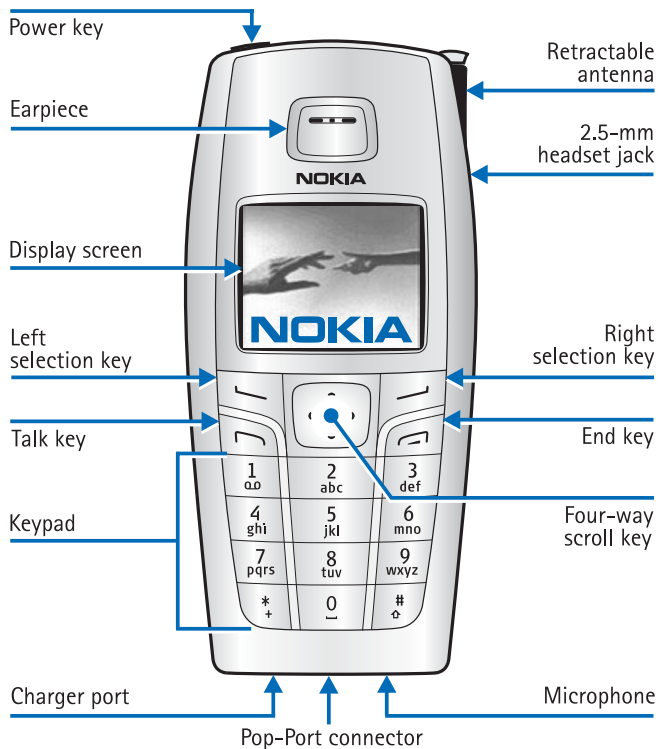


Nokia 6011i User Guide



Part No. XXXXXXX, Issue No. 1

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Export Controls

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

FCC/Industry Canada Notice

Your phone 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.

Contents

For your safety

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



SWITCH ON SAFELY

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



ROAD SAFETY COMES FIRST

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



INTERFERENCE

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



SWITCH OFF IN HOSPITALS

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



SWITCH OFF IN AIRCRAFT

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



SWITCH OFF WHEN REFUELING

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



SWITCH OFF NEAR BLASTING

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



USE SENSIBLY

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



QUALIFIED SERVICE

Only qualified personnel may install or repair this product.



ENHANCEMENTS AND BATTERIES

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



WATER-RESISTANCE

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



BACKUP COPIES

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



CONNECTING TO OTHER DEVICES

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



EMERGENCY CALLS

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

Welcome

Congratulations on your purchase of the Nokia 6011i 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. To personalize your phone, you can set your favorite ring tones or select an Xpress-on™ color cover.

■ About your device

The Nokia 6011i wireless phone described in this guide is approved for use on the CDMA 1900 network.

Contact your service provider for more information about networks.

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



Warning: To use any features in this device, other than the alarm clock, the 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 in 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 calendar notes, 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 photos, images, tones in gallery, text messages, and applications may have a certain memory specially allotted to them in addition to the memory shared with other features.

■ 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 or to have your phone repaired.

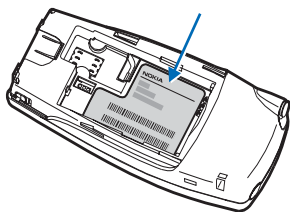
■ Get help

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. See *Remove the back cover*, 14 and *Remove the battery*, 14 for more information.



Contact Nokia

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

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.
601 Westney Road South
Ajax, Ontario L1S 4N7
Tel: 1-888-22-NOKIA (1-888-226-6542)
Fax: 1-905-427-1070

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.

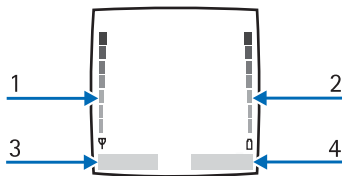
Accessibility solutions

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.

1. Phone at a glance

■ The start screen

The start screen is home base and indicates that your phone is in idle mode.



Signal strength (1)—A higher bar indicates a stronger network signal.

Battery level (2)—A higher bar indicates more charge in the battery.

Menu (3)—Press the **Left selection** key to select this option.

Contacts (4)—Press the **Right selection** key to select this option.

■ Quick keys

At the start screen, the **Four-way scroll** key takes you to frequently accessed menus:

Scroll up key—Go to the contacts list.

Scroll right key—View the calendar. This key can be set to perform different functions depending on your network service.

Scroll down key—Go to the contacts list.

Scroll left key—Quickly create a text message.

■ Indicators and icons

Depending on your wireless service provider and the model number of your phone, some or all of the following indicators and icons may appear on the start screen:

Icon	Indicates...
	You have new text or picture messages. See Text messages, 30.
	You have new voice messages. See Voice messages, 33.
	Your phone keypad is locked. See Keyguard, 20.
	Your phone is set to the silent profile. See Profiles (Menu 3), 44.
	Your phone is on vibrate mode. See Customize a profile, 44.
	The alarm clock is set to on. See Alarm clock, 73.
	The countdown timer is running. See Countdown timer, 78.
	The stopwatch timer is running in the background. See Stopwatch, 79.
	Integrated hands-free is active. See Using the loudspeaker, 19.
	The timed profile is selected. See Profiles (Menu 3), 44.
   or 	An enhancement is connected to the phone. See Enhancement settings, 54.
 or 	Voice privacy encryption is active (or is not active) in the network. See Voice privacy, 59
 or 	Location info sharing is set to Emergency or On. See Location info sharing, 46.

Icon	Indicates...
	You are in a digital network. See Network services, 6.
	You are in an analog network. See Network services, 6.
	You are in a 1XRTT network. See Network services, 6.
	You are roaming outside your home network. See Roaming options, 60.

■ Get the most out of this guide

The following sections illustrate the various components of your phone. Familiarize yourself with these sections to help you understand the instructions that follow.

This guide uses certain terms for the steps that you are asked to perform.

- **Press** means to press and release a key quickly. For example, press 7 means press the key on the keypad that is labeled with the number 7 and the letters "pqrs".
- **Press and hold** means to press and hold a key for 2–3 seconds; then release the key.
- **Selection keys** are used to select a menu option. To select an option, press the selection key below the menu item on the phone screen.
- **Scroll keys** are used to move up, down, left, or right in the menus.
- **Talk and End keys:** Press the **Talk** key to place a call or to answer an incoming call. Press the **End** key to end a call or press and hold to return to the idle screen.

■ Phone menus

Phone features are grouped according to function and are accessed through the main menus. Each main menu contains submenus and lists from which you can select or view items and customize your phone features. You can access these menus and submenus by using the scroll method or by using a shortcut.



Note: Some features may not be available, depending on your network. For more information, contact your wireless provider.

The scroll method

1. At the start screen, select *Menu*, and scroll up and down through the main menus using the **Four-way scroll** key.



As you scroll through the menus, the menu number appears in the upper right corner of the display. Below the number is a scroll bar with a tab that moves up or down on the right side of the display screen as you scroll through the menus, providing a visual representation of your current position in the menu structure.

2. When you arrive at a menu, press *Select* (the **Left selection** key) to enter submenus.
 - Press *Back* (the **Right selection** key) to return to the previous menu.
 - Press the **End** key to return to the start screen from any menu or submenu.

Shortcuts

You can go directly to almost any menu or submenu, as well as activate most features by using a shortcut.

At the start screen, select *Menu*; then within 3 seconds, press the key or keys associated with the menu function you would like to view or activate.

For example, to select the *Meeting* profile, select *Menu* 3-3-1 from the start screen (*Menu* > 3*Profiles* > 3*Meeting* > 1*Select*). After a brief pause, the *Meeting* profile is activated.

In-phone help

Many features have brief descriptions (help text) which can be viewed on the display. To view these descriptions, scroll to a feature, and wait for about 10 seconds. Press *More* to view all of the description, or press *Back* to exit.

In order to view the descriptions, you must first activate help text.

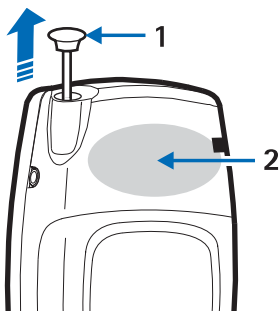
At the start screen, select *Menu* > *Settings* > *Phone settings* > *Help text activation* > *On* or *Off*.

2. Set up your phone

■ Antenna

Your phone has two antennas:

- The retractable antenna is active when fully extended (1).
- The internal antenna is always active (2).



Your device has an internal antenna located towards the top of the phone. Hold the phone as you would any other telephone with the antenna area pointed up and over your shoulder.



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

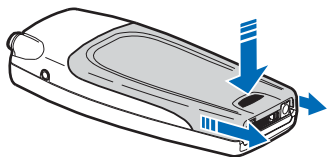


■ Battery

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

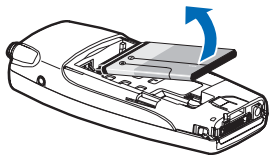
Remove the back cover

1. With the back of the phone facing you, push down on the back cover release button.
2. Slide the back cover toward the bottom of the phone and remove.



Remove the battery

After you have removed the back cover, insert your finger into the finger grip, and lift the battery from its compartment.

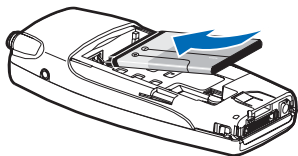


Replace the battery

1. Position the battery so the positive and negative indicators on the battery match up with the positive and negative indicators on the phone.

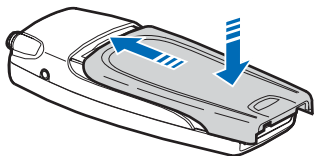
The battery label should be facing away from the phone.

2. Insert the battery, gold-colored contact end first, into the battery slot.
3. Push down on the other end of the battery to snap the battery into place.



Replace the back cover

Slide the back cover toward the top of the phone until the back cover is securely in place.

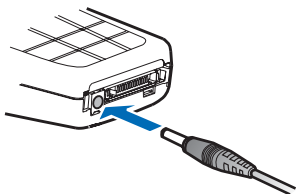


Charge the battery

1. Plug the charger into a standard ac outlet.

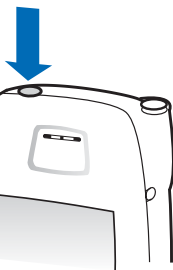
2. Insert the charger output plug into the round jack at the bottom end of the phone.

After a few seconds, the battery indicator in the display starts to scroll from bottom to top. If the battery is completely discharged, it may take a few minutes before the charging indicator appears on the display or before any calls can be made.



■ Turn your phone on or off

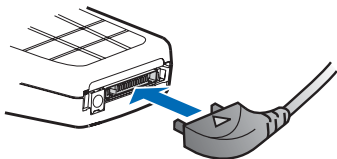
1. To turn your phone on or off, press and hold the **Power** key on top of the phone for at least 3 seconds.
2. Enter the security code, or PIN code, if necessary, and press *OK*.



■ Connect the headset

A compatible headset, such as HS-5, may be purchased with your phone or separately as an enhancement. (See Enhancements, 84 for information.)

1. Plug the headset connector into the Pop-Port™ connector at the bottom end of your phone. The  icon appears on the start screen.
2. Position the headset on your ear.



With the headset connected, you can make, answer, and end calls as usual.

- Use the keypad to enter numbers.
- Press the **Talk** key to place a call.
- Press the **End** key to end a call.

You can also plug a compatible headset, such as the HS-9 Universal Headset, into the 2.5mm headset jack on the side of your phone to allow hands-free operation. (See Enhancements, 84 for information.)

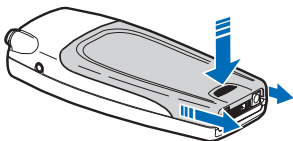
■ Change the Xpress-on™ covers



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

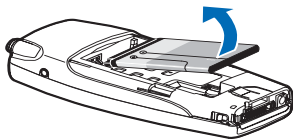
Remove the back cover

With the back of the phone facing you, push down on the back cover release button, and slide the back cover toward the bottom of the phone.



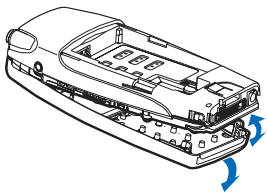
Remove the battery

After you have removed the back cover, insert your finger into the finger grip, and lift the battery from its compartment.



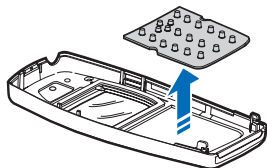
Remove the front cover

Gently pull the bottom of the front cover away from the rest of the phone.

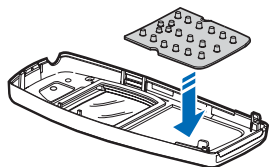


Install the keymat and front cover

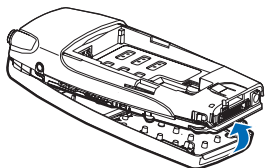
1. Remove the keymat from the old front cover.



2. Place the keymat into the new front cover.



3. Press the front cover and keymat against the phone, and snap the front cover into place.

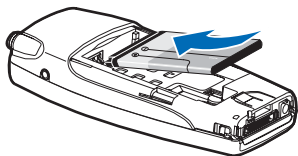


Warning: Always replace the front cover before replacing the battery and the back cover. Replacing the back cover first may cause damage to your phone.

Replace the battery

1. Position the battery so the positive and negative indicators on the battery match up with the positive and negative indicators on the phone.

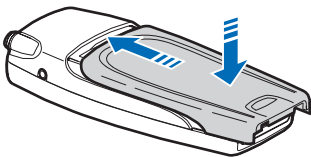
The battery label should be facing away from the phone.



2. Insert the battery, gold-colored contact end first, into the battery slot.
3. Push down on the other end of the battery to snap the battery into place.

Replace the back cover

1. Verify that the front cover and battery have already been replaced.
2. Slide the back cover toward the top of the phone until the back cover is securely in place.



■ Make a call



Note: Before making or receiving a call, fully extend the retractable antenna.

Using the keypad

1. Enter the phone number (including the area code), and press the **Talk** key. (To delete a character to the left of the cursor, press *Clear*.)
2. Press the **End** key to end the call, or *End call* to cancel the call attempt.

Using the contacts list

1. At the start screen, scroll up or down to the entry you wish to view.
2. Press the **Talk** key to make the call, or press *Details* to view details of the entry.

Using the last dialed number

1. At the start screen, press the **Talk** key to display the last 20 numbers dialed.
2. Scroll to the number (or name) you wish to redial, and press the **Talk** key.

Conference calling

Conference calling is a network service that allows you to take part in a conference call with two other participants.

1. Make a call to the first participant.
2. With the first participant on the line, select *Options > New call*.
3. Enter the phone number of the second participant, or press *Search* to retrieve a number from the contacts list.
4. Press *Flash*.

The first participant is put on hold.

5. When the second participant picks up, press the **Talk** key to connect the calls.
6. To end the conference call, press *Options > End all calls*, or press the **End** key.

■ Answer calls

Answer or silence an incoming call

1. Press the **Talk** key or *Answer* to answer the call.
2. Press the **End** key or *Silence* to mute the ringing tone; then press *Answer* to answer the call, or do nothing, and the call is eventually diverted to voicemail.

Answer a call with the keypad locked

To answer a call with the keypad locked, simply press the **Talk** key. During the call, all features function as normal. When you end or reject the call, the keypad automatically relocks. See Keyguard, 20 for details.

When the keypad is locked, calls still may be possible to the official emergency number programmed into your phone.

Adjust the earpiece volume

While in a call, scroll right or left to adjust the volume of the earpiece.

When adjusting the volume, a bar chart appears in the display indicating the volume level.

Using the loudspeaker

You can use your phone as a loudspeaker during a call. Do not hold the phone to your ear during the loudspeaker operation. While in a call:

- To activate the loudspeaker, press *Loudsp.*
- To deactivate the loudspeaker during a call, press *Handset*.

The loudspeaker is deactivated automatically when a call (or a call attempt) ends or when certain enhancements are connected.

Options during a call

Many of the options that you can use during a call, are network services. Check with your wireless service provider for more information.

1. Press *Options* during a call to display the following options:

Mute/Unmute—Silence your end of the call.

Loudspeaker/Handset—Activate or deactivate the loudspeaker while in a call.

New call—Initiate a conference call. See Conference calling, 18 for information.

Save—Save the number you dialed to your contacts list.

Add to name—Save the number you dialed to a contact already in the contacts list.

End all calls—Disconnect from all active calls.

Touch tones—Enter the numbers, and press *Tones* to send the numbers as tones.

Contacts—View the contacts list.

Menu—View the phone menu.

2. Scroll to an option, and press *Select* to activate the option or enter its submenu.

■ Keyguard

With keyguard, you can lock the keypad to prevent keys from being pressed accidentally. Remember to lock your phone keypad to prevent accidental calls. If the keypad is locked, it unlocks when you receive a call. After the call, the lock automatically reactivates.

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

Lock the keypad

Select *Menu*; then press * within 2 seconds.

Unlock the keypad

Select *Unlock*; then press * within two seconds.

3. Text entry

You can use two methods for entering text and numbers:

- Standard mode is the only way to enter text into the contacts list and to rename caller groups.
- Predictive text input is a quick and easy method for writing messages or creating a calendar note.

■ Standard mode

Text (Abc)

- Press *Clear* to backspace the cursor and delete a character.
- Press and hold *Clear* to backspace continuously and delete characters.
- Press a key once to insert the first letter on the key, twice for the second letter, etc. If you pause briefly, the last letter in the display is accepted, and your phone awaits the next entry.
- Press 0 to enter a space, thereby accepting a completed word.
- Press 1 as many times as necessary to scroll through a list of commonly used characters.
- Press * to display a complete list of special characters.
- Press # to switch predictive text on or off and to use predictive text in various modes. As you press #, the following icons (not the descriptions) appear in the upper left of the display screen:

 **ABC** Uppercase text: standard mode is on.

 **abc** Lowercase text: standard mode is on.

 **Abc** Sentence case text: standard mode is on.

Numbers (123)

To switch to 123 mode from Abc mode, press and hold # at any message entry screen until the icon in the upper left corner of the display switches from Abc to 123 (or vice versa).

Punctuation and special characters

While at any text entry screen, press * to display special characters (press and hold * if predictive text is on). Press * again to cycle through all available characters. You can navigate through the list of special characters by using the **Four-way scroll** key. Once a character is highlighted, press *Insert* to insert the character into your message.

■ Predictive text input

Predictive text input allows you to write messages quickly using your keypad and the built-in dictionary. It is much faster than the standard mode method, because for each letter, you only press the corresponding key on your keypad once.

Activate/deactivate

At any text entry screen, press and hold *Options*. Predictive text is turned on and off, depending on its previous mode.

OR

1. At any text entry screen, select *Options* > *Predictive text*.
2. Scroll to the language of your choice, and press *Select*.

Text entry

The illustration below simulates your display each time a key is pressed. For example, to write Nokia with predictive text on and with the English dictionary selected, press each of the following keys once:

6 6 5 4 2



- Press 0 to enter a space, and begin writing the next word.

- If a displayed word is not correct, press * to see other matches. To return to the previous word in the list of matches, press *Previous*.
- If ? appears after a word, press *Spell* to add the word to the dictionary.
- Press 1 to insert a period into your message.
- Press and hold * to display special characters. Press * again to cycle through all available characters.
- Press # to switch predictive text on or off and to use predictive text in various modes. As you press #, the following icons (not the descriptions) appear in the upper left of the display screen:

 **Abc** Sentence case text: predictive text is on.

 **abc** Lowercase text: predictive text is on.

 **ABC** Uppercase text: predictive text is on.

4. Contacts list

The contacts list can hold up to 250 contacts with multiple numbers and text notes for each contact. The amount of numbers and text entries that you can save may vary, depending on length and the total number of entries in the contacts list.

■ Add new contacts

Save a name and number

1. At the start screen, use the keypad to enter the phone number you wish to save.
2. Select *Options* > *Save*.
3. Enter the name, and press *OK*.

Save (only) a number

1. At the start screen, use the keypad to enter the phone number you wish to save.
2. Press and hold *Options*.

Save an entry

1. At the start screen, select *Contacts* > *Add new*.
2. Enter the name, and press *OK*.
3. Enter the phone number, and press *OK* > *Done*.

Save multiple numbers and text items

You can save different types of phone numbers and short text items per name to the contacts list. The first number you save for any entry is automatically set as the default, or primary number, but the primary number can always be changed.

1. At the start screen, scroll up or down to the entry to which you wish to add a phone number or text item.
2. Select *Details* > *Options* > *Add number* or *Add detail*.

If you selected *Add number*, select *General*, *Mobile*, *Home*, *Work*, or *Fax*.

If you selected *Add detail*, select *E-mail*, *Web address*, *Street addr.*, or *Note*.

3. Enter the number or text for the type you have selected, and press *OK*.
4. To change a number type (*General*, *Mobile*, *Home*, *Work*, or *Fax*), select *Change type* in the options list.

You can also change which phone number is the default (primary) number for the contact entry.

1. At the start screen, scroll down to select the number you wish to change, and press *Details*.
2. Scroll to the number you wish to set as default, and select *Options > As primary no.*

Set up voice tags

For more information on setting up voice tags and other voice features, see Voice (Menu 7), 66.

Caller groups

You can add contacts list entries to any of five caller groups, and assign a unique ringing tone or graphic to that group. This enables you to identify callers from the group by their unique ringing tone or graphic.

Setup a group

1. At the start screen, scroll down to display a list of entries in your contacts list.
2. Scroll to a name you would like to add to a caller group, and press *Details*.
3. Select *Options > Caller groups*.
4. Scroll to the caller group to which you would like to add the name, and press *Select*.

Options

1. At the start screen, select *Contacts > Caller groups*.
Family, *VIP*, *Friends*, *Business*, and *Other* are the available caller groups.
2. Scroll to highlight a group, and press *Select* to display the following caller group options:
Rename group—Rename the group to your preference.
Group ringing tone—Set the ringing tone for the group.

Group logo—Turn the graphic for the caller group on or off or view the graphic.

Group members—Add or remove members from the caller group.

Set up 1-touch dialing

You can associate any entry in the contacts list with a key from 2–9; then dial those entries by pressing and holding the assigned key. See 1-touch dialing, 47 to activate or deactivate 1-touch dialing.

Assign a key to 1-touch dialing

1. At the start screen, select *Contacts > 1-touch dialing*.
2. Scroll to an (*empty*) 1-touch dialing slot, and press *Assign*.
3. Enter the number (including the area code), and press *OK*, or press *Search* to retrieve a number from the contacts list.
4. Enter a name for the number, and press *OK*.

If 1-touch dialing is off, the phone displays a prompt asking if you would like to turn 1-touch dialing on.

5. Press *Yes* to activate 1-touch dialing.

Change 1-touch dialing numbers

1. At the start screen, select *Contacts > 1-touch dialing*.
2. Scroll to the 1-touch dialing entry you wish to change, and select *Options > Change*.
3. Enter the new number; or press *Search* to retrieve a number from the contacts list, and press *OK*.
4. Enter a name for the entry, and press *OK*.

Delete 1-touch dialing numbers

1. At the start screen, select *Contacts > 1-touch dialing*.
2. Scroll to the 1-touch dialing location you wish to delete, and press *Options*.
3. Select *Delete > OK*.

■ Edit contacts list entries

1. Scroll to highlight the entry you would like to edit, and press *Details*.

2. Scroll to the phone number or detail you wish to edit, and press *Options*.
3. Select one of the following options:

Add voice tag—Add a voice tag to the contact.

Edit number—Edit an existing phone number of the contact.

Delete number—Delete a phone number from the contact.

Use number—Edit the number and associate a name with the number.

View—View the details of the contact.

Change type—Change the number type to *General*, *Mobile*, *Home*, *Work*, or *Fax* or the detail type to *E-mail*, *Web address*, *Street addr.*, or *Note*

As primary no.—Change the default number of the contact.

Add number—Add a number to the contact.

Add detail—Add an address or note to the contact.

Caller groups—Add the contact to an existing caller group.

Custom tone—Add a custom ring tone to the contact.

Send bus. card—Send the contact as a business card to another phone.

Send message—Create and send the contact a message.

1-touch dialing—Add the contact to your 1-touch dialing list.

Edit name—Edit the name of the contact.

View name—View the name of the contact.

Delete—Delete the entire contact entry from your contacts list.

4. Edit the option to your preference, and press *OK*.

■ Delete contacts list entries

1. At the start screen, select *Contacts > Delete*.
2. To delete individual entries, select *One by one*.
3. Scroll to the entry you wish to delete, and select *Delete > OK* to confirm.
4. To delete the entire contents of your contacts list, select *Delete all > OK*.
5. Enter the security code, and press *OK*. See Security code, 59 for more information.

■ View the contacts list

1. At the start screen, select *Contacts*. The following options are displayed:
 - Search*—Find a name or select from a list.
 - Add new*—Add a contact to your contacts list.
 - Edit name*—Edit an existing name.
 - Delete*—Delete a name and its associated numbers.
 - Add number*—Add a number to an existing name.
 - Settings*—Change the contacts list view or check the memory status of your phone.
 - 1-touch dialing*—View or modify the list of 1-touch dialing numbers.
 - Voice tags*—Attach, listen to, or modify a voice tag to a contact in the contacts list.
 - My number*—View your own phone number.
 - Caller groups*—View and edit the properties for any of the caller groups, including *Family*, *VIP*, *Friends*, *Business*, or *Other*.
2. Scroll to an item, and press *Select* to activate the feature or enter its submenu.

Search for a name

1. At the start screen, scroll down to display the contents of your contacts list.
2. Press the key which corresponds to the first letter of the name for which you are performing a search.
3. Scroll up and down to select a contact, and press *Details* to view the details.

Configure settings

You can select how the contacts appear in your contacts list and view the amount of memory used or available in your phone.

1. At the start screen, select *Contacts* > *Settings*.
2. Select one of the following options:
 - Scrolling view*—Select *Name list*, or *Name and no. view*.

Memory status—View the amount of phone memory used as well as the amount of phone memory available



Note: For more information on used and available memory, see *Shared memory*, 7.

■ Send and receive contacts (business cards)

You can send and receive an entry in your contacts list using text messaging, if supported by your wireless provider.

Send a business card

You can send a business card as a text message to a compatible phone or other handheld device.

1. Highlight the entry from the contacts list that you wish to send, and select *Details > Options > Send bus. card > Via text msg. > Primary no. or All details*.



Note: The *Primary no.* or *All details* options appear only if you have more than one number or detail saved to the contact entry.

2. Enter the number for your recipient, or press *Search* to retrieve a number from your contacts list.
3. Press *OK* and the business card is sent.

5. Messages (Menu 1)



If you have subscribed to a messaging service through your wireless provider, you can send and receive text messages to compatible phones that also subscribe to a compatible message service. You may also be able to attach and send predefined images from the *Templates* folder.

Composed messages can be up to 160 characters in length. Using special (Unicode) characters take up more space. If there are special characters in your message, the indicator may not show the message length correctly. Before the message is sent, the phone tells you if the message exceeds the maximum length allowed for one message. To cancel sending, press *Cancel*, or save the message in the inbox.



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

■ Text messages

Write and send

1. At the start screen, select *Menu > Messages > Text messages > Create message > Add number or Add e-mail*.
To go quickly to the *Create message* display, scroll left from the start screen.
2. Enter the recipient's phone number; or e-mail address, or press *Search* to retrieve a number from your contacts list, and press *OK*.
3. Repeat step 2 to add more recipients, and press *OK*.
4. Select *Options > Edit message*.
5. Compose a message using the keypad, and select *Options > Send*.

Options

When you create a text message, depending on the mode of text input you are using and the features supported by your wireless service provider, some or all of the following options are available:

Send—Send the message to one recipient.

List recipients—View the list of recipients for the message.

Settings—Set the priority of the message.

Save message—Select *Archive* to save the message in the *Archive* folder; select *Templates* to save the message as one of your predefined templates in the *Templates* folder.

Clear text—Erase the text from the message editor.

Exit editor—Exits the message editor.

Insert contact—Insert a name from your contacts list into your message.

Insert number—Insert a phone number or find a phone number in the contacts list.

Use template—Insert a predefined template into your message.

Insert picture—Insert a picture from a folder in the Gallery menu.

Edit word/Insert word—Enter or edit the text of a new word that might not appear in the predictive text dictionary.

Insert symbol—Insert a special character into your message.

Predictive text—Choose a predictive text language and turn predictive text on or off.

Matches—View matches found in the dictionary for the word you want to use.

Templates

Templates are short, prewritten messages that can be recalled and inserted into new text messages when you are short on time.

1. At the start screen, select *Menu > Messages > Text messages > Create message > Add number or Add e-mail*.
2. Enter the recipient's phone number; or e-mail address, or press *Search* to retrieve a number from your contacts list, and press *OK*.
3. Repeat step 2 to add more recipients, and press *OK*.
4. Select *Options > Edit message > Options > Use template*.
5. Scroll to one of the available templates, and press *Select*.
6. Enter the text into your new message, and select *Options > Send*.

Read and reply

When you receive a message, a notification message and the unopened letter icon (✉) appear in the display.

1. Press *Show* to read the message, or *Exit* to move it to your inbox.

When you have unopened messages in your inbox, ✉ is shown in the upper left corner of the start screen as a reminder.

Scroll up and down to view the whole message if necessary.

2. Select *Options > Reply*.
3. Select a *Start reply with* option, then compose your reply using the keypad.
4. Select *Options > Send*.

Options

When you read or reply to a text message, some or all of the following options are available:

Delete—Discard the message.

Save message—Save the message to a folder.

Reply—Reply to the message. Create the message, and select *Options > Send*. The sender's phone number or e-mail is used as the default.

Use number—Choose *Save*, *Add to contact*, *Send message*, or *Call*.

Resend—Send the message again.

Save—Save the message to a folder.

Forward—Forward the message to another phone number.

Rename—Edit the title of the message.

Change sending options

1. At the start screen, select *Menu > Messages > Text messages > Message settings > Sending options*.

2. Select the setting you wish to change:

Priority—Set the priority of the note as *Normal* or *Urgent*.

Delivery note—A note is sent to you confirming delivery of the message. Select *On* or *Off*.

Send callback number—A callback number is sent to the recipient. Select *Off* or your phone number.

Change message settings

When the message memory is full, your phone cannot send or receive any new messages. However, you can set your phone to automatically replace old messages in the *Inbox* and *Outbox* folders when new ones arrive.

1. At the start screen, select *Menu > Messages > Text messages > Message settings > Other settings*.
2. Select the setting you wish to change:

Message font size—Select *Small font* or *Large font*.

Message overwriting—Select *Sent items only*, *Inbox only*, *S. items & inbox*, or *Off*.

Save to sent items as sending—Select *Always save*, *Always prompt*, or *Off*.

Enhanced messages

Enhanced messaging is a Network Service. If your wireless service provider supports this feature, enhanced messaging functions in the same manner as text messaging, but it offers additional options for the style and content of the message.

When creating an enhanced message, the following options are available:

Add-ins—Select *Sound*, *Animation*, or *Picture* to add to the message.

Styles—Select the *Font type*, *Font size*, or *Text alignment* of the message.



Note: If you try to send an enhanced message to a phone that does not support enhanced messaging, the enhanced messaging content will be stripped from the message, leaving only the text you have entered.

While viewing a received enhanced message, the following options are available:

Sound—Select *Play sound* or *Save sound*.

Animation—Select *Save animation*.

Picture—Select *Save picture*.

■ Voice messages

If you subscribe to voice mail, your wireless provider will furnish you with a voice mailbox number. You need to save this number to your phone to use voice mail. When

you receive a voice message, your phone lets you know by beeping, displaying a message, or both. If you receive more than one message, your phone shows the number of messages received.

Save voice mailbox number

Your wireless provider may have already saved your voice mailbox number to your phone. If so, the number will appear in the display in step 1. Press *OK* to leave the number unchanged.

1. At the start screen, select *Menu > Messages > Voice messages > Voice mailbox number*.

The *Voice mailbox number* screen appears in the display.

2. If the box is empty, enter the voice mailbox area code and number.
3. Press *OK*.

Call and setup your voice mail

1. Once you have saved the voice mailbox number, press and hold **1**.
2. When you connect to voice mail and the prerecorded greeting begins, follow the service's automated instructions to setup your voice mail.

Listen to your voice messages

Once you have setup voice mail, you can dial the voice mailbox number in one of four ways:

- Dial the number using the keypad.
- Press and hold **1**.
- Press *Listen* if there is a notification message in the display.
- At the start screen, select *Menu > Messages > Voice messages > Listen to voice messages*.

Once you connect and the prerecorded greeting begins, follow the automated instructions to listen to your voice messages.

Automate voice mail

You can insert special characters called dialing codes into phone numbers such as voice mail, and save the number to a 1-touch dialing location. Dialing codes instruct the receiving system to pause, wait, bypass, or accept the numbers that follow them in the dialing string.



Note: Voice mail services vary by service provider. The following instructions are examples of common operations. Please check with your service provider for specific instructions for using your voice mail service.

Write down voice mailbox number and process

1. Write down your voice mailbox number.
2. Call and check your voice mail as you normally would.
3. Write down your interaction with the recorded prompts step-by-step. Keep in mind that each voice mail service may vary. However, it should look something like this:

Dial 2145551212, pause 5 seconds, press 1, pause 2 seconds, press 1234, press #.

Be precise; you will need this information in Setup voice mail with dialing codes, 35.

Insert dialing codes

Press * repeatedly to cycle through dialing codes. Once the desired code appears in the display, pause briefly and the code is inserted into the dialing string.

The following dialing codes are available:

*—Bypasses a set of instructions.

p—Pauses for 2.5 seconds before sending any numbers that follow.

w—Waits for you to press the Talk key before sending the numbers or codes that follow.

Setup voice mail with dialing codes

1. At the start screen, select *Contacts > 1-touch dialing*.
2. Scroll to an (empty) 1-touch dialing slot and press *Assign*.
3. Enter your voice mailbox number, including the area code.
4. Refer to dialing codes and enter any codes as necessary using the information that you wrote down from Setup voice mail with dialing codes, 35.

For example, if you pause for 5 seconds after connecting to voice mail, enter p twice after the voice mailbox number, for example, 2145551212pp.

5. Enter any remaining pauses or other information that allows you to listen to your messages, and press *OK*.
6. Enter a name (such as Voice Mail), and press *OK*.

To dial and listen to your voice mail, press and hold the assigned 1-touch dialing key at the start screen.

■ Minibrowser messages

Minibrowser messaging is a network service. See Network services, 6 for more information.

If your wireless service provider supports this feature, you can use the Minibrowser to check for e-mail messages. At the start screen, select *Menu > Messages > Minibrowser messages > Connect*.

See Minibrowser (Menu 8), 70 for more information on using the Minibrowser in your phone to access web pages.

■ Message folders

Save messages to folders

You can save drafts of messages or received messages to an existing folder or to a folder that you have created.

1. Open the received message or create a new message, and press *Options*.
2. Select *Save message > Sent items, Templates, Archive*, or a folder you have created on your own.

View saved messages

1. At the start screen, select *Menu > Messages > Text messages*.
2. Select the folder containing the message you wish to view:

Inbox—Messages are automatically stored in this folder after they have been read or if you press *Back* when the message notification appears on the start screen.

Sent items—Messages that have been sent are automatically stored in this folder.

Archive—Store messages that have been read and that you want to keep in this folder.

Templates—Pictures and prewritten templates are stored in this folder. Preloaded templates can be edited and customized.

My folders—Keep your messages organized by creating custom folders and saving some of your messages here. Select *Options > Add folder* to add a custom folder. You can also select *Options > Rename folder* or *Options > Delete folder* to rename or delete a folder you have created.

3. Once the folder opens, scroll to the message you wish to view, and press *Select*.

■ Delete messages

If your message memory is full and you have more messages waiting at the network, *No space for new messages* appears on the start screen. You can do the following:

- Read some of the unread messages, and delete them individually.
- Delete messages from some of your folders.

A single message

To delete a single message, you need to open it first.

1. At the start screen, select *Menu > Messages > Text messages*.
2. Scroll to the folder containing the message you wish to delete, and press *Select*.
3. Scroll to the message you wish to delete, and press *Select*.
4. Select *Options > Delete*.
5. Press *OK* to delete the message or *Back* to exit.

All messages in a folder

1. At the start screen, select *Menu > Messages > Text messages > Delete messages*.
2. Scroll to the folder containing the messages you wish to delete, and press *Select*:

All—Deletes all messages in all of the folders.

All read—Deletes any messages which have been read in all of the folders.

All unread—Deletes any messages which have not been read in all of the folders.

Inbox—Deletes all messages from the *Inbox* folder.

Sent items—Deletes all messages from the *Sent items* folder.

Archive—Deletes all messages from the *Archive* folder.

3. Press *OK* to empty the folder.



Note: Only folders created in *My folders* can be deleted. The *Inbox*, *Sent items*, *Archive*, and *Templates* folders are protected. When you delete a folder, all messages in the folder are also deleted.

6. Call log (Menu 2)



Call log stores information about the last 20 missed, 20 received, and 20 dialed calls. It also adds the total duration of all calls. When the number of calls exceed the maximum, the most recent call replaces the oldest.

Whether viewing missed, received, or dialed calls, the menu options are the same:

Call time—Display the date and time of the call.

Send message—Send a message to the number.

View number—Display the number.

Use number—Edit the number and associate a name with the number.

Save—Enter a name for the number and save it to your contacts list.

Add to contact—Add the number to an existing entry in your contacts list, if the number is not associated with a name.

Delete—Clear the number from memory.

Call—Call the number.

■ View missed calls



Note: The missed calls feature does not function when your phone is switched off.

Missed calls are calls that were never answered.

1. If the message notification display appears in the display, press *List*.
2. When the phone number appears in the display, press *Options*.
3. Scroll to an option, and press *Select* to activate the option.

OR

1. At the start screen, select *Menu > Call log > Missed calls*.
2. Scroll to a name or number, and press *Options*.
3. Scroll to an option, and press *Select* to view or activate the option.

■ View received calls

Received calls are calls that have been answered.

1. At the start screen, select *Menu > Call log > Received calls*.
2. Scroll to a name or number, and press *Options*.
3. Scroll to an option, and press *Select* to view or activate the option.

■ View dialed numbers

Dialed calls are previous numbers you have dialed from your phone:

1. At the start screen, press the **Talk** key.
OR
At the start screen, select *Menu > Call log > Dialed numbers*.
2. Scroll to a name or number, and press *Options*.
3. Scroll to an option, and press *Select* to view or activate the option.

Call times

You can make or receive up to five calls to or from the same number and view the time each call occurred. Your phone clock must be set for this feature to work accurately.

1. While viewing a missed or received call, select *Options > Call time*.
2. Scroll to view the most recent call times from this number; press *Back* to return to the options list.

■ Delete call logs

You can delete any missed, dialed, or received calls from phone memory.

1. At the start screen, select *Menu > Call log > Delete recent call lists*.
2. Select the call type you would like to clear (*All, Missed, Received or Dialed*).

■ View duration of calls



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

Last call

1. To view the duration of the last call, at the start screen, select *Menu > Call log > Call timers > Duration of last call*.
2. To activate the call timer on the start screen while in a call, select *Details > Show call time on display > On or Off*.

Dialed calls

1. To view the duration of all dialed calls, at the start screen, select *Menu > Call log > Call timers > Duration of dialed calls*.
2. To view the duration of dialed calls placed while in the home network or while roaming, select *Details > Home or Roaming*.

Received calls

1. To view the duration of all received calls, at the start screen, select *Menu > Call log > Call timers > Duration of received calls* for more information.
2. To view the duration of received calls placed while in the home network or while roaming, select *Details > Home or Roaming*.

All calls

At the start screen, select *Menu > Call log > Call timers > Duration of all calls*.

Life timer

At the start screen, select *Menu > Call log > Call timers > Life timer*.



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

Clear timers

1. At the start screen, select *Menu > Call log > Call timers > Clear timers > OK*.
2. Enter your security code, and press *OK*. See Security code, 59 for more information.



Note: All call timers, except the life timer, are reset to zero when *Clear timers* is selected.

■ View duration of data/fax calls

Data/fax calls are a network service. See Network services, 6 for more information. If your wireless service provider supports this feature, you can view the size or duration of sent or received data and fax calls.



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

1. At the start screen, select *Menu > Call log > Data/fax calls*.

2. Scroll to one of the following options:

Last sent data/fax—View the size (KB) of the last send data/fax call.

Last received data/fax—View the size (KBKB) of the last received data/fax call.

All sent data/fax—View the size (KB) of all sent data and fax calls.

All received data/fax—View the size (KB) of all received data and fax calls.

Duration of last data/fax call—View the duration time of the last data or fax call.

Duration of all data/fax calls—View the duration time of all calls.

Clear all data/fax logs—Press *OK > Yes* to clear all data/fax logs.

■ View duration of minibrowser

Minibrowser is a network service. See Network services, 6 for more information. If your wireless service provider supports this feature, you can view the size or duration of sent or received data from the minibrowser.



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

1. At the start screen, select *Menu > Call log > Minibrowser calls*.

2. Scroll to one of the following options:

Last sent browser data—View the size (KB) of the last send browser data.

Last received browser data—View the size (KB) of the last received data.

All sent browser data—View the size (KB) of all sent browser data.

All received browser data—View the size (KB) of all received browser data.

Last browser session—View the duration time of the last browser session.

All browser sessions—View the duration time of all browser sessions.

Clear all browser logs—Press *OK* > *Yes* to clear all browser logs.

7. Profiles (Menu 3)



Profiles define how your phone reacts when you receive a call or message, how your keypad sounds when you press a key, and more. Ringing options, keypad tones, and other settings for each of the available profiles can be left at their default setting, or customized to suit your needs. The following profiles are available: *Normal*, *Silent*, *Meeting*, *Outdoor*, and *Pager*.

Profiles are also available for enhancements such as a headset and car kit. See Enhancement settings, 54 for more information about enhancement profiles.

■ Activate

1. At the start screen, select *Menu > Profiles*.
2. Scroll to the profile of your choice, and press *Select*.
3. Select *Activate*.

■ Customize a profile

You can customize any of the profiles a variety of ways.

1. At the start screen, select *Menu > Profiles*.
2. Select the profile you wish to customize.
3. Select *Customize*.
4. Select the option you want to customize (*Incoming call alert*, *Ringing tone*, *Ringing volume*, *Vibrating alert*, *Message alert tone*, *Keypad tones*, *Warning tones*, *Alert for*, or *Profile name*).



Note: You cannot rename the *Normal* profile.

■ Set a timed profile

Timed profiles can be used to prevent missed calls. For example, suppose you attend an event that requires your phone be set to *Silent* before the event starts, but you forget to return it to *Normal* until long after the event. A timed profile can prevent missed calls by returning your phone to the default profile at a time you specify.



Note: Timed profiles can be set up to 24 hours in advance.

1. At the start screen, select *Menu > Profiles*.
2. Select the profile you wish to activate and set for timed expiration.
3. Select *Timed*.
4. Enter the time for the profile to expire, and press *OK*.

8. Settings (Menu 4)



Use this menu to change the time and date settings, call settings, phone settings, display settings, tone settings, enhancement settings, security settings, system settings, network services, and to restore the factory settings.

■ Call settings

Anykey answer

Anykey answer allows you to answer an incoming call by briefly pressing any key except the **Power** key, **Right selection** key, or **End** key.

At the start screen, select *Menu > Settings > Call settings > Anykey answer > On or Off*.

Automatic redial

Occasionally, your network may experience heavy traffic, resulting in a fast busy signal when you dial. With automatic redial activated, your phone redials the number (number of times is specified by the network), and notifies you once the network is available.

At the start screen, select *Menu > Settings > Call settings > Automatic redial > On or Off*.

International prefix

You can store an international dialing prefix into your phone. When you enter "+" at the beginning of a phone number, your phone automatically inserts the international dialing prefix that you have stored.

1. At the start screen, select *Menu > Settings > Call settings > International dialing prefix*.
2. Enter the international dialing prefix (for example, 0011) and press **OK**.
3. At the start screen, use + to enter the phone number you wish to call. (For example, +3546789.)

The phone dials the international dialing prefix you have stored in your phone and the phone number you have entered. (For example, the phone dials 0011354789.)

1-touch dialing

You can activate or deactivate 1-touch dialing. At the start screen, select *Menu > Settings > Call settings > 1-touch dialing > On or Off*. For more information on entering 1-touch dialing numbers, see Set up 1-touch dialing, 26.

Automatic update of service

Your phone is capable of receiving updates to wireless services sent to your phone by your service provider.

At the start screen, select *Menu > Settings > Call settings > Auto-update of service > On or Off*.

Minibrowser confirmation

You can give confirmation when you connect or disconnect from the minibrowser.

1. At the start screen, select *Menu > Settings > Call settings > Minibrowser confirmation*.

2. Scroll to one of the following options, and press *Select*:

None—The phone will not ask for confirmation before connecting or disconnecting from the minibrowser.

On connection—Your phone asks for confirmation before connecting to the minibrowser.

On exit—Your phone asks for confirmation before disconnecting from the minibrowser.

Both—Your phone asks for confirmation before connecting or disconnecting from the minibrowser.

Calling cards

If you use a calling card for long distance calls, you can save the calling card numbers in your phone. Your phone can store up to four calling cards.



Note: Contact your calling card company for more information.

Save information

1. At the start screen, select *Menu > Settings > Call settings > Calling card*.
2. Enter your security code, and press *OK*. See Security code, 59 for more information.
3. Scroll to one of the four card memory locations, and select *Options > Edit > OK > Dialing sequence*.
4. Select one of the following sequence types:
 - Access no.+ phone no.+ card no.*—Dial 1-800 access number, phone number, then card number (+ PIN if required)
 - Access no.+ card no.+ phone no.*—Dial 1-800 access number, card number (+ PIN if required), then phone number
 - Prefix+ phone no.+ card no.*—Dial the prefix (numbers that must precede the phone number) and phone number you want to dial, then card number (+ PIN if required)
5. Enter the required information (access number or prefix and card number), and press *OK* to confirm your entries.
6. Select *Card name*.
7. Enter the card name, and press *OK*.

Make calls

After you have saved your calling card information in your phone, you can make a call using your calling card.

1. At the start screen, select *Menu > Settings > Call settings > Calling card*.
2. Enter your security code, and press *OK*. See Security code, 59 for more information.
3. Scroll to the calling card of your choice, select *Options > Select > OK*.
4. Press the **End** key to return to the start screen; then enter the phone number, including any prefix (such as 0 or 1) that your calling card may require when you make a calling card call.

See your calling card for instructions.
5. Press and hold the **Talk** key for a few seconds until *Card call* is displayed.
6. When you hear the tone or system message, press *OK*.

Receive data or fax calls

Data or fax calls is a network service. See Network services, 6 for more information.

If your wireless service provider supports this feature, you can set up the phone to send or receive data or fax calls when a terminal, such as a PDA or PC, is connected.

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



Note: For more information on connectivity, refer to the PC/PDA Connectivity Guide. The PC/PDA Connectivity Guide can be downloaded from the Nokia website at <http://www.nokia.com/us>.

1. At the start screen, select *Menu > Settings > Call settings > Data/fax calls > Incoming data/fax call*.
2. Select one of the following options:
Normal—The phone receives incoming calls as usual.
Data calls only—The phone receives only data calls.
Fax calls only—The phone receives only fax calls.
3. When you are finished receiving the fax or data call, repeat Steps 1 and 2 and select *Normal*.

Data transfer

You can view the transmission speed when sending or receiving data or fax calls.

At the start screen, select *Menu > Settings > Call settings > Data/fax calls > Data rate display > Graphic or Off*.

Call summary

Your phone can display the time spent on a call when you hang up.

At the start screen, select *Menu > Settings > Call settings > Call summary > On or Off*.

■ Phone settings

Phone language

1. At the start screen, select *Menu > Settings > Phone settings > Phone language*.

2. Scroll to the language of your choice, and press *Select*.

The phone language affects the time and date formats of the clock, alarm clock, and calendar.

Automatic keyguard

You can set the keypad of your phone to lock automatically after a preset time delay (from 10 seconds to 60 minutes).

1. At the start screen, select *Menu > Settings > Phone settings > Automatic keyguard > On or Off*.
2. If you selected *On*, *Set delay* appears in the display.
3. Enter the delay (in minutes and seconds), and press *OK*.



When keyguard is on, it may be possible to dial the emergency number programmed into your phone. Key in the emergency number, and press the **Talk** key. The number is displayed only after you have keyed in its last digit.

Touch tones

Touch tones or DTMF tones, are the tones that sound when you press the keys on your phone keypad. You can use touch tones for many automated dial-up services such as banking and airlines, or for entering your voice mailbox number and password.

Touch tones are sent during an active call. You can send them manually from your phone keypad, or send them automatically by saving them in your phone.

Set type

1. At the start screen, select *Menu > Settings > Phone settings > Touch tones > Manual touch tones*.
2. Select one of the following options:

Continuous—The tone sounds for as long as you press and hold a key.

Fixed—Used to send tones of the duration you specify in the *Touch tone length* option.

Off—Used to turn off tones. No tones are sent when you press a key.

Set length

You can also specify touch tone length when using the *Fixed* option.

At the start screen, select *Menu > Settings > Phone settings > Touch tones > Touch tone length > Short* (0.1 seconds) or *Long* (0.5 seconds).

Welcome note

You can write a welcome note which briefly appears on the display screen whenever you switch your phone on.



Note: Predictive text input is not available for entering welcome note text.

1. At the start screen, select *Menu > Settings > Phone settings > Welcome note*.
2. Enter a note (up to 44 characters).
Press * to display and select from available special characters.
3. When you are finished, select *Options > Save*.

OR

Select *Delete* if you want to delete the previous text and begin creating another welcome note.

Confirm UIM (CDMA SIM) service actions

This option allows you to request notification when your service provider makes changes to UIM (CDMA SIM)-related services.

For availability, rates, and information on using UIM (CDMA SIM) services, contact your UIM (CDMA SIM) card vendor, for example, network operator, service provider, or other vendor.

Select *Menu > Settings > Phone settings > Confirm UIM service actions > Yes or No*.

Help text

Your phone displays brief descriptions for most menu items. When you arrive at a feature or menu, pause for about 10 seconds and wait for the help text to display. Use the scroll keys to page through the full help text, if necessary.

The default setting for help text is on. However, you can turn help text on or off.

At the start screen, select *Menu > Settings > Phone settings > Help text activation > On or Off*.

■ Time settings

Time

Show/hide the clock

At the start screen, select *Menu > Settings > Time settings > Clock > Show clock or Hide clock*.

Set the time

1. At the start screen, select *Menu > Settings > Time settings > Clock > Set the time*.
2. Enter the time (in hh:mm format), and press *OK*.
3. Select *am* or *pm* (if 12-hour format is selected).

Change the format

At the start screen, select *Menu > Settings > Time settings > Clock > Time format > 24-hour or 12-hour*.

Date

Show/hide the date

At the start screen, select *Menu > Settings > Time settings > Date > Show date or Hide date*.

Set the date

1. At the start screen, select *Menu > Settings > Time settings > Date > Set the date*.
2. Enter the date, and press *OK*.

Change the date format

1. At the start screen, select *Menu > Settings > Time settings > Date*.
2. Scroll to the *Date separator*, and press *Select*.
3. Select the separator of your choice.
4. Scroll to *Date format*, and press *Select*.
5. Select the format of your choice.

Set the auto-update of date and time

Auto-update is a network service. See Network services, 6 for more information.

If your wireless service provider supports this feature, you can allow the digital network to set the clock, which is useful when you are out of your home area, for example, when you have traveled to another network or time zone.

At the start screen, select *Menu > Settings > Time settings > Auto-update of date & time > On, Confirm first, or Off*.

If you use the *Auto-update of date & time* option while outside your digital network, you may be prompted to enter the time manually. Network time will replace the time and date when you re-enter your digital network.

If your battery has been removed or has drained outside the digital network, you may be prompted to enter the time manually (once the battery is replaced or recharged, and you are still outside of the digital network).

■ Display settings

Wallpaper

You can set your phone to display a background picture (wallpaper) on the start screen.

1. At the start screen, select *Menu > Settings > Display settings > Wallpaper > Select wallpaper*.
2. Highlight the *Graphics* folder, and press *Open*.
3. Browse the folder.
4. When you arrive at the image of your choice, select *Options > Set as wallpaper*.

To activate or deactivate wallpaper, at the start screen, select *Menu > Settings > Display settings > Wallpaper > On or Off*.

Color scheme

You can change the color of some display components in your phone, such as indicators and signal bars.

1. At the start screen, select *Menu > Settings > Display settings > Color schemes*.
2. Scroll to the color scheme of your choice, and press *Select*.

Banner

Banner is a network service. See Network services, 6 for more information.

If your wireless service provider supports this feature, you can choose whether the display shows the operator logo when the phone is in the idle state.

At the start screen, select *Menu > Settings > Display settings > Banner > Default* or *Customize*.

Screen saver timeout

If you have turned the screen saver on, the screen saver is activated when no function of the phone is used after a preset period of time. Press any key to deactivate the screen saver. You can set your phone to display a screen saver after a preset time or after a custom time (up to 60 minutes) of your choosing.

1. At the start screen, select *Menu > Settings > Display settings > Screen saver timeout*.
2. Scroll to the option of your choice and press *Select*.
3. If you want to set a custom time (up to 60 minutes), select *Other*, enter the custom time, and press *OK*.

Display brightness

You can change the brightness of your phone display.

1. At the start screen, select *Menu > Settings > Display settings > Display brightness*.
2. Scroll left or right to adjust the contrast level to your preference.
3. Press *OK* to accept your settings.

Tone settings

From this menu, you can adjust the ringing volume, keypad tones, and other tone settings for the currently active profile. See *Customize a profile*, 44 for more information on profile settings.

Enhancement settings

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

At the start screen, select *Menu > Settings > Enhancement settings > Headset, Handsfree, Loopset, TTY/TDD, or Charger.*

Headset

Scroll to the option of your choice, and press *Select* to enter the submenu and modify its settings.

Default profile—Choose the profile you wish to be automatically activated when a headset is connected

Automatic answer—Calls are answered automatically after one ring when a headset is connected. Select *On* or *Off*.

Handsfree

Scroll to the option of your choice, and press *Select* to enter the submenu and modify its settings.

Default profile—Choose the profile you wish to be automatically activated when your phone is connected to a car kit.

Automatic answer—Calls are answered automatically after one ring when a car kit is connected. Select *On* or *Off*.

Lights—Choose to keep the phone lights always on, or to shut off automatically after several seconds. Select *On* or *Automatic*.

Loopset

The LPS-4 Loopset (for use with T-coil equipped hearing aids) is recommended for use with your phone. Scroll to the option of your choice, and press *Select* to enter the submenu and modify its settings.

Default profile—Choose the profile you wish to be automatically activated when a loopset is connected

Automatic answer—Calls are answered automatically after one ring when a loopset is connected. Select *On* or *Off*.

TTY/TDD

In addition to the Nokia phone, you will need the following for TTY/TDD communication:

- A TTY/TDD device that is cellular ready or cellular compatible.

- A cable for connecting the TTY/TDD to your Nokia phone, usually supplied by the manufacturer of the TTY/TDD device.

Set up the TTY/TDD profile

You can connect your phone directly to the TTY/TDD device. In order for your phone to recognize the TTY/TDD, you will need to set up the TTY/TDD profile.



Important: Some manufacturers of TTY/TDD devices suggest that the phone be at least 18 inches from the TTY/TDD device. When connecting to any other device, read its user guide or contact its manufacturer for detailed instructions and safety information.

1. Connect one end of the cable to the TTY/TDD device.
2. Insert the other end of the cable into the 2.5-mm headset jack on the side of your phone.
3. At the start screen, select *Menu > Settings > Enhancement settings > TTY/TDD > Use TTY > Yes*.

TTY/TDD calls

- Check with the manufacturer of the TTY/TDD device for a connecting cable that is compatible with the Nokia phone.
- TTY/TDD communications depend on network availability. Check with your service provider for availability and description of services.

Make a call

1. At the start screen, enter the number, and press the **Talk** key.
2. When the receiving party answers, begin typing your conversation on the TTY/TDD.
3. Press the **End** key to end the call.

Receive a call

1. Make sure the TTY/TDD device is connected to your phone.
2. Press the **Talk** key to answer the call, and type your responses on the TTY/TDD.
3. Press the **End** key to end the call.

Charger

Scroll to the option of your choice, and press *Select* to enter the submenu and modify its settings.

Default profile—Choose the profile you wish to be automatically activated when your phone is connected to the charger.

Lights—Choose to keep the phone lights always on, or to shut off automatically after several seconds. Select *On* or *Automatic*.

■ Security settings

Restrict calls

Call restriction is a network service. See Network services, 6 for more information.

If your wireless service providers supports this feature, you can restrict the calls your phone can make and receive. When calls are restricted, calls still may be possible to the official emergency number programmed into your phone.



Note: Contact your service provider for the restriction password.

1. At the start screen, select *Menu > Settings > Security settings > Call restrictions*.
2. Enter the security code, and press *OK*. See Security code, 59 for more information.
3. Select the types of calls you wish to restrict:
 - Restrict outgoing calls*—Calls cannot be made.
 - Restrict incoming calls*—Calls cannot be received.
4. Select an option (*Select, Add restriction, Edit, or Delete*).

Activate or deactivate phone lock

The phone lock feature protects your phone from unauthorized outgoing calls or unauthorized access to information stored in the phone. When phone lock is activated, *Phone locked* is displayed each time you turn your phone on or off.

When the phone is locked, calls still may be possible to the official emergency number programmed into your phone.

1. At the start screen, select *Menu > Settings > Security settings > Access codes > Phone lock*.

2. Enter the lock code, and press *OK*. See Lock code, 58 for more information.
3. Select one of the following options:

On—Immediately turns on the phone lock feature.

Off—Immediately turns off the phone lock feature.

If you selected *On*, you must enter your lock code before the phone will function normally. Once the lock code has been accepted, your phone functions normally.



Note: *Call not allowed* is displayed if you attempt to place a call while phone is locked.

To answer a call with phone lock on, press *Answer* or the *Talk* key.

Allow numbers when phone locked

When phone lock is on, the only outgoing calls that can be made are to the following numbers:

- The emergency number programmed into your phone (for example, 911).
 - The number stored in the *Allowed number when phone locked* location.
1. At the start screen, select *Menu > Settings > Security settings > Access codes > Allowed number when phone locked*.
 2. Enter the lock code, and press *OK*. See Lock code, 58 for more information.
 3. Enter the phone number; or press *Search*, recall the number from the phone book, and press *OK*.

Call the allowed phone number

1. At the start screen, press the *Scroll up* or *Scroll down* key.
2. Press the *Talk* key to place the call.

Lock code



Note: Avoid using codes similar to emergency numbers such as 911 to prevent accidental dialing of the emergency number.

The preset lock code is 1234 or the last four digits of your phone number. If you enter an incorrect lock code five times in a row, your phone will prompt you for the security code.



Note: If you enter the wrong lock code 5 times in succession, you will not be able to enter a code for 5 minutes, even if you power off the phone between incorrect entries.

1. At the start screen, select *Menu > Settings > Security settings > Access codes > Change lock code*.
2. Enter the current (or default) lock code, and press *OK*.
3. Enter the new lock code (must be 4 characters in length), and press *OK*.
4. Reenter the new lock code for verification, and press *OK*.



Note: When you change your lock code, make sure you store it in a safe place, away from your phone. Avoid entering access codes similar to emergency numbers to prevent accidental emergency calls.

Security code



Note: Avoid using codes similar to emergency numbers such as 911 to prevent accidental dialing of the emergency number.

The security code controls access to features such as the security level and is supplied with the phone. The preset security code is 12345. Once you change the security code, keep the new code secret and in a safe place separate from your phone.



Note: If you enter the wrong security code 5 times in succession, you will not be able to enter a code for 5 minutes, even if you power off the phone between incorrect entries.

1. At the start screen, select *Menu > Settings > Security settings > Access codes > Change security code*.
2. Enter the current security code (default is 12345), and press *OK*.
3. Enter the new security code (must be 5 characters in length), and press *OK*.
4. Enter the new security code again, and press *OK*.

Voice privacy

Voice privacy is a network service. See Network services, 6 for more information. If your wireless service provider supports this feature, the voice privacy feature protects the privacy of your current phone conversation from other callers placing phone calls on your same network.

At the start screen, select *Menu > Settings > Security settings > Voice privacy > On or Off*.

■ Network

The menu options you see in your phone are based on your service provider's network. The network determines which options actually appear in the phone menu. Check with your service provider for more information.

The *Network* menu allows you to customize the way your phone chooses a network in which to operate while you are within or outside of your primary or home system. Your phone is set to search for the most cost-effective network. If your phone cannot find a preferred network, it selects a network automatically based on the option you choose in the *Network* menu.

Roaming options

You can set your phone to roam or search for another network when you are not in your home area.

1. At the start screen, select *Menu > Settings > Network > Roaming options*.
2. Select one of the following options:

Home only—You can make and receive calls in your home area only.

Automatic—The phone automatically searches for service in another digital network. If one is not found, the phone uses analog service. The roaming rate applies when not in the home service area.

3. Press *OK*, if necessary, to confirm the activation.

Mode

You can choose whether your phone uses digital or analog service.

1. At the start screen, select *Menu > Settings > Network > Mode*.
2. Select one of the following service options:

Digital pref.—The phone works in digital mode, but will also work in analog mode when digital mode is unavailable.

Digital only—The phone only works in digital mode.

Analog only—The phone only works in analog mode.

■ Network services

The following features are network services. See Network services, 6 for more information.

Store a feature code

1. At the start screen, select *Menu > Settings > Network services > Network feature setting*.
2. Enter the feature code from your service provider (for example, *633), and press *OK*.
3. Select the type of forwarding that matches the feature code you entered (for example, *Call forwarding*).

The activated feature code is now stored in your phone, and you are returned to the *Feature code* field. Continue entering other feature codes (for example, *633), or press the *End* key to return to the start screen.



Note: Once you enter a network feature code successfully the feature becomes visible in the *Network services* menu.

Call forwarding

Call forwarding tells your network to redirect incoming calls to another number. Call forwarding is a network service and may not work the same in all networks, so contact your wireless provider for availability.

Activate



Note: This is a network service. All options listed may not appear in the display. Contact your wireless provider for more information.

1. At the start screen, select *Menu > Settings > Network services > Call forwarding*.
2. Select one of the following options:

Forward all calls—Forward all calls to the number you specify.

Forward if busy—Forward incoming calls when you are in a call.

Forward if not answered—Forward incoming calls to another number if you are unable to answer. You can set a delay before forwarding takes place.

Forward if out of reach—Forward incoming calls when your phone is off.

Cancel all call forwarding—Cancel any call forwarding options you have set.

3. Select *Activate*.
4. Scroll to the destination to which your calls will be forwarded, and press *Select*.
5. Enter the number to which your calls, data, or other information will be forwarded, and press *OK*.

Cancel

At the start screen, select *Menu > Settings > Network services > Call forwarding > Cancel all call forwarding*.



Note: *Cancel all call forwarding* may affect your ability to receive voice mail messages. Contact your wireless provider for specific details.

Call waiting

If your wireless provider supports this feature, call waiting notifies you of an incoming call even while you are in a call. You can then accept, reject, or ignore the incoming call.

1. At the start screen, select *Menu > Settings > Network services > Call waiting > Activate or Cancel*.
2. During a call, press *Answer* or the **Talk** key to answer the waiting call.
The first call is put on hold.
3. Press the **End** key to end the active call.

Send own caller ID when calling

If your wireless service provider supports this feature, you can prevent your number from appearing on the receiving party's caller ID.

At the start screen, select *Menu > Settings > Network services > Send my caller ID > Yes or No*.

View your own phone number

At the start screen, select *Menu > Settings > Network services > Own number selection*.

■ Restore factory settings

You can reset some of the menu settings to their original values. Data that you have entered or downloaded is not deleted, for example, entries in your contacts list are not affected.

1. At the start screen, select *Menu > Settings > Restore factory settings*.
2. Enter the security code, and press *OK*. See Security code, 59 for more information.

9. Gallery (Menu 5)



You can save photos and ringing tones to folders in the gallery, or create folders of your own and save them there. You can download images and tones using web sites or Nokia PC Suite.

■ Open the gallery

At the start screen, select *Menu > Gallery*. The following submenus are displayed:

View folders—Explore the folders in the gallery menu. See View folders in the following section for more info.

Add folder—Add a folder of your own.

Delete folder—Delete a folder you have created.

Rename folder—Rename a folder you have created.

■ View folders

1. At the start screen, select *Menu > Gallery > View folders > Images, Graphics, or Tones > Open*.
2. Scroll through the list of graphics or tones, press *Options > Select* to activate the option (*Open, Delete, Move, Rename, Set as wallpaper, Set as ring tone, Details or Sort*) or to enter its submenu.

10. Games (Menu 6)



Challenge yourself or a friend to one of the fun games in your phone.



Note: Some menus listed are network services. Contact your wireless provider for more information.

■ Play a game

1. At the start screen, select *Menu > Games > Select game*.
2. Scroll to a game, and press *Open* or the **Talk** key.
3. Select one of the following options (if supported by the particular game):

New game—Launches a new game.

High scores—View the high scores for this game (if previously played).

Instructions—View instructions for playing the game. Scroll down to read more.

■ Game settings

1. At the start screen, select *Menu > Games*.
2. Scroll to one of the following game submenus:

Select game—Select a game or enter a game option list. See Game options, 65 for more information.

Memory—Check the available memory for games and game-related applications.

Settings—Turn *Game sounds*, *Game lights*, and *Shakes* on or off.

3. Press *Select* to enter the submenu, and choose other settings.

■ Game options

1. While viewing the games list, press *Options*.
2. Scroll to an option (*Open*, *Delete*, or *Details*), and press *Select* to activate the option or enter a submenu.

11. Voice (Menu 7)



■ Voice dialing

You can dial up to 10 stored numbers using voice dialing.

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.

Assign a voice tag to an entry

Before you can use voice dialing, you must first assign a voice tag to the number.

1. At the start screen, scroll down to enter the contacts list.
2. Highlight the contact you want to assign a voice tag, press *Details* > *Options* > *Add voice tag* > *Start*.
3. Speak clearly into the microphone.



Note: Do not press *Quit* unless you want to cancel the recording.

The phone automatically stops recording and saves and replays the voice tag. The  icon appears next to commands which have voice tags assigned.

If recording is not successful, your phone displays *Voice system error*. Press *Options* > *Add voice tag*, and repeat Step 3.

Dial a number

1. Press and hold *Contacts*.
2. When you hear several beeps and *Please speak now* appears, release the key.

3. Pronounce the voice tag clearly into the microphone.

When the phone finds the voice tag, *Found:* appears, and the phone automatically dials the number. If the phone does not locate a number or recognize the voice tag, *No match found* appears.

Voice tags

After you have associated a voice tag to a contact, you can choose one of the following options:

Play back

1. Select *Menu > Voice > Voice tags*.
2. Press *Select*, and scroll to the name with the voice tag you want to hear.
3. Select *Options > Playback*.

Change

1. Select *Menu > Voice > Voice tags*.
2. Press *Select*, and scroll to the name with the voice tag you want to change.
3. Select *Options > Change*.
4. Press *Start*. The phone repeats your voice tag, and *Voice tag saved* appears.

Delete

1. Select *Menu > Voice > Voice tags*.
2. Press *Select*, then scroll to the name with the voice tag you want to erase.
3. Select *Options > Delete > OK*.

Voice commands

You can set as many as five voice commands, which allow hands-free operation of certain phone features.

Assign a voice tag to a command

Before using voice commands, you must first add a voice tag to the phone function.

1. At the start screen, select *Menu > Voice > Voice commands*.

2. Select the phone function you wish to tag (*Profiles*, *Voice mailbox*, *Recorder* or *Call log*).
3. If necessary, scroll to an option associated with that function, and press *Select*.
4. Select *Options > Add command*.
5. Press *Start*, and speak the voice tag clearly into the microphone.



Note: Do not press *Quit* unless you want to cancel the recording.

The phone replays and saves the recorded tag. The  icon appears next to commands which have voice tags assigned.

Activate a voice command

After you have associated a voice tag with a phone function, you can issue a command by speaking the voice tag.

1. Press and hold *Contacts*.
2. When *Please speak now* appears, pronounce the voice tag clearly into the microphone.

When the phone finds the voice tag, *Found* appears, and the phone plays the recognized voice tag through the earpiece. The function you requested is activated.

Options

After you have associated a voice tag to a command, you can choose one of the following options:

- Select *Playback* to listen to the voice command tag.
- Select *Change* to change the voice command.
- Select *Delete* to erase the voice command tag.

■ Voice recorder

This feature allows you to record pieces of speech or sound with your phone and listen to them later. The total available time is 30 seconds if no memos have been stored. The maximum length of a recording depends on how much memory remains available. The voice recorder cannot be used when a data call connection is active.

Record speech or sound

1. At the start screen, select *Menu > Voice > Voice recorder > Record*.
2. After the recorder start tone is heard, begin recording speech or sound.
3. When you are finished recording, press *Stop*.
4. Enter the title you wish to assign to the recording, and press *OK*.

Options

After you have saved the recording to the *Recordings list*, highlight the recording, and choose one of the following options:

- Select *Playback* to listen to the recording using the earpiece.
- Select *Delete* to erase the recording.
- Select *Edit title* to rename the recording.
- Select *Add alarm* to add an alarm to the recording.

12. Minibrowser (Menu 8)



Minibrowser is a network service. See Network services, 6 for more information.

Your phone has a built-in browser you can use to connect to selected services on the mobile internet. If your wireless service provider supports this feature, then you can view weather reports, check news or flight times, view financial information, and much more. The web browser on your phone can display WAP-based content.

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 and content, as you would with any Internet site.

■ Mobile internet access

Because mobile internet content is designed to be viewed from your phone, your wireless provider is now your mobile internet service provider as well.

It is likely that your wireless provider has created a home page and set up your browser to go to this page when you log on to the mobile internet. Once at your service provider's home page, you may find links to a number of other sites.

It should not be necessary to manually configure the browser on your phone. Normally this is done by your wireless provider once you have subscribed to the feature. Contact your wireless provider if you have problems using the browser.

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.

■ Sign on to the mobile internet

At the start screen, select *Menu > Minibrowser > Connect*.

After a brief pause, your phone attempts to connect to your wireless provider's home page. If you receive an error message, your phone may not be set up for browsing. Contact your wireless provider to make sure that your phone is configured properly.

■ Navigate the mobile internet

Since your phone screen is much smaller than a computer screen, mobile Internet content is displayed differently than you may be accustomed to seeing. This section contains guidelines for using phone keys to navigate a WAP site.

Phone keys

- To display the Minibrowser home screen, press the **Power** key.
- To browse the WAP site, scroll up or down.
- To select a highlighted item, press **Select**.
- To enter letters and numbers, press a key from **0–9**.
- To enter special characters, press *****.

Receive a call while online

Depending on your wireless service provider, you may still be able to receive a voice call while using the WAP browser.

- To answer the incoming call, press the **Talk** key.
- To reject the incoming call, press the **End** key.

After you end your voice call, the mobile internet connection automatically resumes.



Note: If your wireless service provider does not support incoming calls while browsing, the incoming calls are automatically diverted to voice mail.

Make an emergency call while online

You can end your data connection and make an emergency call.

1. To close your mobile internet connection, press the **End** key.
2. Press the **End** key as many times as needed to clear the display and ready the phone for calls.
3. Enter the emergency number for your present location (for example, 911).
Emergency numbers vary by location.
4. Press the **Talk** key.

Clear the cache and disconnect

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 accessed is stored in the cache. To empty the cache while in the browser menu, select **Navigate > Advanced > Clear > Cache** from the home page. You can also clear the cache by pressing and holding the **Power** key to power off your phone.

To close your mobile internet connection while browsing, press and hold the **End** key.

13. Organizer (Menu 9)



Your phone contains features to help organize your everyday life, including an alarm clock, calendar, calculator, countdown timer, and stopwatch.

■ Alarm clock

Set an alarm

The alarm clock is based on the phone clock. It sounds an alert any time you specify and even works if the phone is turned off.

1. At the start screen, select *Menu > Organizer > Alarm clock > Alarm time*.
2. Enter the time for the alarm (in hh:mm) format, and press *OK*.
3. Select *am* or *pm* (if 12-hour format is selected).

Alarm on appears briefly in the display and  appears on the start screen.

Change the time

1. At the start screen, select *Menu > Organizer > Alarm clock > Alarm time > On*.
2. Enter the time for the alarm (in hh:mm) format, and press *OK*.
3. Select *am* or *pm* (if 12-hour format is selected).

Alarm on appears briefly in the display and  appears on the start screen.

Set the alarm tone

You can set which tone is played when the alarm sounds.

1. At the start screen, select *Menu > Organizer > Alarm clock > Alarm tone*.
2. Highlight *Standard*, *Ringing tone*, or *Open Gallery* to choose the tone of your choice, and press *Select*.

Alarm conditions

When the alarm sounds, your phone beeps, vibrates, and the display lights up.

With the phone on, press *OK* to shut the alarm off, or press *Snooze*. The alarm stops for 10 minutes and *Snooze on* appears in the display.



Note: If you do not press a key, the alarm stops (snoozes) for 5 minutes, then sounds again.

If the alarm time is reached while the phone is switched off, the phone switches itself on and starts sounding the alarm tone. If you press *Stop*, the device asks whether you want to activate the phone 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.

Turn an alarm off

At the start screen, select *Menu > Organizer > Alarm clock > Alarm time > Off*.

■ Calendar

The calendar keeps track of reminders, calls you need to make, meetings, and birthdays. It can even sound an alarm for any of these events.

Monthly view provides an overview of the selected month and weeks. It also allows you to jump to a specific date. Any days or dates that appear in bold font contain calendar notes such as a meeting or reminder.

Open

At the start screen, select *Menu > Organizer > Calendar*.



Note: To open the calendar quickly, scroll right from the start screen. The right scroll key can perform different functions depending on your network service.

You can move the cursor in some calendar views by using the **Four-way scroll** key.

Go to a date

1. At the start screen, select *Menu > Organizer > Calendar > Options > Go to date*.
2. Enter the date (for example, 07/15/2004), and press *OK*.

Note a specific date

You can choose from five types of notes: *Meeting*, *Call*, *Birthday*, *Memo*, and *Reminder*. Your phone asks for further information depending on which note you choose. You also have the option to set an alarm for any note that you select.

1. Go to the date for which you want to set a reminder. (See *Go to a date*, 74 in the previous section if you need more information.)
2. From the monthly view (with the go to date highlighted), select *Options > Make a note*.

3. Select one of the following note types:

Meeting—You are prompted to enter a subject, location, and a start/end time. You are then given the option to set an alarm.

Call—You are prompted to enter a phone number, a name, and the time. You are then given the option to set an alarm.

Birthday—You are prompted to enter the person's name, and year of birth. You are then given the option to set an alarm.

Memo—You are prompted to enter a subject and an end date and given the option to set an alarm.

Reminder—You are prompted to enter the subject you wish to be reminded about and given the option to set an alarm.

4. Enter your note, and select *Options > Save*.

View notes (day view)

After you have created some calendar notes, you can view them as follows:

1. At the start screen, select *Menu > Organizer > Calendar*.
2. Scroll to the date containing the note. (Any days containing notes will be in bold font.)
3. Select *Options > View day*.
4. To view a highlighted note, select *Options > View*.

Options while viewing a list of notes

1. Press *Options* while viewing a day's notes to display options that are available with the options listed below while viewing the body of a note or viewing the header of a note:

View—View the full note.

Make a note—Create a new note for the selected date.

Delete—Delete the note.

Edit—Edit the note.

Move—Move the note to another date on your calendar.

Repeat—Enable the note to recur on a regular basis (daily, weekly, biweekly, monthly, and yearly).

Go to date—Jump to another date on your calendar.

Send note—Send the note to another device as a text message or in calendar-to-calendar (vCal) format.

Copy—Copy the note, and paste it to another date.

Settings—Set the date and time, date and time format, the day each week starts and whether you want your notes to auto-delete after a specified time.

2. Scroll to an option, and press *Select* to activate it or enter its submenu.

Send a note

1. At the start screen, select *Menu > Organizer > Calendar*.
2. Scroll to the date containing the note you wish to send. (Any days containing notes will be in bold font.)
3. Select *Options > View day*.
4. Scroll to the note you wish to send, and select *Options > Send note > Via calendar or Via text msg*.
5. If you selected *Via calendar*, enter the number for the recipient, or press *Search* to retrieve a number from the contacts list, and press *OK*. The note is sent.
6. If you selected *Via text message*, the note appears as a text message in the display.
7. Select *Add number*.

8. Enter the number for the recipient, or press *Search* to retrieve a number from the contacts list, and press *OK*.
9. Select *Options > Send*.

Receive notes

When you receive a calendar note in calendar-to-calendar (vCal) format, your phone displays *Calendar note received*. When you receive a calendar note as a text message, a message notification appears on the start screen. You can then save the note in your calendar and set an alarm for any date and time.

View notes

1. When your phone displays *Calendar note received*, press *Show*.
2. Scroll to view the entire message, if necessary.

Save notes

After viewing the calendar note, select *Options > Save*.

Discard notes

After viewing the calendar note, select *Options > Discard*.

■ Calculator

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



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

1. At the start screen, select *Menu > Organizer > Calculator*.
2. Enter the first number in the calculation. (Press *#* for a decimal point if necessary.)
To perform a square or square root calculation, select *Options > Square* or *Square root*.
3. Press *** to cycle through the add (+), subtract (-), multiply (*), and divide (/) characters. Pause briefly to select the displayed character.
4. Enter the second number in your calculation.
5. Press *Options* (equals is highlighted) and *Select*.

Currency converter

You can convert foreign currency to domestic, or vice versa, directly from the start screen or from the *Calculator* menu.

1. At the start screen, enter a currency amount to convert, or select *Menu > Organizer > Calculator* and enter a currency amount to convert.
2. Select *Options > To home* or *To foreign*.
To home—converts foreign currency to domestic currency.
To foreign—converts domestic currency to foreign currency.
If you have not done so already, you are prompted to enter the exchange rate.
3. Enter the exchange rate (press # to insert a decimal), and press *OK*.

You can also edit the exchange rate at any time.



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

1. At the start screen, select *Menu > Organizer > Calculator > Options > Exchange rate > Foreign unit expressed in domestic units* or *Domestic unit expressed in foreign units*.
Foreign unit expressed in domestic units—the number of home units it takes to make one unit of foreign currency.
Domestic unit expressed in foreign units—the number of foreign units it takes to make one unit of your home currency.
2. Enter the exchange rate, and press *OK*.

■ Countdown timer

You can enter a specified time (up to 99 hours and 59 minutes). When the time runs out, your phone sounds an alarm.



Note: The countdown timer only works when the phone is on. Once you turn off your phone, the timer is no longer active.

Set the countdown timer

1. At the start screen, select *Menu > Organizer > Countdown timer*.
2. Enter the time (in hh:mm format), and press *OK*.

3. Enter a note for the timer, and press *OK*.

The  icon appears on the start screen when the countdown timer is set.

When the time runs out, your phone sounds an alarm, displays the timer note, and flashes its lights.

- Press any key during the alarm to stop the timer.
- After 30 seconds the timer alert expires automatically.

Change the time

After you have set the timer, you can change the time.

1. At the start screen, select *Menu > Organizer > Countdown timer > Change time*.
2. Enter the new time, and press *OK*.
3. Leave the note as it was, or enter a new note, and press *OK*.

Stop the timer before the alarm sounds

After you have set the timer, you can stop the timer.

At the start screen, select *Menu > Organizer > Countdown timer > Stop timer*.

Stopwatch

Your phone has a stopwatch that can be used to track time. The stopwatch displays time in hours, minutes, seconds and fractions of a second in hh:mm:ss.s format.

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

Measure time

1. At the start screen, select *Menu > Organizer > Stopwatch > Split timing*.
2. Press *Start* to begin split timing. The running time is displayed on the screen.
3. Press *Stop* to end the timing. The total time is displayed on the screen.

Measure split time

You can use the split time function for such things as a long distance race when you need to pace yourself.

1. At the start screen, select *Menu > Organizer > Stopwatch > Split timing > Start*.

2. Press *Split* to note the lapsed time.

The timer continues to run. The split time appears below the running time. If you split the time more than once, the new measured time appears at the beginning of the list. You can scroll to see previous measured times.

3. Press *Stop* to end the split timing.

Measure lap time

You can use the lap time function when you want to track how long it takes to complete each cycle or lap.

1. At the start screen, select *Menu > Organizer > Stopwatch > Lap timing > Start*.

2. Press *Lap* to note the lap time.

The clock stops, then starts immediately from zero. The lap time appears below the running time. If you take more than one lap time, the new measured time appears at the beginning of the list. You can scroll to see previous measured times. When you press *Stop*, the total time appears at the top.

Save the lap time

1. While the clock is running, select *Stop > Options > Save*.

2. Enter a name for the measurement, and press *OK*.

If you do not enter a name, the total time is used as the default title for the lap time.

Operation note

If you press the **End** key and return to the start screen, the clock continues to run in the background and the  icon appears in the upper left corner of the screen.

To return to the stopwatch screens:

1. At the start screen, select *Menu > Organizer > Stopwatch > Continue*.

2. To stop the clock, press *Stop*.

Options

You can choose the following options when using the stopwatch:

Continue—Shows up when the stopwatch is working in the background.

Show last time—Allows you to view the last measured time.

View times—Allows you to browse the saved times.

Delete times—Allows you to delete any saved times. You can delete the saved times one by one or all at once.

14. Applications (Menu 10)



Applications is a network service. See Network services, 6 for more information.

If your wireless service provider supports this feature, you will find useful applications pre-installed on your phone. Also, you can manage and download new applications that may be offered by your wireless provider.

■ Launch

1. At the start screen, select *Menu > Applications > Select app*.
2. Scroll to an application, and press *Options*, highlight *Open*, and press *Select* or the Talk key.



Note: An application may require a few seconds to load. When you open an application, wait for the launch screen to disappear. At that point, the application is ready.

■ Download

You can download new applications in different ways.



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



Note: When you download a game or an application, it may be saved in the *Games* menu instead of the *Applications* menu.

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

Browser downloads

Browser downloads is a network service. See Network services, 6 for more information.

1. At the start screen, select *Menu > Applications > App. downloads*.
2. Press *Select* to access the list of web browser bookmarks.
3. Scroll to the appropriate bookmark that contains the application you wish to download, and press *Select* to connect to the web page.

If the connection fails, you may enter the *Applications* menu and activate another set of service settings.

PC Suite

Nokia PC Suite is a collection of powerful tools that you can use to manage your phone features and data. Each component is a separate program that includes online helps. Nokia PC Suite software, installation instructions, and other documentation is provided free of charge and can be downloaded from the software downloads of the Nokia web site: www.nokia.com/us.



Note: Some of the features in your phone require network support. Contact your service provider for availability and configuration instructions.

■ Memory status

You can view the size of memory available for game and application installations. At the start screen, select *Menu > Applications > Memory*.

15. Enhancements



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



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

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

A few practical rules about accessories and enhancements:

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

(updated enhancement list from Jeremy)

Power

- Standard 1070 mAh Li-Ion Battery (BL-6C)
- Standard Travel Charger (ACP-7)
- Travel Charger (ACP-12)
- Mobile Charger (LCH-12)
- Retractable Charger (AC-1)

Audio

- Headset (HS-5)
- 2.5mm Headset (HS-9)
- Boom Headset (HDB-4)

- Loopset (LPS-4)
- FM Radio Headset (HS-2R)
- Retractable Headset (HS-10)

Data

- Data Cable (DKU-5)
- Desk Stand with Sync (DCV-15)

Car

- Full Car Kit (CK-6)
- Car Installation Kit (CARK-126)
- Mobile Holder (MBC-17)
- Mobile Lighter Charger (LCH-12)
- Headrest Handsfree (BHF-1)

16. 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.

■ Batteries and chargers

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 after the battery has finished charging. 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.

Care and maintenance

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

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

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.

To maintain compliance with radio frequency exposure guidelines only use enhancements approved by Nokia for use with this device. When the device is on and being worn on the body, always use an approved carrying case.

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

PACEMAKERS

Pacemaker manufacturers recommend that a minimum separation of 6 inches (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 their pacemaker when the device is switched on
- Not carry the device in a breast pocket
- Hold the device to the ear opposite the pacemaker

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

HEARING AIDS

Some digital wireless devices may interfere with some hearing aids. If interference occurs, consult your 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 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 turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Switch off the device at refuelling points such as near gas pumps at service stations. Observe restrictions on the use of radio equipment in fuel depots, storage, and distribution areas, chemical plants or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often but not always clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), and areas where the air contains chemicals or particles such as grain, dust or metal powders.

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.

To make an emergency call:

1. If the phone 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 phone for calls.
3. Key in the official emergency number for your present location. Emergency numbers vary by location.
4. Press the **Talk** key.

If certain features are in use, you may first need to turn those features off before you can make an emergency call. Consult this guide or your service provider. When making an emergency call, give all the necessary information as accurately as possible. Your wireless phone may be the only means of communication at the scene of an accident. Do not end the call until given permission to do so.

■ Certification Information (SAR)

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

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

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg.* Tests for SAR are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is

because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

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

When tested for use at the ear:

Nokia 6011i: 1.25 W/kg

When worn on the body, as described in this user guide:

Nokia 6011i: 0.57 W/kg

(Body-worn measurements differ among phone models, depending upon available enhancements and FCC requirements).

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

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

QMNRH-58 for the Nokia 6011i

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

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

■ Technical information

Dimensions—Width 1.96 in (49.9 mm); length 4.26 in (108.3 mm); depth 0.91 in (23.2 mm)

Weight —3.87 oz (109.6 g) with BL-6C Li-Ion Battery

Volume—5.95 cu in (97.5 cu cm)

Frequency range (Tx)—PCS 1851.25–1908.75 MHz

Frequency range (Rx)—PCS 1931.25–1988.75 MHz

■ 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): up to 1 hour 45 minutes

Standard Travel Charger (ACP-7): up to 3 hours 45 minutes

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: up to 3.7 hours

Standby time: up to 15 days

■ Patent information

Manufactured or sold under one or more of the following US patents:

D405445	5491718	5758278	5887250	6025802	6088342	6377813
D406583	5596571	5790957	5887252	6029065	6148209	6414640
D414189	5642377	5793744	5889770	6047071	6154455	6434186
D405784	5699482	5796757	5929813	6055264	6167038	6459689

D423515	5701392	5802465	5990740	6072787	6205325	6463031
4969192	5708656	5821891	5991627	6076181	6253075	6466173
5440597	5737323	5854978	6005889	6078570	6292474	6480700
5444816	5754976	5859843	6009129	6084471	6332083	6480155
6486835	6496150	6570909	6580771	6587685		

Others

4558302	4901307	5056109	5101501	5109390	5265119	RE32580
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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 is keeping us in touch, simplifying our lives, protecting us in emergencies and providing opportunities to help others in need. When it comes to the use of wireless phones, safety is your most important call.

Wireless Phone "Safety Tips"

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

1. Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.
2. When available, use a hands-free device. A number of hands-free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.

3. Position your wireless phone within easy reach. Make sure you place your wireless phone within easy reach and where you can grab it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.
4. Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.
5. Do not take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a "to do" list while driving a car, you are not watching where you are going. It's common sense. Don't get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip—dial only a few numbers, check the road and your mirrors, then continue.
7. Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix—they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations—with your phone at your side, help is only three numbers away. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!
9. Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a "Good Samaritan" in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special wireless 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.

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

Appendix B

Message from the FDA (U.S. Food and Drug Administration) to all users of mobile phones.

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

Consumer Update on Wireless Phones

U.S. Food and Drug Administration

1. Do wireless phones pose a health hazard?

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

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

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

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

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

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

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

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

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones. FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

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

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

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

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the

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

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

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

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop – if they do – may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

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

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

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

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

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

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects.

Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fcc.gov/oet/rfsafety>) gives

directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

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

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques, sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

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

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

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

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

10.What about children using wireless phones?

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

11.What about wireless phone interference with medical equipment?

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

12.Where can I find additional information?

For additional information, please refer to the following resources:

- FDA web page on wireless phones
<http://www.fda.gov/cdrh/phones/index.html>
- Federal Communications Commission (FCC) RF Safety Program
<http://www.fcc.gov/oet/rfsafety>
- International Commission on Non-Ionizing Radiation Protection
<http://www.icnirp.de>
- World Health Organization (WHO) International EMF Project
<http://www.who.int/emf>
- National Radiological Protection Board (UK)
<http://www.nrpb.org.uk/>

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