



SGH-i520

User's Guide



- * Depending on the software installed or your service provider or country, some of the descriptions in this guide may not match your phone exactly.
- * Depending on your country, your phone and accessories may appear different from the illustrations in this guide.
- * Bluetooth QD ID: B012404



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Important safety precautions

Read these guidelines before using your wireless phone. Failure to comply with them may be dangerous or illegal.

Drive safely at all times

Do not use a hand-held phone while driving. Park your vehicle first.

Switch off the phone when refuelling

Do not use the phone at a refuelling point (service station) or near fuels or chemicals.

Switch off in an aircraft

Wireless phones can cause interference. Using them in an aircraft is both illegal and dangerous.

Switch off the phone near all medical equipment

Hospitals or health care facilities may be using equipment that could be sensitive to external radio frequency energy. Follow any regulations or rules in force.

Interference

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

Be aware of special regulations

Meet any special regulations in force in any area and always switch off your phone whenever it is forbidden to use it, or when it may cause interference or danger.

Water resistance

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

Sensible use

Use only in the normal position (held to your ear). Avoid unnecessary contact with the antenna when the phone is switched on.

Emergency calls

Key in the emergency number for your present location, then press .

Keep your phone away from small children

Keep the phone and all its parts, including accessories, out of the reach of small children.

Accessories and batteries

Use only Samsung-approved batteries and accessories, such as headsets and PC data cables. Use of any unauthorised accessories could damage you or your phone and may be dangerous.

CAUTION:

- The phone could explode if the battery is replaced with an incorrect type.
 - Dispose of used batteries according to the manufacturer's instructions.
-



At very high volumes, prolonged listening to a headset can damage your hearing.

Qualified service

Only qualified service personnel may install or repair your phone. Failure to do so may invalidate the warranty.

For more detailed safety information, see “Health and safety information” on page 162.

Notes:

- While using your phone, data may be deleted or corrupted due to system malfunctions or operating mistakes. Back up your important data using external storage devices.
 - Be careful not to remove the battery while storing data. Doing this may delete or corrupt your data.
 - Extremely high or low temperatures may cause errors in the screen display or a system malfunction. The phone functions best in a normal temperature range.
-

Getting started

Congratulations on the purchase of your new Smartphone! This chapter helps you set up your phone, charge the phone's batteries, and familiarise yourself with its different components.

What's in the box?

Your package contains the following items:

- Phone
- Battery
- Travel adapter
- PC data cable
- Headset
- Quick Reference Guide
- PC Studio CD¹

In addition, you can obtain the following accessories for your phone from your local Samsung dealer:

- | | |
|------------------------------|----------------|
| • Standard/Extended battery | • Headset |
| • PC data cable | • PC Studio CD |
| • Travel adapter | • Hand strap |
| • Car cradle | • Memory card |
| • Stylish hands-free car kit | |

Note: The items supplied with your phone and accessories available at your Samsung dealer may vary, depending on your country or service provider.

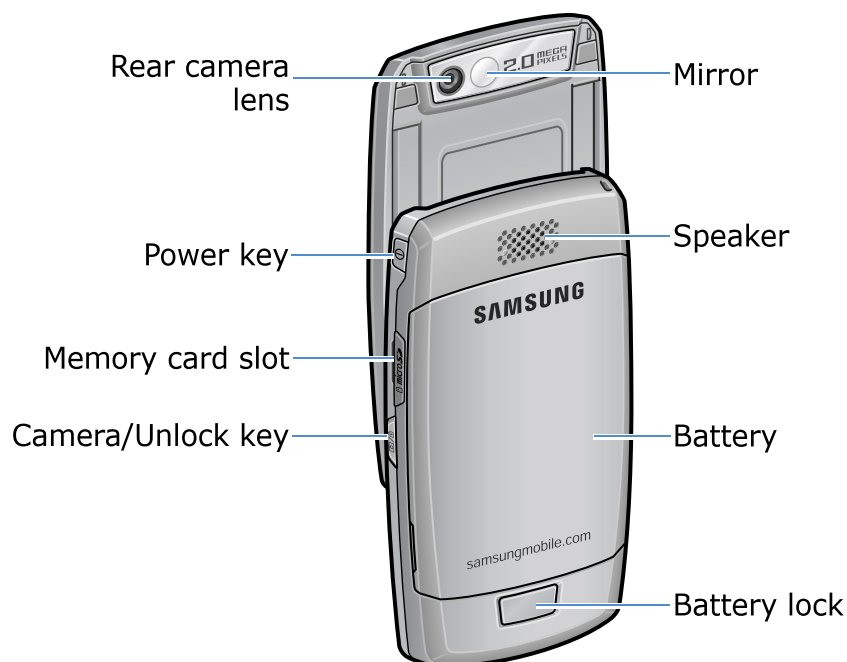
1. The PC Studio CD contains PC Studio, Add-on software, and applications.

■ Getting to know your phone

Front view



Rear view



Key	Description
	• Press and hold to turn the phone on or off. • Press to access the Quick Menu list.
	Press to perform the command shown on the screen immediately above the keys.
	• Press to open the main menu screen, which contains a list of available features and applications. • Press and hold to open a window which shows all of the currently running applications.
	• Press to scroll through items on a screen. • Press to move the cursor in a text input field.
	Press to confirm your selection.

Key	Description
	- Press to make or answer a voice call. - Press to access call logs.
	- Press to delete characters in a text field. - Press to delete contents in any application or remove add-on applications.
	Press to end a call or exit an application.
	- Press to enter numbers and characters. - Press and hold  to access the voicemail server in Standby mode.
	- Press to enter an international call prefix or pauses when entering a phone number. - Press and hold to display a list of symbols in a text input field.
	- Press to change the text input mode or case in a text input field. - Press and hold to activate or deactivate the Silent profile.
	- Press to adjust the key tone volume in Standby mode. - Press to adjust the earpiece volume during a call.
	Press and hold to launch the music player.
	- Press and hold to turn on the camera. - Press to take a photo or record a video in Camera mode. - Press to unlock the exposed keys when the phone is closed.

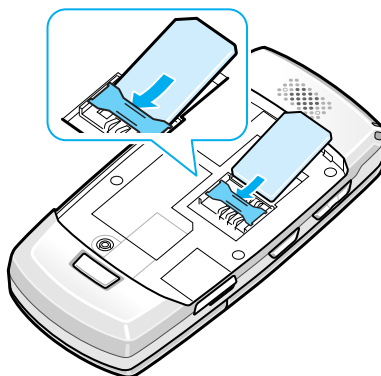
Inserting the USIM/SIM card

When you subscribe to a cellular network, you are provided with a plug-in USIM/SIM card loaded with your subscription details, such as your PIN, any optional services available, and much more.

- Keep all USIM/SIM cards out of the reach of small children.
- The USIM/SIM card and its contacts can easily be damaged by scratches or bending, so be careful when handling the card.
- When installing the USIM/SIM card, make sure that your phone is switched off before removing the battery.

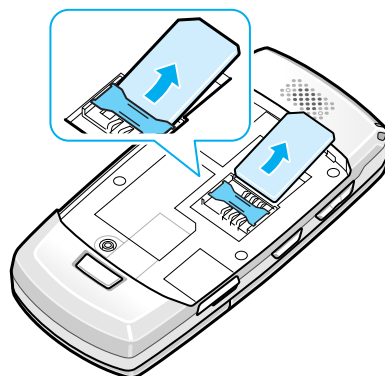
Inserting the USIM/SIM card

1. Remove the battery, if necessary. See page 15.
2. Insert the USIM/SIM card into the card holder, as shown.



Removing the USIM/SIM card

Remove the card from the holder, as shown.



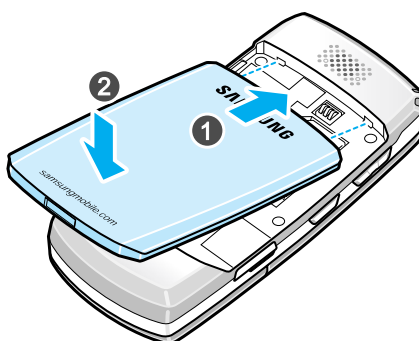
■ Attaching the battery

Your phone is powered by a rechargeable Li-ion battery. Use only approved batteries and adapters. Ask your local Samsung dealer for further details.

Note: You must fully charge the battery before using your phone for the first time. See page 15.

Attaching the battery

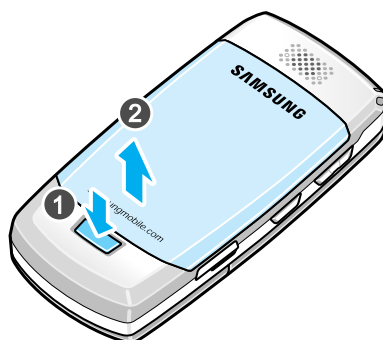
Place the battery on the back of the phone and press the battery until it clicks into place.



Make sure that the battery is securely locked before switching on the phone.

Removing the battery

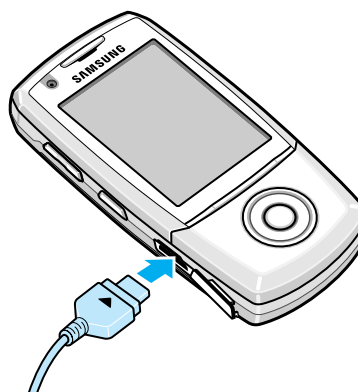
1. If necessary, switch off the phone by pressing and holding  until the power-off image displays.
2. Press the battery lock and lift the battery away from the phone.



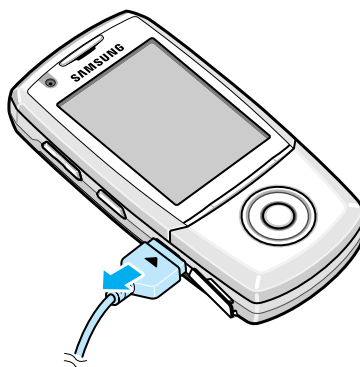
Charging the battery

Note: The phone can be used while the battery is being charged, but this causes the battery to charge more slowly.

1. Plug the connector of the travel adapter into the jack on the phone.



2. Plug the travel adapter into a standard AC power outlet.
3. When the battery is fully charged, unplug the travel adapter from the power outlet and then remove it from the phone.



Switching the phone on or off

1. Press and hold  until the power-on image displays.
2. If the phone asks for a PIN, enter the PIN supplied with your USIM/SIM card and press the **OK** soft key.
3. If the phone asks for a lock code, enter the code and press the **OK** soft key. The default lock code is **00000000**. To change the lock code, see page 123.

If you turn on the phone for the first time, the first setup procedure begins.

4. Select your region.
5. Select your city.
6. Enter the current date and press the **OK** soft key.

7. Enter the current time and press the **OK** soft key. To change to AM or PM for 12-hour format, press the Up or Down key, or any number key.

The phone searches for your network, and after finding it, the standby screen appears on the display. Now, you can make or receive a call.

Note: To change the display language, use the **Language** option in **Settings** → **General** → **Personalisati...** For further details, see page 122.

8. To switch off the phone, press and hold  until the power-off image displays.

Note: If you have cancelled before finishing the region and time setup, the setup procedure will start again the next time you turn on the phone.

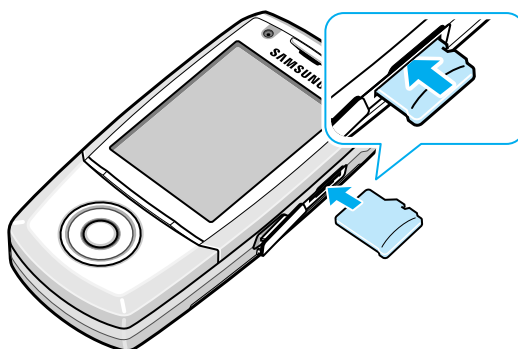
Using an optional memory card

Using a memory card, you can store multimedia files, such as video clips, music and sound files, photos, and messaging data, and back up information from your phone's memory. Your phone is compatible with a microSD card.

Important! Use only compatible memory cards with your phone. Using incompatible memory cards, such as Secure Digital (SD) cards, may damage the card, as well as the phone, and data stored on the card.

Inserting a memory card

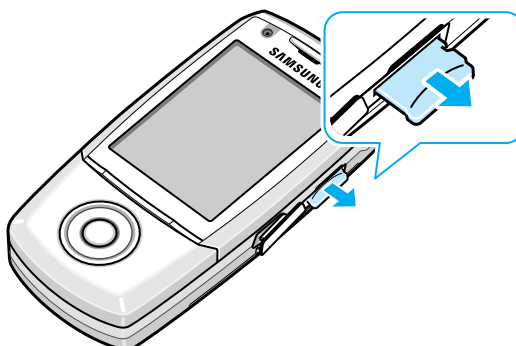
1. Insert the card into the memory card slot with the label facing up.
2. Push the card in until it locks into place. You will hear a beep.



3. Close the memory card cover.

Removing the memory card

1. Press  and select **Remove memory card**.
2. Press the **Yes** soft key to confirm.
3. Open the card cover and push the card in to release it. Then remove the card from the card slot.



4. Press the **OK** soft key.

WARNING!

- Removing the memory card without following the procedure above may cause damage to your data and memory card.
 - If you need to reboot the phone while installing an application on the memory card, do not remove the card until the reboot is complete; otherwise the application files may be lost.
-

General information

Your phone provides various functions which are very handy for daily use and for entertainment. This chapter gives you general information for using the functions.

Indicators related to actions

One or more of the following icons may be shown when the phone is in Standby mode:

Indicator	Meaning
	Shows the received signal status. The greater the number of bars, the stronger the signal. • : GSM/GPRS network • 3G: WCDMA network • 3G+: HSDPA network
	Indicates that you have an active alarm.
	Indicates that a new message has been received. • : Message • : Voicemail • : Email
	Appears when your phone is trying to send a message.
	Appears when a call diverting option is active. If you have two phone lines, the appropriate number appears on the indicator.
2	Indicates the currently selected line.

Indicator	Meaning
	Appears when you missed a call.
	Appears when Bluetooth is active.
	Appears when a stereo headset is connected to your phone.
	Appears when a mono headset is connected to your phone.
	Appears when your phone is connected to a PC via USB.
	Appears when you are in Home Zone, if registered to an appropriate service.
	Appears when the keypad is locked.
	Appears when a memory card is inserted into your phone.
	Shows the remaining battery power level.

Menu screen

From the Menu screen, you can access all of the applications for your phone. Press  to open the Menu screen.

Opening applications or folders

Scroll to an application or a folder using the Navigation keys and press  to open it.

Closing applications

- Press ,
- Press the **Exit** soft key,
- Select **Options** → **Exit**, or
- Press the **Back** soft key as many times as you need to return to Standby mode. Any unsaved data is saved automatically.

Rearranging applications

You can rearrange applications or folders on the Menu screen, and move applications into folders.

To change the location of an application on the Menu screen:

1. On the Menu screen, scroll to the application you want to move.
2. Select **Options** → **Move**.
A check mark is placed on the selected application.
3. Move the selection to a desired location and press the **OK** soft key.

To move an application to a folder:

1. On the Menu screen, scroll to the application you want to move.
2. Select **Options** → **Move to folder**.
3. Select a folder.
4. Press the **Move** soft key.

Note: You can add a new folder by selecting **Options** → **New folder**.

Switching between applications

Your phone is a multi-tasking device, which means that it can run multiple applications at the same time. If you switch to another applications without closing the application you were using, the previous one is inactive but still running.

If you have several applications open and want to switch from one to another, press and hold . The application switching window opens, showing applications that are currently running.

Scroll to an application and press the **Select** soft key to go to it or press  to close it.

Adding applications

You can add applications to the Menu screen by downloading its installation files from the wireless web.

To download an application, select **Options** → **Download applications** from the Menu screen. You can select a bookmark for a preset website for download or enter the URL address of the website. After accessing the web site, search for an application and follow the onscreen instructions.

You can also download applications to your PC and install them in the phone using the PC Studio tool. Refer to the included CD-ROM for the program.

Actions common to all applications

Adding items

When you are in an application, select **Options** and then an option for creating a new item, such as **Create message**, **New contact**, **New entry**, or **New note**. Options for creating an item are different in each application.

For details on how to enter letters and numbers, see “Entering text” on page 27.

Opening items

To open an item on a list of files or folders, scroll to it and press  or select **Options** → **Open**.

Editing items

To edit an item, you may need to first open it for viewing. Then select **Options** → **Edit** and change its contents.

Renaming items

To give a new name to a file or folder, scroll to it and select **Options** → **Rename**.

Removing or deleting items

Scroll to the item and select **Options** → **Delete** or press . To delete multiple items at one time, you first need to mark them. See the next section, “Marking items.”

Marking items

There are several ways to select items on a list:

- To select one item at a time, scroll to it and select **Options** → **Mark/Unmark** → **Mark**. A check mark is placed next to the item.
- To select all of the items on the list, select **Options** → **Mark/Unmark** → **Mark all**.
- To unmark an item, scroll to it and select **Options** → **Mark/Unmark** → **Unmark**.
- To unmark all of the items, select **Options** → **Mark/Unmark** → **Unmark all**.

Sending items

You can send items, such as contact information, pictures, sounds, and calendar entries, via one of messaging services or via Bluetooth connections.

1. Open an item and select **Options** → **Send** or **Send business card**.
2. Select a method; the choices are **Via text message**, **Via multimedia**, and **Via Bluetooth**.
 - To send the item in a text message, see page 67.
 - To send the item in a multimedia message, see page 68.
 - To send the item via Bluetooth, see page 147.

Arranging items

You can arrange items, such as pictures, sounds, and messages, into folders.

Creating folders

1. Select **Options** → **New folder**.
2. Enter a folder name and press **OK** soft key.

Moving items to an application folder

1. Scroll to an item and select **Options** → **Move to folder** (shown only if there are folders available).
2. Select a subfolder, if necessary.
3. Scroll to the location to which you want the item moved and press the **Move** soft key.

Key lock mode

When you close the phone, it locks the exposed keys to prevent any unwanted phone operations, from accidentally pressing any of the keys.

To unlock the keypad, press  and then .

Note: You can set the phone to continue the current operation when you close the phone by changing the **Slide down** setting in **Settings** → **Phone** → **Call**.

Entering text

You can enter text in two different ways: using the Traditional text input mode traditionally used in mobile phones—pressing a key repeatedly until the desired character displays, or Predictive text input mode using the built-in dictionary.

Changing the text input mode

You can change the text input mode by pressing , as follows:

- To select Traditional text input mode, press  until the indicator  **Abc** displays. Alternatively, press  and select **Predictive text** → **Off**.
- To select Predictive text input mode, press  until the indicator  **Abc** displays. Alternatively, press  and select **Activate predictive text**.
- To select Number mode, press  until the indicator  **123** displays. Alternatively, press  and select **Number mode**.
- To select Symbol mode, press and hold . Alternatively, press  and select **More symbols**.

Using Traditional text input mode

1. Press a number key until the character you want appears.
Note that there are more characters available for a number key than are printed on the key.
2. Select the other letters in the same way.

Note: If the next letter is located on the same key as the present one, wait until the cursor appears or press the Right key to end the time-out period, and then enter the letter.

Other Traditional text input operations

- To change cases, **ABC** (Uppercase), **Abc** (Initial capital), and **abc** (Lowercase), press .
- To remove a character, press . Press and hold  to clear more than one character.
- Press  to enter symbols.
- To insert a number quickly, press and hold the corresponding number key.
- To insert a space, press .

Using Predictive text input mode

1. Enter the desired word by pressing the keys  to . Press each key only once for one letter. The word changes each key press.

Note: The word match is evolving. Wait until you have entered the entire word before you check the result.

2. When you have finished entering the word, check that it is correct.
 - If the word is correct, go to the next step.
 - If the word is not correct, press  to view other matching words that the dictionary has found, one by one.

To add a word to the dictionary, press the **Spell** soft key, enter the word using Traditional text input, and press the **OK** soft key.

3. When the correct word displays, press  or the Right key so that the word is complete.

Other Predictive text mode operations

- To change cases, **ABC** (Uppercase), **Abc** (Initial capital), and **abc** (Lowercase), press .
- To remove a character, press . Press and hold  to clear more than one character.
- To insert a number, press and hold the corresponding number key.
- Press  and then  to enter the desired punctuation marks.

Tip: T9 mode tries to guess which commonly used punctuation mark (., ? ! ') is needed. The order and availability of the punctuation marks depend on the language being used.

- To view matching words that the dictionary has found one by one, press  when a word is active (underlined).

Copying and pasting text

1. Press  and select **Copy**.
2. Press the Left or Right key to move the cursor to the position you want.
3. Press the **Start** soft key.
4. Press the Left or Right key to highlight the text you want.
5. Press the **Copy** soft key.
6. Move the cursor to the position you want.
7. Press  and select **Paste** to insert the text.

Using PC Studio

PC Studio, which is contained on the PC Studio CD-ROM, is a Windows-based PIM (Personal Information Management) and Sync Manager program. Using this program, you can manage your contacts and schedule, synchronise your data between the phone and the PC, and explore the phone's file directory.

For further information on how to use the program, see the PC Studio help.

Notes:

- You need to set your phone's USB mode to **PC Studio**. See page 148.
 - PC Studio does not fully support Bluetooth dongles using the IVT protocol stack. If you have problems using PC Studio with your Bluetooth software on the PC, please check with the Bluetooth dongle or PC manufacturer's website for updates.
-

Installing PC Studio

1. Insert the PC Studio CD into the CD-ROM drive of your compatible PC.
2. Select the language you want and follow the instructions on the installation wizard screen.

Note: The USB driver is automatically installed during PC Studio installation.

Call functions

With your phone, you can make or answer video conference calls as well as normal voice calls. This chapter gives you information for using your phone's call functions.

Making a call

1. In Standby mode, use the keypad to enter an area code and phone number.

Press  to remove a wrong number.

For an international call, press  twice for the international call prefix, **+**, (this character replaces the international access code) and then enter the country code, area code without **0**, and phone number.

Note: Calls described here as international may in some cases be made between regions of the same nation.

2. Press  to make a call. To make a video call, select **Options** → **Call** → **Video call**.

Notes:

- To adjust the earpiece volume during a call, press /.
 - During a call, the keys are automatically locked to prevent you from launching unwanted operations. You need to unlock the keys by pressing  to use a key.
-

3. Press  or the **End call** soft key to end the call.

Note: Pressing  always ends a call, even if another application is active and displayed.

Accessing dialling options

After entering a number, press the **Options** soft key. You can access the following options:

- **Call**: makes a voice call or video call.
- **Send**: allows you to send a text message or multimedia message to the number.
- **Save to Contacts**: allows you to save the number in Contacts. For details, see page 39.

Making a call using Contacts

1. Press  and select **Contacts** to open your contact list.
2. Select the name you want.

Note: You can enter the first few letters of the name in the search field at the bottom of the screen. Matching contacts are listed.

3. Scroll to the number you want, if necessary.
4. Press  or select **Options** → **Call** → the call type you want.

Speed dialling

Once you have stored a number in Contacts, you can assign the most frequently-used numbers to the speed dialling keys  to  and then quickly and easily dial them with only one keypress. See "Assigning speed dialling keys" on page 42.

Dialling using a pause

When you call an automated system, like a banking service, you are required to enter a password or an account number. Instead of manually entering the numbers each time, you can enter the necessary DTMF tones separated by pauses before dialling.

Note: DTMF tones are the tones you hear when you press the number keys. DTMF tones allow you to communicate with computerised telephone systems, for example, voicemail servers or telebanking systems.

1. Enter the phone number you want to dial, such as a bank's teleservice number.

2. Press  repeatedly to insert a pause.

You can insert two types of pauses:

- **p**: inserts a pause of approximately two seconds between numbers. The numbers following "p" are sent automatically.
- **w**: inserts a manual pause between numbers. To send numbers following "w," you must press the **Send** soft key.

3. Enter a number to be sent after the pause, such as your account number, PIN, etc.

4. Repeat steps 2 and 3 to add more pauses and numbers, if necessary.

5. Press  to make a call.

6. After connecting, wait for a prompt from the system and press  at each prompt, if applicable.

The DTMF tones are sent.

Answering a call

1. To answer an incoming call, open the phone, if necessary, and press  or select **Options** → **Answer**.
 - Depending on the **Slide up** setting, you can answer a call simply by opening the phone.
 - To reject the call, press . The caller will hear a “line busy” tone.
 - To mute the call ringer, press the **Silence** soft key.

Note: If the Silent profile is active (see page 117), **Reject** displays in place of **Silence** to allow you to reject a call.

- Depending on the **Side volume key** setting, press and hold  to mute the call ringer or reject the call. See page 128.

Note: During a call, the keys are automatically locked to prevent you from launching unwanted operations. You need to unlock the keys by pressing  to use a key.

2. To end the call, press  or the **End call** soft key.

Note: To adjust the phone tones for different environments and situations, for example, when you want your phone to be silent, see “Profiles” on page 117.

Using options during a call

While a call is in progress, you can access the following options by pressing the **Options** soft key:

Note: Depending on the status of your call, for example, having a second call or a call on hold, available options vary.

- **Activate loudspeaker/Activate handset:** switches to Speakerphone mode or back to Normal mode.
- **Swap:** switches between the active call and the call on hold.
- **End active call:** ends the currently active call.
- **End all calls:** ends all of the active call and the call on hold.
- **Hold:** puts the current call on hold.
- **Unhold:** reactivates the call on hold.
- **Mute:** switches your phone's microphone off so that the other person on the phone cannot hear you.
- **Unmute:** switches your phone's microphone on.
- **New call:** makes a new call. When you select this option, the current call is placed on hold.
- **Conference:** makes a conference call. You can have a conversation with up to 5 participants.
- **Private:** (during a conference call) allows you to talk privately to one conference call participant. When the list of call participants appears, select one and press the **Private** soft key.
- **Drop participant:** (during a conference call) allows you to disconnect one conference call participant. When the list of call participants appears, select one and press the **Drop** soft key.

- **Transfer:** connects an incoming call or a call on hold with an active call and disconnects you from both calls.
- **Open active standby:** returns the display to the Standby screen while on a call.
- **Send MMS:** allows you to send a multimedia message.
- **Send DTMF:** allows you to send DTMF tones for numbers, such as passwords or bank account numbers. You can check or correct the numbers before sending.
- **Whisper mode:** turns on or off Whisper mode. Whisper mode automatically increases the microphone's sensitivity to allow the other person to hear your voice even though you may be whispering.
- **Switch to video call:** switches the current call to the video call.

Viewing call logs

In the Log application, you can monitor phone calls, call duration, and packet data connections registered by the phone.

Press  to open the Menu, and then select **Log**.

Recent calls

The phone records the phone numbers of missed, received, and dialled calls. The phone registers missed or received calls only if the network supports these functions.

Accessing dialled, received, and missed call logs

1. Select **Recent calls** from the Log main view.
2. Select a call log type.

3. Select a call log to view its details.

Note: You can quickly access dialled numbers by pressing  in Standby mode.

Erasing recent call logs

- To clear all recent call logs, select **Options** → **Clear recent calls**.
- To clear the selected call type's logs, open the call type whose contents you want to erase and select **Options** → **Clear list**.
- To clear an individual call log, open a log type, scroll to the log, and press  or select **Options** → **Delete**.

Call duration

From the Log main view, select **Call duration** to view the duration of the last call, dialled or received calls, and total calls.

Note: The actual time invoiced for calls by your service provider may vary, depending upon network features, rounding-off for billing, etc.

To reset the timers, scroll to the timer type you want and select **Options** → **Clear timers**. For this, you need to enter the lock code. The default lock code is **00000000**.

Packet data

You can check how much data, measured in bytes, has been transferred to and from your phone.

From the Log main view, select **Packet data**. The display shows the counters for all sent and received data, separately.

To reset the counters, select **Options** → **Clear counters**. For this, you need to enter the lock code. The default lock code is **00000000**.

Communication log

You can check the sender or recipient's name or phone number for each communication event.

From the Log main view, press the Right key and select a connection log from the list to view its details.

Note: Sub-events, such as a text message sent in more than one part and packet data connections, are logged as one communication event.

Erasing communication logs

To erase all of the log contents permanently, select **Options** → **Clear log**.

Setting log duration

From the call log list, select **Options** → **Settings** → **Log duration**. Select the length of time you want. Log events remain in the phone's memory for a specified number of days, after which they are automatically erased to free up memory. If you select **No log**, no log contents will be stored.

Contacts and Calendar

Contacts

In Contacts, you can store and manage a person's contact information, such as a name, phone numbers, and addresses, as a contact card.

Press  to open the Menu, and then select **Contacts**.

Creating contact cards

You can create contact cards and save them selectively in your phone's memory or the USIM/SIM card.

Creating a new contact card in the phone's memory

1. From the contact list, select **Options** → **New contact**. An empty contact card opens.
2. Fill in the fields you want.
3. To assign a caller ID image to the contact card, select **Options** → **Add thumbnail**, and then select an image.
4. To add information fields, select **Options** → **Add detail** → a detail item type, and then enter the appropriate information.

You can delete a field by selecting **Options** → **Delete detail**. To change the field name, select **Options** → **Edit label**.

5. Press the **Done** soft key to save the contact card.

Creating a contact card on the USIM/SIM card

1. From the contact list, and select **Options** → **SIM contacts** → **SIM directory**.

To create a contact card which can be used in Fixed Dialling mode, select **Fixed dial contacts**.

2. On the SIM directory screen, select **Options** → **New SIM contact**.
3. Enter a name and a phone number in each field.
4. Press the **Done** soft key to save the contact card.

Note: Once you have stored numbers on the USIM/SIM card, you can retrieve them by entering their location numbers, which are automatically assigned in the order in which the numbers were stored, and pressing . For example, pressing  and then  in Standby mode shows the first number stored on the USIM/SIM card.

Assigning your own number

You can register your phone number and name on the USIM/SIM card.

1. From the contact list, select **Options** → **SIM contacts** → **SIM directory**.
2. Select **Options** → **My numbers**.
3. Select the location you want.
4. Enter a name and a phone number.
5. Press the **Done** soft key to save the number.

Copying contact cards

- To copy contact cards from the USIM/SIM card to your phone's memory, select **Options** → **SIM contacts** → **SIM directory**. Scroll to the contact you want to copy and select **Options** → **Copy to Contacts**.
- To copy contact cards from the phone's memory to your USIM/SIM card, select the contact you want and select **Options** → **Copy to SIM directory**.
- To copy contact cards to or from a memory card, scroll to the contact you want and select **Options** → **Copy** → **To memory card** or **From memory card**.

Options when viewing contacts

To view details of a contact card, select the card from the contact list.

Contact information view shows all information on the contact card. If you have added an image to the contact card, the thumbnail image displays on the top left of the screen. The name field is always displayed in the contact information view, but other fields are displayed if they contain information.

Changing contact information

1. From the contact list, select the contact card you want to edit.
2. Select **Options** → **Edit**.
3. Enter new information for the contact.
4. Press the **Done** soft key to save your changes.

Assigning default numbers and addresses

If a person has several phone numbers or email addresses, you can define the default number and address.

1. Open a contact card and select **Options** → **Defaults**.
2. Scroll to a default number option to be set and press the **Assign** soft key.
3. Select one of the numbers stored in the selected contact card.
4. Press the **Back** soft key.

The number is set to a default number for the selected type. For example, if you select a number for **Video call number**, it becomes default for making a video call.

When you return to the contact card view, you will see the default phone number underlined. On the contact list, a type icon of the default phone number appears.

Assigning speed dialling keys

Speed dialling is a quick way to call frequently-used numbers. You can assign eight phone numbers to speed dialling keys  to . Number **1** is reserved for the voicemail server.

To assign a number to a key:

1. Open the contact card.
2. Scroll to the phone number you want and select **Options** → **Assign speed dial**.
3. Scroll to a number key and press the **Assign** soft key.
4. If speed dialling is not activated, press the **Yes** soft key.

When you return to the contact card view, you will see the speed dial icon  on the right side of the number.

To dial by speed dialling:

Make sure that the speed dialling setting is activated (see page 128), and press and hold the number key assigned to the number you want in Standby mode.

Adding a ringtone for a contact card

You can set a ringtone for each contact card and group. When a person calls you, the phone plays the chosen ringtone if the person's contact information is saved in Contacts.

1. Open a contact card.
2. Select **Options** → **Ringtone**.
3. Select the ringtone you wish to use for the contact or group.

Note: For an individual contact, the phone always uses the ringtone that was assigned last. If you first change a group ringtone and then the ringtone of a single contact that belongs to that group, the ringtone of the contact is used the next time the contact calls you.

Synchronising contacts with other devices

You can synchronise contact information between the phone and other Bluetooth devices using the default sync profile. From the contact list, select **Options** → **Synchronisation** → **Start**.

Managing contact cards by group

You can create contact groups, which can, for example, be used as distribution lists for sending text messages and emails.

Creating contact groups

1. From the contact list, press the Right key to open the group list.
2. Select **Options** → **New group**.
3. Enter a name for the group and press the **OK** soft key.
4. Select the group you just created and select **Options** → **Add members**.
5. Select the contacts you want to add and press the **OK** soft key.
6. Press the **Back** soft key to return to the group list.

Editing contact groups

From the group list, scroll to a group and:

- To change the group name, select **Options** → **Rename**.
- To assign a ringtone to the group, select **Options** → **Ringtone**.
- To remove members from the group, access the group's member list, and select **Options** → **Remove from group**.
- To delete the group, select **Options** → **Delete**.

Calendar

In Calendar, you can keep track of appointments, meetings, birthdays, anniversaries, and other events. You can also set a calendar alarm to remind you of upcoming events.

Press  to open the Menu, and then select **Organiser** → **Calendar**.

Creating calendar entries

1. On the monthly calendar, scroll to the date you want.
2. Select **Options** → **New entry** and select:
 - **Meeting** to remind you of an appointment that has a specific date and time.
 - **Memo** to write a general memo for a day.
 - **Anniversary** to remind you of birthdays or special dates. Anniversary entries are repeated every year.
 - **To-do** to write a task note.

3. Fill in the fields.

On the **Synchronisation** field, you can specify how your phone deals with the entry in synchronisation with a PC. If you select **Private**, after synchronisation the particular calendar entry can be seen only by you. If you select **Public**, the calendar entry is visible to those who have access to view your calendar online. If you select **None**, the calendar entry will not be copied to your PC when you synchronise your calendar.

4. Press the **Done** soft key to save the entry.

Viewing Calendar

You can view the calendar in the month, week, or day view.

Month view

When you access Calendar, you will see your appointments in the month view. You can change the default view screen. See page 49.

If you are viewing another view, press  repeatedly or select **Options** → **Month view**. In the month view, today's date is underlined and dates that have calendar entries are marked with icons at the bottom right corner.

- To move to the day view, select the date you want to open.
- To go to a certain date, select **Options** → **Go to date**. Enter the date and press the **OK** soft key.

Tip: Pressing  in the month or week view highlights today's date.

Week view

To switch to the week view, press  repeatedly or select **Options** → **Week view**. In the week view, today's date is underlined.

To view or edit an entry, select the cell that has the entry to switch to the day view and select the entry you want. The following entry icons are available in the week view.

- No icon: Meeting
In the week view, the synchronisation indicators display in different colours; orange for **Private**, green for **Public**, and blue for **None**.
-  : Memo
-  : Anniversary
-  : To-do

Day view

In the month view or week view, select the date you want to switch to the day view.

In the day view, calendar entries for the selected day appear. The entries are grouped according to their starting times. Day notes and anniversaries are placed at the top of the list.

To-do view

You can view a list of task notes. To switch to the to-do view, press  repeatedly or select **Options** → **To-do view**. Pressing  in this view marks or unmarks a task note.

Editing calendar entries

1. From the day view, select an entry.
2. Edit the entry fields.

To add a description about a meeting entry, select **Options** → **Add description**. You can create a new description note or select one of the existing notes.

3. Press the **Done** soft key.

Stopping a calendar alarm

The alarm duration is one minute. When the alarm sounds, press the **Stop** soft key to stop the calendar alarm or the **Silence** soft key to mute the alarm. If you press the **Silence** soft key, the **Snooze** soft key appears. Press the key to stop the alarm and cause it to sound again after a specified time.

Deleting calendar entries

When deleting calendar entries, you will have options to delete specific entries.

Deleting one entry

1. From the day view, select an entry.
2. Select **Options** → **Delete**.
3. When you delete a repeating entry, choose one of the following options:
 - **All occurrences**: all entries are deleted.
 - **This entry only**: only the currently selected entry is deleted.

Deleting all entries

1. From the month view, select **Options** → **Delete entry**.
2. Select one of the following options:
 - **Before date**: deletes all of the entries stored for the dates before a specified date.
 - **All entries**: deletes all of the entries stored in Calendar.
3. Specify the date you want and press the **OK** soft key, or press the **Yes** soft key to confirm the deletion.

Changing calendar settings

From any view, select **Options** → **Settings** to access the following options:

- **Calendar alarm tone:** allows you to select a personalised alarm tone.

Note: The volume for the calendar alarm tone depends on the current profile setting.

- **Alarm snooze time:** allows you to set a snooze time for calendar alarms.
- **Default view:** allows you to select the view that is shown when you first open Calendar.
- **Week starts on:** allows you to change the starting day of the week view.
- **Week view title:** allows you to change the title of the week view to be the week number or the date.

Entertainment

This chapter provides you with information about applications in which you can enjoy the use of multimedia files.

Camera

You can take photos of people or events or record video clips with sound while on the move.

Important:

- Do not take photos or record videos of people without their permission.
 - Do not take photos or record videos in places where cameras are not allowed.
 - Do not take photos or record videos in places where it may interfere with another person's privacy.
-

Using the camera

The camera produces JPEG photos. JPEG is a standardised image compression format. JPEG files can be viewed with most common image viewers, image editors, and web browsers. You can recognise these files by their JPG extensions.

Taking a photo

1. In Standby mode, press and hold . You can also press  and then select **Media** → **Camera**.

The camera turns on and the display activates as a viewfinder in Wide View mode.

2. Locate the image you want by moving the phone and aiming the camera lens at the subject.

3. Make the desired adjustments.

Use the following keys to change the camera setting options:

- Left/Right key: zooms in or out.
- Down key: switches to Camcorder Preview mode.
- : switches between Sequence mode () and Normal mode.
- : changes the exposure mode. (: Auto, : Night)
- : changes the memory where the photo is saved. (: phone's memory, : memory card)
- : allows you to adjust the brightness.
- : allows you to change the white balance mode.
- : allows you to change the colour tone.
- : set the time delay before taking a photo.
- : opens the **Images** folder in Gallery.
- : shows the key functions available in Camera Preview mode.
- : allows you to change the camera settings. For details, see page 54.
- : hides or shows the icons on the Camera Preview screen.

4. When the image you want to capture appears on the screen, press or .

Do not move the phone before the camera starts to save the photo.

After the photo has been saved, press the **Options** soft key to access the following options:

- **Image mode**: switches to Camera Preview mode.
- **Video mode**: switches to Camcorder Preview mode.
- **Delete**: deletes the photo.

- **Send:** allows you to send the photo to other people.
- **Use image:** sets the photo as wallpaper for Standby mode or as the caller ID image for a contact card.
- **Rename image:** allows you to change the name of the photo.
- **Go to Gallery:** opens the **Images** folder in Gallery.
- **Settings:** allows you to change the camera settings. See page 54.
- **Exit:** turns off the camera.

Note: The resolution of a digitally zoomed photo is lower than that of a non-zoomed photo, but the image remains the same size. You may notice the difference in image quality if you view the photo on a PC.

Using the camcorder

You can record video clips. Depending on the image quality setting, recorded video clips are in MP4 or H263 format.

Recording a video clip

1. From the camera viewfinder, press the Down key.
The camcorder viewfinder is activated in Wide View mode.
2. Locate the image you want by moving the phone and aiming the camera lens at the subject.
3. Make the desired adjustments.
Use the following keypad to change the camcorder setting options:
 - Left/Right key: zooms in or out.
 - Up key: switches to Camera Preview mode.

- : mutes (or unmutes) the audio.
 - : changes the memory where the video clip is saved. (: Phone, : Memory card)
 - : allows you to adjust the brightness.
 - : allows you to change the white balance mode.
 - : allows you to change the colour tone.
 - : opens the **Video clips** folder in Gallery.
 - : shows the key functions available in Camcorder Preview mode.
 - : allows you to change the camera settings. For details, see page 54.
 - : hides or show the icons on the Camera Preview mode screen.
4. Press  or  to start recording. The timer on the screen shows you the elapsed time.

To pause recording at any time, press the **Pause** soft key or . To resume, press the **Continue** soft key or .

5. Press the **Stop** soft key to stop recording.

After the video clip has been saved, press the **Options** soft key to access the following options:

- **Image mode**: switches to Camera Preview mode.
- **Video mode**: switches to Camcorder Preview mode.
- **Play**: plays the video clip.
- **Delete**: deletes the video clip.
- **Send**: allows you to send the video clip to other people.
- **Rename**: allows you to change the name of the video clip.
- **Go to Gallery**: opens the **Video clips** folder in Gallery.
- **Settings**: allows you to change the camcorder settings. See the next section.
- **Exit**: turns off the camcorder.

Changing camera settings

You can configure the default camera settings. These settings will be applied to all subsequent photos or video clips.

On the viewfinder screen, select **Options** → **Settings** to access the following options:

- **Image:** Set the default settings for taking photos.
 - Image quality:** Select an image quality. The better the image quality, the more memory the image consumes.
 - Show captured image:** Set whether the camera shows the taken photo before going back to Camera Preview mode, or saves the photo and goes back to Camera Preview mode automatically.
 - Image resolution:** Select an image resolution setting.
 - Default image name:** Set the default name format for storing photos.
 - Memory in use:** Select the default memory location for saving photos.
 - Light metering:** Select your preferred light metering system. Light metering provides better exposure balance in your images. If you select **Spot**, it measures light in the centre of the frame. Use **Matrix** for general shooting.
- **Video:** Set the default settings for recording videos.
 - Length:** Select the recording time limit. If you select **Short**, the phone records a video of up to 300 KB, which is the limit for sending a multimedia message. If you select **Maximum**, the phone can record up to 1 hour if there is sufficient memory.
 - Video resolution:** Select a video resolution setting.
 - Default video name:** Set the default name format for storing video clips.
 - Memory in use:** Select the default memory location for saving video clips.

Music player

Using Music player, you can play music files. You can download MP3 files from the wireless web or transfer ones from a PC by using PC Studio or a memory card.

Press and hold . You can also press  to open the Menu, and then select **Media** → **Music player**.

Using the music library

The music player provides you with the music library containing the default playlists. Each playlist sorts music files on your phone's memory or memory card by its specific category.

1. From the music player screen, select **Options** → **Music library**.
2. Select **Options** → **Update Music library**.
3. Select the playlist you want.
4. Select **Options** → **Play** to begin playing music.

Playing music files

From the music player screen, press  or  to play the first music file on the playlist.

While playing music files:

- To pause or resume playback, press  or .
- To adjust the volume, press the Left or Right key. You can also press / or /.

- To skip to the previous or next file on the playlist, press the Up or Down key, or  / .
- To scan forward or backward in a file, press and hold the Up or Down key, or  / .
- To stop playback, press .

Creating a playlist

You can create your own playlist with your favourite music files.

1. Open the music library and select **Track lists**.
2. Select **Options** → **New track list**.
3. Select a memory location where the playlist will be saved, if necessary.
4. Enter a list name and press the **OK** soft key.
5. Select the music file you want from the file list.
6. To add more music files, open the playlist you just created and select **Options** → **Add tracks**. Then select the file you want.

Repeat this step until you complete your playlist. You can remove a file by selecting **Options** → **Remove from track list**.

7. When you have finished, select **Options** → **Play** to begin playing music.

Using music player options

On the music player screen, press the **Options** soft key. You can access the following options:

- **Music library:** opens the music library.
- **Open 'Now playing':** opens the playlist currently playing.
- **Download tracks:** launches the web browser so that you can download music files.
- **Random play:** allows you to set the music player to play tracks in random.
- **Loop:** allows you to set the music player to play one track or all tracks repeatedly.
- **Add to track list:** allows you to add the current music file to another playlist.
- **Use tone:** sets the current music file as your call ringtone or a ringtone for a contact.
- **Play in background:** closes the music player, leaving music still playing in the background.
- **View details:** shows the properties of the currently selected file.
- **Exit:** closes the music player.

RealPlayer

With RealPlayer, you can play media files, such as music files, video files, sound files, and streaming live contents from the wireless web, stored in the phone's memory or on the memory card, if you use one.

Files with extensions .3gp, .mp4, .rm, .ram, .ra, and .rv are supported by RealPlayer.

Press  to open the Menu, and then select **Media** → **RealPlayer**.

Playing media files

You can play any music or video file, or play a file directly from the wireless web.

Playing media files from the phone's memory or the memory card

1. Select **Options** → **Open** and select:
 - **Most recent clips** to play one of the most recent files or playlist played. Select a file from the list.
 - **Saved clip** to play a file saved in the phone's memory or on the memory card, if available. Select a memory and then select a file.

2. Use the following options during playback:

If you are playing a video file:

- To adjust the volume, press /.
- To pause playback, press the **Pause** soft key.
- To resume playback, select **Options** → **Continue**. To view the video on a full screen, select **Continue in full screen**.
- To stop playback, press the **Stop** soft key.

If you are playing a music file, see page 55.

Playing streaming live content from the wireless web

In RealPlayer, you can open an rtsp://URL address or http link to a .ram file, a text file containing an rtsp link.

1. Select a streaming link from the web browser or a file containing the address for the streaming content.

The display shows a confirmation message for connecting to the server.

2. Press the **Yes** soft key to confirm.

Once you are connected to the server, playback begins with buffering of the streaming content.

3. While playing:

- To adjust the volume, press /.
- To pause playback, press the **Pause** soft key.
- To resume playback, select **Options** → **Resume**.
- To stop playback, press the **Stop** soft key.

Changing RealPlayer settings

To change the video player settings, select **Options** → **Settings** to access the following options:

- **Video**: allows you to change the settings for playing videos.

Contrast: Adjust the brightness of video clips by pressing the Left or Right key.

Loop: Select **On** to play video clips repeatedly.

- **Streaming**: allows you to change the settings for accessing a streaming server.

Proxy: Set up the proxy server to be used for streaming content.

- **Use proxy**: Select whether or not a proxy is used. If you want to use a proxy server, select **Yes** and specify the following entries.

- **Proxy server address**: Enter a proxy server address.

- **Proxy port number**: Enter a proxy server port number.

Network: Change items from the following list of network settings:

- **Default access point**: Enter the default access point for connecting to a network.

- **Online time:** Select the length of time RealPlayer stays online when inactive. After the specified period of inactivity, RealPlayer will be disconnected from the server.
- **Lowest UDP port:** Enter the lowest number of the server's port range.
- **Highest UDP port:** Enter the highest number of the server's port range.

Gallery

Use Gallery to review and organise your images, sound clips, video clips, streaming live contents from the wireless web, and RAM files.

Press  to open the Menu, and then select **Media** → **Gallery**.

Opening files

In a folder, select any file to open it. Each file will open in its corresponding application as follows:

- Images - open in the image viewer. See the next section.
- Video clips, RAM files, and streaming live content - open and play in RealPlayer.
- Music files - open and play in the music player.
- Sound clips - open and play in the music player.
- Presentations (SVG or Flash SWF files) - open and play in SVG Viewer or Flash Lite Player.

To view all of the media files, select **All files** from the Gallery main view.

Viewing images

In this folder, you can access photos you have taken using the camera and images you have downloaded from the wireless web or received in multimedia messages.

Viewing an image

1. On the Gallery main view, select **Images**.
2. Select an image file.
3. Press the Left or Right key to view the next or previous image in the current folder.

Using options in an image view

You can use the following options while you are viewing an image:

- To zoom in or out, select **Options** → **Zoom in** or **Zoom out**.
- To view the image on a full screen, select **Options** → **Full screen**. To return to the normal view, press the right soft key, or select the left soft key and select **Normal screen**.
- To pan the image to the direction you want when you are zooming in, press the Navigation keys.
- To rotate the image 90 degrees, select **Options** → **Rotate** → **Left** or **Right**.
- To set the image as wallpaper for the standby screen, select **Options** → **Use image** → **Set as wallpaper**.
- To set the image as a caller ID image for a contact card, select **Options** → **Use image** → **Assign to contact**.

- To print the image by connecting your phone with a compatible printer via USB, select **Options** → **Print** → **PictBridge**.

Note: PictBridge lets you create a direct USB connection from your phone to the printer, so you can print images directly without using a PC.

- To add printing information to the image, select **Options** → **Print** → **DPOF**. This option is only available for images stored on a memory card.

Note: As these options are only for viewing, changes made in the image view are not saved.

Using the keypad shortcuts

In an image view, you can use the following keys:

-  : rotates the image 90 degrees counterclockwise or clockwise.
-    : pans the image to the direction you want while zooming in. These keys function as the Navigation keys.
-  : zooms in or out.
- : switches the viewer to Full Screen mode or back to Normal mode.

Playing videos

In this folder, you can access video clips you have recorded using the camera, or video files you have downloaded from the wireless web or received in multimedia messages.

1. On the Gallery main view, select **Video clips**.

2. Select a video clip.

RealPlayer opens and begins playback. For details, see page 58.

Listening to music

In this folder, you can access music files you have downloaded from the wireless web or received in multimedia messages. .mp3 and .aac files are supported.

1. On the Gallery main view, select **Tracks**.
2. Select a file or playlist.

For a playlist, select **Play**. The music player opens and begins playback. For details, see page 55.

Playing sounds

In this folder, you can access voice memos you have recorded, and sound files you have downloaded from the wireless web or received in multimedia messages. .ra, .wav, .midi, .mmf, and .amr files are supported.

1. On the Gallery main view, select **Sound clips**.
2. If necessary, select the subfolder you want.
3. Select a sound clip.

The music player opens and begins playback. For details, see page 55.

Accessing links for multimedia streaming

In this folder, you can access RTSP links, allowing you to access streaming audio and video services.

Adding a new link

1. On the Gallery main view, select **Streaming lin...**
2. Select **Options** → **New link**.
3. Select a memory location, if necessary.
4. Enter the link name and press the Down key.
5. Enter the URL string you want and press the **OK** soft key.

Accessing a link

1. From the link list, select a link.
2. Press the **Yes** soft key to confirm the connection to the server.

Downloading files

You can download files from the wireless web. The downloaded files will be saved in an appropriate folder visible in Gallery.

Select **Downl. graphics**, **Downld. videos**, **Downld. tracks**, or **Downld. sounds** from the top of each list. The web browser opens, allowing you to choose a bookmark for the website from which to download or enter a URL address of the website.

Flash Player

You can play flash movie files on your phone. The phone supports .swf files.

Press  to open the Menu, and then select **Media** → **Flash Player**.

Playing a flash file

Select a file from the list. During playback, you can use the following options:

- To adjust the volume, press .
- To pause playback, select **Options** → **Pause**.
- To resume playback, press the **Resume** soft key.
- To view the video on a full screen, select **Options** → **Full screen**.
- To stop playback, select **Options** → **Stop**.

Message services

Your phone provides you with various messaging service applications:

- Messaging
- Voicemail
- IM (Instant messaging service)

Messaging

In Messaging, you can create, send, receive, and manage:

- text messages,
- multimedia messages,
- emails,
- audio messages, and
- smart messages: special text messages containing data.

In addition, you can receive service messages and cell broadcast messages, and send service commands.

Press  to open the Menu, and then select **Messaging**.

Message folders

When you open Messaging, the **New message** function and a list of the following default message folders appears:

- **Inbox:** This folder stores all received messages, except for emails and cell broadcast messages.
- **My folders:** You can access message templates or organise your messages into folders.

- **Mailbox:** When you open this folder, you can either connect to your remote mailbox to retrieve new emails or view previously retrieved emails offline. See page 76 for further details. Once you have set mailboxes, the names you set for the mailboxes will display.
- **Drafts:** This folder stores draft messages that have not been sent.
- **Sent:** This folder stores the most recent messages that have been sent successfully.
- **Outbox:** This folder is a temporary storage place for messages waiting to be sent.
- **Reports:** This folder stores delivery reports for sent text messages and multimedia messages. You can request the network to send a delivery report by setting the **Receive report** option of the message setting options.

Notes:

- Receiving a delivery report for a multimedia message that has been sent to an email address might not be possible.
 - Messages or data that have been sent via Bluetooth are not saved in the **Drafts** or **Sent** folder.
-

Creating messages

Composing and sending text messages

1. Select **New message** → **Text message**.
2. Press  to select recipients from Contacts, or enter the phone number of the recipient. Add a semicolon (;) to separate each recipient.

3. Press the Down key and enter the message text.
 - To add a message template, select **Options** → **Insert** → **Template**.
 - To set the options for sending the message, select **Options** → **Sending options**. See page 82.

Note: If your text exceeds 160 characters, it is sent as two or more messages, and sending the message may cost you more.

4. Select **Options** → **Send** to send the message.

Composing and sending multimedia messages

A multimedia message can contain a combination of text and video clips, or text, images, and sound clips in one page, but not a combination of images and video clips in one page. You can send multimedia messages phone to phone or phone to email.

This function can be used only if it is supported by your service provider. Only devices that offer compatible multimedia message or email features can receive and display multimedia messages.

Notes:

- Before using the multimedia message service, you need to define an access point. See page 132.
 - When you are sending a multimedia message to any phone other than an SGH-i520, you should use smaller image sizes than 160 X 120 and sound clips that are no longer than 1 minute.
-

1. Select **New message** → **Multimedia message**.

2. Press  to select the recipients from Contacts, or enter the phone number of the recipient. Add a semicolon(;) to separate each recipient.
3. Press the Down key and enter the message subject.
4. Press the Down key and enter the message text.
5. Add objects to the multimedia message in any order you want.
 - To add a media file, select **Options** → **Insert object** → a media type → a file.
 - To add a new item, select **Options** → **Insert new** → a media type. You can take a new photo, record a voice memo or video clip, or add a new slide.

Note: To add a video file, the resolution of the video must be 176 x 144 or lower.

- To make a multimedia presentation using one of the videos, sounds or text, select **Options** → **Create presentation**. For a presentation, you can change the text colour, add an image to the background, and apply the special effect to the images and pages of the presentation.
- To remove an added item, select **Options** → **Remove** → the item you want.
- To change the message layout, select **Options** → **Place text last** or **Place text first**.
- To view the created message, select **Options** → **Preview**.
- To access added items, select **Options** → **Objects**.
- To enter additional information, select **Options** → **Address fields** → **Cc** or **Subject**.
- To set the options for sending the message, select **Options** → **Sending options**. See page 83.

Note: You can add an image and a sound, or a video to a slide. When you add more than one item in a media type, a new slide is automatically added. You can scroll through the slide by pressing the Up or Down key or selecting **Options** → **Move** → a slide.

6. Select **Options** → **Send** to send the message.

Composing and sending audio messages

You can compose and send a message after recording a voice memo.

1. Select **New message** → **Audio message**.
2. Select **Options** → **Insert sound clip** → an adding option.
3. Record a new voice memo or select a sound file from Gallery.
4. Press the Up key, and press  to select the recipient(s) from Contacts, or enter the email address of the recipient in the **To** field. Add a semicolon (;) to separate each recipient.
5. Select **Options** → **Send** to send the message.

Composing and sending emails

You can send emails that include text, images, sound clips, video clips, or other attachments. Before using the email service for the first time, you need to define a mailbox by using **Mailboxes** of the email setting options. See page 85.

1. Select **New message** → **E-mail**.

2. Press  to select the recipient(s) from Contacts, or enter the email address of the recipient in the **To** field. Add a semicolon (;) to separate each recipient.

If you want to send a copy of your email to someone, press the Down key and enter the address in the **Cc** field.

3. Press the Down key and enter the email subject.
4. Press the Down key and enter the email text.
 - To add an attachment to the email, select **Options** → **Insert** → a media type → a file.
 - You can also add an attachment to an email by selecting **Options** → **Attachments**. The attachment list opens where you can add, view, and remove attachments.
 - To remove an attachment, open the attachment list, scroll to the attachment, and select **Options** → **Remove**.
 - To set the options for sending the email, select **Options** → **Sending options**. See page 85.
5. Select **Options** → **Send** to send the email.

Inbox - receiving messages

Messages and data can be received using text message or multimedia message service, or via Bluetooth connections.

Opening a received message

When you receive a message, press the **Show** soft key to open the message. Press the **Exit** soft key to close the note. If you have more than one new message, press the **Show** soft key to open Inbox to see the message headings.

Viewing messages in Inbox

In Inbox, the message icons tell you what kind of a message it is. Here are some of the icons that you may see:

-  for an unread text message,
-  for an unread smart message which may include a business card or a calendar entry,
-  for a multimedia message notification,
-  for an unread multimedia message,
-  for an unread service message,
-  for data received via Bluetooth connections, and
-  for a message of unknown type.

To read a message:

1. Select a message from the list.
2. Use the Up or Down key to move up and down in a message.
3. Press the Left or Right key to move to the previous or next message in the folder.

Options in different message viewers

To use message options, press the **Options** soft key in a message view. Available options depend on the type of the message you have opened:

- **Save:** saves the received file to Gallery.
- **Save business card:** saves the received contact card in **Contacts**.
- **Save to Contacts:** saves the selected number in the message to Contacts.
- **Save to Calendar:** saves the memo in a smart message to **Calendar**.

- **Play:** plays the sound, video, or presentation from a multimedia message.
- **Reply:** allows you to send a reply to the sender.
- **Forward:** copies the message contents to an editor.
- **Delete:** deletes a message.
- **Call:** calls the sender by pressing .
- **Create message:** sends a message to the selected numbers.
- **Copy:** copies the selected number so that you can paste it when composing a message or creating a contact card.
- **Automatic find off:** deactivates the links of the URLs, phone numbers and, email addresses.
- **View:** displays an image in a multimedia message.
- **Objects:** displays a list of multimedia objects in a multimedia message.

Important: Multimedia message objects may contain viruses or otherwise be harmful to your phone or PC. Do not open any attachment if you are not sure of the trustworthiness of the sender. For more information, see "Certificate management" on page 125.

- **Message details:** shows detailed information about a message.
- **Move to folder:** moves message(s) to My folders or one of the folders you have created. See "Moving items to an application folder" on page 26.
- **Exit:** exits the Messaging application.

Receiving smart messages

Your phone can receive many kinds of smart messages, which are text messages that contain data (also called Over-The-Air, (OTA messages). To open a received smart message, open Inbox and select a smart message (📧).

- **Picture message:** to save a picture in the **Picture msgs.** folder for later use, select **Options** → **Save**.
- **Business card:** to save contact information, select **Options** → **Save business card**.

Note: If certificates or sound files are attached to business cards, they are not saved.

- **Ringtone:** to save a ringtone to My files, select **Options** → **Save**.
- **Operator logo:** to save a logo, select **Options** → **Save**. The operator logo can now be seen in Standby mode instead of the network operator's own identification.
- **Calendar entry:** to save an entry to Calendar, select **Options** → **Save to Calendar**.
- **WAP message:** to save a bookmark or setting, select **Options** → **Save to bookmarks** or **Save to settings**. If the message contains both browser access point settings and bookmarks, select **Options** → **Save all** to save the data.
- **E-mail notification:** tells you how many new emails you have in your remote mailbox.

In addition, you can receive an SMS service number, voicemail server number, sync profile settings, access point settings, and so on. To save the settings, select **Options** → **Save**, **Save to voice mail**, **Save to settings** or **Save to e-mail sett.**

Service messages

Service messages are notifications of, for example, news headlines, and they may contain a text message or an address for a browser service. For availability and subscription, contact your service provider.

Service providers can update an existing service message every time a new service message is received. When service messages expire, they are deleted automatically.

1. In Inbox, select a service message (📧).
2. To download or view the service, press **Download message**. The note **Downloading message** displays. The phone starts to make a data connection, if needed.
3. Press the **Back** soft key to return to Inbox.

My folders

In My folders, you can organise your messages into folders, create new folders, and rename and delete folders. For more information, see “Moving items to an application folder” on page 26.

You can also create and store text templates in this folder. Use text templates to avoid rewriting messages that you send often. Select **Templates** and:

- To create a new template, select **Options** → **New template**.
- To send a message using a template, select **Options** → **Send** → a sending method.

Mailbox

When you open this folder, you can connect to your Mailbox:

- to retrieve new email headings or messages, or
- to view your previously retrieved email headings or messages offline.

Note: When you create a new mailbox, the name you give to the mailbox automatically appears in the Messaging main view. You can have up to 6 mailboxes.

Viewing emails

When you open a mailbox, you can choose whether you want to view the previously retrieved emails and email headings offline, or connect to the email server.

Viewing emails when online

Select **Options** → **Connect** to connect to your mailbox. When you are online, you are continuously connected to your mailbox via a packet data connection.

Note: If you are using the POP3 protocol, emails are not updated automatically in Online mode. To see the newest emails, you need to disconnect and then make a new connection to your mailbox.

Viewing emails when offline

When your phone is not connected to your mailbox, you view emails offline. This mode may help you to save on connection costs, but you can access only previously retrieved emails.

Retrieving emails from a mailbox

1. If you are offline, select **Options** → **Connect** to start a connection to your mailbox.
2. When you have an open connection to your mailbox, select **Options** → **Retrieve e-mail**.
 - **New** to retrieve all new emails to your phone.
 - **All** to retrieve all messages from the mailbox.
3. After you have retrieved the emails, you can continue viewing them online or select **Options** → **Disconnect** to end the connection and view the emails offline.

Opening emails

Select the email you want to view.

- If the email has not been retrieved and you are offline, you are asked to retrieve emails. Press the **Yes** soft key.
- If you are online, the email is automatically retrieved from the mailbox. Note that the data connection is left open after the email has been retrieved. Select **Options** → **Disconnect** to end the data connection.

Viewing email attachments

Open an email that has an attachment indicator (📎) and select **Options** → **Attachments**.

Important: Email attachments may contain viruses or otherwise be harmful to your phone or PC. Do not open any attachment if you are not sure of the trustworthiness of the sender. For more information, see "Certificate management" on page 125.

Opening an attachment

From the attachment list, select a file. The file opens in the corresponding application.

Saving an attachment

From the attachment list, scroll to the file you want and select **Options** → **Save**. The file is saved in the corresponding application.

Deleting emails

- To delete an email from the phone while still retaining it in your mailbox. Select **Options** → **Delete** → **Phone only**.

Note: Although you delete the message content, the email heading stays in your phone. To remove the heading as well, you need to first delete the email from your remote mailbox and then make a connection to the remote mailbox again to update the status.

- To delete an email both from the phone and from your mailbox. Select **Options** → **Delete** → **Phone and server**.

Note: If you are offline, the email is first deleted from your phone. During the next connection, it is automatically deleted from your mailbox. If you are using the POP3 protocol, emails marked to be deleted will be removed only after you have closed the connection to your mailbox.

To cancel deleting an email both from the phone and from the server, scroll to an email that has been marked to be deleted during the next connection, and select **Options** → **Undelete**.

Outbox

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

Status of the messages in Outbox

- **Sending:** A connection is being made and the message is being sent.
- **Waiting:** For example, if there are two similar types of messages in Outbox, one of them is waiting until the first one is sent.
- **Resend at (time):** Sending has failed. The phone tries to send the message again after a time-out period. Select **Option** → **Send** if you want to restart the sending immediately.
- **Deferred:** Sending places on hold. The phone tries to send the message at a specified time.
- **Failed:** Sending has failed. The maximum number of sending attempts has been reached.

Messages are placed in Outbox when your phone is outside the network coverage area. You can also schedule emails to be sent the next time you connect to your mailbox.

Reports

In Reports, you can view delivery reports for your text messages and multimedia messages, if you set the **Receive report** option to **Yes** in the **Text message** and **Multimedia message** settings.

Note: No delivery reports can be received for messages sent to email addresses.

- To call a message recipient, scroll to the delivery report and press  or select **Options** → **Call**.
- To clear all reports, select **Options** → **Clear delivery reports**.

Cell broadcast

You can access CB (cell broadcast) messages on various topics, such as the weather or traffic conditions, received from your service provider by selecting **Options** → **Cell broadcast** in the Messaging main view. For available topics and relevant topic numbers, contact your service provider.

Opening a CB message

When you open the Cell broadcast folder, the screen shows:

- the status of the topic:
 -  for subscribed messages
 -  for unsubscribed messages
- the topic number, topic name, and whether it has been flagged  for Hotmark. You are notified when messages belonging to a flagged topic have arrived.

Setting up a topic list

- To add a topic, select **Options** → **Topic** → **Add manually**. Then enter the topic name and number.
- To change the name and number of a topic, scroll to it and select **Options** → **Topic** → **Edit**.
- To remove a topic, scroll to the topic and select **Options** → **Topic** → **Delete**. To delete all topics, select **Options** → **Delete all**.
- To subscribe to a topic, scroll to the topic and select **Options** → **Subscribe**. To cancel the subscription to the topic, select **Options** → **Cancel subscription**.

- To receive a notification when a message related to a topic arrives, scroll to the topic and select **Options** → **Hotmark**. To remove the hotmark setting, select **Options** → **Remove hotmark**.

Note: A packet data (GPRS) connection may prevent cell broadcast reception. Contact your service provider for the correct GPRS settings.

Viewing messages on a USIM/SIM card

Sometimes, text messages may be stored on the USIM/SIM card, depending on their specifications.

Before you can view the messages stored on the USIM/SIM card, you need to copy them to a folder on your phone.

1. In the Messaging main view, select **Options** → **SIM messages**.
2. Select **Options** → **Mark/Unmark** → **Mark** or **Mark all** to place a check mark on messages.
3. Select **Options** → **Copy**.
4. Select a folder. Go to the folder to view the messages.

Using the service command editor

You can send requests, such as activation commands for network services, known as USSD commands, to your service provider. For more information, contact your service provider.

To send a request:

- In Standby mode or when you have an active call, enter the command number(s) and press , or

- If you need to enter letters as well as numbers in a request, select **Options** → **Service command** from the Messaging main view.

Messaging settings

The settings for the messaging services have been divided into groups according to the different message types. Select the settings you want to edit.

Settings for text messages

From the Messaging main view, select **Options** → **Settings** → **Text message** to open the following list of settings:

- **Message centres:** This option lists all of the SMS centres that have been defined. You can add a new SMS centre by selecting **Options** → **New message centre**.
- **Message centre in use:** You can set which SMS centre is used for delivering text messages.
- **Character encoding:** Select a character encoding type. Using **Full support** (Unicode) will reduce the maximum number of characters in a message to about half.
- **Receive report:** When this network service is set to **Yes**, the network informs you when a message has been delivered.
- **Message validity:** If the recipient of a message cannot be reached within the specified validity period, the message is removed from the SMS centre. Select how long messages are stored in the SMS centre. **Maximum time** is the maximum amount of time allowed by the network for the message to remain active.

- **Message sent as:** You can convert your text messages to another format. For further information, contact your service provider.

Note: Change this option only if you are sure that your service centre is able to convert text messages into other formats.

- **Preferred connection:** Select a network connection type to be used for sending text messages. See "Packet data" on page 134.
- **Reply via same centre:** When this network service is set to **Yes**, the recipient's reply message is sent using the same SMS centre. Note that this may not work between all service providers.

Settings for multimedia messages

From the Messaging main screen, select **Options** → **Settings** → **Multimedia message** to open the following list of settings:

- **Image size:** Select the size of images in multimedia messages. The options are **Small** (max. 160 x 120 pixels) and **Large** (max. 640 x 480 pixels). When you send a message to an email address, the image size is set to **Small**.
- **MMS creation mode:** Select the mode for creating multimedia messages.

Restricted: the phone will not allow you to add unsupported files or exceed the size limit.

Guided: the phone will alert you when the message size has exceeded the limit or you have added an unsupported file.

Free: you can add files in any type and size.

- **Access point in use** (Must be defined): Select which access point is used as the preferred connection for the multimedia message centre.

Note: If you receive multimedia message settings in a smart message and save them, the received settings are automatically used for the preferred connection. See "Receiving smart messages" on page 74.

- **Multimedia retrieval:** Select how you receive multimedia messages.

Always automatic to receive multimedia messages regardless of where you are.

Auto in home netw. to receive multimedia messages only when you are in your home network.

Manual to receive multimedia messages manually.

Off if you do not want to receive multimedia messages or advertisements.

Important: When you are outside your home network, sending and receiving multimedia messages may cost you more. If the settings **Auto in home netw.** or **Always automatic** have been selected, your phone can make an active GPRS connection without your knowledge.

- **Allow anon. msgs.:** Set whether or not to receive messages from anonymous senders.
- **Receive adverts:** Set whether or not to receive multimedia message advertisements.
- **Receive report:** When this network service is set to **Yes**, the network informs you when your message has been delivered.

Note: It may not be possible to receive a delivery report for a multimedia message that has been sent to an email address.

- **Deny report sending:** Select **Yes** if you do not want the network to send delivery reports for received multimedia messages.
- **Message validity:** If the recipient of a message cannot be reached within the specified validity period, the message is removed from the MMS centre. Set how long messages are stored in the MMS centre. **Maximum time** is the maximum amount of time allowed by the network for the message to remain active.

Settings for emails

From the Messaging main screen, select **Options** → **Settings** → **E-mail**.

Select **Mailbox in use** to select the mailbox you want to use.

Select **Mailboxes** to open a list of mailboxes that have been defined. If no mailbox has been defined, press the **Yes** soft key to confirm creating a mailbox. Set the following mailbox parameters for each mailbox:

Connection settings

- **Incoming e-mail:** Customise the setting for receiving emails.

User name: Enter your user name, given to you by your mail service provider.

Password: Enter your password. If you leave this field blank, you are prompted for the password when you try to connect to your remote mailbox.

Incoming mail server (Must be defined): The IP address or host name of the mail server that receives your emails.

Access point in use (Must be defined): This is the access point used for the mailbox. Choose one from the list. For more information on how to create an access point, see also "Connection settings" on page 132.

Mailbox name: Enter a name for the mailbox.

Mailbox type: Select a mail server type.

Security (ports): Select a security type. Any amount of data and messages can be sent securely.

Port: Set a port number.

APOP secure login (for POP3): Select **On** to authenticate users on login to the POP3 server.

- **Outgoing e-mail:** Customise the setting for sending emails.

My e-mail address (Must be defined): Enter your email address.

User name: Enter your user name, given to you by your mail service provider.

Password: Enter your password. If you leave this field blank, you are prompted for the password when you try to connect to your remote mailbox.

Outgoing mail server (Must be defined): The IP address or host name of the mail server that sends your emails.

Access point in use (Must be in defined): This is the access point used for the mailbox. Choose one from the list. For more information on how to create an access point, see also "Connection settings" on page 132.

Security (ports): Select a security type. Any amount of data and messages can be sent securely.

Port: Set a port number.

User settings

- **My name:** Enter your display name.
- **Send message:** Set whether to send e- mails immediately or to send at the next connection.
- **Send copy to self:** Select **Yes** to save a copy of an outgoing email to your mailbox and to the address defined in **My e-mail address**.

- **Include signature:** Select **Yes** if you want to attach a signature to your emails, and to enter or edit a signature text.
- **New e-mail alerts:** Set whether the phone displays an indicator icon when you receive a new email.

Retrieval settings

- **E-mail to retrieve:** Select whether to only retrieve email headers from the server or to retrieve messages with attachments. You can also set a size limit.
- **Retrieval amount:** Limit the number of email headers you want to retrieve from the server.
- **IMAP4 folder path** (for IMAP4): Set the folder path you want to synchronise with the server.
- **Folder subscriptions** (for IMAP4): Update the message folder list to be synchronised.

Automatic retrieval

- **E-mail notifications:** Set whether to receive a notification from the server when you receive a new email.
- **E-mail retrieval:** Set whether or not the phone automatically retrieves emails from the server.

Settings for service messages

From the Messaging main view, select **Options** → **Settings** → **Service message**: The following list of settings opens:

- **Service messages:** Set whether or not to receive service messages.
- **Download messages:** Choose **Automatically** if you want the phone to automatically download service messages when it is connected to the server, or **Manually** if you want to manually connect to the server.

Settings for cell broadcast messages

Check with your service provider to see if Cell Broadcast (CB) messaging is available and what the available topics and related topic numbers are. From the Messaging main view, select **Options** → **Settings** → **Cell broadcast** to change the settings:

- **Reception:** Select **On** to receive CB messages.
- **Language:** Select **All** to receive cell broadcast messages in every possible language, or **Selected** to choose in which languages you wish to receive CB messages. If the language you want is not found on the list, select **Other**.
- **Topic detection:** Select **On** to save a topic number automatically when you receive a CB message that does not belong to any of the existing topics. The topic number is saved to the topic list and shown without a name.

Other settings

From the Messaging main screen, select **Options** → **Settings** → **Other** to open the following list of settings:

- **Save sent messages:** Select **Yes** to save a copy of every text message, multimedia message, or email that you have sent. Messages will be saved to the **Sent** folder.
- **Number of saved ms...:** Define how many sent messages can be saved to the **Sent** folder at a time. When the limit is exceeded, the older messages will be deleted.
- **Memory in use:** Select a memory location to be used for storing messages.

Voicemail

You can access the voicemail server to check new voicemails.

Press  to open the Menu, and then select **Configurations** → **Call mailbox**.

Connecting to the voicemail server

The service number of the voicemail centre is preset by your service provider. If not, you first need to define the number of your voicemail server. Enter the number obtained from your service provider and press the **OK** soft key.

Now, you can access the voicemail server by selecting **Voice mailbox** from the Call mailbox main view. You can also press and hold  in Standby mode. Follow instructions from the server to check your voicemails.

Changing the voicemail server number

If you need to change the number of the voicemail server, select **Options** → **Change number** from the Call mailbox main view. Enter a new number and press the **OK** soft key.

IM (Instant Messaging)

Note: This function can be used only if it is supported by your service provider. Only phones that offer compatible instant messaging features can receive and display instant messages.

IM is a way of sending text messages that are delivered over TCP/IP protocols to online users (network service). Your contact list shows you when the contacts on the list are online and available to participate in a conversation.

Press  to open the Menu, and then select **Connectivity** → **IM**.

Notes:

- Depending on the network, the active chat session may consume the phone's battery faster and you may need to connect the phone to a adapter.
 - For using an IM service, you need to set up a server and other settings. See page 95.
-

Connecting to the IM service

When you access IM, the phone prompts you to define a server. If you have closed this prompt, select **Options** → **Log in** to log in to the IM service. Enter the user ID and password and press the **OK** soft key.

To disconnect from the service, select **Log out**.

Starting a chat session

You can start a chat with your friends by various methods.

Starting from the conversation list

From the IM main view, select **Conversations** to view the list of new and read instant messages or invitations to conversations during an active chat session.  indicates new instant messages and  indicates invitations.

On the conversation list, scroll to a conversation, press the **Options** soft key and select:

- **Open** to open the conversation to start a chat session.
- **New conversation** to start a new conversation. You can select a participant from the Conversations list or enter the participant's ID manually, and then the phone sends an invitation to her/him.
- **Block options** → **Add to blocked list** to block messages from the current participant. Select **Add ID to list manually** to add a contact to the blocking list or **View blocked list** to view blocked contacts. To unblock the contact, select **Unblock**.
- **Change own availability** to change your connection status.
- **Close conversation** to close the selected conversation.
- **Log out** to log out from the IM service.
- **Settings** to customise options for conversations or servers.
- **Exit** to close the IM application.

Starting from the contact list

From the IM main view, select **IM contacts** to view the contacts that you have added.

If you have received a new message from a contact, it is indicated by . The status of each contact displays by the following indicators.

-  indicates an online contact.
-  indicates an offline contact in the phone's Contacts directory.
-  indicates a blocked contact.
- No indicator means that the contact is unknown.

Select a contact or select **Options** → **Open conversation** to start a chat.

For details, see “Managing IM contacts” on page 93.

Chatting with contacts

After joining a chat session, you can write your message and press  to send it. Your message displays on the message list and the reply message displays below your message.

During a conversation, press the **Options** soft key and select:

- **Insert smiley** to enter a preset smiley.
- **Send image** to send an image to the current contact.
- **Save to Notes** to record your conversation as a note and save it in Notes.
- **Block options** → **Add to blocked list** to block messages from the current participant. Select **Add ID to list manually** to add a contact to the blocking list or **View blocked list** to view blocked contacts. To unblock the contact, select **Unblock**.
- **Change own availability** to change your connection status.

Ending a chat session

To end the chat session, select **Options** → **Close conversation**.

Accepting or rejecting an invitation

In Standby mode, when you have connected to the chat service and you receive an invitation, “1 new chat message” is displayed. Press the **Show** soft key to read it.

If you receive more than one invitation, the number of messages followed by new invitations received is displayed. Press the **Show** soft key, scroll to the invitation you want to view, and press the **OK** soft key.

- To join a private group conversation, select **Options** → **Join**. Enter the screen name that you want to use in the conversation.
- To reject or delete the invitation, select **Options** → **Reject** or **Delete**.

Reading an instant message

When you have connected to the chat service and you receive a message from a person who is not taking part in the conversation, "1 new chat message" is displayed. Press the **Show** soft key to read it and start a conversation.

New messages received during an active session are held in **Conversations** in the IM application.

If the message is from a person whose contact information is not on the IM contact list, the sender's ID is shown. If the contact information can be found in the phone's memory and the phone recognises it, the sender's name is shown. To save a new contact, select **Options** → **Add to IM contact**.

Managing IM contacts

On the IM contact list, you can save information about chat participants, check their availability, and set tracking to recognise when they log into or out of the IM service.

When you open the IM contact list, the saved chat participants display. Select **Options**, and:

- **New IM contact** to create a new contact or search for a contact from the server or other lists.
- **New contacts list** to add new contact list.

Scroll to a contact, and press  to start to chat, or press the **Options** soft key and select:

- **Open contact details** to view the selected contact details. You can also edit the details.
- **Edit** to change the contact information.
- **Blocking options** → **Add to blocked list** to block the messages from the selected contact. Select **Add ID to list manually** to add a contact to the blocking list or **View blocked list** to view the blocked contacts. To unblock the contact, select **Unblock**.

Customising settings for IM

To change the settings for chatting, select **Options** → **Settings**. The following options are available:

- **Preferences:** allows you to change the settings for using IM.
 - Allow messages from:** Select if you want to receive chat messages from all members of a conversation or only from the contacts stored in your IM contact list.
 - Sort IM contacts:** Select the order of the IM contact list.
 - Availability reloading:** Select if you want to automatically or manually reload other users' availability status to indicate whether they are online or offline.
 - Offline contacts:** Set whether to display offline contacts on the IM contact list.
 - Own message colour:** Select a text colour for your messages.
 - Received msg colour:** Select a text colour for other contacts' messages.
 - Show date/ time info:** Set whether the phone displays the current time next to each message.
 - IM alert tone:** Select a message ringtone for incoming instant messages.

- **Servers:** allows you to create a new server or edit an existing server. To add a new server, select **Options** → **New server**.

Server name: Enter a name for the server.

Access point in use: Select an access point. You can add or edit an access point; for details, see page 132.

Web address: Enter your web address.

User ID: Enter your user ID.

Password: Enter your password.

Note: You can get the web address, user ID, and password from your network operator or service provider.

- **Default server:** Select the server you want to use.
- **IM login type:** You can change the login mode setting for the Instant Messaging. Select:

Automatic to automatically log in to the IM service when you switch on the phone, regardless of your location.

Automatic in home netw. to automatically log in to the IM service when you are in your home network.

On app. start-up to automatically log in to the IM service when you access IM.

Manual to display a confirmation message when you access IM.

Extra programs

Notes

In Notes, you can create text notes that are not associated with items in Calendar, Contacts, or To-do.

Press  to open the Menu, and then select **Organiser** → **Notes**.

Creating a note

1. Select **Options** → **New note**. Pressing an alphanumeric key also opens a note editor.
2. Enter the note text.
3. When you are finished, press the **Done** soft key. The most recently saved note is placed in the first position, displaying the time the note was made.

Synchronising notes with other devices

You can synchronise notes between the phone and other Bluetooth devices using the default sync profile. From the note list, select **Options** → **Synchronisation** → **Start**.

Calculator

In Calculator, you can perform general mathematical functions, such as addition, subtraction, multiplication, and division.

Press  to open the Menu, and then select **Organiser** → **Calculator**.

Performing a calculation

1. Enter the first number of your calculation.
2. Scroll to the function you want using the Navigation keys and press .
3. Enter the second number.
4. If necessary, repeat steps 2 and 3.
5. To get the result, select .

Note: Calculator has limited accuracy and rounding errors may occur, especially in long division.

Other calculator operations

- To insert a decimal, press .
- To change a function, for example from + to -, press  until the function you want is selected on the screen.
- Press  to clear the result of the previous calculation.
- Select **Options** → **Memory** → **Save** to save a number to the memory, indicated by **M**. To retrieve the number from the memory, select **Options** → **Memory** → **Recall**.
- To delete the number from the memory, select **Options** → **Memory** → **Clear**.
- To delete all of the calculations on the sheet, select **Options** → **Clear screen**.
- To retrieve the result of the last calculation, select **Options** → **Last result**.

Converter

In Converter, you can convert measurements, such as Length from one unit (Yards) to another (Metres).

Press  to open the Menu, and then select **Organiser** → **Converter**.

Note: Converter has limited accuracy and rounding errors may occur.

Converting units

Note: For currency conversions, you first need to set the currency rates. See page 99.

1. Select **Type** to open a list of measurement units.
2. Select the measurement type you want to use.
3. Select the first **Unit** field to open a list of available units.
4. Select the unit from which you want to convert.
5. Scroll to the first **Amount** field and enter the value you want to convert.

Press  to add a decimal and press  for the **+**, **−** (for temperature), and **E** (exponent) symbols.

6. Select the second **Unit** field and select the unit to which you want to convert.

The second **Amount** field changes automatically to show the converted value.

Setting a base currency and exchange rates

Before you can make currency conversions, you need to choose a base currency (usually your domestic currency) and enter exchange rates.

Note: The rate of the base currency is always 1. The base currency determines the conversion rates of the other currencies.

1. Select **Currency** as the measurement type and select **Options** → **Currency rates**.
2. To change the base currency, scroll to the currency (usually your domestic currency) and select **Options** → **Set as base currency**. Press the **Yes** soft key to confirm.

Note: When you change the base currency, all previously set exchange rates are reset to **1** and you need to enter new rates.

3. Enter a new rate, that is, how many units of the currency equal one unit of the base currency you have selected.
To rename each field, select **Options** → **Rename currency**. Enter a currency name and press the **OK** soft key.
4. Repeat step 3 to set up the currency list as needed.
You can add more currencies by selecting **Options** → **Add currency**.
5. When you have finished, press the **Done** soft key.
6. Press the **Yes** soft key to save changes.

Recorder

Recorder allows you to record and play voice memos.

Press  to open the Menu, and then select **Media** → **Recorder**.

Note: Obey all local laws governing recording of calls. Do not use this feature illegally.

To record a voice memo:

1. Press  to start recording when  highlights.
 - To pause recording, press the **Pause** soft key or select .
 - To resume recording, press the **Record** soft key or select .
2. To stop recording, press the **Stop** soft key or select .

The recorded sound clip is automatically saved in the **Sound clips** folder in Gallery.

After a sound clip has been saved:

- To play back the sound clip, select .
- To fast forward, select .
- To fast rewind, select .
- To access previously saved sound clips in Gallery, select **Options** → **Go to Gallery**.
- To change the recording quality or the saving location, select **Options** → **Settings**.

Quickoffice

Quickoffice allows you to open documents on the phone without any file-conversion or loss of content. You can view .doc, .xls, and .ppt files.

Press  to open the Menu, and then select **Organiser** → **Quickoffice**.

Viewing a document

1. Press the Left or Right key to access a document viewer, **Quickword**, **Quicksheet**, or **Quickpoint**, according to the file format of the document you want to open.

A list of the documents stored in the phone's memory opens.

2. Select the document you want to view.

Options in a document view

You can use the following options while viewing a document. Depending on the file format of the document, available options may vary.

- To zoom in or out, select **Options** → **Zoom** → an option.
- To searching for a word from a document, select **Options** → **Search options** → **Find**. Then enter a key word and press the **Find** soft key. To continue searching, select **Options** → **Search options** → **Find next**.
- To move between the top and the bottom of the document in Quickword, select **Options** → **Go to** → an option.

- To set the display to automatically scroll through the document in Quickword, select **Options** → **Start auto-scroll**.
- To move to other sheet in a document in Quicksheet, select **Options** → **Worksheet**. Then press the Left or Right key to move between worksheets.
- To resize the column or row in Quicksheet, select **Options** → **Resize** → an option. Then press the Navigation keys to resize.
- To pan through a sheet in Quicksheet, select **Options** → **Pan**, and press the Navigation keys.
- To view the document on a full screen in Quickpoint, select **Options** → **Full screen**.

Updating a viewer application

You can upgrade a viewer application, if available, or check the other Quickoffice programs from a preset website.

Press the Right key to access **Quickmanager** and select one of the following options:

- **Updates and upgrades**: allows you to check if there is a new version of a viewer program to upgrade the program on your phone.
- **Quickoffice products**: allows you to view the online catalogue that introduces other Quickoffice products.
- **Offers and promotions**: allows you to obtain free downloads and trails for other products offered by the Quickoffice manufacturer.

Adobe PDF

Your phone has the Adobe Reader program to allow you to open Acrobat PDF documents.

Press  to open the Menu, and then select **Organiser** → **Adobe PDF**.

Viewing a document

1. From the Adobe PDF main view, select **Options** → **Browse for file**.
2. Select a memory location.
3. Select a folder and then a file.
4. Press the Navigation keys to scroll through the document.

Options in a document view

You can use the following options while viewing a document:

- To zoom in or out, select **Options** → **Zoom** → an option.
- To search for a word from the document, select **Options** → **Find** → **Text**. Then enter a key word and press the **OK** soft key. To continue searching, select **Options** → **Find** → **Next**.
- To view the document on a full screen or rotate the document, select **Options** → **View** → an option.
- To move to another page in the document, select **Options** → **Go to** → an option.

Changing the Adobe PDF settings

To change the default setting for Adobe PDF, select **Options** → **Settings**. The following options are available:

- **Default zoom:** allows you to change the default zoom rate.
- **View mode:** allows you to change the default view mode.
- **Save settings on exit:** allows you to set whether to save your settings when you close Adobe PDF.

Clock

In Clock, you can set up the display of the time and date information and check the time in other cities all over the world. You can also set an alarm to ring at a specified time.

Press  to open the Menu, and then select **Organiser** → **Clock**.

Changing clock settings

To change the time or date, select **Options** → **Settings**. The following setting options are available:

- **Time:** Enter the current time. If the time format is set to **12-hour**, you can change **am** or **pm** by pressing any one of the number keys and .
- **Time zone:** Select your local time zone.
- **Date:** Enter the current date.
- **Date format:** Select the date format.
- **Date separator:** Select a separator for the date display.
- **Time format:** Select the time format.
- **Time separator:** Select a separator for the time display.
- **Clock type:** Select a clock type to be displayed on the top of the standby screen.

- **Clock alarm tone:** Select an alarm ringtone.
- **Alarm snooze time:** Select the default time interval for alarms to repeat.
- **Workdays:** Select the days of the week you want alarm to work.
- **Network operator ti...:** Select **Auto-update** if you want the mobile phone network to update the time and date, and time zone information to your phone.

Setting an alarm

1. Press the Right key on the home clock screen to access the Alarm screen.
2. Select **Options** → **New alarm**.
3. Set each alarm option.
4. Press the **Done** soft key.

Deactivating alarms

To deactivate an alarm, select the alarm you want and select **Options** → **Remove alarm**. If the alarm is a repeating alarm, select **Options** → **Deactivate alarm**.

Turning off the alarm

When the time for an alarm comes and the alarm tone sounds:

- Press the **Stop** soft key.
- Press the **Snooze** soft key or  to stop the alarm and cause it after a specified time. You can do this a maximum of 5 times.

Note: The volume for the clock alarm tone is not affected by the current profile setting.

Viewing the world clock

You can check the current time in other cities or countries in the world. To view time in other cities, you must add the cities you want to the world clock list.

Setting up the world clock

1. Press the Right key twice on the home clock screen.
2. Select **Options** → **Add city**.
3. Select the city you want.

Note: Enter the first few letters of the country or city from the cities list. This will search for countries and cities by their first few letters. For example, entering "p" will match "France, Paris" as well as "Paraguay, Asuncion," as both contain entries that start with "p."

4. Repeat steps 2 and 3 to add more cities, if necessary.

To remove the city from the list, select **Options** → **Remove**.

5. When you have finished, press the **Exit** soft key.

Setting the home zone

You can set a city on the world clock list as the home city. The time and date of the selected city displays on the home clock screen. Scroll to the city you want and select **Options** → **Set as current city**.

GPS data

GPS data is a GPS-based navigation and positioning application. You can get road guides to a specific destination or information about your current location, or calculate the distance of your trip.

Press  to open the Menu, and then select **Configurations** → **GPS data**.

Selecting a connection method

Before accessing the GPS service, you need to activate Bluetooth connections to a GPS wireless module or network-based connections. By using those connections, the phone can send or receive location information.

From the GPS data main view, select **Options** → **Positioning settings**. Then enable or disable Bluetooth GPS connections and network-based connections, according to the connection method you will use.

Each time you open GPS data, the phone will initiate a Bluetooth connection to a GPS wireless module or to a GPS network. For a Bluetooth connection, search for and connect to a device.

Getting a road guide

1. From the GPS data main view, select **Navigation**.
2. Select **Options** → **Set destination** → **Coordinates**.

3. Enter the latitude and longitude of your destination and press the **OK** soft key.

The phone displays the direction to your destination, and additional navigating information for your trip, such as the estimate of the remaining time before you reach the destination, and your current speed.

4. When you have finished, select **Options** → **Stop navigation**.

Checking your current position

From the GPS data main view, select **Position**. The phone shows information about your current position, such as latitude, longitude, altitude, etc.

Calculating the distance of a trip

1. From the GPS data main view, select **Trip distance**.
2. Select **Options** → **Start**. The phone starts counting the distance and time.
3. When you have finished your trip, select **Options** → **Stop**. and check the calculated information about the trip.

Landmarks

In Landmarks, you can mark your current position or specific places and use the marked places as road guides.

Press  to open the Menu, and then select **Configurations** → **Landmarks**.

Adding a landmark

1. From the Landmarks main view, select **Options** → **New landmark**, and select:
 - **Current position**: Select to add a landmark for your current position.
 - **Enter manually**: Select to manually specify a place.
2. If applicable, enter information about the place you want to mark and press the **Done** soft key.

The phone sends a request for position information for the specified place and the landmark item is added.

Managing landmarks

- To access position information of a landmark, select the landmark from the list.
- To change information of a landmark, select it from the list and select **Options** → **Edit**.
- To view landmarks sorted by categories, press the Right key and select a category.
- To change an icon assigned to a landmark, scroll to it from the list and select **Options** → **Landmark icon**.

Web

This chapter describes how to get access to the wireless web and how to use the web browser applications.

Various service providers on the wireless web maintain pages specifically designed for mobile phones, offering services such as news and weather reports, banking, travel information, entertainment, and games. With the web browser, you can view these services as web pages written in WML, XHTML pages written in HTML, or a mixture of both.

To connect to the wireless web,

- the wireless network you use must support data calls,
- the data service must be activated for your USIM/SIM card,
- you must obtain an Internet Access Point from an Internet Service Provider, and
- you must define the proper web browser settings. See page 115.

Note: Your phone is preset by default for access to the wireless web, so that you can easily use the Internet Service. If the web browser does not work properly, you can download and update the browser settings from your service provider's website.

Your ISP can give you instructions on how to configure the browser settings. Follow the instructions carefully.

To launch the web browser, press  to open the Menu, and then select **Web**.

Note: Check the availability of services, pricing, and tariffs with your service provider. Service providers can also give you instructions on how to use their services.

Making a connection

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

There are three different ways to access browser pages:

- Select the homepage of your service provider,
- Select a bookmark from the Bookmarks view, or
- Enter the address of a browser service. The address field at the bottom is immediately activated. After you have entered the address, press .

Notes:

- If the security indicator  displays during a connection, the data transmission between the phone and the browser gateway or server is encrypted.
 - When the system memory becomes too low, the web browser may be unable to load web pages with complex contents. When "Out of memory" appears, close the unnecessary applications to free up the system memory before restarting the web browser.
-

Viewing bookmarks

You can bookmark the web pages you visit frequently and quickly access one of the bookmarked pages at a later time. To access the bookmark list while browsing, press and hold  or select **Options** → **Bookmarks**. From the bookmark list, you will see bookmarks for different kinds of web pages.

- : The starting page defined for the access point.
- : The folder of automatic bookmarks. When you have activated the **Auto. bookmarks** option (see page 116), the web pages you have visited will be automatically bookmarked and the bookmarks will be saved in this folder.

- : A folder you created.
- : A default folder. You cannot delete folders of this type.
- : A web feed folder.
- : A bookmark.

Adding bookmarks manually

1. In the Bookmarks view, select **Options** → **Bookmark manager** → **Add bookmark**.
2. Fill in the fields. The default access point is assigned to the bookmark, if none is selected.
3. Select **Options** → **Save** to save the bookmark.

Adding a bookmark folder

1. In the Bookmarks view, select **Options** → **Bookmark manager** → **New folder**.
2. Enter a folder name and press the **OK** soft key.

Browsing

On a web page, links appear underlined in blue. Images that act as links have a blue border around them.

Keys and commands used in browsing

- To open a link, press .
- To scroll, use the Navigation keys.

- To display or hide the tool bar, press and hold .  (Frequently used links),  (Forward),  (Home),  (Page overview),  (Reload),  (Find), or  (Stop) are available.
- To return to the homepage, press .
- To go to the previous page while browsing, press the **Back** soft key. If the **Back** soft key is not available, select **Options** → **Navigation options** → **History** to view screenshots of the pages you have visited during the current browsing session.
- To check boxes and make selections, press .
- To retrieve the latest content from the server, select **Options** → **Navigation options** → **Reload**.
- To zoom in or out on the browser display, press  or  or select **Options** → **Zooming options** → a zoom rate.
- To save the current web page to access offline, select **Options** → **Tools** → **Save page**.
- To save a bookmark while browsing, select **Options** → **Save as bookmark**.
- To send the URL of the current web page to other people, select **Options** → **Tools** → **Send** → a sending option.
- To find a phone number, email address, or text from web pages, press  or select **Options** → **Find** → an item.
- To change the display to Wide View mode, select **Options** → **Rotate screen**.
- To view page information, name and version, session, and security details of the current browser page, select **Options** → **Tools** → **Page info**.

Viewing saved pages

If you regularly browse pages containing information which does not change very often, for example a train timetable, you can save and then browse those pages when offline.

To open the list of saved pages, select **Saved pages** in the Bookmarks view. The following icons are available on the Saved pages view:

-  : A saved web page.
-  : A folder containing saved web pages.

Select a page item to open it. To start a connection to the web service and retrieve the page again, select **Options** → **Navigation options** → **Reload**.

Downloading items

You can download items such as ringtones, images, operator logos, and video clips through the mobile browser. You may be charged for downloading items.

Once downloaded, items are handled by the respective applications on your phone; for example, a downloaded picture will be saved in Images.

Note: Digital Rights Management (DRM) is a system for protecting the copyright of digital content that is distributed online. Copyright protections may prevent some images, ringtones, and other content from being copied, modified, transferred, or forwarded.

Ending a connection

Select **Options** → **Tools** → **Disconnect**, or press the **Exit** soft key. The phone ends the network connection.

Deleting data in the browser memory

You can delete data transmitted while browsing the wireless web, such as cookies, data in the cache, history and form, or password data. Select **Options** → **Clear privacy data** → an item.

Changing browser settings

You can select the default access point for web connections and set up the browser display. Select **Options** → **Settings**.

- **General:** Customise general browser settings.
 - Access point:** Change the default access point. For more information, see “Access points” on page 132.
 - Homepage:** Set a web page to be used as your homepage.
 - History list:** Set the browser to keep a list of the pages you have accessed.
 - Security warnings:** Enable or disable viewing the security warnings you may get during browsing.
 - Java/ECMA script:** Enable or disable the Java/ECMA script for the browser display.
- **Page:** Customise page display settings.
 - Load content:** Choose what kind of contents you want to view while you are browsing.
 - Screen size:** Select the display type for the web browser. To view the browser on a full screen, choose **Full screen**.
 - Default encoding:** To display text correctly on a web page, select the appropriate character encoding type.
 - Block pop-ups:** Set whether to block pop-ups on web pages.

Automatic reload: Set whether the browser automatically updates each page when changes are made from servers.

Font size: Select the text size to be used on a web page.

- **Privacy:** Customise settings for saving private data you have transmitted to servers while browsing.

Auto. bookmarks: You can turn on or off the automatic completion of address in the Bookmarks view. To hide the **Auto. bookmarks** folder in the Bookmarks view, select **Hide folder**.

Form data saving: Set the browser to save the form data and password you entered and send for using certain services.

Cookies: Enable or disable the transmission of cookies.

- **Web feeds:** Set whether the browser display automatically updates when changes are made from the servers.

Settings

You can customise your phone to suit your preferences and needs.

Profiles

In Profiles, you can adjust and customise the phone tones for different events, environments, or caller groups.

Press  to open the Menu, and then select **Profiles**.

Changing profiles

On the profile list, scroll to the profile you want and select **Options** → **Activate**.

You can quickly change the profile by pressing . Select the profile you want to activate.

You will see the currently selected profile at the top of the display in Standby mode. If the **General** profile is in use, only the current date is shown.

Personalising profiles

You can change properties of a profile as your need and preferences.

1. Scroll to the profile you want and select **Options** → **Personalise**.
2. Scroll to the setting you want to change and press  to open the choices:
 - **Ringtone**: Choose a ringtone for voice calls.

Note: You can change ringtones in two places: Profiles or Contacts. See "Adding a ringtone for a contact card" on page 43.

- **Video call tone:** Select a ringtone for video calls.
- **Ringing type:** Select an alert type. When **Ascending** is selected, the ringing volume starts from level one and increases to the set volume level.
- **Ringing volume:** Set the volume level for the ringtone and message alert tones.
- **Message alert tone:** Choose a ringtone for messages.
- **E-mail alert tone:** Choose a ringtone for emails.
- **Vibrating alert:** Set the phone to vibrate at incoming voice calls and messages.
- **Keypad tones:** Set the volume level for keypad tones.
- **Warning tones:** Set the phone to sound a warning tone, for example, when the battery is running out of power.
- **Alert for:** Set the phone to ring only upon calls from phone numbers that belong to a selected contact group. Phone calls coming from the people outside the selected group have a silent alert.
- **Profile name:** Change a profile name. The General profile cannot be renamed.

3. When you are finished, press the **Back** soft key.

Creating a new profile

You can create a new profile by selecting **Options** → **Create new**. For further details about personalising each option, see page 117.

Using the Offline profile

The **Offline** profile lets you use the phone without connecting to the GSM wireless network to use the phone's applications.

Important: In Offline mode, you cannot make any calls, excluding emergency calls, or use other features that require network coverage.

To leave the Offline profile, activate any other profile. The phone re-enables GSM wireless transmissions, providing there is sufficient signal strength.

Themes

In Theme, you can personalise the look of your phone's display by activating a theme.

Press  to open the Menu, and then select **Configurations** → **Themes**.

Applying a theme

1. Select a category.

You will see a list of the available themes.

- **General:** You can select a skin for the phone's display.
- **Menu view:** You can select a display type for Menu mode.
- **Wallpaper:** You can select a background image for the Standby screen.

2. Select the theme you want from the theme list. The currently active theme is indicated by a check mark.

Downloading themes

You can download themes from the web browser. Select **Download themes** from the general theme or menu view item. Then you can enter a URL address or bookmark for the web site providing you with theme downloads.

Settings

The Settings application provides you with various options to customize your phone.

Press  to open the Menu, and then select **Settings**.

General settings

From the Settings main view, select **General** to change the general phone settings.

Personalisati...

You can customise the settings for the display, lights, and sounds on your phone.

Display

- **Brightness:** Use to change the brightness of the display.
- **Font size:** Select a font size for text display.
- **Welcome note / logo:** You can change the welcome note or image which displays briefly each time you switch on the phone. Select **Text** to enter a welcome note or **Image** to select an image in the phone's memory or on the memory card, if you use one.

- **Backlight on time:** A backlight illuminates the main display, and the keypad. When you press any key or open the phone, the backlight turns on. In this menu, you can select the maximum length of time the backlight stays on.
- **Dim time:** After the backlight turns off, your phone enters Dimming mode and then the display turns off. Select the maximum length of time the display stays in Dimming mode.
- **Touch key lock time:** Select the length of time the touch keys on the phone is active.

Standby mode

- **Active standby:** When this setting is activated, the shortcuts to your favourite applications display so that you can quickly access them from the Standby screen. Also, scheduler information displays on the screen.
- **Shortcuts:** You can change the shortcuts that appear over the left and right soft keys in Standby mode.
- **Active standby apps.:** You can select applications that can be opened from the active standby screen. This option is available only when **Active standby** is activated.

Tones

You can change the sound settings for the currently selected profile. For details, see "Personalising profiles" on page 117.

Themes

- **General:** You can select a skin for the phone's display.
- **Menu view:** You can select a display type for Menu mode.
- **Wallpaper:** You can select a background image for the Standby screen.

Language

- **Phone language:** You can change the language for the display text of your phone. This change also affects the format used for the date and time and the separators used, for example, in calculations. If you select **Automatic**, the phone selects the language according to the information on your USIM/SIM card. After you have changed the phone language, you must restart the phone.

Note: Changing the settings for **Phone language** or **Writing language** affects every application in your phone.

- **Writing language:** You can change the writing language for writing on your phone. Changing the language affects:
 - the characters available when you press any key ( to ),
 - the predictive text dictionary used, and
 - the special characters that are available when you press  and . For example, you are using a phone where the phone language is in English but you want to enter all of your messages to French. After you change the language, the special characters or punctuation marks used in the French language are available.
- **Predictive text:** You can activate or deactivate T9 text input mode for all of the text editors in the phone.

Note: **Predictive text** is not available for all languages.

Date and time

You can change the current time and date, and set the options for the time display and alarms. For details, see “Changing clock settings” on page 104.

Enhancement

You can change the headset or hands-free car kit settings. The following options are available for each accessory:

- **Default profile:** Select the profile you want to be activated each time when you connect a headset to your phone or your phone is used as the hands-free car kit.
- **Automatic answer:** Set the phone to answer an incoming call automatically after 5 seconds when you connect a headset to your phone or your phone is used as the hands-free car kit.

Security

The Security settings allow you to protect your phone and USIM/SIM card from unauthorised use. Following options are available:

Phone and SIM card

- **PIN code request:** When this setting is activated, the PIN code is requested each time the phone is switched on.
- **PIN code:** The 4- to 8-digit PIN (Personal Identification Number) code protects your USIM/SIM card against unauthorised use. The PIN code is usually supplied with the USIM/SIM card. After 3 consecutive incorrect PIN code entries, the PIN code is blocked. If the PIN code is blocked, you need to unblock the PIN code by entering the PUK (PIN Unblocking Key) code.
- **PIN2 code:** The 4- to 8-digit PIN2 code, supplied with some USIM/SIM cards, is required to access some functions, such as call cost counters.
- **Phone autolock peri...:** You can set an autolock period, a time-out after which the phone is automatically locked and can be used only if the correct lock code is entered.

Note: When the phone is locked, you may be able to call the emergency number programmed in your phone (e.g., 112 or other official emergency numbers).

To unlock the phone, in Standby mode, press the **Unlock** soft key, enter the lock code, and press the **OK** soft key.

- **Lock code:** You can change the lock code used to lock the phone and keypad to avoid unauthorised use.

Note: The factory setting for the lock code is **00000000**. To avoid unauthorised use of your phone, change the lock code.

- **Lock if SIM card chan...:** You can set your phone to ask for the lock code when an unknown USIM/SIM card is inserted into the phone. The phone maintains a list of USIM/SIM cards that are recognised as the owner's cards.
- **Closed user group** (network service): You can specify a group of people whom you can call and who can call you. For more information, contact your service provider. Select **Default** to activate the default group agreed on with the service provider or **On** to use another group (you need to know the group index number).

Note: When calls are limited to Closed user groups, calls may be possible to certain emergency numbers in some networks (e.g., 112 or other official emergency numbers).

- **Confirm SIM services** (network service): You can set the phone to display confirmation messages when you are using a USIM/SIM card service.

Important: Even if the use of certificates makes the risks involved in remote connections and software installation considerably smaller, they must be used correctly in order for you to benefit from increased security. The existence of a certificate does not offer any protection by itself; the certificate manager must contain correct, authentic, or trusted certificates for increased security to be available.

Certificate management

Digital certificates are used to verify the origin of browser pages and installed digital certificates are needed if you:

- want to connect to an online bank or another site or remote server for actions that involve transferring confidential information, or
- want to minimise the risk of viruses or other malicious software, and be sure of the authenticity of software when downloading and installing software.

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

- Authority certificates are used by some services, such as banking services, for checking signature or server certificates or other authority certificates.
- Personal certificates are issued to users by a certifying authority.

To view certificate details - checking authenticity:

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

To check certificate details, scroll to a certificate, and press  or select **Options** → **Certificate details**.

To change the trust settings of an authority certificate:

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

- **Internet:** The certificate is able to certify web servers.
- **Online certif. check:** The certificate is able to certify the access to a certificate on the Certificate Revocate list.
- **VPN:** The certificate is able to certify VPN (Virtual Private Network) connections.

Security module

You can manage security modules for various features on your phone.

Factory settin...

You can reset some of the settings to their original values. To do this, you need to enter the lock code. After resetting the settings, you must restart the phone.

Positioning

You can customise the setting for the positioning service.

- **Positioning methods:** Select a method to let other devices locate your phone's position.
- **Positioning server:** Select an access point and server address for accessing the positioning service.

Phone settings

From the Settings main view, select **Phone** to change the call-related settings.

Call

You can customise the general settings for making and answering a calls. The following options are available:

- **Send my caller ID:** This network service allows you to set your phone number to be displayed or hidden from the person whom you are calling. If you select **Set by network**, the value may be set by your network operator or service provider when you make a subscription.
- **Call waiting:** This network service allows the network to notify you of a new incoming call while you have a call in progress. Select **Activate** to request the network to activate call waiting, **Cancel** to request the network to deactivate call waiting, or **Check status** to check if the function is active or not.
- **Reject call with SMS:** When this setting is activated, the phone rejects incoming calls by sending a specified message. Sending a message will cost you extra charge.
- **Message text:** Enter the text to be sent for rejecting incoming calls.
- **Image in video call:** You can set the phone to send a specified still image during a video call, instead of the camcorder image. Select **Use selected** and choose an image.
- **Automatic redial:** When this setting is activated, your phone makes a maximum of 10 attempts to connect the call after an unsuccessful call attempt. Press  to stop automatic redialling.
- **Show call duration:** Activate this setting if you want the phone to briefly display the duration of each call.
- **Summary after call:** When this setting is activated, the phone displays the call details after ending a call.

- **Speed dialling:** When this setting is activated, the numbers assigned to the speed dialling keys,  to , can be dialled by pressing and holding the corresponding key. See also "Assigning speed dialling keys" on page 42.
- **Anykey answer:** When this setting is activated, you can answer an incoming call by briefly pressing any key, except  and .
- **Connect tone:** When this setting is activated, you can hear a tone when your call is connected to the system.
- **Alert during call:** When this settings is activated, you will hear an alert during a call if a message is received or an alarm is triggered.
- **Side volume key:** You can set whether the phone mutes the call ringer or rejects a call when you press and hold / as the call comes in.
- **Slide up:** Set whether a call is automatically answered when you open your phone.
- **Slide down:** set whether or not the phone maintains the menu you are using when you close the phone.
- **Dialing effect:** Select the effect when you press number keys for entering numbers to be dialled.
- **Line in use** (network service): This setting is shown only if the USIM/SIM card supports two subscriber numbers, that is two phone lines. Select which phone line you want to use for making calls and sending text messages. Calls on both lines can be answered, irrespective of the selected line.

Note: You will not be able to make calls if you select Line 2 and have not subscribed to this network service. To prevent line selection, set **Line in use** to **Disable**.

Call divert

Call diverting is a network service that allows you to direct your incoming calls to another number, for example, to your voicemail server number.

1. Select the call type to be diverted.
2. Scroll to one of the following diverting options.
 - **All voice calls/All data and video calls**: all calls are diverted.
 - **If busy**: calls are diverted when you are already on another call.
 - **If not answered**: calls are diverted when you do not answer the phone.
 - **If out of reach**: calls are diverted when your phone is out of a service area.
 - **If not available**: calls are diverted when your phone is turned off.
3. Select **Options** → **Activate** to request the network to activate call diverting. Otherwise, select **Cancel** to deactivate the selected diverting option.

To check whether or not diverting is activated, select **Check status**.
4. If applicable, select whether to divert calls to a voicemail box or other number.
5. Enter the number and press the **OK** soft key.
6. If you selected **If not answered** or **If not available**, set a period of time the network delays before diverting a call.

Call barring

Call barring is a network service that allows you to restrict making and receiving of calls with your phone. For this function, you need a barring password, which is given by your service provider.

1. Scroll to one of the following barring options.
 - **Outgoing calls**: calls cannot be made.
 - **International calls**: international calls cannot be made.
 - **International calls except to home coun...**: When abroad, calls can be made only to numbers within the current country and to your home country.
 - **Incoming calls**: calls cannot be received.
 - **Incoming calls when abroad**: calls cannot be received when you are using your phone outside of your home service area.
2. Select **Options** → **Activate** to request the network to activate call barring, or **Cancel** to deactivate the selected barring option.

To check if calls are barred or not, select **Check status**.

Note: Select **Options** → **Edit barring password** to change the supplied barring password.

3. Enter the barring password and press the **OK** soft key.

Note: When calls are barred, calls may be possible to certain emergency numbers in some networks (e.g., 112 or other official emergency numbers).

Network

You can customise settings for network services supported by your service provider. The following options are available:

- **Network mode:** Select the network mode in which your phone operates.

Dual mode: the phone operates in the GSM or UMTS network automatically.

UMTS: the phone operates in UMTS (3G) networks. You can get higher speed quality than on lower generation networks, and use advanced data and information services, such as video calls.

GSM: the phone operates in the GSM 900/1800 or 1900 network.

- **Operator selection:** Choose **Automatic** to set the phone to automatically search for and select one of the cellular networks available in your area, or **Manual** to select the desired network manually from a list of networks. The selected network must have a roaming agreement with your home network, that is, the operator whose USIM/SIM card is in your phone.

Tip: A roaming agreement is an agreement between two or more network service providers to enable the users of one service provider to use the services of other service providers.

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

Connection settings

From the Settings main view, select **Connection** to change the settings for connections to other devices or the network.

Bluetooth

You can change the setting options for Bluetooth connections:

- **Bluetooth:** Activate or deactivate the Bluetooth feature.
- **My phone's visibility:** Select **Shown to all** to allow other Bluetooth devices to search for your phone or select **Hidden** to set your phone to be hidden from other Bluetooth devices.
- **My phone's name:** Change your phone's Bluetooth name, which is displayed on other devices.

USB

You can change the setting options for USB connections:

- **USB mode:** Select a mode for USB connections.
 - PC Studio:** You can connect your phone to the PC Studio program to synchronise data or transfer files.
 - Data transfer:** You can use the phone as a memory card reader/writer to copy files to or from a memory card. This function is available when you insert a memory card into the phone.
- **Ask on connection:** The phone will ask you which function you want to use on connecting the phone to a PC.

Access points

You can create a new access point or edit exiting ones.

Note: you may receive access point settings in a smart message from a service provider. See "Receiving smart messages" on page 74.

Select an access point to be edited from the list or select **Options** → **New access point**. Then, fill in the following fields:

Note: Follow the instructions given to you by your service provider very carefully.

- **Connection name:** Enter a descriptive name for the connection.
- **Data bearer:** Select a network bearer.
- **Access point name:** The access point name is needed to establish a connection to the network. You obtain the access point name from your service provider.
- **User name:** Enter a user name if required by the service provider. The user name may be needed to make a data connection, and is usually provided by the service provider. The user name is often case-sensitive.
- **Prompt password:** If you must enter a new password every time you log on to a server, or if you do not want to save your password to the phone, choose **Yes**.
- **Password:** A password may be needed to make a data connection, and is usually provided by the service provider. Enter the password. Be careful as it may often case-sensitive.
- **Authentication:** Choose a user authentication mode, **Normal** or **Secure**.
- **Homepage:** Depending on what you are setting up, enter either the URL address of the web service or the address of the multimedia messaging centre.

If you select **Options** → **Advanced settings**, you can set the following options:

- **Network type:** Change a network type to either **IPv6** or **IPv4**.
- **Phone IP address (IPv4):** Enter the IP address of your phone.

- **DNS address:** For IPv4, enter the DNS (Domain Name Server) addresses. For IPv6, you can select one of the following options:
 - Automatic:** The phone receives the DNS addresses from the DHCP server.
 - Well-known:** The phone connects to a local DNS server using the well-known IPv6 site-local unicast addresses.
 - User defined:** You can manually enter the DNS addresses.
- **Proxy server address:** Enter the IP address of the proxy server.
- **Proxy port number:** Enter the port number of the proxy server.

Note: If you need to change the settings above, contact your Internet service provider to obtain these parameters.

Packet data

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

- **Packet data connecti...:** If you select **When available** and you are in a network that supports packet data, the phone registers to the GPRS network. Starting an active packet data connection, for example, to send and receive email, is quicker.

If you select **When needed**, the phone uses a packet data connection only if you start an application or action that needs it. The GPRS connection is closed once it is not used by any application.

Note: If there is no GPRS coverage and you have chosen **When available**, the phone periodically tries to establish a packet data connection.

- **Access point:** The access point name is needed when you want to use your phone as a packet data modem for your PC. For more information on modem connections, see the Help files for One Touch Access feature of PC Studio on the CD-ROM.

Configurations

You may receive parameters for network settings by message from your service provider so that you can apply the parameters simply by opening the message. A configuration message can contain the settings for the web browser, instant messaging, multimedia messaging, and streaming video services. In this menu, you can access configuration messages you have received.

Select the configuration message you want to open. To apply the configuration to the corresponding menu, select **Options** → **Save**.

Application settings

From the Settings main view, select **Applications** to change the settings for applications on your phone.

For details, see the section containing the descriptions for the corresponding application.

Managers

This chapter gives you information about using manager applications to allow you to manage multimedia files, add-on applications, and your phone and memory card.

File manager

In File manager, you can browse, open, and manage files and folders in the phone's memory or on the memory card, if you use one.

Press  to open the Menu, and then select **Organiser** → **File mgr.**

Press the Right key to see the folders on the memory card, if you use one.

Organising files

You can browse, open, and create folders, mark, copy, and move items to folders. See "Actions common to all applications" on page 24.

Viewing an items details

After scrolling to a folder or a file, select **Options** → **View details**. The detailed information about the selected item displays.

Viewing memory consumption

You can view information on the current memory consumption for the phone's memory or memory card.

1. Press the Left or Right key to move from one memory tab to another.
2. Select **Options** → **Memory details**.

The phone calculates the approximate amount of memory currently in use and free memory.

Note: If the phone's memory capacity is getting low, remove some files, or move them to the memory card, if you use one, or to your PC by using PC Studio.

Searching for items

You can search for a name, file, or folder by using the search field.

1. Select **Options** → **Find**.
2. Select the memory location to search.
3. Enter a keyword in the text field and press the **Find** soft key. The phone immediately starts to search for matches.
To make the search more accurate, enter more letters. The phone highlights the item that best matches your input.
4. When you find the correct item, press  to open it.

Application manager

In Application manager, you can install new Symbian operating system applications (SIS files) and Java™ applications. You can also update and uninstall applications from the phone, and monitor installation history.

Press  to open the Menu, and then select **Installed** → **App. mgr.**

When you open Application manager, you will see a list of:

- installation packages that have been saved to the phone's memory,
- partially installed applications, and
- fully installed applications that you can remove.

Note: Your phone supports J2ME™ Java applications. Do not download PersonalJava™ applications to your phone as they cannot be installed.

General information for installing applications

You can install applications that are specifically intended for this phone and suitable for the Symbian operating system.

Note: If you install an application that is not intended specifically for this phone, it may function and look different from what was originally intended.

Applications may be downloaded to your phone during browsing, received as attachments in multimedia messages or emails, or received via Bluetooth from another compatible device, for example, a phone or a PC.

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

To increase protection, the application installation system uses digital signatures and certificates for applications. Do not install the application if Application manager gives a security warning during installation.

Installing applications

Open Application manager, scroll to an application installation package, and select **Options** → **Install** to start the installation.

Alternatively, search the phone's memory or the memory card and select an installation package. The installation starts.

Some applications may give the option of partial installation, allowing you to select the particular components of the application that you want to install. If you are installing an application without a digital signature or a certificate, the phone warns you of the risks. Continue the installation only if you are absolutely sure of the origin and contents of the application.

Installation settings

You can change the settings for application installation. From the Application manager main view, select **Options** → **Settings**.

- **Software installation:** Select whether or not to allow software installation.
- **Online certificate che...:** Select whether or not the phone must check online certificates for installing applications.
- **Default web address:** Enter the URL address of the default web page for checking online certificates.

Removing applications

1. Scroll to an application and select **Options** → **Remove**.
2. Press the **Yes** soft key.

If another application depends on the application that you removed, the other application may stop working. Refer to the documentation of the installed application for details.

Device manager

Device manager allows a third party, such as your service provider, to assist you directly with phone settings. You can start a configuration session from your phone or accept or reject server-initiated synchronisation attempts.

This feature is network-dependent and may not be available on all phones. Contact your service provider for information and availability.

To access Device manager, press  to open the Menu, and then select **Configurations** → **Device mgr.**

Creating a new profile

A device manager profile must be defined before you are connected to a server.

Press the Right key to access the profile list, and select **Options** → **New server profile**.

- **Server name:** Device manager server name.
- **Server ID:** Remote device manager server ID.

- **Server password:** Password used in server alerts. Enter the password that must be provided by the device manager server when synchronising with your phone.
- **Access point:** Internet access point your phone uses to establish the server connection. Choose from the list of access points defined in your phone.
- **Host address:** Device management server URL.
- **Port:** Device management server port.
- **User name:** Your user name for this profile.
- **Password:** Your password for this profile.
- **Allow configuration:** To allow device management on this server, select **Yes**.
- **Auto-accept all requ...:** Automatic or approved device management on this server. Select **Yes** to allow synchronisation without your verification, or select **No** to verify each synchronisation attempt.
- **Network authenticat...:** Set whether to use authentication for accessing the network.

Starting a configuration

To check if there are available updates, select **Options** → **Check for updates**.

To start a configuration session, select **Options** → **Start configuration** and then press the **Yes** soft key.

Activation key manager

For some media content, you may need to purchase activation keys that allow you to access them according to the Digital Rights Management (DRM) system. You can purchase these keys from the websites that own the rights.

Activation key manager allows you to manage the activation keys you have purchased. Press  to open the Menu, and then select **Configurations** → **Actv. keys**.

Accessing activation keys

1. Select the folder you want.
 - **Valid keys:** show all activation keys.
 - **Invalid keys:** shows expired activation keys.
 - **Not in use:** shows the activation keys of media files, which are currently not in the phone's memory.
2. Select the activation key you want. The details for the key appears.

Activating expired activation keys

You can reactivate expired keys by accessing the website of the rights issuer and buying the rights.

1. Access the **Invalid keys** folder.
2. Scroll to the key you want to reactivate.
3. Select **Options** → **Restore activation keys**.
4. Press the **Yes** soft key.
5. Follow the onscreen instructions.

Memory card manager

You can manage your memory card from the Memory application. Press  to open the Menu, and then select **Organiser** → **Memory**.

Important:

- Keep all memory cards out of the reach of small children.
 - As your phone's system supports only FAT16 and FAT32 formats, you must format the card as FAT16 or FAT32 to use the memory card with the phone.
-

Backing up and restoring information

- To back up information from your phone's memory to the memory card, select **Options** → **Back up phone memory**. When a confirmation message appears, press the **Yes** soft key.
- To restore information from the memory card to the phone's memory, select **Options** → **Restore from card**. When a confirmation message appears, press the **Yes** soft key.

Renaming the memory card

You can change the memory card name. Select **Options** → **Memory card name**. Enter the name you want and press the **OK** soft key.

Setting a memory card password

You can set a password to lock your memory card against unauthorised use. Once a password has been set, you need to enter the password when using the memory card on other devices.

Note: Once a password for the memory card has been set, devices that do not support a feature related to the memory card password, such as Microsoft Windows, cannot read the card. You first need to remove the password on the phone.

To set, change, or remove your password:

Select **Options** → **Set password**, **Change password**, or **Remove password**.

For every option, you are asked to enter and confirm your password. The password can be up to 8 characters long.

Checking memory consumption

You can check the memory consumption of different data groups and the available memory for installing new applications or software on your memory card.

Select **Options** → **Memory details**.

Formatting the memory card

You must format the memory card before you can use it for the first time.

Select **Options** → **Format memory card**. When a confirmation message appears, press the **Yes** soft key.

Connectivity

You can transfer data from your phone to a compatible device, for example, a phone or PC, via Bluetooth or a PC data cable.

Bluetooth

Bluetooth is a short-range wireless communications technology. Devices with Bluetooth capabilities can exchange data over a distance of about 10 metres (30 feet) without requiring a wired connection.

Using Bluetooth, you can send or receive data, such as business cards and calendar notes, to and from devices.

Notes:

- Some devices may not be compatible with your phone.
 - If there are obstacles between the devices, the maximum operating distance may be reduced.
-

Setting up Bluetooth

To use a Bluetooth connection, press  to open the Menu, and then select **Connectivity** → **Bluetooth**.

You can access the following Bluetooth functions:

- **Bluetooth**: Activate or deactivate the Bluetooth feature.
- **My phone's visibility**: Select **Shown to all** to allow other Bluetooth devices to search for your phone or select **Hidden** to set your phone to be hidden from other Bluetooth devices.
- **My phone's name**: Change your phone's Bluetooth name, which is displayed on other devices.

Searching for and pairing with a Bluetooth device

1. On the Bluetooth screen, press the Right key to move to the paired device list.
2. Select **Options** → **New paired device** to search for a new device.

After searching for connectable devices, a list of devices you can connect to displays. The following icons on the left of the devices indicate the type of device:

-  : Mobile phone
-  : PC
-  : Headset
-  : Hands-free car kit
-  : Audio device
-  : Unknown device

3. Select a device with which to connect.
4. Enter a Bluetooth PIN code and press the **OK** soft key. This code is used just once and you do not need to memorise it.

When the owner of the other device enters the same code, pairing is complete.

Note: The users of Bluetooth-enabled devices must agree on the Bluetooth PIN code, and use the same code for both devices in order to pair them. Some devices, especially headsets or hands-free kits, may have a fixed Bluetooth PIN, such as 0000. If the other device has one, you must enter the code.

5. When you are asked to set the device to be authorised, press the **Yes** soft key to confirm. Otherwise, press the **No** soft key.

Using device options

When you press the **Options** soft key on the paired device list, you can access the following options:

- **New paired device:** searches for other devices to pair with.
- **Connect to audio device:** connects a headset or hands-free car kit to your phone.
- **Assign short name:** allows you to assign a short name to a device.
- **Set as authorised/Set as unauthorised:** set whether or not the phone asks you to permit connection when other devices try to connect to your phone.
- **Delete:** deletes the selected device.
- **Delete all:** deletes all paired devices.
- **Exit:** exits the Bluetooth application.

Receiving data via Bluetooth

Make sure that your phone's Bluetooth feature is active and the phone is set to be detected by other devices. When receiving data via Bluetooth, you are asked if you want to accept the data. If you accept it, the item is placed in the **Inbox** folder in Messaging. Messages received via Bluetooth are indicated by .

Sending data via Bluetooth

1. Make sure that the Bluetooth feature is active.
2. Locate the item you want to send in an application, such as **Calendar**, **Contacts**, **Gallery**, or **File manager**.

3. Scroll to the item and select **Options** → **Send** or **Send business card** → **Via Bluetooth**.

4. Select the device you want from the list.

If the device to which you want to send does not appear on the list, search for and pair with the device by proceeding from step 2 on page 146.

5. If necessary, enter a PIN code and press the **OK** soft key.

USB

You can set which function is activated when you connect your phone to a PC with a PC data cable.

1. Press  to open the Menu, and then select **Connectivity** → **USB**.
2. Select the option you want:
 - **USB mode:** Select a mode for USB connections.
 - PC Studio:** You can connect your phone to the PC Studio program to synchronise data or transfer files.
 - Data transfer:** You can use the phone as a memory card reader/writer to copy files to or from a memory card. This function is available when you insert a memory card into the phone.
 - **Ask on connection:** The phone will ask you which function you want to use on connecting the phone to a PC.
3. Press the **Exit** soft key.

Remote synchronisation

The Sync application enables you to synchronise your calendar, notes, messages, or contacts with other devices via Bluetooth, or server on the wireless web.

Press  to open the Menu, and then select **Connectivity** → **Sync**.

Creating a new synchronisation profile

1. Select **Options** → **New sync profile**.
2. Choose whether you want to use the default setting values or copy the values from an existing profile.
3. Define the following:
 - **Sync profile name:** Enter a name for the profile.
 - **Applications:** Select applications to be synchronised. Select **Options** → **Edit sync profile** and change the application settings.
 - Include in sync:** Select applications to be synchronised.
 - Remote database:** Set the path for the database in the remote server.
 - Synchronisation type:** select a synchronisation type.
 - **Connection settings:** Customise the settings for connecting to a network.
 - Server version:** Select a version of the synchronisation protocol.
 - Server ID:** Enter a synchronisation server ID.
 - Data bearer:** Select **Internet** to synchronise with a server on the wireless web. Select **Bluetooth** to synchronise with a Bluetooth device. Some of the following options depend on the data bearer setting.

Access point (Internet): Select the access point you want to use for the data connection.

Host address: Enter the URL address of the server on the wireless web. Contact your service provider or system administrator for the correct values.

Port (Internet): Enter the port number of the server. Contact your service provider or system administrator for the correct values.

User name: Enter your user ID for the synchronisation server. Contact your service provider or system administrator for your correct ID.

Password: Enter your password. Contact your service provider or system administrator for the correct password.

Allow sync requests: You can set whether or not you accept synchronisation request received from this server.

Accept all sync reque...: You can set whether or not your phone asks for your confirmation before accepting synchronisation from this server.

Network authenticat... (Internet): Enable or Disable authentication for accessing HTTP servers.

4. Press the **Back** soft key to save the settings.

Synchronising data

1. In the Sync main view, scroll to a profile and select **Options** → **Synchronise**. The status of the synchronisation is shown at the bottom of the screen.

2. If you select a profile with Bluetooth, connect to a device.

After synchronisation is complete, select **Options** → **View log** to open a log file showing the synchronisation status (complete or incomplete) and how many calendar, notes, or contact entries have been changed.

Connection manager

In Connection manager, you can identify the status of multiple data connections, view details on the amount of data sent and received, and end unused connections.

Press  to open the Menu, and then select **Connectivity** → **Conn. mgr.**

Viewing connection details

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

- **Name:** the name of the Internet Access Point (IAP) in use, or **Modem connection** if the connection is a dial-up connection.
- **Bearer:** the type of data connection; Data call or Packet data.
- **Status:** the current status of the connection.
- **Total:** the total amount of data the phone has received and sent.
- **Received:** the amount of data, in bytes, received by the phone.
- **Sent:** the amount of data, in bytes, sent from the phone.
- **Duration:** the length of time the connection has been open.
- **Speed:** the current speed of both sending and receiving data in KB/s (kilobytes per second).
- **Acc.pt.:** the access point name used.
- **Shared** (not shown if the connection is not shared): the number of applications using the same connection.

Ending connections

Scroll to a connection and select **Options** → **Disconnect** to end that connection only. Press the **Yes** soft key to confirm.

Appendix A: Troubleshooting

General problems

Problem	Description & Solution
"Insert SIM card" displays	Check that the USIM/SIM card has been correctly installed.
"No network coverage," "Unable to connect. No network coverage." or "Message sending failed" displays	• The network connection has been lost. You may be in a weak signal area (in a tunnel or surrounded by buildings). Move and try again. • You are trying to access an option for which you have not taken out a subscription with your service provider. Contact the service provider for further details.
The bars of the signal icon (📶) disappear	• If you have just turned on your phone, wait for about 2 minutes, until your phone finds the network and receives a signal. • If you are in a tunnel or in an elevator, the phone may not be able to receive the network signal properly. Move to an open place. • This may appear when you move between different service areas. It is normal.
The display is not clear	In direct sunlight, you may not be able to see the display clearly. Moving to a place with different light should solve this problem.

Problem	Description & Solution
White lines appear on the display	This may happen if you turn on the phone after a long period of disuse, or after removing the battery without turning off the phone. This is not related to the phone's life or performance. The display should correct itself shortly.
"Locked" displays	The automatic locking feature has been enabled. You must press the Unlock soft key and enter the lock code before you can use the phone. To disable this feature, go to Settings → General → Security → Phone and SIM card and set Phone autolock period to None .
"PIN code" appears	- You are using your phone for the first time. You must enter the Personal Identification Number (PIN) supplied with the USIM/SIM card. - The PIN code request feature has been enabled. Each time the phone is switched on, the PIN has to be entered. To disable this feature, go to Settings → General → Security → Phone and SIM card and set PIN code request to Off.
"PUK code" appears	The PIN code was entered incorrectly three times in succession and the phone is now blocked. Enter the PUK supplied by your service provider.

Problem	Description & Solution
I forgot the security, PIN, or PUK codes	The default lock code is 00000000 . If you forget or lose the code, contact your phone dealer. If you forget or lose a PIN or PUK code, or if you have not received such a code, contact your service provider.

Call problems

Problem	Description & Solution
I have entered a number but it was not dialled	• Be sure that you have pressed . • Check if your wireless connection to your mobile service provider is switched on and the signal from the network is unobstructed. • You may have set an outgoing call barring option.
My correspondent cannot reach me	• Be sure that your phone is switched on. • Check if your wireless connection to your mobile service provider is switched on and the signal from the network is unobstructed. • You may have set an incoming call barring option.
My correspondent cannot hear me speaking	• Be sure that you have not switched off the microphone. • Be sure that you are holding the phone close enough to your mouth. The microphone is located at the bottom of the phone.

Problem	Description & Solution
The audio quality of the call is poor	• Adjust the voice volume by pressing / . • Check the signal strength indicator on the display (); the number of bars indicates the signal strength, from strong to weak. • Try moving the phone slightly or moving closer to a window if you are in a building.
Calls to and from the phone are not connected properly, and are easily disconnected.	• Signals from the network are weak. Move to another area. • Touching the antenna area, the top of the phone may lower the call quality. Be careful not to touch the top of the phone while using the phone.

Power and charging problems

Problem	Description & Solution
"Battery low" appears on the display	Battery power is very low. Recharge the battery.
Charging does not start	• Disconnect the phone from the travel adapter, remove the battery, and then replace it. Try charging again. • If the problem persists, clean the metal contacts on the battery and the phone. • If the actions above do not clear the problem, contact a Samsung service representative.

Problem	Description & Solution
The phone malfunctions or does not function	Remove the battery and then replace it. Turn on the phone. If the problem persists, contact a Samsung service representative.
The battery's standby time is shorter than expected	• Batteries are subject to wear and tear. Standby time may grow shorter as time passes. • Leaving a fully charged battery in a cold or hot place for a long period of time may reduce battery life. • Standby time depends on where you use the phone. The actual time may vary from the battery's specifications.
Is it OK if I leave the phone connected to the power outlet after it is fully charged	We recommend that you disconnect the phone from the travel adapter or unplug the adapter from the power outlet.
The phone becomes hot	This may happen when you are on the phone or when you use applications, such as games, the web browser, or the camera, because the phone needs more power at those times. This does not affect the phone's life or performance.
The battery level seem sufficient, but the phone does not turn on	• Remove the battery from the phone and reinstall it. Then turn on the phone. • Clean the metal contacts both on the battery and on the phone. Reinstall the battery and turn on the phone.

Problem	Description & Solution
The phone turns off when the travel adapter is connected	Dust on the contacts may cause unexpected power-off or charging problems. Clean the metal contacts both on the battery and on the phone.

Application problems

Problem	Description & Solution
"Not enough memory to perform operation. Delete some data first." or "Memory low. Delete some data." displays	To view what kind of data you have and how much memory the different data groups consume, go to File manager and select Options → Memory details . Delete old items from applications. If necessary, make a backup copy of your data using PC Studio or the memory card.
Application does not respond	Open the application switching window by pressing and holding  . Then scroll to the application and press  to close the application. Open it again.
Web	
"No valid access point defined. Define one in Services settings." displays	Insert proper browser settings. Contact your service provider for instructions.

Problem	Description & Solution
Calendar	
Week numbers are missing	If you have changed the Calendar settings so that the week starts on a day other than Monday, the week numbers will not be shown.
Camera	
Images seem smudged	Check that the camera lens protection window is clean.
The phone is unable to connect to the wireless web	• Check if you have set up and are connected to an Internet service provider. • Check if your wireless connection to your mobile service provider is switched on and the signal from the GPRS network is unobstructed. • Verify with your service provider that your user name and password are correct. • Verify with your Internet service provider that the network you are trying to connect is available, or try to connect it from another PC.
Contacts	
No number is dialled when you recall a contact card	• Check that a number has been stored in the contact card. • Re-store the number, if necessary.

Problem	Description & Solution
Bluetooth	
I cannot end a Bluetooth connection	If another device is connected to your phone, you can either end the connection using the other device or by deactivating Bluetooth. Go to Bluetooth and select Bluetooth → Off .
I cannot find my friend's Bluetooth-enabled device	• Check that both have activated Bluetooth. • Check that the distance between the two devices is not over 10 meters or that there are no walls or other obstructions between the devices. • Check that the other device is not in Hidden mode. • Check that both devices are compatible.
Log	
The communication log appears empty	You may have activated a filter, and no communication events fitting that filter have been logged. To see all events, press the Right key from the Log main view and select Options → Filter → All communication .
Messaging	
I cannot select a contact card when creating a message	If the contact card does not have a phone number or email address, you cannot select it. Add the missing information to the contact card in Contacts.

Problem	Description & Solution
PC connectivity	
A problem occurs when connecting the phone to a PC	• Make sure that PC Studio has been installed and is running on your PC. See the User's Guide for PC Studio on the CD-ROM for further information on how to use PC Studio. • Check if USB mode is set to PC Studio.

If the above guidelines do not help you to solve the problem, take note of:

- the model and serial numbers of your phone
- your warranty details
- a clear description of the problem
- Then contact your local dealer or Samsung after-sales service.

Appendix B: Health and safety information

SAR certification information

This phone meets European Union (EU) requirements concerning exposure to radio waves.

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

The exposure standard for mobile phones employs a unit of measurement known as SAR (Specific Absorption Rate). The SAR limit recommended by the EU Council is 2.0 W/kg.¹

The highest SAR value for this model phone was 0.867 W/kg.

SAR tests are conducted using standard operating positions with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value.

1. The SAR limit for mobile phones used by the public is 2.0 watts/kilogram (W/kg) averaged over ten grams of body tissue. The limit incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements. The SAR values may vary, depending on national reporting requirements and the network band.

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

Before a new model phone is made available for sale to the public, compliance with the European R&TTE Directive must be shown. This directive includes as one of its essential requirements the protection of the health and safety of the user and any other person.

Precautions when using batteries

- Never use any adapter or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the phone near the network's base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Battery charging time depends on the remaining battery charge, the type of battery, and the adapter used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) becomes noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.
- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. When a adapter is not in use, disconnect it from the power source. Do not leave the battery connected to a adapter for more than a week, since overcharging may shorten its life.

- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and lifetime of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).
- Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and – terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.
- Dispose of used batteries in accordance with local regulations. Always recycle. Do not dispose of batteries in a fire.

Road safety

Your wireless phone gives you the powerful ability to communicate by voice, almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless phones, one that every user must uphold.

When driving a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, make sure that you are following the special regulations in a given area or country.

Operating environment

Remember to follow any special regulations in force in any area and always switch off your phone whenever it is forbidden to use it, or when it may cause interference or danger.

When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the equipment should only be used in the normal operating position (held to your ear with the antenna pointing over your shoulder).

Electronic devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone. Consult the manufacturer to discuss alternatives.

Pacemakers

Pacemaker manufacturers recommend that a minimum distance of 15 cm (6 inches) be maintained between a wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research and recommendations of Wireless Technology Research.

Persons with pacemakers:

- Should always keep the phone more than 15 cm (6 inches) from their pacemaker when the phone is switched on

- Should not carry the phone in a breast pocket
- Should use the ear opposite the pacemaker to minimise potential interference
- If you have any reason to suspect that interference is taking place, switch off your phone immediately.

Hearing aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may wish to consult your hearing aid manufacturer to discuss alternatives.

Other medical devices

If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Switch off your phone in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle.

You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted facilities

Switch off your phone in any facility where posted notices require you to do so.

Potentially explosive environments

Switch off your phone when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Users are advised to switch off your phone while at a refuelling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include the areas below decks on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas, such as propane or butane, areas where the air contains chemicals or particles, such as grain, dust or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

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

Emergency calls

This phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as user-programmed functions, which cannot guarantee connection in all conditions. Therefore, you should never rely solely on any wireless phone for essential communications (medical emergencies, for example).

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate signal strength. Emergency calls may not be possible on all wireless phone networks or when certain network services and/or phone features are in use. Check with local service providers.

To make an emergency call, proceed as follows.

1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location (for example, 112 or any other official emergency number). Emergency numbers vary by location.
3. Press .

If certain features are in use (call barring, for example), you may first need to deactivate those features before you can make an emergency call. Consult this document and your local cellular service provider.

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your phone may be the only means of communication at the scene of an accident; do not cut off the call until given permission to do so.

Other important safety information

- Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.

- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.
- For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.
- Switch off your phone before boarding an aircraft. The use of wireless phones in an aircraft may be dangerous to the operation of the aircraft, and is illegal.
- Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

Care and maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you fulfill any warranty obligations and allow you to enjoy this product for many years.

- Keep your phone and all its parts and accessories out of the reach of small children and pets. They may inadvertently damage these things or choke on small parts.
- Keep the phone dry. Precipitation, humidity, and liquids contain minerals that corrode electronic circuits.
- Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.
- Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.

- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth.
- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove, or a radiator. The phone may explode when overheated.
- When the phone or battery gets wet, the label indicating water damage inside the phone changes colour. In this case, phone repairs are no longer guaranteed by the manufacturer's warranty, even if the warranty for your phone has not expired.
- If your phone has the flash or light, do not use it too close to the eyes of people or animals. This may cause damage to their eyes.
- Use only the supplied or an approved replacement antenna. Unauthorised antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, adapter or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

Declaration of Conformity (R&TTE)

We, **Samsung Electronics**

declare under our sole responsibility that the product

GSM Mobile Phone : SGH-i520

to which this declaration relates, is in conformity with the following standards and/or other normative documents.

SAFETY	EN 60950- 1 : 2001 +A11:2004
	EN 301 489- 01 V1.4.1 (08-2002)
EMC	EN 301 489- 07 V1.2.1 (08-2002)
	EN 301 489- 17 V1.2.1 (08-2002)
	EN 301 489- 24 V1.2.1 (11-2002)
SAR	EN 50360 : 2001
	EN 50361 : 2001
RADIO	EN 301 511 V9.0.2 (03-2003)
	EN 300 328 V1.6.1 (11-2004)
	EN 301 908- 1 V2.2.1(10-2003)
	EN 301 908- 2 V1.1.1 (01-2002)

We hereby declare that [all essential radio test suites have been carried out and that] the above named product is in conformity to all the essential requirements of Directive 1999/5/EC.

The conformity assessment procedure referred to in Article 10 and detailed in Annex^[IV] of Directive 1999/5/EC has been followed with the involvement of the following Notified Body(ies):

**BABT, Balfour House, Churchfield Road,
Walton-on-Thames, Surrey, KT12 2TD, UK ***
Identification mark: 0168

The technical documentation kept at :

Samsung Electronics QA Lab.

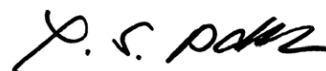
CE 0168

which will be made available upon request.
(Representative in the EU)

Samsung Electronics Euro QA Lab.
Blackbushe Business Park, Saxony Way,
Yateley, Hampshire, GU46 6GG, UK *

2007.04.03

(place and date of issue)



Yong-Sang Park / S. Manager

(name and signature of authorised person)

* It is not the address of Samsung Service Centre. For the address or the phone number of Samsung Service Centre, see the warranty card or contact the retailer where you purchased your phone.

SAMSUNG ELECTRONICS

