** - To select if you want to repeat playing of track lists and play sound clips on a track list in random order.

**Connection settings** - To select whether to use a proxy server, change the default access point, and set the time-outs and port range used when connecting. Contact your service provider for the correct settings.

- **Proxy settings**:
  - **Use proxy** - To use a proxy server, select **Yes**.
    - **Proxy serv. address** - Enter the IP address of the proxy server.
    - **Proxy port number** - Enter the port number of the proxy server.
- **Network settings**:
  - **Default access point** - Scroll to the access point you want to use to connect to the Internet, and press ◉.
    **Online time** - Set the time for RealPlayer to disconnect from the network when you have paused a media clip playing through a network link, select **User defined**, and press ◉. Enter the time, and press **OK**.

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- **Connection time-out** - Press or to set the maximum time to elapse between selecting a network link and connecting to the media server, and press **OK**.
- **Server time-out**- Press or to set the maximum time to wait for a response from the media server before disconnecting, and press **OK**.
- **Lowest UDP port** - Enter the lowest port number of the server's port range. The minimum value is 6970.
- **Highest UDP port** - Enter the highest port number of the server's port range. The maximum value is 32000.

  Select **Options** > **Advanced settings** to edit the bandwidth values for different networks.

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# Messaging

Options in the Messaging main view: **Open**, **Create message**, **Connect** (shown if you have defined mailbox settings) / **Disconnect** (shown if a connection to mailbox is active), **Cell broadcast**, **Service command**, **Settings**, **Help**, and **Exit**.

**Tip!** Organize your messages by adding new folders under **My folders**.

**Tip!** When you have opened any of the default folders, you can switch between the folders by pressing the **Left** or **Right** Scroll keys.

Press and select **Messaging**. In Messaging, you can create, send, receive, view, edit, and organize text messages, multimedia messages, e-mail messages, and special text messages containing data. You can also receive messages and data through Bluetooth, receive Web service messages, cell broadcast messages as well as send service commands.

**Note:** These functions can only be used if they are supported by your network operator or service provider. Only devices that offer compatible multimedia message, or e-mail features can receive and display these messages. Some networks might provide the recipient device with a web page link to view multimedia messages.

When you open Messaging, you can see the **New message** function and a list of folders:

**Inbox** - contains received messages except e-mail and cell broadcast messages. E-mail messages are stored in the **Mailbox**.

**My folders** - for organising your messages into folders.

**Mailbox** - In Mailbox you can connect to your remote mailbox to retrieve your new e-mail messages or view your previously retrieved e-mail messages offline. See Settings for e-mail, p. '6[illegible]'.

**Drafts** - stores draft messages that have not been sent.

**Sent** - stores the last 15 messages that have been sent excluding messages sent using Bluetooth. To change the number of messages to be saved, see Other settings, p. '63'.

**Outbox** - is a temporary storage place for messages waiting to be sent.

**Reports**- You can request the network to send you a delivery report of the text messages and multimedia messages you have sent (network service). Receiving a delivery

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report of a multimedia message that has been sent to an e-mail address might not be possible.

- To enter and send service requests (also known as USSD commands), such as activation commands for network services, to your service provider, select **Messaging** > **Options** > **Service command** in the main view of Messaging.
- Cell broadcast is a network service that allows you to receive messages on various topics, such as weather or traffic conditions from your service provider. For available topics and relevant topic numbers, contact your service provider. In the main view of Messaging, select **Options** > **Cell broadcast**. In the main view you can see the status of a topic, a topic number, name, and whether it has been flagged (⚑) for follow-up. A packet data connection may prevent cell broadcast reception.

Options in Cell broadcast: **Open**, **Subscribe** /**Unsubscribe**, **Hotmark** / **Remove hotmark**, **Topic**, **Settings**, **Help**, and **Exit**.

# Writing text

## Traditional text input

The indicator Abc is shown on the top right of the display when you are writing text using traditional text input.

- Press a number key ( 1 ∞ - wxyz 9 ) repeatedly until the desired character appears. There are more characters available for a number key than are printed on the key.
- To insert a number, press and hold the number key.
- To switch between letter and number mode, press and hold ⇧ # .
- If the next letter is located on the same key as the present one, wait until the cursor appears (or press ◉ to end the time-out period), and enter the letter.
- To erase a character, press C . Press and hold C to clear more than one character.
- The most common punctuation marks are available under 1 ∞ . Press 1 ∞ repeatedly to reach the desired punctuation mark.
  Press * + to open a list of special characters. Use ⊙ to move through the list, and press **Select** to select a character.

**Icons:** ABC and abc indicate the selected case. Abc means that the first letter of the word, is written in upper case, and all the other letters will automatically be written in lower case. 123 indicates number mode.

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- To insert a space, press 0 . To move the cursor to the next line, press 0 three times.
- To switch between the different character cases **Abc**, **abc**, and **ABC**, press # .

## Predictive text input – Dictionary

You can enter any letter with a single keypress. The predictive text input is based on a built-in dictionary to which you can also add new words. When the dictionary becomes full, the latest added word replaces the oldest.

1 To activate predictive text input, press , and select **Dictionary on**. This will activate predictive text input for all editors in the phone. The indicator is shown on the top right of the display when you are writing text using predictive text input.
2 To write the desired word, press the keys 2 abc – 9 wxyz . Press each key only once for one letter. For example, to write 'Nokia' when English dictionary is selected, press **6** for N, **6** for o, **5** for k, **4** for i, and **2** for a.
See the Fig. 8. The word suggestion changes after each key press.
3 When you have finished writing the word and it is correct, confirm it by pressing or add a space by pressing 0 .
   - If the word is not correct, press * + repeatedly to view the matching words the dictionary has found one by one. Or, press and select **Dictionary** > **Matches**.
   - If the **?** character is shown after the word, the word you intended to write is not in the dictionary. To add a word to the dictionary, press **Spell**, enter the word (up to 32 letters) using traditional text input, and press **OK**. The word is added to the dictionary. When the dictionary becomes full, a new word replaces the oldest added word.

Start writing the next word.

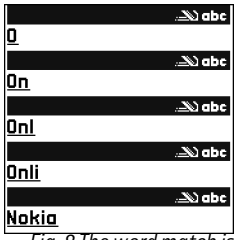

*Fig. 8 The word match is evolving, wait until you have keyed in the whole word before you check the results.*

**Tip!** To set predictive text input on or off, press # twice quickly.

### Tips on using predictive text input

- To erase a character, press C. Press and hold C to clear more than one character.

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- To change between the different character cases **Abc**, **abc**, and **ABC**, press ⇧ **#** . If you press ⇧ **#** quickly twice, the predictive text input is turned off.
- To insert a number in letter mode, press and hold the desired number key. To switch between letter and number mode, press and hold ⇧ **#** .
- The most common punctuation marks are available under **1** . Press **1** and then ***** + repeatedly to search for the desired punctuation mark.
- Press and hold ***** + to open a list of special characters.
- Press ***** + repeatedly to view the matching words the dictionary has found one by one.
- Press , select **Dictionary**, and press to select one of the following options: **Matches** to view a list of words that correspond to your key presses. **Insert word** to add a word (up to 32 letters) to the dictionary by using traditional text input. When the dictionary becomes full, a new word replaces the oldest added word. **Edit word** to edit the word using traditional text input. This is available if the word is active (underlined).

**Tip!** When you press , the following options appear (depending on the editing mode): **Dictionary** (predictive text input), **Alpha mode** (traditional text input), **Number mode**, **Cut** (if text has been selected), **Copy** (if text has been selected), **Paste** (when text has been cut or copied first), **Insert number**, **Insert symbol**, and **Writing language:** (changes the input language for all editors in the phone).

## Writing compound words

Write the first half of a compound word; to confirm it, press . Write the last part of the compound word. To complete the compound word, press **0** to add a space.

## Turning predictive text input off

Press , and select **Dictionary** > **Off** to turn predictive text input off for all editors in the phone.

**Tip!** The predictive text input will try to guess which commonly used punctuation mark (**.,?!'**) is needed. The order and availability of the punctuation marks depend on the language of the dictionary.

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## Copying text to clipboard

1 To select letters and words, press and hold . At the same time, press or . As the selection moves, text is highlighted.
2 To copy the text to clipboard, while still holding , press **Copy**.
3 To insert the text into a document, press and hold , and press **Paste**. Or, press once, and select **Paste**.

- To select lines of text, press and hold . At the same time, press or .
- To remove the selected text from the document, press C.

# Writing and sending messages

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

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

Before you can create a multimedia message or write an e-mail, you must have the correct connection settings in place. See Receiving MMS and e-mail settings, p. '52' and Settings for e-mail, p. '60'.

1 Select **New message**. A list of message options opens.
   - **Text message** - to send a text message.
   - **Multimedia message** - to send a multimedia message (MMS).
   - **E-mail** - to send an e-mail. If you have not set up your e-mail account, you will be prompted to do so.
2 Press to select recipients from Contacts, or enter the recipient's phone number or e-mail address. Press * + to add a semicolon (;) that separates the recipients. You can also copy and paste the number or address from the Clipboard.
3 Press to move to the message field.

**Tip!** You can start to create a message from any application that has the option **Send**. Select a file (an image, text) to be added to the message, and select **Options** > **Send**.

**Tip!** Scroll to a contact, and press to mark it. You can mark several recipients at a time.

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4 Write the message.

**Note:** Your device supports the sending of text messages beyond the normal 160-character limit. If your message exceeds 160 characters, it will be sent as a series of two or more messages and sending may cost you more. In the navigation bar, you can see the message length indicator counting backwards from 160. For example, 10 (2) means that you can still add 10 characters for the text to be sent as two messages. Some characters may take more space than others.

- To add a media object to a multimedia message, select **Options** > **Insert object** > **Image**, **Sound clip** or **Video clip**. When sound is added, the icon is shown in the navigation bar.

  **Tip!** When you send a multimedia message to an e-mail address or a device that supports the receiving of large images, use the largest image size. If you are not sure of the receiving device, or the network does not support sending large file, it is recommended that you use a smaller image size or a sound clip that is no longer than 15 seconds. To change the setting, select **Options** > **Settings** > **Multimedia message** > **Image size** in the Messaging main view.

  If you select **Insert new** > **Sound clip**, Recorder opens, and you can record a new sound. Press **OK**, the new sound is automatically saved, and a copy is inserted in the message. Select **Options** > **Preview** to see what the multimedia message looks like.
- To add an attachment to an e-mail, select **Options** > **Attachments** > **Insert** > **Image**, **Sound clip**, **Video clip** or **Note**. E-mail attachments are indicated by in the navigation bar.

5 To send the message, select **Options** > **Send**, or press .

**Note:** E-mail messages are automatically placed in Outbox before sending. If sending does not succeed, the e-mail is left in the Outbox with the status **Failed**.

**Tip!** In Messaging you can also create presentations and send them in a multimedia message. In Multimedia message editor view, select **Options** > **Create presentation** (shown

Options in the message editor: **Send**, **Add recipient**, **Insert**, **Attachments** (e-mail), **Preview** (MMS), **Objects** (MMS), **Remove** (MMS), **Delete**, **Check contacts**, **Message details**, **Sending options**, **Help**, and **Exit**.

*Fig. 9 Creating a multimedia message.*

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only if **MMS creation mode** is set to **Guided** or **Free**). See Settings for multimedia messages, p. '59'.

## Receiving MMS and e-mail settings

You may receive the settings in a text message from your network operator or service provider. See Receiving logos, tones, business cards, calendar entries, and settings, p. '54'.

For availability of and subscription to data services, please contact your network operator or service provider. Follow the instructions given by your service provider.

**Entering the MMS settings manually:**

1 Select **Tools** > **Settings** > **Connection** > **Access points** and define the settings for a multimedia messaging access point. See Connection settings, p. '95'.
2 Select **Messaging** > **Options** > **Settings** > **Multimedia message**. Open **Access point in use** and select the access point you created to be used as the preferred connection. See also Settings for multimedia messages, p. '59'.

**Tip!** To send files other than sounds and notes as attachments, open the appropriate application, and select **Send** > **Via e-mail**, if available.

Before you can send, receive, retrieve, reply to, and forward e-mail, you must:

- Configure an Internet access point (IAP) correctly. See Connection settings, p. '95'.
- Define your e-mail settings correctly. See Settings for e-mail, p. '60'. You need to have a separate e-mail account. Follow the instructions given by your remote mailbox and Internet service provider (ISP).

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# Inbox – receiving messages

When you receive a message, and the text **1 new message** are shown in the standby mode. Press **Show** to open the message. To open a message in Inbox, scroll to it and press .

**Inbox icons:**
- unread messages in Inbox,
- unread text message,
- unread multimedia message, and
- data received through Bluetooth.

## Receiving multimedia messages

**Important:** 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.

When you open a multimedia message ( ), you may see an image and a message, simultaneously listen to a sound through the loudspeaker ( is shown if sound is included). Click the arrow in the icon to listen to the sound.

To see what kinds of media objects have been included in the multimedia message, open the message, and select **Options** > **Objects**. You can choose to save a multimedia object file in your phone or send it, for example, through Bluetooth to another compatible device.

You may also receive multimedia presentations. You can view these presentations by selecting **Options** > **Play presentation**.

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

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## Receiving logos, tones, business cards, calendar entries, and settings

**Tip!** If you receive a vCard file that has a picture attached, the picture is saved to Contacts.

Your phone can receive many kinds of text messages that contain data (), also called Over-The-Air (OTA) messages.

- **Configuration message** - You may receive a text message service number, voice mailbox number, Internet access point settings, access point login script settings, or e-mail settings from your network operator, service provider, or company information management department in a configuration message. To save the settings, select **Options** > **Save all**.
- **Business card** - To save the information to Contacts, select **Options** > **Save business card**. Certificates or sound files attached to the business card are not saved.
- **Ringing tone** - To save the ringing tone, select **Options** > **Save**.
- **Operator logo** - For the logo to be shown in the standby mode instead of the network operator's own identification, select **Options** > **Save**.
- **Calendar entry** - To save the invitation, select **Options** > **Save to Calendar**.
- **Web message** - To save the bookmark to the bookmarks list in Web, select **Options** > **Save to bookmarks**. If the message contains both access point settings and bookmarks, to save the data, select **Options** > **Save all**.
- **E-mail notification** - Tells you how many new e-mails you have in your remote mailbox. An extended notification may list more detailed information.

**Tip!** To change the default access point settings for multimedia messaging, select **Messaging** > **Options** > **Settings** > **Multimedia message** > **Access point in use**.

## Receiving Web service messages

Web service messages () are notifications (for example, news headlines) and may contain a text message or a link. For availability and subscription, contact your service provider.

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# My folders

In My folders, you can organize your messages into folders, create new folders, and rename and delete folders.

**Tip!** You can use texts in the Templates folder to avoid rewriting messages that you send often.

# Mailbox

If you select **Mailbox** and have not set up your e-mail account, you are prompted to do so. See Settings for e-mail, p. '60'. When you create a new mailbox, the name you give to the mailbox replaces **Mailbox** in the Messaging main view. You can have several mailboxes (up to six).

## Opening the mailbox

When you open the mailbox, you can choose whether you want to view the previously retrieved e-mail messages and e-mail headings offline or connect to the e-mail server.

When you scroll to your mailbox and press ⊙, the phone asks you if you want to **Connect to mailbox?**

- Select **Yes** to connect to your mailbox and retrieve new e-mail headings or messages. When you view messages online, you are continuously connected to a remote mailbox using a packet data connection. See also Essential indicators, p. '11' and Connection settings, p. '95'.
- Select **No** to view previously retrieved e-mail messages offline. When you view e-mail messages offline, your phone is not connected to the remote mailbox.

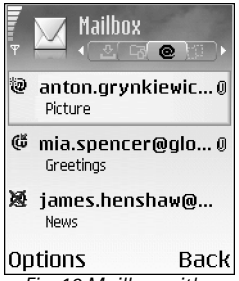

*Fig. 10 Mailbox with different status icons.*

## Retrieving e-mail messages

If you are offline, select **Options** > **Connect** to start a connection to a remote mailbox.

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**Important:** E-mail messages 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.

1 When you have an open connection to a remote mailbox, select **Options** > **Retrieve e-mail**:
   - **New** - to retrieve all new e-mail messages to your phone.
   - **Selected** - to retrieve only the e-mail messages that have been marked.
   - **All** - to retrieve all messages from the mailbox.

   To stop retrieving messages, press **Cancel**.
2 After you have retrieved the e-mail messages, you can continue viewing them online. Or, select **Options** > **Disconnect** to close the connection and view the e-mail messages offline.
3 To open an e-mail message, press . If the e-mail message has not been retrieved (arrow in the icon is pointing outwards) and you are offline, you will be asked if you want to retrieve this message from the mailbox.

**E-mail status icons:**
- new e-mail (offline or online mode), the content has not been retrieved to your phone.
- new e-mail, the content has been retrieved to your phone.
- e-mail message has been read.
- e-mail heading that has been read and the message content has been deleted from the phone.

To view e-mail attachments, open a message that has the attachment indicator , and select **Options** > **Attachments**. If the attachment has a dimmed indicator, it has not been retrieved to the phone, select **Options** > **Retrieve**. In the Attachments view, you can retrieve, open, or save attachments. You can also send attachments using Bluetooth.

Tip! If your mailbox uses the IMAP4 protocol, you can decide whether to retrieve e-mail headers only, messages partially (kB). With the POP3 protocol, the options are e-mail headers only, partially (kB), or messages and attachments.

## Deleting e-mail messages

To delete the contents of an e-mail message from the phone while still retaining it in the remote mailbox, select **Options** > **Delete msg. from:** > **Phone only**.

**Note:** The phone mirrors the e-mail headings in the remote mailbox. Although you delete the message content, the e-mail heading stays in your phone. If you

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want to remove the heading as well, you must first delete the e-mail message from your remote mailbox, and then make a connection from your phone to the remote mailbox again to update the status.

- To delete an e-mail from both the phone as well as from the remote mailbox, select **Options** > **Delete msg. from:** > **Phone and server**.

  **Note:** If you are offline, the e-mail is deleted first from your phone. During the next connection to the remote mailbox, it is automatically deleted from the remote mailbox. If you are using the POP3 protocol, messages marked to be deleted are removed only after you have closed the connection to the remote mailbox.

- To cancel deleting an e-mail from both the phone and server, scroll to an e-mail that has been marked to be deleted during the next connection ( ), and select **Options** > **Undelete**.

**Tip!** To copy an e-mail from the remote mailbox to a folder under My folders, select **Options** > **Copy to folder**. Select a folder from the list, and press **OK**.

## Disconnecting from the mailbox

When you are online, select **Options** > **Disconnect** to end the packet data connection to the remote mailbox. See also Essential indicators, p. '11'.

**Tip!** You can also leave your mailbox connection open and the new e-mails (**Headers only** as default) will be retrieved from the remote mailbox to your phone automatically (only if IMAP IDLE function is supported by your server). To leave the Messaging application open in the background, press twice. Leaving the connection open may increase your call costs due to the data traffic.

### Viewing e-mail messages when offline

When you open **Mailbox** the next time and you want to view and read the e-mail messages offline, answer **No** to the **Connect to mailbox** query. You can read the previously retrieved e-mail headings or the retrieved e-mail messages or both. You can also write new, reply to, or forward e-mail to be sent the next time you connect to the mailbox.

## Outbox – messages waiting to be sent

Outbox is a temporary storage place for messages waiting to be sent.

Status of the messages in Outbox: **Sending**, **Waiting** /**Queued**

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- **Resend at %U** (time) - The phone will try to send the message again after a time-out period. Press **Send** to restart the sending immediately.
- **Deferred** - You can set documents to be 'on hold' while they are in Outbox. Scroll to a message that is being sent and select **Options** > **Defer sending**.
- **Failed** - The maximum number of sending attempts has been reached. Sending has failed. If you were trying to send a text message, open the message and check that the Sending options are correct.

**Example:** Messages are placed in Outbox, for example, when your phone is outside network coverage. You can also schedule e-mail messages to be sent the next time you connect to your remote mailbox.

# Messaging settings

## Settings for text messages

Options when editing text message center settings: **Edit**, **New msg. center**, **Delete**, **Help**, and **Exit**.

Select **Messaging** > **Options** > **Settings** > **Text message**.

- **Message centers** - Lists all the text message service centers that have been defined.
- **Msg. center in use** - Select which message center is used for delivering text messages.
- **Receive report** (network service) - To request the network to send delivery reports on your messages. When set to **No**, only the **Sent** status is shown in Log. See Log, p. '21'.
- **Message validity** - If the recipient of a message cannot be reached within the validity period, the message is removed from the text message service center. The network must support this feature. **Maximum time** is the maximum amount of time allowed by the network.
- **Message settings** - Change this option only if you are sure that your service center is able to convert text messages into these other formats. Contact your network operator.
- **Preferred connection** - You can send text messages through the normal network or through packet data, if supported by the network. See Connection settings, p. '95'.

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- **Reply via same ctr.** (network service) - Choose **Yes**, if you want the reply message to be sent using the same text message service center number.

### Adding a new text message center

1 Select **Message centers** > **Options** > **New msg. center**.
2 Press ◉, write a name for the service center, and press **OK**.
3 Press ◉ and ◉, and write the number of the text message service center. You receive the number from your service provider.
4 Press **OK**.
5 To use the new settings, go back to the settings view. Scroll to **Msg. center in use** and select the new service center.

## Settings for multimedia messages

Select **Messaging** > **Options** > **Settings** > **Multimedia message**.

- **Image size** - Define the size of the image in a multimedia message. The options are **Original** (shown only when the **MMS creation mode** is set to **Guided** or **Free**), **Small** and **Large**. Selecting **Original** will increase the size of the multimedia message.
- **MMS creation mode** - If you select **Guided**, the phone will inform you if you try to send a message that may not be supported by the recipient. By selecting **Restricted** the phone will prevent you from sending messages that are not supported.
- **Access point in use** (**Must be defined**) - Select which access point is used as the preferred connection for the multimedia message center.
- **Recept. in home net.**- Select whether you want the reception of the MMS messages in the home network to be **Automatic**, **Defer retrieval** or **Off**. If you have selected **Defer retrieval** the multimedia messaging center will save the message. To retrieve the message later, set to **Automatic**.
- **Reception if roaming** - Select how you want the MMS messages to be retrieved outside the home network.

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When you are outside your home network, sending and receiving multimedia messages may cost you more. If **Reception if roaming** > **Automatic** has been selected, your phone can automatically make an active packet data connection to retrieve the message. Select **Off** from **Reception if roaming** if you do not want to receive multimedia messages when you are outside your home network.

- **Allow anon. messages** - Select **No** if you want to reject messages coming from an anonymous sender.
- **Receive adverts** - Define whether you want to receive multimedia message advertisements or not.
- **Receive report** (network service) - Set to **Yes** if you want the status of the sent message to be shown in the Log.

  **Note:** Receiving a delivery report of a multimedia message that has been sent to an e-mail address might not be possible.

- **Deny report sending** - Choose **Yes** if you do not want your phone to send delivery reports of received multimedia messages.
- **Message validity** - If the recipient of a message cannot be reached within the validity period, the message is removed from the multimedia messaging center. The network must support this feature. **Maximum time** is the maximum amount of time allowed by the network.

## Settings for e-mail

Select **Messaging** > **Options** > **Settings** > **E-mail**, or in the Mailbox main view, select **Options** > **E-mail settings**, and select:

**Mailbox in use** - Select which mailbox you want to use for sending e-mail.

**Mailboxes** - Opens a list of mailboxes that have been defined. If no mailboxes have been defined, you will be prompted to do so. Select a mailbox to change the settings:

**Mailbox settings**

- **Mailbox name** - Enter a descriptive name for the mailbox.



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- **Access point in use** (**Must be defined**) - Choose an Internet access point (IAP) for the mailbox. See Connection settings, p. '95'.
- **My e-mail address** (**Must be defined**) - Enter the e-mail address given to you by your service provider. Replies to your messages are sent to this address.
- **Outgoing mail server** (**Must be defined**) - Enter the IP address or host name of the mail server that sends your e-mail.
- **Send message** - Define how e-mail is sent from your phone:
  **Immediately** - The device starts to establish a connection to the mailbox after you have selected **Send message**.
  **When conn. avail.** - E-mail is sent when the connection to the remote mailbox is available.
- **User name** - Enter your user name, given to you by your service provider.
- **Password:** - Enter your password. If you leave this field blank, you will be prompted for the password when you try to connect to your remote mailbox.
- **Incoming mail server** (**Must be defined**) - Enter the IP address or host name of the mail server that receives your e-mail.
- **Mailbox type:** - Defines the e-mail protocol that your remote mailbox service provider recommends. The options are **POP3** and **IMAP4**. This setting can be selected only once and cannot be changed if you have saved or exited from the mailbox settings. If you are using the POP3 protocol, e-mail messages are not updated automatically in online mode. To see the latest e-mail messages, you must disconnect and make a new connection to your mailbox.
- **Security** - Used with the POP3, IMAP4, and SMTP protocols to secure the connection to the remote mailbox.
- **APOP secure login** (not shown if IMAP4 is selected for **Mailbox type**) - Used with the POP3 protocol to encrypt the sending of passwords to the remote e-mail server while connecting to the mailbox.

User settings

- **E-mails to retrieve** (not shown if the e-mail protocol is set to POP3) - Define how many new e-mails will be retrieved to mailbox.

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- **Retrieve** - Define which parts of the e-mails will be retrieved: **Headers only**, **Partially (kB)**, or **Msgs. & attachs.** (not shown if the e-mail protocol is set to IMAP4).
- **Retrieve attachments** (not shown if the e-mail protocol is set to POP3) - Choose whether you want to retrieve e-mail with or without attachments.
- **Subscribed folders** (not shown if the e-mail protocol is set to POP3) - You can subscribe other folders in remote mailbox as well and retrieve content from those folders.
- **Send copy to self** - Select **Yes** to save a copy of the e-mail to your remote mailbox and to the address defined in **My e-mail address**.
- **Include signature** - Select **Yes** if you want to attach your signature to your e-mail messages.
- **My name** - Enter your own name here. Your name will replace your e-mail address in the recipient's phone in case the recipient's phone is supporting this function.

**Automatic retrieval**

- **Header retrieval** - When this function is on, you can define when and how often the messages will be retrieved from the mailbox.

Activating Header retrieval may increase your call costs due to the data traffic.

## Settings for Web service messages

Select **Messaging** > **Options** > **Settings** > **Service message**. Choose whether or not you want to receive service messages. **Download messages** - Choose **Automatically** if you want to set the phone to automatically activate the browser and start a network connection to retrieve content when the phone receives a service message.

## Settings for cell broadcast (network service)

Check the available topics and related topic numbers with your service provider, and select **Messaging** > **Options** > **Settings** > **Cell broadcast** to change the settings.

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- **Language** - **All** allows you to receive cell broadcast messages in all supported languages. **Selected** allows you to choose in which languages you wish to receive cell broadcast messages. If you cannot find the desired language, select **Other**.
- **Topic detection** - If you have set **Topic detection** > **On**, the phone will automatically search for new topic numbers, and save the new numbers without a name to the topic list. Choose **Off** if you do not want to save new topic numbers automatically.

## Other settings

Select **Messaging** and select **Options** > **Settings** > **Other**.

- **Save sent messages** - Choose if you want to save a copy of every text message, multimedia message, or e-mail that you have sent to the Sent items folder.
- **No. of saved msgs.** - Define how many sent messages will be saved to the Sent items folder at a time. The default limit is 20 messages. When the limit is reached, the oldest message is deleted.
- **Memory in use** (not shown if the memory card is not inserted) - Choose to which memory you want to save your messages: **Phone memory** or **Memory card**.
- **E-mail notification** - Choose whether you want to see the new e-mail indications, like tone or a note, when new mail is received to the mailbox.

**Tip!** If **Memory card** is selected, activate the Offline profile before opening the memory card slot door or removing the memory card. When the memory card is not available, messages will be saved in the phone memory.

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# Calendar and To-do

## Calendar – creating calendar entries

1 Press and select Calendar.
2 Select Options > New entry:
- Meeting to remind you of an appointment that has a specific date and time.
- Memo to write a general entry for a day.
- Anniversary to remind you of birthdays or special dates. Anniversary entries are repeated every year.

3 Fill in the fields. Use to move between fields.
Alarm - Select On and press to fill in the Alarm time and Alarm date fields. Alarm is shown with in the Day view. **Stopping a calendar alarm –** Press Silence to turn off the calendar alarm tone. The reminder text will stay on the screen. Press Stop to end the calendar alarm. Press Snooze to set the alarm to snooze.
Repeat - Press to change the entry to be repeating ( is shown in the Day view).
Repeat until - You can set an end date for the repeated entry.
Synchronisation - Private- after synchronisation the calendar entry can be seen only by you and it will not be shown to others with online access to view the calendar. Public- the calendar entry is shown to others who have access to view your calendar online. None- the calendar entry will not be copied to your PC when you synchronise.
4 To save the entry, press Done.

**Tip!** You can send calendar entries to a compatible phone. See the Messaging chapter, and Sending data using Bluetooth, p. '86'.

**Shortcut:** Press any key ( 1 - 0 ) in any calendar view. A Meeting entry is opened, and the characters you keyed in are added to the Subject field.

**Tip!** If you are editing or deleting a repeated entry, choose how you want the change to take effect: All occurrences - all repeated entries are deleted / This entry only - only the current entry will be deleted. For example, your weekly class has been cancelled. You have set the calendar to remind you every week. Select This entry only and the calendar will remind you again next week.

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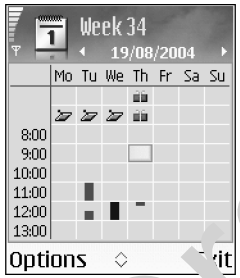
## Calendar views

**Tip!** Select Options > Settings to change the view that is shown when you open the calendar or the starting day of the week.



**Tip!** To send a calendar note, select Options > Send > Via text message/ Via multimedia/ Via Bluetooth.

In the Month view, dates that have calendar entries are marked with a small triangle at the right bottom corner. In the Week view, memos and anniversaries are placed before 8 o'clock.

- Icons in Day and Week views: - Memo and - Anniversary. There is no icon for Meeting.
- To go to a certain date, select Options > Go to date. Write the date, and press OK.
- Press # to jump to today.

**Tip!** You can move calendar and to-do data from many different Nokia phones to your phone or synchronise your calendar and to-do to a compatible PC using Nokia PC Suite. See the CD-ROM supplied in the sales package.

## Setting a calendar alarm

You can set an alarm to remind you of a meeting. This option is not available for notes and anniversaries.

1 Open a note in which you want to set an alarm, and select Alarm > On.
2 Set the Alarm time and Alarm date.
3 Scroll down to Repeat, and press to select how often you want the alarm to be repeated.
4 Press Done.

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To delete a calendar alarm, open the note in which you want to delete an alarm, and select **Alarm** > **Off**.

## Calendar settings

To modify the **Calendar alarm tone**, **Default view**, **Week starts on**, and **Week view title**, select **Options** > **Settings**.

# To-do – task list

Press and select **Organiser** > **To-do** to write notes and maintain a task list.

- To add a note, press any key to start to write the task in the **Subject** field.
- To set the due date for the task, scroll to the **Due date** field, and enter a date.
- To set the priority for the to-do note, scroll to the **Priority** field, and press to select the priority. The priority icons are (**High**) and (**Low**). There is no icon for **Normal**.
- To mark a task as completed, scroll to it in the To-do list, and select **Options** > **Mark as done**.
- To restore a task, scroll to it in the To-do list, and select **Options** > **Mark as not done**.

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# Web

Various service providers maintain pages specifically designed for mobile devices. To access these pages, press and select **Web**. These pages use the Wireless Markup Language (WML), Extensible Hypertext Markup Language (XHTML), or Hypertext Markup Language (HTML).

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

## Accessing the Web

- Save the settings that are needed to access the Web page that you want to use. See the sections Receiving browser settings or Keying in the settings manually.
- Make a connection to Web. See Making a connection, p. '70'.
- Start browsing the pages. See Browsing, p. '71'.
- End the connection to Web. See Ending a connection, p. '73'.

### Receiving browser settings

**Tip!** Settings may be available, for example, on the Web site of a network operator or service provider.

You may receive Web service settings in a special text message from the network operator or service provider that offers the Web page. See Receiving logos, tones, business cards, calendar entries, and settings, p. '50'. For more information, contact your network operator or service provider.

### Keying in the settings manually

Follow the instructions given to you by your service provider.

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1 Select **Tools** > **Settings** > **Connection** > **Access points**, and define the settings for an access point. See Connection settings, p. '95'.
2 Select **Web** > **Options** > **Bookmark manager** > **Add bookmark**. Write a name for the bookmark and the address of the page defined for the current access point.

# Bookmarks view

**Glossary:** A bookmark consists of an Internet address (mandatory), bookmark title, access point, and if the Web page requires, a user name and password.

**Note:** 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.

The starting page defined for the default access point. If you use another default access point for browsing, the starting page is changed accordingly.

The automatic bookmarks folder contains bookmarks ( ) that are collected automatically when you browse pages. The bookmarks in this folder are automatically organized according to domain.

Any bookmark showing the title or Internet address of the bookmark.

## Adding bookmarks manually

1 In the Bookmarks view, select **Options** > **Bookmark manager** > **Add bookmark**.
2 Start to fill in the fields. Only the URL address must be defined. The default access point is assigned to the bookmark if no other one is selected. Press * + to enter special characters such as /, :, and @. Press C to clear characters.
3 Select **Options** > **Save** to save the bookmark.

Options in the Bookmarks view: **Open**, **Download**, **Back to page**, **Bookmark manager**, **Mark/Unmark**, **Navigation options**, **Advanced options**, **Send**, **Find bookmark**, **Details**, **Settings**, **Help** and **Exit**.

**Shortcut:** To start a connection, press and hold 0 in standby mode.

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## Sending bookmarks

Scroll to a bookmark, and select **Options** > **Advanced options** > **Send** > **Via text message**. Press to send. It is possible to send more than one bookmark at the same time.

# Making a connection

Once you have stored all the required connection settings, you can access the pages.

1 Select a bookmark or write the address in the Go to field ( ). When you write the address, matching bookmarks are shown at the top of the Go to field. Press to select a matching bookmark.
2 Press to start to download the page.

## Connection security

If the security indicator is displayed during a connection, the data transmission between the device and the internet gateway or 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.

Select **Options** > **Details** > **Security** to view details about the connection, encryptions status, and information about server and user authentication.

Security features may be required for some services, such as banking services. For such connections you need security certificates. For more information, contact your service provider. See also Certif. management, p. '101'.

**Tip!** To send a bookmark, scroll to it, and select **Options** > **Send** > **Via text message**.

Options when browsing (depend on the page you are viewing): **Open**, **Accept**, **Remove file**, **Open in viewer**, **Open Wallet**, **Service options**, **Bookmarks**, **Save as bookmark**, **View images**, **Navigation options**, **Advanced options**, **Show images**, **Send bookmark**, **Find**, **Details**, **Settings**, **Help**, and **Exit**.

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# Browsing

On a browser page, new links appear underlined in blue and previously visited links in purple. Images that act as links have a blue border around them.

- To open a link, to check boxes, and make selections, press ◉.
- To go to the previous page while browsing, press **Back**. If **Back** is not available, select **Options** > **Navigation options** > **History** to view a chronological list of the pages you have visited during a browsing session. The history list is cleared each time a session is closed.
- To retrieve the latest content from the server, select **Options** > **Navigation options** > **Reload**.
- To save a bookmark, select **Options** > **Save as bookmark**.
- To save a page while browsing, select **Options** > **Advanced options** > **Save page**. You can save pages either to the phone memory or on a memory card, and browse them when offline. To access the pages later, press ◉ in the Bookmarks view to open the **Saved pages** view.
- To enter a new URL address, select **Options** > **Navigation options** > **Go to web address**.
- To open a sublist of commands or actions for the currently open page, select **Options** > **Service options**.
- You can download items such as ringing tones, images, operator logos, themes, and video clips. Downloaded items are handled by the respective applications in your phone, for example, a downloaded image is saved in Gallery.
  Copyright protections may prevent some images, ringing tones, and other content from being copied, modified, transferred, or forwarded.
  Important: Only install software from sources that offer adequate protection against harmful software.
- To download and view new Web service messages while browsing, select **Options** > **Advanced options** > **Read service msgs.** (shown only if there are new messages). See also Receiving Web service messages, p. '50'.

**Tip!** To access the Bookmarks view while browsing, press and hold down ◉. To return to the browser view again, select **Options** > **Back to page**.

**Shortcut:** Use ⇧ # to jump to the end of a page and * + to the beginning of a page.

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## Viewing saved pages

If you regularly browse pages containing information which does not change very often, you can save and browse them when offline. In the saved pages view you can also create folders to store your saved browser pages.

- To open the Saved pages view, press in the Bookmarks view. In the Saved pages view, press to open a saved page ( ).
- To save a page, while browsing select **Options** > **Advanced options** > **Save page**.
- To start a connection to the browser service and to download the latest version of the page, select **Options** > **Reload**. The phone stays online after you reload the page.

Options in the Saved pages view: **Open**, **Back to page**, **Reload**, **Saved pages**, **Mark/Unmark**, **Navigation options**, **Advanced options**, **Details**, **Settings**, **Help**, and **Exit**.

**Tip!** Your browser collects bookmarks automatically while you are browsing Web pages. The bookmarks are stored to the Automatic bookmarks folder ( ) and automatically organized according to domain. See also Settings for Web, p. '73'.

# Downloading and purchasing items

You can download items such as ringing tones, images, operator logos, themes, and video clips. These items can be provided free, or you can purchase them. Downloaded items are handled by the respective applications in your phone, for example, a downloaded photo can be saved in **Gallery**.

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

1 To download the item, scroll to the link, and press .
   - If the item is provided free, press **Accept**. Once downloaded, the content is automatically opened in a suitable application.
   - To cancel the download, press **Cancel**.
2 Choose the appropriate option to purchase the item, for example, 'Buy'.
3 Carefully read all the information provided.
   If the online content is compatible, you can use your wallet information to make the purchase.

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4 Select **Open Wallet**. You will be prompted for your wallet code.
5 Select the appropriate card category from your wallet.
6 Select **Fill in**. This will upload the selected wallet information.
If the wallet does not contain all information necessary for the purchase, you will be requested to enter the remaining details manually.

**Note:** Copyright protections may prevent some images, ringtones and other content from being copied, modified, transferred, or forwarded.

# Ending a connection

Select **Options** > **Advanced options** > **Disconnect**, or press and hold ل to quit browsing and to return to the standby mode.

## Emptying the cache

The information or services you have accessed are stored in the cache memory of the phone.

**Note:** 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 memory of the phone. To empty the cache, select **Options** > **Navigation options** > **Clear cache**.

# Settings for Web

Select **Options** > **Settings**:

- **Default access point**. To change the default access point, press ● to open a list of available access points. See Connection settings, p. '95'.

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- **Show images** - To select if you want to load images while browsing or not. If you choose **No**, you can later load images during browsing by selecting **Options** > **Show images**.
- **Font size** - To choose the text size.
- **Default encoding** - If text characters are not shown correctly, you may choose another encoding according to language.
- **Automatic bookmarks** - To disable automatic bookmark collection, select **Off**. If you want to continue collecting automatic bookmarks but hide the folder from the Bookmarks view, select **Hide folder**.
- **Screen size** - To select what is shown when you are browsing. Select **Select. keys only**, or **Full screen**.
- **Volume** - If you want the browser to play sounds embedded on Web pages, select a volume level.
- **Rendering** - If you want the page layout shown as accurately as possible when in **Small screen** mode, select **By quality**. If you do not want external cascading style sheets to be downloaded, select **By speed**.
- **Cookies** - To enable or disable the receiving and sending of cookies.
- **Java/ECMA script** - To enable or disable the use of scripts.
- **Security warnings** - To hide or show security notifications.
- **Conf. DTMF sending** - Choose whether you want to confirm before the phone sends DTMF tones during a voice call. See also 'DTMF tones', p. '21'.
- **Wallet** - To open the wallet automatically when a compatible browser page is opened. See Wallet, p. '73'.

**Glossary:** Cookies are a means of content providers to identify users and their preferences for frequently used content.

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# Organizer

## Calculator

To add, substract, multiply, divide, calculate square roots and percentages, press and select Organizer > Calculator.

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

To save a number in the memory (indicated by M), select Options > Memory > Save. To retrieve a number in memory, select Options > Memory > Recall. To clear a number in memory, select Options > Memory >Clear.

### Calculating percentages

1 Enter a number for which you want to calculate a percentage.
2 Select ×, ÷, −, or +.
3 Enter the percentage.
4 Select %.

## Notes

Press and select Organizer > Notes to write notes. You can send notes to other compatible devices and plain text files (TXT format) that you receive can be saved to Notes.

## Go to – adding shortcuts

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**Default shortcuts**:
opens Calendar,
opens Inbox and
opens Notes.

To store shortcuts, links to your favourite images, notes, bookmarks, and so on, press and select Organizer > Go to. Shortcuts can be added only from the individual applications, like Gallery. Not all applications have this function.

1 Select an item from an application to which you want to add a shortcut.
2 Select Add to 'Go to'. A shortcut in Go to is automatically updated if you move the item to which it is pointing, for example, from one folder to another.

- To change the identifier in the lower left corner of the shortcut icon, select Options > Shortcut icon.

## Deleting a shortcut

Select the shortcut and press C. The default shortcuts Notes, Calendar, and Inbox cannot be deleted.

When you remove an application or a document, which has a shortcut in the Go to, the shortcut icon of the removed item will be dimmed in the Go to view. The shortcut can be deleted next time you try to open the shortcut.

# Converter – converting measures

Options in Converter: Select unit/ Change currency, Conversion type, Currency rates, Help, and Exit.

To convert measures such as Length from one unit (Yards) to another (Meters), press and select Organizer > Converter.

Note that the Converter has limited accuracy, and rounding errors may occur.

1 Scroll to the Type field, and press to open a list of measures. Scroll to the measure you want to use, and press OK.
2 Scroll to the Unit field, and press . Select the unit from which you want to convert, and press OK. Scroll to the next Unit field, and select the unit to which you want to convert.
3 Scroll to the first Amount field, and enter the value you want to convert. The other Amount field changes automatically to show the converted value.

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Press ⇧ # to add a decimal and * + for the **+**, **–** (for temperature), and **E** (exponent) symbols.

## Setting a base currency and exchange rates

Before you can make currency conversions, you need to choose a base currency and add exchange rates. The rate of the base currency is always 1. The base currency determines the conversion rates of the other currencies.

1 Select **Currency** > **Options** > **Currency rates**. A list of currencies opens, and you can see the current base currency at the top.
2 To change the base currency, scroll to the currency, and select **Options** > **Set a base curr.**.

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

3 Add exchange rates. Scroll to the currency, and key in a new rate, that is, how many units of the currency equal one unit of the base currency you have selected.

After you have inserted all the necessary exchange rates, you can make currency conversions.

**Tip!** To change the conversion order, enter the value in the second **Amount** field. The result is shown in the first **Amount** field.

**Tip!** To rename a currency, go to the **Currency rates** view, scroll to the currency, and select **Options** > **Rename currency**.

# Wallet

Press ⌂ and select **Organizer** > **Wallet**. Wallet provides you with a storage area for your personal information, such as credit and debit card numbers, addresses and other useful data, for example, user names and passwords.

The information stored in the wallet can be retrieved while browsing to automatically fill in online forms on browser pages, for example, when the service asks for credit card details. Data in the wallet is encrypted and protected with a wallet code that you define.

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Wallet will automatically close after 5 minutes. Enter the wallet code to regain access to the contents. You can change this automatic time-out period if required. See Wallet settings, p. '80'.

Options in the wallet main view: **Open**, **Settings**, **Help**, and **Exit**.

## Creating a wallet code

Each time you open the wallet you will be prompted for a wallet code. Enter the code that you have created, and press **OK**.

When you open the wallet for the first time, you must create your own wallet code:

1 Enter a code of your choice (4-10 alphanumeric characters), and press **OK**.
2 You will be prompted to verify the code. Enter the same code and press **OK**. Do not give your wallet code to anyone else.

If you enter the wallet code incorrectly three consecutive occasions, the wallet application is blocked for five minutes. The block time increases if further incorrect wallet codes are entered.

If you forget your wallet code, you will have to reset the code, and you will lose all information stored in the wallet. Resetting the wallet and wallet code, p. '80'.

## Storing personal card details

1 Select the **Cards** category from the main wallet menu, and press ◉.
2 Select a type of card in the list, and press ◉.
   - **Payment cards** - Credit and debit cards.
   - **Loyalty cards** - Membership and store cards.
   - **Online serv. cards** - Personal user names and passwords to online services.
   - **Address cards** - Basic contact details for home/office.
   - **User info cards** - Customized personal preferences for online services.
3 Select **Options** > **New card**. An empty form opens.
4 Fill in the fields, and press **Done**.

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You can also receive card information directly to the phone from a card issuer or service provider (if they offer this service). You will be notified which category the card belongs to. Save or discard the card. You can view and rename a saved card, but you cannot edit it.

You can open, edit, or delete the fields in the card. Any changes will be saved upon exiting.

## Creating personal notes

Personal notes are a means of storing sensitive information, for example, a bank account number. You can access the data in a personal note from the browser. You can also send the note as a message.

1 Select the **Personal notes** category from the main wallet menu, and press ⊙.
2 Select **Options** > **New card**. An empty note opens.
3 Press 1 - 0 to start writing. Press C to clear characters.
4 Press **Done** to save.

## Creating a wallet profile

Once you have stored your personal details, you can combine them together into a wallet profile. You can use a wallet profile to retrieve wallet data from different cards and categories to the browser. For example, when you are filling in a form.

1 Select the **Wallet profiles** category from the main wallet menu, and press ⊙.
2 Select **Options** > **New card**. A new wallet profile form opens.
3 Fill in the fields or select an option from the listed items.

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**Example:** By uploading your payment card details you do not need to enter the card number and expiry date each time you need them (depending on the content being browsed). Also, you can retrieve your user name and password stored as an access card when connecting to a mobile service that requires authentication.

- Profile name - Choose and enter a name for the profile.
- Payment card, Loyalty card, Online access card, Shipping address,
- Billing address - By default this is the same as the Shipping address. If you require a different address, select one from the Address card category.
- User info card,
- Receive e-receipt - Select a destination from the Address card category.
- Deliver e-receipt and
- RFID sending - Set to On or Off. Defines whether or not your unique phone identification is sent with the wallet profile.

4 Press Done.

## Viewing ticket details

You can receive notifications of tickets purchased online through the browser. Received notifications are stored in the wallet. To view the notifications:

1 Select the Tickets category from the main wallet menu, and press ●.
2 Select Options > View. None of the fields within the notification can be modified.

## Wallet settings

From the main wallet menu, select Options > Settings:

- Wallet code - Change your wallet code. You will be prompted to enter the current code, create a new code, and verify the new code.
- RFID - Set the phone ID code, type, and sending options.
- Automatic close - Change the automatic time-out period (1-60 minutes). After the time-out period has elapsed, the wallet code must be re-entered to gain access to the contents.

## Resetting the wallet and wallet code

This operation erases all contents of the wallet.

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To reset both the contents of the wallet and the wallet code:

1 Enter *#7370925538# in the standby mode.
2 Enter the phone lock code, and press **OK**. See Security, p. '99'.

When opening the wallet again, you must enter a new wallet code. Creating a wallet code, p. '78'.

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# IM – Instant Messaging

Press and select **Tools** > **IM**.

Instant messaging is a network service which allows you to connect with other people using instant messages and join discussion forums (IM groups) with specific topics. Various service providers maintain IM servers that you can log in to once you have registered to an IM service.

Options in the IM main view: **Open**, **Login/ Logout**, **Settings**, **Help**, **Exit**.

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

**Tip:** To log in automatically when you start IM, without having to enter your user ID and password each time, select **Options** > **Settings** > **Server settings** > **IM login type** > **Automatic**.

## Receiving IM settings

You must save the settings to access the service that you want to use. You may receive the settings in a special text message, a so-called smart message, from the network operator or service provider that offers the IM service. See Receiving logos, tones, business cards, calendar entries, and settings, p. '5'. You can also enter the settings manually. See Chat server settings, p. '88'.

## Connecting to an IM server

1 Open IM to have your phone connect to the IM server in use. To change the IM server in use and save new IM servers, see Chat server settings, '88'. Once the connection has been established:

2 Enter your user ID and password, and press to log in. You obtain the user ID and password for IM server from your service provider.

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You can select **Cancel** to stay offline; to log in to the IM server later, select **Options** > **Login**. You cannot send or receive messages while you are offline.

3 To log out, select **Options** > **Logout**.

## Modifying your IM settings

Select **Options** > **Settings** > **IM settings**:

- **Use screen name** (shown only if IM groups supported by the server) - To enter a nickname (up to10 characters), select **Yes**.
- **IM presence** - To allow others to see if you are online, select **Active for all**.
- **Allow messages from** - To allow messages from all, select **All**.
- **Allow invitations from** - To allow invitations only from your IM contacts, select **IM contacts only**. IM invitations are sent by IM contacts who want you to join their groups.
- **Message speed** - To select the speed at which new messages are displayed.
- **Sort IM contacts** - To sort your IM contacts **Alphabetically** or **By online status**.
- **Availability reloading** - To choose how to update information about whether your IM contacts are online or offline, select **Automatic** or **Manual**.

Options in the Conversations list: **Open**, **Delete**, **Add to IM contacts**, **New conversation**, **Set auto reply on**, **Blocking options**, **End conversation**, **Login**, **Settings**, **Help**, **Exit**.

## Searching for IM groups and users

- To search for groups, in the **IM groups** view, select **Options** > **Search** > **Groups**. You can search by **Group name**, **Topic**, and **Members** (user ID).
- To search for users, in the **IM contacts** view, select **Options** > **Search** > **Users**. You can search by **User's name**, **User ID**, **Phone number**, and **E-mail address**.

## Joining and leaving an IM group

- To join a IM group that you have saved, scroll to the group, and press ⊙.

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- To join an IM group not on the list, but for which you know the group ID, select **Options** > **Join group**. Enter the group ID, and press ⊙.
- To leave the IM group, select **Options** > **Leave IM group**.

## Chatting

Once you have joined an IM group, you can view the messages that are exchanged there, and send your own messages.

Options while chatting: **Send**, **Send private msg.**, **Reply**, **Forward**, **Insert smiley**, **Send invitation**, **Leave IM group**, **Add to banned list**, **IM group**, **Record convers./Stop recording**, **Help**, and **Exit**.

- To send a message, write the message in the message editor field and press ⊙.
- To send a private message to participant, select **Options** > **Send private msg.**, select the recipient, write the message, and press ⊙.
  To reply to a private message sent to you, select the message and select **Options** > **Reply**.
- To invite IM contacts who are online to join the IM group, select **Options** > **Send invitation**, select the contacts you want to invite, write the invitation message, and press ⊙.
- To prevent receiving messages from certain participants, select **Options** > **Blocking options** and select:
  - **Add to blocked list** - to block messages from the currently selected participant.
  - **Add ID to list manually** - to enter the user ID of the participant. Enter the ID and press ⊙.
  - **View blocked list** - to see the participants whose messages are being blocked.
  - **Unblock** - to select the user that you want to remove from the blocked list. Press ⊙.

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## Recording chats

- To record to a file the messages that are exchanged during a conversation or while you are joined in a IM group, select **Options** > **Record convers.**, enter a name for the conversation file, and press ◉. To stop recording, select **Options** > **Stop recording**. The recorded conversation files are automatically saved in the **Recorded chats**.
- To view the recorded chats, in the main view, select **Recorded chats**, select the conversation and press ◉.

Options in the Recorded chats view: **Open**, **Delete**, **Send**, **Mark/ Unmark**, **Login/ Logout**, **Settings**, **Help**, **Exit**.

# Viewing and starting conversations

Go to the **Conversations** view to see a list of the individual conversation participants that you have an ongoing conversation with.

To view a conversation, scroll to a participant, and press ◉.

- To continue the conversation, write your message and press ◉.
- To return to the conversations list without closing the conversation, press **Back**.
- To close the conversation, select **Options** > **End conversation**. Ongoing conversations are automatically closed when you exit Chat.

To start a new conversation, select **Options** > **New conversation**:

- **Select recipient** - To see a list of your chat contacts that are currently online. Scroll to the contact that you want to start a conversation with, and press ◉.
- **Enter user ID** - To enter the user ID of the user you want to start a conversation with, and press ◉.

To save a conversation participant to your IM contacts, scroll to the participant and select **Options** > **Add to IM contacts**.

To send automatic replies to incoming messages, select **Options** > **Set auto reply on**. Enter the text and press **Done**. You can still receive messages.

Options when viewing a conversation: **Send**, **Add to IM contacts**, **Insert smiley**, **Forward**, **Record convers./ Stop recording**, **Blocking options**, **End conversation**, **Help**, **Exit**

**Glossary:** The user ID is provided by the service provider to those who register to this service.

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# IM contacts

Go to the **IM contacts** to retrieve chat contact lists from the server, or to add a new chat contact to a contact list. When you log in to the server, the previously used chat contact list will be retrieved from the server automatically.

- To create a new contact, select **Options** > **New IM contact** > **Enter manually**. Fill in the **Nickname** and **User ID** fields, and press **Done**.
  - To move a contact from a list on the server to the retrieved list, select **Options** > **New IM contact** > **Move from other list**.
- To change the chat contact list, select **Options** > **Change contact list**.
- Select **Options**:
  - **Open conversation** - To start a new conversation or continue an ongoing conversation with the contact.
  - **Switch tracking on** - To have the phone notify you every time the chat contact goes online or offline.
  - **Belongs to groups** - To see which groups the chat contact has joined.
  - **Reload user availab.** - To update information about whether the contact is online or offline. The online status is shown by an indicator next to the contact name. This option is not available if you have set the **Availability reloading** to **Automatic** in **IM settings**.

Options in the IM contacts view: **Open conversation**, **Open**, **Change contact list**, **Reload user availab.**, **Belongs to groups**, **New IM contact**, **Move to other list**, **Edit**, **Delete**, **Switch tracking on**, **Blocking options**, **Login / Logout**, **Settings**, **Help**, and **Exit**.

# Managing IM groups

Go to the **IM groups** view to see a list of the IM groups that you have either saved or are currently joined to.

Scroll to a group, and select **Options** > **IM group**:

- **Save group** - To save an unsaved group that you are currently joined to.
- **View members** - To see who are currently joined to the group.

Options in the IM groups view: **Open**, **Join group**, **Create new group**, **Leave IM group**, **IM group**, **Search**, **Login/ Logout**, **Settings**, **Help**, and **Exit**.

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- **IM details** - To see the group ID, topic, participants, administrators of the group (shown only if you have the editing rights), the list of banned participants (shown only if you have the editing rights), and whether whispering is allowed in the group.
- **IM group settings** - To view and edit the chat group settings. See Creating a new IM group, p '87'.

# Administrating an IM group

## Creating a new IM group

Select **IM groups** > **Options** > **Create new group**. Enter the settings for the group.

You can edit the settings for an IM group if you have administrator rights to the group. The user who creates a group is automatically given administrator rights to it.

- **Group name** -, **Group topic** -,
- **Welcome note** - To add a note that the participants see when they join the group,
- **Group size** - To define the maximum number of members allowed to join the group,
- **Allow search** - ,
- **Editing rights** - To define the chat group participants to whom you want to give administration rights permission to invite contacts to join the IM group and edit the group settings.
- **Group members** - See Adding and removing group members, p. '88'.
- **Banned list** - Enter the participants that are not allowed to join the IM group.
- **Allow private msgs.** - To allow messaging between selected participants only.
- **Group ID** - The group ID is created automatically and cannot be changed.

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## Adding and removing group members

- To add members to a group, select **IM groups**, scroll to an IM group, and select **Options** > **IM group** > **IM group settings** > **Group members** > **Selected only** or **All IM contacts**.
- To remove a member from the IM group, scroll to the member and select **Options** > **Remove**. To remove all members, select **Options** > **Remove all**.

# Chat server settings

Select **Options** > **Settings** > **Server settings**. You may receive the settings in a special text message from the network operator or service provider that offers the chat service. You obtain the user ID and password from your service provider, when you register to the service. If you do not know your user ID or password, contact your service provider.

- To change the IM server to which you wish to connect, select **Default server**.
- To add a new server to your list of IM servers, select **Servers** > **Options** > **New server**. Enter the following settings:
  - **Server name** - Enter the name for the chat server.
  - **Access point in use** - Select the access point you want to use for the server.
  - **Web address** - Enter the URL address of the IM server.
  - **User ID** - Enter your user ID.
  - **Password** - Enter your login password.

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# Connectivity

## Bluetooth connection

Bluetooth enables wireless connections to send images, video clips, music and sound clips and notes, or to connect wirelessly to Bluetooth enabled, compatible devices such as computers. Since Bluetooth devices communicate using radio waves, your phone and the other Bluetooth device do not need to be in direct line-of-sight. The two devices only need to be within a maximum of 10 metres of each other, although the connection can be subject to interference from obstructions such as walls or from other electronic devices.

There may be restrictions on using Bluetooth technology in some locations. Check with your local authorities or service provider.

Features that use Bluetooth technology, or allow such features to run in the background while using other features, increase the demand on battery power and reduces the battery life.

Press and select **Connect.** > **Bluetooth**. You are asked to give a Bluetooth name to your phone.

### Bluetooth settings

- **Bluetooth** - **On/Off**
- **My phone's visibility** - **Shown to all**: your phone can be found by other Bluetooth devices, or **Hidden**: your phone can not be found by other devices.

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**Icons for different Bluetooth devices:**
- Computer
- Phone
- Audio/video
- Headset
- Other

**Tip!** When searching for devices, some Bluetooth devices may show only the unique Bluetooth addresses (device addresses).

- **My phone's name** - Define a Bluetooth name for your phone. After you have set Bluetooth to be active and changed **My phone's visibility** to **Shown to all**, your phone and this name can be seen by other Bluetooth device users.

## Sending data using Bluetooth

There can be only one active Bluetooth connection at a time.

1 Open an application where the item you wish to send is stored. For example, to send an image to another compatible device, open the Gallery application.
2 Select the item, for example an image, and select **Options** > **Send** > **Via Bluetooth**. The phone starts to search for devices within range. Bluetooth-enabled devices that are within range start to appear on the display one by one. You can see a device icon, the Bluetooth name of the device, the device type, or a short name.

   **Tip!** If you have searched for Bluetooth devices earlier, a list of the devices that were found previously is shown first. To start a new search, select **More devices**. If you switch off the phone, the list is cleared.

   - To interrupt the search, press **Stop**. The device list freezes and you can start to form a connection to one of the devices already found.
3 Scroll to the device with which you want to connect, and press **Select**.
4 **Pairing (if required by the other device)**
   **Glossary:** Pairing means authentication. The users of the Bluetooth enabled devices should agree what the passcode is and use the same passcode for both devices in order to pair them. Devices that do not have a user interface have a factory-set passcode.
   - If the other device requires pairing before data can be transmitted, a tone sounds and you are asked to enter a passcode.
   - Create your own passcode (1-16 characters long, numeric) and agree with the owner of the other Bluetooth device to use the same code. The passcode is used only once.

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- After pairing, the device is saved to the Paired devices view.

When the connection has been established, the note **Sending data** is shown.

The Drafts folder in Messaging does not store messages sent using Bluetooth.

**Checking the status of the Bluetooth connection**

- When is shown in the standby mode, Bluetooth is active.
- When is blinking, your phone is trying to connect to the other device.
- When is shown continuously, the Bluetooth connection is active.

**Tip!** To send text using Bluetooth (instead of text messages), go to Notes, write the text, and select **Options** > **Send** > **via Bluetooth**.

## Pairing devices

Paired devices are easier to recognize, they are indicated by in the device search. In the Bluetooth main view, press to open the Paired devices view ( ).

- To pair with a device, select **Options** > **New paired device**. The phone starts a device search. Scroll to the device, and press **Select**. Exchange passcodes, see step 4 (Pairing), p. '90'.
- To cancel a pairing, scroll to the device, and select **Options** > **Delete**. If you want to cancel all pairings, select **Options** > **Delete all**.

  **Tip!** If you are currently connected to a device and delete the pairing with that device, pairing is removed immediately, but the connection remains active.
- To set a device to be authorized or unauthorized, scroll to a device, and select **Options**:
  **Set as authorized** - Connections between your phone and this device can be made without your knowledge. No separate acceptance or authorisation is needed. Use this status for your own devices, such as your compatible Bluetooth headset or PC, or devices that belong to someone you trust. The icon is added next to authorized devices in the Paired devices view.
  **Set as unauthorized** - Connection requests from this device need to be accepted separately every time.

**Tip!** To define a short name (nickname or alias), scroll to the device and select **Options** > **Assign short name** in the Paired devices view. This name helps you to recognize a certain device during device search or when a device requests a connection.

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## Receiving data using Bluetooth

When you receive data using Bluetooth, a tone sounds, and you are asked if you want to accept the Bluetooth message. If you accept, is shown, and the item is placed in the Inbox folder in Messaging. Bluetooth messages are indicated by . See Inbox - receiving messages, p. '49'.

## Switching off Bluetooth

To switch off Bluetooth, select **Bluetooth** > **Off**.

# PC connections – using Bluetooth or USB

You can use your phone with a variety of PC connectivity and data communications applications. With Nokia PC Suite you can, for example, synchronize contacts, calendar and To-do notes between your phone and a compatible PC. For further information on how to install Nokia PC Suite (compatible with Windows 2000 and Windows XP), see the **User Guide for Nokia PC Suite** and the **Nokia PC Suite help** in the 'Install' section on the CD-ROM.

## Using the CD-ROM

The CD-ROM should launch after you have inserted it into the CD-ROM drive of a compatible PC. If not, proceed as follows: Open Windows Explorer, right-click the CD-ROM drive where you inserted the CD- ROM, and select AutoPlay.

## Using your phone as a modem

You can use your phone as a modem to send and receive e-mails, or to connect to the Internet with a compatible PC by using a Bluetooth connection, or a data cable. Detailed

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installation instructions can be found in the **User's Guide for Nokia PC Suite** in Modem options on the CD-ROM.

# Connection manager

Press and select **Connectivity** > **Conn. mgr.** to view the status of multiple data connections, view details on the amount of data sent and received, and end connections. When you open Connection manager, you can see a list of:

- open data connections: data calls ( ), and packet data connections ( )
- the status of each connection
- the amount of data uploaded and downloaded for each connection (shown for packet data connections only)
- the duration of each connection (shown for data calls only)

**Note:** The actual time invoiced for calls by your service provider may vary, depending on network features, rounding off for billing, and so forth.

- To end a connection, scroll to a connection, and select **Options** > **Disconnect**.
- To close all currently open connections, select **Options** > **Disconnect all**.

Options in the Connection manager main view when there are one or more connections: **Details**, **Disconnect**, **Disconnect all**, **Help** and **Exit**.

## Viewing data connection details

To view the details of a connection, scroll to a connection, and select **Options** > **Details**.

- **Name** - The name of the Internet access point (IAP) in use, or 'Modem connection' if the connection is a dial-up connection.
- **Bearer** - The type of data connection: **Data call**, or **Packet data**.
- **Status** - The current status of the connection: **Connecting**, **Conn.(inact.)**, **Conn.(active)**, **On hold**, **Disconnecting**, or **Disconnected**.
- **Received** - The amount of data, in bytes, received to the phone.
- **Sent** - The amount of data, in bytes, sent from the phone.
- **Duration** - The length of time that the connection has been open.

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- **Speed** - The current speed of both sending and receiving data in **%U kB/s** (kilobytes per second).
- **Name** - Access point name used or **Dial-up** - the dial-up number used.
- **Shared** (not shown if the connection is not shared) - The number of applications using the same connection.

# Sync – remote synchronization

Press and select **Sync**. The Sync application enables you to synchronize your calendar, and contacts with various calendar and address book applications on a compatible computer or on the Internet.

The synchronization application uses SyncML technology for synchronization. For information on SyncML compatibility, please contact the supplier of the calendar or address book application you want to synchronize your phone data with.

You may receive Sync settings in a special text message. See Receiving logos, tones, business cards, calendar entries, and settings, p. 50'.

## Creating a new synchronization profile

Options in the Remote sync main view: **Synchronize**, **New sync profile**, **Edit sync profile**, **Delete**, **View log**, **Set as default**, **Help**, and **Exit**.

1. If no profiles have been defined, the phone asks if you want to create a new profile. Select **Yes**.
   To create a new profile in addition to existing ones, select **Options** > **New sync profile**. Choose whether you want to use the default setting values or copy the values from an existing profile to be used as the basis for the new profile.
2. Define the following:
   **Sync profile name** - Write a descriptive name for the profile.
   **Data bearer** - Select the connection type: **Web**, **Bluetooth**, or **Data cable**.
   **Access point** - Select an access point you want to use for the data connection.
   **Host address** - Contact your service provider or system administrator for the correct values.

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**Port** - Contact your service provider or system administrator for the correct values.
**User name** - Your user ID for the synchronization server. Contact your service provider or system administrator for your correct ID.
**Password** - Write your password. Contact your service provider or system administrator for the correct value.
**Allow configuration** - Select **Yes** if you want to allow the server to start a synchronization.
**Auto-accept all reqs.** - Select **No** if you want the phone to ask you before a synchronization initialized by the server is started.
**Network authentic.** (shown only if **Data bearer** is set to **Web**) - Select **Yes** to enter network user name and password. Press ◉ to view the user name and password fields.

Press ◉ to select: **Calendar**, **Contacts**, or **Notes**.

- Select **Yes** if you want to synchronize the selected database.
- **Remote database** - Select the synchronization type **Normal** (two-way synchronization), **To server only**, or **To phone only**.
- Enter a correct path to the remote calendar, address book, or notes database on the server.

3 Press **Back** to save the settings and return to the main view.

## Synchronizing data

In the Sync main view, you can see the different synchronization profiles, and the kind of data to be synchronized.

1 Select a synchronization profile and **Options** > **Synchronize**. The status of the synchronization is shown at the bottom of the screen.
To cancel synchronization before it is finished, press **Cancel**.
2 You are notified when the synchronization is complete. After synchronization is complete, select **Options** > **View log** to open a log file showing the synchronization

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status (**Complete** or **Incomplete**) and how many calendar or contact entries have been added, updated, deleted, or discarded (not synchronized) in the phone or on the server.

## Infrared

You can set up the phone to receive data through its IR port. To use an IR connection, transmission and reception must be to or from an IR compatible phone or device.

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

### Send and receive data

1. Ensure that the IR ports of the sending and receiving devices are pointing at each other and that there are no obstructions between the devices.
   The preferable distance between the two devices for an IR connection is from 3 inches to 3 feet.
2. Activate IR in your phone by selecting *Menu* > *Connectivity* > *Infrared*.
3. The user of the other device should activate IR as well.

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

### Connection indicator

- When is shown continuously, the IR connection is activated and your phone is ready to send or receive data using its IR port.
- When blinks, your phone is trying to connect to the other device or a connection has been lost.

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# Tools

## Settings

To change settings, press and select **Tools**→ **Settings**. Scroll to a setting group, and press to open it. Scroll to a setting you want to change, and press .

## Phone settings

### General

**Phone language** - Changing the language of the display texts in your phone will also affect the format used for date and time and the separators used, for example, in calculations.

Changing the settings for **Phone language** or **Writing language** affects every application in your phone and the change remains effective until you change these settings again.

**Writing language** - Changing the language affects the characters and special characters available when writing text and the predictive text dictionary used.

**Dictionary** - You can set the predictive text input **On** or **Off** for all editors in the phone. The predictive text dictionary is not available for all languages.

**Welcome note or logo** - The welcome note or logo is displayed briefly each time you switch on the phone. Select **Default** to use the default image, **Text** to write a welcome note (up to 50 letters), or **Image** to select a photo or picture from **Gallery**.

**Orig. phone settings** - You can reset some of the settings to their original values. To do this, you need the lock code. See Security, Phone lock, p. '102'. After resetting the settings, the phone may take a longer time to power on. Documents and files are unaffected.

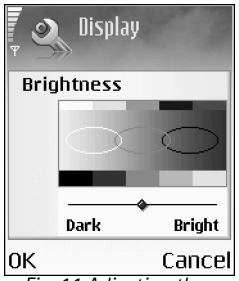

*Fig. 11 Adjusting the display brightness.*

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*Fig. 12 The screen saver changes to show the number of new messages or missed calls.*

## Standby mode

You can assign keypad shortcuts for the different keypresses in the standby mode: is the **Left selection key**, pressing is the same as **Navigation key right**, and is the same as **Selection key**. You cannot have a shortcut to an application that you have installed.

**Operator logo** - This setting is visible only if you have received and saved an operator logo. You can choose if you want the operator logo to show or not.

## Display

**Bright** - You can change the brightness of the display to lighter or darker. The brighness of the display is automatically adjusted according to the environment.

**Screen saver timeout** - The screen saver is activated when the timeout period is over.

**Light time-out** - Select a timeout after which the backlight will be switched off.

# Call settings

**Send my caller ID** (network service) - You can set your phone number to be displayed to (**Yes**) or hidden from (**No**) the person to whom you are calling; or the value may be set by your network operator or service provider when you make a subscription (**Set by network**).

**Call waiting** (network service) - If you have activated call waiting, the network will notify you of a new incoming call while you have a call in progress. Select **Activate** to request the network to activate call waiting, **Cancel** to request the network to deactivate call waiting, or **Check status** to check if the function is active or not.

**Reject call with SMS** - Select **Yes** to send a text message to a caller informing why you could not answer the call. See Answering or rejecting a call, p. '19'.

**Message text** - Write a text to be sent in a text message when you reject a call.

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**Image in vid. call** - You can deny video sending when you receive a video call. Select a still image to be displayed instead of video.

**Automatic redial** - Select **On**, and your phone will make a maximum of ten attempts to connect the call after an unsuccessful call attempt. Press to stop automatic redialing.

**Summary after call** - Activate this setting if you want the phone to briefly display the approximate duration of the last call.

**1-touch dialing** - Select **On**, and the numbers assigned to the 1-touch dialing keys ( 2 abc - wxyz 9 ) can be dialled by pressing and holding the key. See also 1-touch dialing, p. '18'.

**Anykey answer** - Select **On**, and you can answer an incoming call by briefly pressing any key, except , , , and .

**Tip!** To change the settings for Call forwarding, press and select **Tools**→ **Settings**→ **Call forward**. See Call forwarding, p. '104'.

**Tip!** To switch between the phone lines, press and hold # in standby mode.

# Connection settings

## Data connections and access points

Your phone supports packet data connections. See also Essential indicators, p. '11'. To establish a data connection, an access point is required. You can define different kinds of access points, such as:

- MMS access point to, for example, send and receive multimedia messages,
- access point for the Web application to view WML or XHTML pages, and
- Internet access point (IAP) to, for example, send and receive e-mail.

Check the kind of an access point you need with your service provider for the service you wish to access. For availability and subscription to packet data connection services, contact your network operator or service provider.

## Packet data connections

When you are using your phone it is possible to have multiple data connections active at the same time; access points can share a data connection; and data connections remain active (for example, during voice calls). For information on how to see how many data

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connections are active, see Connection manager, p. '89'. See also network indicators in Essential indicators, p. '11'.

## Receiving access point settings

You may receive access point settings in a text message from a service provider, or you may have preset access point settings in your phone. See Receiving logo, tones, business cards, calendar entries, and settings, p. '50'.

- To create a new access point, select **Tools**→ **Settings**→ **Connection**→ **Access points**.

An access point may be set to be protected (🔒) by your network operator or service provider. Protected access points cannot be edited or deleted.

## Access points

Options in the Access points list: **Edit**, **New access point**, **Delete**, **Help**, and **Exit**.

Follow the instructions given to you by your service provider.

**Connection name** - Give a descriptive name for the connection.

**Data bearer** - Depending on what data connection you select, only certain setting fields are available. Fill in all fields marked with **Must be defined** or with a red asterisk. Other fields can be left empty unless you have been instructed otherwize by your service provider.

Options when editing access point settings: **Change**, **Advanced settings**, **Help**, and **Exit**.

**Access point name** (for packet data only) - The access point name is needed to establish a connection to the packet data networks. You obtain the access point name from your network operator or service provider.

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**User name** - The user name may be needed to make a data connection, and is usually provided by the service provider. The user name is often case-sensitive.

**Prompt password** - If you must enter a new password every time you log in to a server, or if you do not want to save your password in the phone, choose **Yes**.

**Password** - A password may be needed to make a data connection, and is usually provided by the service provider. The password is often case-sensitive.

**Authentication** - **Normal** or **Secure**.

**Homepage** - Depending on what you are setting up, write either the Web address, or the address of the multimedia messaging centre.

Select **Options**→ **Advanced settings** to change the following settings:

**Network type** - Select the Internet protocol type to be used: **IPv4 settings** or **IPv6 settings**.

**Phone IP address** - The IP address of your phone.

**Name servers** - **Primary name server:** The IP address of the primary DNS server, **Second. Name server:** The IP address of the secondary DNS server. Contact your Internet service provider to obtain these addresses.

**Proxy serv. address** - Define the address for the proxy server.

**Proxy port number** - Enter the proxy port number.

## Packet data

The packet data settings affect all access points using a packet data connection.

**Packet data conn.** - If you select **When available** and you are in a network that supports packet data, the phone registers to the packet data network. Also, starting an active packet data connection is quicker (for example, to send and receive e-mail). If you select **When needed**, the phone uses a packet data connection only if you start an application or action that needs it. If there is no packet data coverage and you have chosen **When available**, the phone will periodically try to establish a packet data connection.

**Tip!** See also Receiving MMS and e-mail settings, p. '48', Settings for e-mail, p. '57', and Accessing the Web, p. '64'.

**Glossary:** DNS - Domain Name Service. An Internet service that translates domain names such as **www.nokia.com** into IP addresses like **192.100.124.195**

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**Access point** - The access point name is needed to use your phone as a packet data modem to your computer.

### Configurations

You may receive trusted server settings from your network operator or service provider in a configuration message. These settings can be saved to your phone and viewed or deleted in Configurations.

## Date and time

**Tip!** See also the Language settings, p. '97'.

See Clock settings, p. '12'.

## Security

### Phone lock

**Lock code (5 digits)** can be used to lock the phone to avoid unauthorized use. The factory setting for the lock code is **12345**. To avoid unauthorized use of your phone, change the lock code. Keep the new code secret and in a safe place separate from your phone.

**Tip!** To lock the phone manually, press . A list of commands opens. Select **Lock phone**.

Avoid using access codes similar to the emergency numbers to prevent accidental dialing of the emergency number.

**Autolock period** - You can set an autolock period, a time-out after which the phone is automatically locked and can be used only if the correct lock code is entered. Enter a number for the time-out in minutes, or select **None** to turn off the autolock period.

To lock the phone, enter the lock code.

**Note:** When the phone is locked, calls in Offline profile to certain emergency numbers programmed into your phone are still possible.

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**Closed user group** (network service) - To specify a group of people to whom you can call and who can call you.

## Certif. management

Digital certificates do not guarantee safety; they are used to verify the origins of software.

In the Certificate management main view, you can see a list of authority certificates that have been stored in your phone. Press ◉ to see a list of personal certificates, if available.

Digital certificates should be used if you want to connect to an online bank or another site or remote server for actions that involve transferring confidential information. They should also be used if you want to reduce the risk of viruses or other malicious software and be sure of the authenticity of software when downloading and installing software.

**Important:** 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 phone are correct.

### Viewing certificate details – checking authenticity

You can only be sure of the correct identity of a server when the signature and the period of validity of a server certificate have been checked.

You will be notified on the phone display if the identity of the server is not authentic or if you do not have the correct security certificate in your phone.

Options in the Fixed dialing view: **Open**, **Call**, **Activ. fixed dialing**/ **Deact. fixed dialing**, **New contact**, **Edit**, **Delete**, **Add to Contacts**, **Add from Contacts**, **Find**, **Mark**/ **Unmark**, **Help**, and **Exit**.

**Glossary:** Digital certificates are used to verify the origin of the XHTML or WML pages and installed software. However, they can only be trusted if the origin of the certificate is known to be authentic.

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Options in the certificate management main view: **Certificate details**, **Delete**, **Trust settings**, **Mark/Unmark**, **Help**, and **Exit**.

To check certificate details, scroll to a certificate, and select **Options**→ **Certificate details**. When you open certificate details, Certificate management checks the validity of the certificate, and one of the following notes may appear:

- **Certificate not trusted** - You have not set any application to use the certificate. See Changing the trust settings, p. '104'.
- **Expired certificate** - The period of validity has ended for the selected certificate.
- **Certificate not valid yet** - The period of validity has not yet begun for the selected certificate.
- **Certificate corrupted** - The certificate cannot be used. Contact the certificate issuer.

**Changing the trust settings**

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.

Scroll to an authority certificate, and select **Options**→ **Trust settings**. Depending on the certificate, a list of the applications that can use the selected certificate is shown. For example:

- **Symbian installation**: **Yes** - The certificate is able to certify the origin of new Symbian operating system application.
- **Internet**: **Yes** - The certificate is able to certify servers.
- **App. installation**: **Yes** - The certificate is able to certify the origin of new Java application.

Select **Options**→ **Edit trust setting** to change the value.

## Call forwarding

**Icon:** When all calls are diverted, is shown in the standby mode.

1 To direct your incoming calls to your voice mailbox or another phone number, press and select **Tools**→ **Settings**→ **Call forward**. For details, contact your service provider.
2 Select which calls you want to divert: **Voice calls**, or **Data and video calls**.



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3 Select the desired divert option. For example, **If busy** to divert voice calls when your number is busy or when you reject incoming calls.
4 Set the divert option on (**Activate**) or off (**Cancel**), or check whether the option is activated (**Check status**). Several divert options can be active at the same time.

Call barring and Call forwarding cannot be active at the same time.

## Call barring (network service)

Call barring allows you to restrict the calls that can be made or received with the phone. To change the settings, you need the barring password from your service provider. Select the desired barring option, and set it on (**Activate**) or off (**Cancel**), or check whether the option is active (**Check status**). Call barring affects all calls, including data calls.

Call barring and Call forwarding cannot be active at the same time.

When calls are barred, calls still may be possible to certain official emergency numbers.

## Network

**Operator selection** - Select **Automatic** to set the phone to search for and select one of the available networks, or **Manual** to manually select the network from a list of networks. If the connection to the manually selected network is lost, the phone will sound an error tone and ask you to reselect a network. .

**Cell info display** - Select **On** to set the phone to indicate when it is used in a cellular network based on microcellular network (MCN) technology and to activate cell info reception.

**Glossary:** Roaming agreement - An agreement between two or more network service providers to enable the users of one service provider to use the services of other service providers.

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**Indicators shown in the standby mode:**
- a headset is connected.
- a loopset is connected.
- headset unavailable, connection to a Bluetooth headset has been lost.

## Enhancement settings

Select the enhancement: **Headset**, **Loopset**, **Text phone** (a TTY device), or **Handsfree** (a Bluetooth handsfree device).

- Select **Default profile** to set the profile that you want activated each time you connect a certain enhancement to your phone. See Profiles - setting times, p. '8'.
- Select **Automatic answer** to set the phone to answer an incoming call automatically after five seconds. If the Ringing type is set to **Beep once** or **Silent**, automatic answer is disabled.

# Voice commands

Press and select **Tools**→ **Voice commands**. Voice commands allows you to add, delete, and control voice commands in your phone. Voice commands are recorded the same way as voice tags. See Adding a voice tag to a phone number, p. '26'.

## Adding a voice command to an application

You can have only one voice command per application.

1 Select the application to which you want to add a voice command.
To add a new application to the list, select **Options**→ **New application**.
2 Select **Options** → **Add voice tag**. See Adding a voice tag to a phone number, p. '26'.

# Application manager

Press and select **Tools**→ **Manager**. You can install two types of applications and software to your phone:

- J2ME™ applications based on Java™ technology with the extension .jad or .jar ( ). Do not download PersonalJava™ applications to your phone as they cannot be installed.

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- Other applications and software suitable for the Symbian operating system ( ). The installation files have the .sis extension.

Installation files may be transferred to your phone from a compatible computer, downloaded during browsing, or sent to you in a multimedia message, as an e-mail attachment, or using Bluetooth. You can use Nokia Application Installer in Nokia PC Suite to install an application to your phone or a memory card. If you are using Microsoft Windows Explorer to transfer a file, place the file on a memory card (local disk).

## Installing applications and software

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

- Before installation, select **Options**→ **View details** to view information such as the application type, version number, and the supplier or manufacturer of the application.
- Before installation, select **Options**→ **View certificate** to display the security certificate details of the application. See Certif. management, p. '103'.
- If you install a file that contains an update or repair to an existing application, you can only restore the original application if you have the original installation file or a full back-up copy of the removed software package. To restore the original application, remove the application, and install the application again from the original installation file or the back-up copy.
- The .jar file is required for installing Java applications. If it is missing, the phone may ask you to download it. If there is no access point defined for the application, you will be asked to select one. When you are downloading the .jar file, you may need to enter a user name and password to access the server. You obtain these from the supplier or manufacturer of the application.

1 Open Application manager and scroll to an installation file.
Alternatively, search the phone memory or the memory card, select the application, and press ● to start the installation.
2 Select **Options**→ **Install**.

**Example:** If you have received the installation file as an e-mail attachment, go to your mailbox, open the e-mail, open the Attachments view, scroll to the installation file, and press ● to start installation.

**Icons:**
- .sis application
- Java application
- application is not fully installed
- application is installed on the memory card.

**Tip!** You can also use Nokia Application Installer available in Nokia PC Suite to install applications. See the CD-ROM supplied in the sales package.

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**Tip!** While browsing, you can download an installation file and install it without closing the connection.

Options in the Applications main view: **Install**, **View details**, **Go to Web address**, **View certificate**, **Send**, **Remove**, **App. downloads**, **View log**, **Send log**, **Update**, **Settings**, **Help**, and **Exit**.

During installation, the phone shows information about the progress of the installation. If you are installing an application without a digital signature or certification, the phone displays a warning. Continue installation only if you are sure of the origins and contents of the application.

- To start an installed application, scroll to it, and press (OK).
- To start a network connection and to view extra information about the application, scroll to it, and select **Options**→ **Go to web address**, if available.
- To see what software packages have been installed or removed and when, select **Options**→ **View log**.
- To send your installation log to a help desk so that they can see what has been installed or removed, select **Options**→ **Send log**→ **Via text message**, **Via multimedia**, **Via Bluetooth**, or **Via e-mail** (available only if the correct e-mail settings are in place).

## Removing applications and software

Scroll to a software package, and select **Options**→ **Remove**. Press **Yes** to confirm.

If you remove software, you can only re-install it if you have the original software package or a full back-up of the removed software package. If you remove a software package, you may no longer be able to open documents created with that software.

**Note:** If another software package depends on the software package that you removed, the other software package may stop working. Refer to the documentation of the installed software package for details.

## Application settings

**Software installation** - Select the kind of software you want installed: **On**, **Signed only**, **Off**.

- **Online certif. check** - Select if you want Application manager to check the online certificates for an application before installing it.

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- **Default web address** - Default address used when checking online certificates.

Some Java applications may require a phone call, a message to be sent, or a network connection to be made to a specific access point for downloading extra data or components. In the Applications main view, scroll to an application, and select **Options**→ **Suite settings** to change settings related to that specific application.

## Activation keys – handling copyright protected files

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

Press and select **Tools**→ **Activation keys** to view the digital rights activation keys stored in your phone.

- Valid keys ( ) are connected to one or more media file.
- With expired keys ( ) you have run out of time to use the media file, or the time period for using the file is exceeded. To view the **Expired** activation keys, press .
- To buy more usage time or extend the usage period for a media file, select an activation key, and select **Options**→ **Activate content**. Activation keys cannot be updated if Web service message reception is disabled. See Settings for Web service messages, p. '59'.
- To view which keys are not in use at the moment (**Not used**), press twice. Unused activation keys have no media files connected to them saved in the phone.
- To view detailed information such as the validity status and ability to send the file, select an activation key and press .

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## Transfer – transferring content from another phone

Press and select **Tools**→ **Transfer** to copy contacts, calendar, images, video, and sound clips using Bluetooth from a compatible Series 60 phone such as Nokia 6600 and Nokia 7610 to your Nokia 6638. Offline profile is XXXX .Follow the instructions on the screen.

The copying process goes through the following steps:

1 Open the **Transfer** application. Follow the instructions that appear on the screen.
2 The Data transfer application is sent to the other phone.
3 Install the Transfer application to the other phone. The application is added to the main Menu.
4 The phones need to be paired. For further information on pairing, see Sending data using Bluetooth, Pairing, p. '86'.
5 Select what content you want to be copied to your Nokia 6638.
6 Content is copied from the memory and memory card of the other phone (if available) to your Nokia 6638. Copying time depends on the amount of data to be transferred. You can cancel copying and continue later.

## Device manager – service provider configuration

Press and select Tools→ Dev. mgr.. You may receive server profiles and different configuration settings from your network operator, service provider, or company information management department. These configuration settings may include access point settings for data connections and other settings used by different applications in your phone.

- To connect to a server and receive configuration settings for your phone, select **Start configuration**.

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- To allow or deny receiving of configuration settings from a service provider, select **Enable config.** or **Disable config.**.

## Server profile settings

Contact your service provider for the correct settings.

- **Server name** - Enter a name for the configuration server.
- **Server ID** - Enter the unique ID to identify the configuration server.
- **Server password** - Enter a password to identify your phone to the server.
- **Session mode** - **Bluetooth** or **Web**.
- **Access point** - Select an access point to be used when connecting to the server.
- **Host address** - Enter the URL address of the server.
- **Port** - Enter the port number of the server.
- **User name** and **Password** - Enter your user name and password.
- **Allow configuration** - To receive configuration settings from the server, select **Yes**.
- **Auto-accept all reqs.**. - If you want the phone to ask for confirmation before accepting a configuration from the server, select **No**.

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# Reference information

This section provides information about your phone's batteries, enhancements, chargers, safety guidelines and technical information. Be aware that the information in this section is subject to change as batteries, chargers, and enhancements change.

## Battery information

Your device is powered by a rechargeable battery. The full performance of a new battery is achieved only after two or three complete charge and discharge cycles. The battery can be charged and discharged hundreds of times but it will eventually wear out. When the talk and standby times are noticeably shorter than normal, buy a new battery. Use only Nokia approved batteries, and recharge your battery only with Nokia approved chargers designated for this device.

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

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

Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object such as a coin, clip, or pen causes direct connection of the positive (+) and negative (-) terminals of the battery. (These look like metal strips on the battery.) This might happen, for example, when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 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! Dispose of batteries according to local regulations. Please recycle when possible. Do not dispose as household waste.

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# Battery information

## Nokia battery authentication guidelines

Always use original Nokia batteries for your safety. To check that you are getting an original Nokia battery, purchase it from an authorized Nokia dealer, look for the Nokia Original Enhancements logo on the packaging, and inspect the hologram label using the following steps:

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

**Authenticate hologram**

**1** When looking at the hologram 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 tilt 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.

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

**What if your battery is not 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

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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.

# Care and maintenance

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

- Keep the device dry. Precipitation, humidity and all types of liquids or moisture can contain minerals that will corrode electronic circuits. If your device does get wet, remove the battery and allow the device to dry completely before replacing it.
- Do not use or store the device in dusty, dirty areas. Its moving parts and electronic components can be damaged.
- Do not store the device in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the device in cold areas. When the device returns to its normal temperature, moisture can form inside the device and damage electronic circuit boards.
- Do not attempt to open the device other than as instructed in this guide.
- Do not drop, knock, or shake the device. Rough handling can break internal circuit boards and fine mechanics.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the device.
- Do not paint the device. Paint can clog the moving parts and prevent proper operation.
- Use a soft, clean, dry cloth to clean any lenses (such as camera, proximity sensor, and light sensor lenses).
- Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the device and may violate regulations governing radio devices.

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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# 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 of 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.

## Medical devices

Operation of any radio transmitting equipment, including wireless phones, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions. Switch off your device in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

**PACEMAKERS** Pacemaker manufacturers recommend that a minimum separation of 6 in (15.3 cm) be maintained between a wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. To minimize the potential for interference, persons with pacemakers should

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

If you 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 service provider.

## Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection systems, electronic antiskid (antilock) braking systems, electronic speed control systems, air bag

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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.

## 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 switch 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.

FCC regulations prohibit using your wireless device while in the air. The use of wireless telephones in an aircraft may be dangerous to the operation of the aircraft, disrupt the wireless telephone network, and may be illegal.

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

## Emergency calls

Important: Wireless phones, including this phone, 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 phone for essential communications like medical emergencies.

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## To make an emergency call:

1 If the device is not on, switch it on. Check for adequate signal strength.
2 Press the **End** key as many times as needed to clear the display and ready the device for calls.
3 Key in the official emergency number for your present location. Emergency numbers vary by location.
4 Press the **Call** key.

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

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS 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 adopted by the governments of the USA through the Federal Communications Commission (FCC) and Canada through Industry Canada (IC). 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 include a substantial safety margin designed to assure the safety 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 adopted by the USA and Canada is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The limit incorporates a substantial margin of safety to give additional protection for the public to account for any variations in measurements. 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 reported to the FCC and IC for this device type when tested for use at the ear is 1.20 W/kg, and when properly worn on the body is 0.84 W/kg. SAR information on file with the FCC can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on FCC ID QMNRM-18. SAR values reported in other countries may vary depending



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on differences in reporting and testing requirements and the network band. Additional SAR information may be provided under product information at www.nokia.com.

## Technical information

| Feature | Specification | Feature | Specification |
|---|---|---|---|
| Dimensions | Width 2.36in (60 mm)<br>Length 4.33in (110 mm)<br>Depth .90 in (23 mm) | Frequency range (Tx) | PCS: 1851.25–1909.75 MHz<br>Cellular: 824.37–848.37 MHz |
| Weight | 4.58 oz (130 g)<br>with BL-6C Li-Ion Battery | Frequency range (Rx) | PCS: 1931.25–1988.75 MHz<br>Cellular: 869.70–893.37 MHz |
| Wireless networks | CDMA 800 and 1900 | GPS frequency<br>Bluetooth | 1575.42 MHz |
| Volume | 125 cc | | |

## Battery information

This section provides information about battery charging times with the Travel Charger (ACP-12) and the Standard Travel Charger (ACP-7), talk-times, and standby times. Be aware that the information in this section is subject to change. For more information, contact your service provider.

**Charging times** The following charging times are approximate with the BL-6C 1070 mAh Li-Ion battery:
**Travel Charger (ACP-12):** 1 hour 35 minutes

**Standard Travel Charger (ACP-7):** 2 hours 45 minutes

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**Talk and standby times** Operation times are estimates only and depend on signal strength, phone use, network conditions, features used, battery age and condition (including charging habits), temperatures to which the battery is exposed, and many other factors.

Talk time:
Standby time:

**Note:** Talk time and standby times may vary among service providers. Check with your service provider for more information.

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## Nokia One-Year Limited Warranty

Nokia Inc. ("Nokia") warrants that this cellular phone ("Product") is free from defects in material and workmanship that result in Product failure during normal usage, according to the following terms and conditions:

**1** The limited warranty for the Product extends for ONE (1) year beginning on the date of the purchase of the Product. This one year period is extended by each whole day that the Product is out of your possession for repair under this warranty.

**2** The limited warranty extends only to the original purchaser ("Consumer") of the Product and is not assignable or transferable to any subsequent purchaser/end-user.

**3** The limited warranty extends only to Consumers who purchase the Product in the United States of America.

**4** During the limited warranty period, Nokia will repair, or replace, at Nokia's sole option, any defective parts, or any parts that will not properly operate for their intended use with new or refurbished replacement items if such repair or replacement is needed because of product malfunction or failure during normal usage. No charge will be made to the Consumer for any such parts. Nokia will also
pay for the labor charges incurred by Nokia in repairing or replacing the defective parts. The limited warranty does not cover defects in appearance, cosmetic, decorative or structural items, including framing, and any non-operative parts. Nokia's limit of liability under the limited warranty shall be the actual cash value of the Product at the time the Consumer returns the Product for repair, determined by the price paid by the Consumer for the Product less a reasonable amount for usage. Nokia shall not be liable for any other losses or damages. These remedies are the Consumer's exclusive remedies for breach of warranty.

**5** Upon request from Nokia, the Consumer must prove the date of the original purchase of the Product by a dated bill of sale or dated itemized receipt.

**6** The Consumer shall bear the cost of shipping the Product to Nokia in Melbourne, Florida. Nokia shall bear the cost of shipping the Product back to the Consumer after the completion of service under this limited warranty.

**7** The Consumer shall have no coverage or benefits under this limited warranty if any of the following conditions are applicable:

**a)** The Product has been subjected to abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of Nokia, including damage caused by shipping.

**b)** The Product has been damaged from external causes such as collision with an object, or from fire, flooding, sand, dirt, windstorm, lightning, earthquake or damage from exposure to weather conditions, an Act of God, or battery leakage, theft,

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blown fuse, or improper use of any electrical source, damage caused by computer or internet viruses, bugs, worms, Trojan Horses, cancelbots or damage caused by the connection to other products not recommended for interconnection by Nokia.

**c)** Nokia was not advised in writing by the Consumer of the alleged defect or malfunction of the Product within fourteen (14) days after the expiration of the applicable limited warranty period.

**d)** The Product serial number plate or the enhancement data code has been removed, defaced or altered.

**e)** The defect or damage was caused by the defective function of the cellular system or by inadequate signal reception by the external antenna, or viruses or other software problems introduced into the Product.

**8** Nokia does not warrant uninterrupted or error-free operation of the Product. If a problem develops during the limited warranty period, the Consumer shall take the following step-by-step procedure:

**a)** The Consumer shall return the Product to the place of purchase for repair or replacement processing.

**b)** If "a" is not convenient because of distance (more than 50 miles) or for other good cause, the Consumer shall ship the Product prepaid and insured to:

Nokia Inc., Attn: Repair Department
795 West Nasa Blvd.
Melbourne, FL 32901

**c)** The Consumer shall include a return address, daytime phone number and/or fax number, complete description of the problem, proof of purchase and service agreement (if applicable). Expenses related to removing the Product from an installation are not covered under this limited warranty.

**d)** The Consumer will be billed for any parts or labor charges not covered by this limited warranty. The Consumer will be responsible for any expenses related to reinstallation of the Product.

**e)** Nokia will repair the Product under the limited warranty within 30 days after receipt of the Product. If Nokia cannot perform repairs covered under this limited warranty within 30 days, or after a reasonable number of attempts to repair the same defect, Nokia at its option, will provide a replacement Product or refund the purchase price of the Product less a reasonable amount for usage. In some states the Consumer may have the right to a loaner if the repair of the Product takes more than ten (10) days. Please contact the Customer Service Center at Nokia at the telephone number listed at the end of this warranty if you need a loaner and the repair of the Product has taken or is estimated to take more than ten (10) days.

**f)** If the Product is returned during the limited warranty period, but the problem with the Product is not covered under the terms and conditions of the limited warranty, the Consumer will be notified and given an estimate of the charges the Consumer must pay to have the Product repaired, with all shipping charges billed to the Consumer. If the estimate is refused,

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the Product will be returned freight collect. If the Product is returned after the expiration of the limited warranty period, Nokia's normal service policies shall apply and the Consumer will be responsible for all shipping charges.

**9** You (the Consumer) understand that the product may consist of refurbished equipment that contains used components, some of which have been reprocessed. The used components comply with Product performance and reliability specifications.

**10** ANY IMPLIED WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR USE, SHALL BE LIMITED TO THE DURATION OF THE FOREGOING LIMITED WRITTEN WARRANTY. OTHERWISE, THE FOREGOING LIMITED WARRANTY IS THE CONSUMER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. NOKIA SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF ANTICIPATED BENEFITS OR PROFITS, LOSS OF SAVINGS OR REVENUE, LOSS OF DATA, PUNITIVE DAMAGES, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT OR FACILITIES, DOWNTIME, THE CLAIMS OF ANY THIRD PARTIES, INCLUDING CUSTOMERS, AND INJURY TO PROPERTY, RESULTING FROM THE PURCHASE OR USE OF THE PRODUCT OR ARISING FROM BREACH OF THE WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL OR EQUITABLE THEORY, EVEN IF NOKIA KNEW OF THE LIKELIHOOD OF SUCH DAMAGES. NOKIA SHALL NOT BE LIABLE FOR DELAY IN RENDERING SERVICE UNDER THE LIMITED WARRANTY, OR LOSS OF USE DURING THE PERIOD THAT THE PRODUCT IS BEING REPAIRED.

**11** Some states do not allow limitation of how long an implied warranty lasts, so the one year warranty limitation may not apply to you (the Consumer). Some states do not allow the exclusion or limitation of incidental and consequential damages, so certain of the above limitations or exclusions may not apply to you (the Consumer). This limited warranty gives the Consumer specific legal rights and the Consumer may also have other rights which vary from state to state.

**12** Nokia neither assumes nor authorizes any authorized service center or any other person or entity to assume for it any other obligation or liability beyond that which is expressly provided for in this limited warranty including the provider or seller of any extended warranty or service agreement.

**13** This is the entire warranty between Nokia and the Consumer, and supersedes all prior and contemporaneous agreements or understandings, oral or written, relating to the Product, and no representation, promise or condition not contained herein shall modify these terms.

**14** This limited warranty allocates the risk of loss or damage to the Product between the Consumer and Nokia. The allocation is recognized by
the Consumer and is reflected in the purchase price.

**15** Any action or lawsuit for breach of warranty must be commenced within eighteen (18) months following purchase of the Product.

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**16** Questions concerning this limited warranty may be directed to:
Nokia Inc.
Attn: Customer Service
7725 Woodland Center Blvd., Ste. 150
Tampa, FL 33614
Telephone: 1-888-NOKIA-2U (1-888-665-4228)
Facsimile: (813) 249-9619
TTY/TDD Users Only: 1-800-24-NOKIA (1-800-246-6542)

**17** The limited warranty period for Nokia supplied attachments and accessories is specifically defined within their own warranty cards and packaging.

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# Appendix A Message from the CTIA (Cellular Telecommunications & Internet Association) to all users of mobile phones

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Safety is the most important call you will ever make.

## A Guide to Safe and Responsible Wireless Phone Use

Tens of millions of people in the U.S. today take advantage of the unique combination of convenience, safety and value delivered by the wireless telephone. Quite simply, the wireless phone gives people the powerful ability to communicate by voice—almost anywhere, anytime—with the boss, with a client, with the kids, with emergency personnel or even with the police. Each year, Americans make billions of calls from their wireless phones, and the numbers are rapidly growing. But an important responsibility accompanies those benefits, one that every wireless phone user must uphold. When driving a car, driving is your first responsibility. A wireless phone can be an invaluable tool, but good judgment must be exercised at all times while driving a motor vehicle—whether on the phone or not.The basic lessons are ones we all learned as teenagers. Driving requires alertness, caution and courtesy. It requires a heavy dose of basic common sense—keep your head up, keep your eyes on the road, check your mirrors frequently and watch out for other drivers. It requires obeying all traffic signs and signals and staying within the speed limit. It means using seatbelts and requiring other passengers to do the same. But with wireless phone use, driving safely means a little more. This brochure is a call to wireless phone users everywhere to make safety their first priority when behind the wheel of a car. Wireless telecommunications—keeping us in touch, simplifying our lives, protecting us in emergencies and providing opportunities to help other in need. When it comes to the use of wireless phones, safety is your most important call.

## Wireless Phone "Safety Tips"

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

Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.

2 When available, use a hands-free device. A number of hands-free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.

3 Position your wireless phone within easy reach. Make sure you place your wireless phone within easy reach and where you can grab it without removing your eyes from

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the road. If you get an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.

4 Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.

5 Do not take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a "to do" list while driving a car, you are not watching where you are going. It's common sense. Don't get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.

6 Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip—dial only a few numbers, check the road and your mirrors, then continue.

7 Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix—they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.

8 Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations—with your phone at your side, help is only three numbers away. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!

9 Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a "Good Samaritan" in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency numbers you would want others to do for you.

10 Call roadside assistance or a special wireless nonemergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you still can use your wireless phone to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

Careless, distracted individuals and people driving irresponsibly represent a hazard to everyone on the road. Since 1984, the Cellular Telecommunications Industry Association and the wireless industry have conducted educational outreach to inform wireless phone users of their responsibilities as safe drivers and good citizens. As we approach a new century, more and more of us will take advantage of the benefits of wireless telephones. And, as we take to the roads, we all have a responsibility to drive safely.The wireless industry reminds you to use your phone safely when driving.For more information, please call 1-888-901-SAFE.

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

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# Message from the FDA

**The U.S. Food and Drug Administration (FDA) provides the following consumer information about wireless phones.**

See http://www.fda.gov/cellphones/ for updated information.

Do wireless phones pose a health hazard?

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

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

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

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

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

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

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

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

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

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

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

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF). FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues. FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations.

CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

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

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

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

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

What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and

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teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

Do hands-free kits for wireless phones reduce risks from exposure to RF emissions?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the absorption of RF energy in the head because the phone, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones marketed in the U.S. are required to meet safety requirements regardless of whether they are used against the head or against the body. Either configuration should result in compliance with the safety limit.

Do wireless phone accessories that claim to shield the head from RF radiation work?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that accessories that claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone. Studies have shown that these products generally do not work as advertised. Unlike "hand-free" kits, these so-called "shields" may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption. In February 2002, the Federal Trade Commission (FTC) charged two companies that sold devices that claimed to protect wireless phone users from radiation with making false and unsubstantiated claims. According to FTC, these defendants lacked a reasonable basis to substantiate their claim.

How does FCC Audit Cell Phone RF?

After FCC grants permission for a particular cellular telephone to be marketed, FCC will occasionally conduct “post-grant” testing to determine whether production versions of the phones are being produced to conform with FCC regulatory requirements. The manufacturer of a cell phone that does not meet FCC’s regulatory requirements may be required to remove the cell phone from use and to refund the purchase price or provide a replacement phone, and may be subject to civil or criminal penalties. In addition, if the cell phone presents a risk of injury to the user, FDA may also take regulatory action. The most important post-grant test, from a consumer’s perspective, is testing of the RF emissions of the phone. FCC measures the Specific Absorption Rate (SAR) of the phone, following a very rigorous testing protocol. As is true for nearly any scientific measurement, there is a possibility that the test measurement may be less than or greater than the actual RF emitted by the phone. This difference between the RF test measurement and actual RF emission is because test measurements are limited by

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instrument accuracy, because test measurement and actual use environments are different, and other variable factors. This inherent variability is known as "measurement uncertainty." When FCC conducts post-grant testing of a cell phone, FCC takes into account any measurement uncertainty to determine whether regulatory action is appropriate. This approach ensures that when FCC takes regulatory action, it will have a sound, defensible scientific basis.

FDA scientific staff reviewed the methodology used by FCC to measure cell phone RF, and agreed it is an acceptable approach, given our current understanding of the risks presented by cellular phone RF emissions. RF emissions from cellular phones have not been shown to present a risk of injury to the user when the measured SAR is less than the safety limits set by FCC (an SAR of 1.6 w/kg). Even in a case where the maximum measurement uncertainty permitted by current measurement standards was added to the maximum permissible SAR, the resulting SAR value would be well below any level known to produce an acute effect. Consequently, FCC's approach with measurement uncertainty will not result in consumers being exposed to any known risk from the RF emitted by cellular telephones.

FDA will continue to monitor studies and literature reports concerning acute effects of cellular phone RF and concerning chronic effects of long-term exposure to cellular telephone RF (that is, the risks from using a cell phone for many years). If new information leads FDA to believe that a change to FCC's measurement policy may be appropriate, FDA will contact FCC and both agencies will work together to develop a mutually-acceptable approach.

Updated July 29, 2003

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