SAMSUNG ELECTRONICS

World Wide Web

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SGH-Z600
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.

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Contents

Important safety precautions 9

CHAPTER 1: Getting started

What's in the box? 12
Getting to know your phone 13
Installing the SIM card 16
Installing the battery 18
Charging the battery 19
Switching the phone on or off 20
Using an optional memory card 21

CHAPTER 2: General information

Standby mode 24
Menu screen 26
Accessing onscreen help 29
Actions common to all applications 29
Entering text 32

CHAPTER 3: Call functions

Making a call 36
Answering a call 39
Using options during a call 40
Using the video call feature 41
Viewing call logs 42

CHAPTER 4: Contacts and Calendar

Contacts 46
Calendar 53

CHAPTER 5: Entertainment

Camera 59
MP3 Player 65
RealPlayer 68
Gallery 72
Games 76

CHAPTER 6: Message services

Messaging 77
Voice mail 98
IM (Instant Messaging) 99

CHAPTER 7: Office

Notes 106
Calculator 106
Converter 108
Recorder 110
Viewer 111
VoiceSignal 114
To-do 119
Clock 120

CHAPTER 8: Internet

Web 124
Operator Menu 130

CHAPTER 9: Personalisation

Profiles 131
Themes 133
Go to 135

CHAPTER 10: Settings

Changing the settings 137
Phone settings 137
Sub LCD settings 139
Call settings 140
Connection settings 142
Date and time settings 146
Security settings 147
Call diverting settings 150
Call barring settings 151
Network settings 152
Enhancement settings 153

CHAPTER 11: Managers

File manager 154
Application manager 155
Device manager 158
Activation keys 159
Memory card 160

CHAPTER 12: Connectivity

Bluetooth 163
Infrared 166
PC Suite 167
Remote synchronisation 168
Connection manager 170

APPENDIX A: Troubleshooting

General problems 171
Call problems 173
Power and charging problems 174
Application problems 176

APPENDIX B: Health and safety information

Exposure to Radio Frequency (RF) Signals..... 180
Consumer Information on Wireless Phones..... 182
Road Safety 190
Operating Environment..... 192
Using Your Phone Near Other Electronic Devices 193
Potentially Explosive Environments 194
Emergency Calls 195
FCC Notice and Cautions..... 196
Other Important Safety Information 197
Product Performance 198
Availability of Various Features/Ring Tones 199
Battery Standby and Talk Time..... 200
Battery Precautions..... 200
Care and Maintenance 201

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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 the 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 the 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 accessories and batteries. Use of any unauthorised accessories could damage 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.

Qualified service

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

see page 180

For more detailed safety information, see “Health and safety information” on page 180.

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 press the reset button or 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.

chapter 1

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 link CD* & User's Guide CD

Quick Reference Guide

PC data link cable

*The PC link CD contains PC Suite, Add-on software, and applications.

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

- Standard/Extended battery
- PC data link cable
- Travel adapter
- Car cradle
- Stylish hands-free car kit
- Straight headset
- PC link CD
- Hand strap
- Memory card

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

Getting to know your phone

With the phone open

With the phone closed

Key	Description
	• Press and hold to turn on the camera. • In **Camera**, press to switch between the interior lens and exterior lens.
	• Press to open the list of the profiles. • Press to select **Lock phone** to quickly lock the phone.
	• Press to adjust the voice volume during a call. • In Standby mode, with the phone open, press to adjust keytone volume. With the phone closed, press and hold to activate the external display.
	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.

Key	Description
OK	• Press to scroll through items on a screen. • Press to move the cursor in a text input field. • In Standby mode, press to access the following applications; you can assign applications to each key: - Up: **Calendar** - Down: **Web** - Left: **Gallery** - Right: **RealPlayer**
OK	• Press to confirm your selection. • In Standby mode, press to open the **Contacts** application; you can assign another application to this key.
	Press to make or answer a video call.
	• Press to dial a phone number or answer an incoming call. • In Standby mode, access call logs. • In Standby mode, press and hold to open **VoiceSignal**.
ABC	When entering text, press to change the text input mode.
C	• Press to and hold clear one or more characters in a text field. • Press to delete contents in any application or remove add-on applications.
	• Press to end a call. • Press to hide the currently activated application. • Press and hold to turn the phone on or off.

Key	Description
1 ~ 0+	• Press to enter numbers and characters. • Press and hold 1 to access the voicemail server in Standby mode. • Press 0 to insert a space in a text input fileld.
* +	• Press to enter an international call prefix or pauses when entering a phone number. • Press to display a list of symbols when you are in a text input field.
#	• Press to change case in a text input field. • Press and hold to switch between text and number input modes.

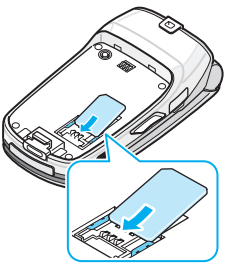
Installing the SIM card

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

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

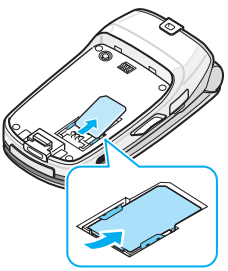
Inserting the SIM card

1. If necessary, remove the battery by referring to page 19.
2. Insert and slide the SIM card under the two tabs of the card holder, as shown.



Removing the SIM card

To remove the SIM card, slide the card out of the holder, as shown.



Installing the battery

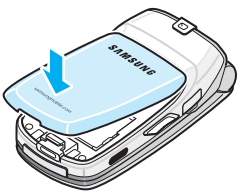
Your phone is powered by a rechargeable Li-ion battery. Use only approved batteries and adapters. Ask your local Samsung dealer for further details.

Note: You must fully charge the battery before using your phone for the first time. See page 19.

Installing the battery

1. Place the battery on the back of the phone.

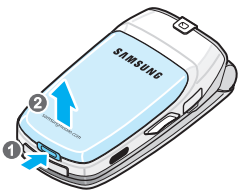
2. Press the battery until it clicks into place.



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

Removing the battery

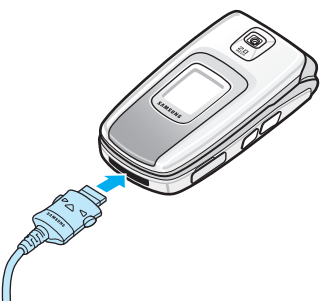
1. If necessary, switch off the phone by pressing and holding until the power-off image displays.
2. Press the battery lock and lift the battery away.



Charging the battery

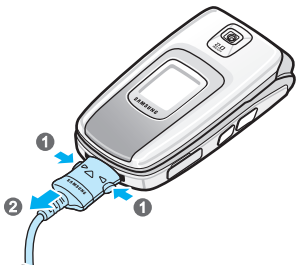
Note: The phone can be used while the battery is being charged, but this causes the battery to charge more slowly.

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



2. Plug the travel adapter into a standard AC wall outlet.

3. When charging is finished, first unplug the travel adapter from the power outlet. Then remove the travel adapter from the phone.



Switching the phone on or off

1. Press and hold until the power-on image displays.

   If you turn on the phone for the first time, you need to set the home city, current time and date.

2. Enter the home city and press the **Select** soft key.

3. Enter the current time and press the **OK** soft key.

4. Enter the current date and press the **OK** soft key.

5. If the phone asks for a PIN, enter the PIN supplied with your SIM card and press the **OK** soft key.

6. If the phone asks for a lock code, enter the code and press the **OK** soft key. The default code is **12345**. To change the lock code, see page 147.

   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 **Phone language** option in **Settings**. For further details, see page 137.

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

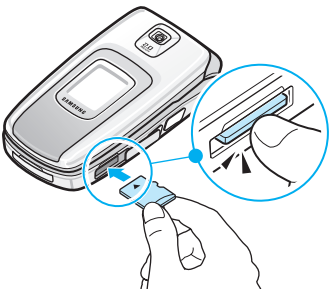
Using an optional memory card

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 supports a memory 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 with your thumb until it locks into place. You will hear the system sound.



Note: If you are using a locked memory card (indicated as "memory card locked" in the **Memory card** appliclation, you will hear the system sound on insertion. Also, you will not hear the system sound and see the note on removal.

3. Close the card cover.

Removing the memory card

1. Press and select **Remove mem. card**.
2. When a confirmation message appears, press the **Yes** soft key.
3. Open the card cover and push the card in to release it. Then slide the card out of the card slot and 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.

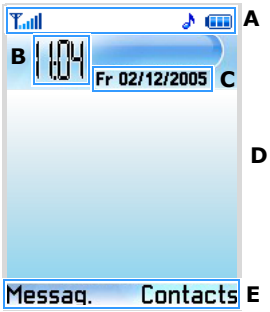
chapter 2

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.

Standby mode

The components described below are shown when your phone is ready for use, with no characters keyed in. In this state, the phone is in Standby mode.



A	Shows the status indicators. See the following page.
B	Shows an analogue clock or a digital clock. See “Date and time settings” on page 146.
C	Navigation bar: Shows the current profile name, if the selected profile is **General**, the current date displays instead. In an application, the bar shows small arrows or tabs, telling you if there are more views, folders, files you can move to. In a text field, shows text mode indicators.

D	Background image: To change the background image, see page 133.
E	Shows the current shortcuts assigned to the soft keys. You can change the soft key shortcuts. See "Standby mode" on page 138.

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. More bars you see, more stronger the signal is.
	Appears that you are in a 3G network.
	Indicates the current active phone line, if available.
	Appears when you are roaming outside of your service area and logged onto another network.
	Appears when a memory card is inserted into the phone.
	Indicates that you have an active alarm.
	Indicates that you have a new message. - : Message - : Voicemail - : Email in the phone - : Unknown type - : Email on the server

Indicator	Meaning
	Indicates that all calls to your phone are being diverted. If you have two phone lines, the appropriate number appears on the divert indicator.
	Appears when a voice call is in progress.
	Appears when a video call is in progress.
	Appears when you are outside of your service area. You cannot make or answer a call.
	Indicates that the Silent profile is active.
	Shows the remaining battery power level.

Menu screen

In the Menu, 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 OK to open it.

Closing applications

Press the **Exit** soft key or select **Options** → **Exit**. You can also backstep by pressing the **Back** soft key as many times as you need to return to Standby mode. Any unsaved data is saved automatically.

If you press , the phone returns to Standby mode and the application is left open in the background.

Note: Pressing will always end a call, even if another application is active and displayed on the display.

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 icon.
3. Move the selection to the 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.

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 application is inactive but still running.

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

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

Note: The Telephone application cannot be closed with .

Adding applications

You can add more applications to your phone by downloading installation files from the wireless web or by using **Application manager**.

To download an application, select **Options** → **App. downloads**. You can select a bookmark for a preset website which provides you with a variety of applications available for download, or enter the URL address of the website. After accessing the website, search for an application and follow the onscreen instructions.

For details about installing applications, see page 155.

Accessing onscreen help

Your phone has a help function that you can access from any application which has the **Options** selection. To access the onscreen help, select **Options** → **Help**.

To access a help function for the Menu, press , and then select **Tools** → **Help**.

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 **New contact**, **New message**, **New entry**, **New note**, or **New to-do note**. Options for creating an item are different in each application.

For information on how to insert text and numbers, see "Entering text" on page 32.

Opening items

When you are viewing a list of files or folders, to open an item, scroll to it and press OK or select **Options** → **Open**.

Editing items

To edit an item, you sometimes need to first open it for viewing and then select **Options** → **Edit**. Then you can 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 C. To delete multiple items at one time, you first need to mark them. See the next section, "Marking an item."

Marking an item

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** → **Edit list** → **Mark/Unmark**.

Sending items

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

1. Open an item and select **Options** → **Send**.

2. Select a method; the choices are **Via text message**, **Via multimedia**, **Via Bluettooth**, and **Via Infrared**.
   - To send the item in a text message, see page 78.
   - To send the item in a multimedia message, see page 79.
   - To send the item via Bluetooth, see page 163.
   - To send the item via the infrared port, page 166.

Arranging items

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

Creating folders

1. Select **Options** → **Organise** → **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** → **Organise** → **Move to folder** (not shown if there are no 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.

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 text in the text field and press the **Search** soft key. The phone immediately starts to search for matches and highlights the best match.

   To make the search more accurate, enter more letters. The phone highlights the selection moves to the item that best matches your input.

4. When you find the correct item, press OK to open it.

Entering text

You can enter text in two different ways: using the method traditionally used in mobile phones-pressing a key repeatedly until the desired character displays, or T9 text input mode using the built-in dictionary.

Changing the text input mode

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

- To select Traditional text input mode, press # until the indicator displays. Alternatively, press ABC and select **Dictionary** → **Off**.
- To select T9 text input mode, press # until the indicator displays. Alternatively, press ABC and select **Dictionary on**.
- To select Number mode, press and hold # until the indicator **123** displays on the top right of the screen. Alternatively, press ABC and select **Number mode**. To return to the previous input mode, press and hold #.
- To select Symbol mode, press *. Alternatively, press ABC and select **Insert symbol**.

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 C. Press and hold C to clear more than one character.
- Press 1 to enter symbols: . **? ! | @ ' - _ ( ) : ; & / % * # + < = > $ £ § ¥ ¤ ¿ ¡**
- To insert a number quickly, press and hold the corresponding number key.
- To insert a space, press 0.

Using T9 input mode

1. Enter the desired word by pressing the keys 2 to 9. Press each key only once for one letter. The word changes each key press.

   Note: Do not pay attention to what appears on the display. The word match is evolving. Wait until you have entered the whole word before you check the result.

   For example, to enter "Hello", press 4 for **H**, 3 for **e**, 5 for **l**, 5 for **l**, and 6 for **o**.

2. When you have finished the word, check that it is correct.
   - If the word is correct, go to the next step.
   - If the word is not correct, you have the following options:
     - Press * + to view other matching words the dictionary has found, one by one.
     - Press ABC and select **Dictionary** → **Matches** to view a list of matching words. Select the word you want to use.
   - To add a word to the T9 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 OK or the Right key so that the word is complete.

Other T9 mode operations

- To change cases, **ABC** (Upper case) **.Abc** (Initial capital) and **abc** (lowercase), press # *.
- To remove a character, press C. Press and hold C to clear more than one character.
- To insert a number, press and hold the corresponding number key.
- Press 1 and then * + to enter the desired punctuation mark.

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 the dictionary has found, one by one, press * + when a word is active (underlined).

You can also press ABC, select **Dictionary** and select:

- **Matches** to view a list of words that correspond to your key presses, which is available only if the word is active (underlined). Scroll to the desired word and press OK.

- **Insert word** to add a word to the T9 dictionary by using Traditional text mode. When the T9 dictionary becomes full, a new word will replace the oldest added word.
- **Edit word** to open a view where you can edit the word, which is available only if the word is active (underlined).
- **Off** to deactivate T9 mode.

Copying text

If you want to copy text to the clipboard, the following are the easiest methods:

1. While holding ABC, press the Navigation keys. As the selection moves, text is highlighted.

2. To copy the highlighted text to the clipboard, while still holding ABC, press the **Copy** soft key.

   You can also release ABC, press it once to open a list of editing commands, and select **Copy** or **Cut**.

3. To insert the text into a document, while holding ABC, press the **Paste** soft key.

   You can also press ABC and select **Paste**.

chapter 3

Call functions

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 international calls, press twice for the international call prefix (the **+** 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 dial the number.

   Note: To adjust the volume during a call, press /.

3. To end the call, press or close the phone. You can also use the **End call** soft key.

   Note: Pressing will always end 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:

- **Voice call**: make a voice call.
- **Video call**: make a video call, if the 3G service is available.
- **Send**: sends a text message or multimedia message to the number.
- **Add to Contacts**: adds the number to the Contacts directory. For details about **Contacts**, see page 46.

Making a call using Contacts

1. To open **Contacts**, press the **Contacts** soft key in Standby mode.

   You can also press and then select **Contacts**.

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** → **Video call** to start a voice call.

Making a call using name dialling

Once you have stored a number in **Contacts**, you can make a phone call by saying the name that has been assigned to a contact card. For details, see “Name dialling” on page 115.

Speed dialling a phone number

Once you have stored a number in **Contacts**, you can assign the most frequently-used numbers to the speed dialling keys 2 to 9 and then quickly and easily dial them with only one keypress. See "Assigning speed dialling keys" on page 49.

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**: if you use a pause of this type, the remaining sequence is not sent until you press .
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 then 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**.
   - To reject a call, press . The caller will hear a "line busy" tone.
   - To quickly mute the call ringer, press the **Silence** soft key.

   Note: If the Silent profile is active (see page 131), **Reject** displays in place of **Silence** to allows you to reject a call.

   - Depending on the **Side volume key** setting, press and hold / to mute the call ringer or reject an incoming call. See page 141.
   - To adjust the phone tones for different environments and situations, for example, when you want your phone to be silent, see "Profiles" on page 131.
2. To end the call, press or close the phone.

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.

- **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.
- **Mute key**: switches the key tones off.
- **Send key**: switches the key tones 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**: (shown when you have a conference call) allows you to talk privately to a person during a conference call. When the list of call participants appears, select one and press the **Private** soft key.
- **Drop participant**: (shown when you have a conference call) allows you to disconnect a person during a conference call. 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.

- **Send DTMF**: sends DTMF tones for numbers, such as passwords or bank account numbers. You can check or correct the numbers before sending.
- **Help**: shows help information on the options available during a call.

Using the video call feature

In a 3G (UMTS) service area, your phone can make or receive a video call which allows you to see another person on the screen during a conversation. The other person's phone must support the video call feature.

Making a video call

1. In Standby mode, enter the area code and phone number.
2. Press or select **Options** → **Video call**.

Answering a video call

When you receive a video call, answer a video call as receiving a voice call. Press <**Show me**> to allow the caller to see you.

Using video call options

During a video call, press <**Options**> to access the following options:

- **Speaker on**/**Speaker off**: turn the speaker on or off.
- **Switch to headset**/**Switch to phone**: switch the call to a Bluetooth headset or hand-free car kit or back to the phone. To use this feature, you first need to connect your headset to the phone, see xx.

- **Mute**: turn off the camera, microphone, or key tone.
- **Flip**: flip the camera image vertically or horizontally.
- **Display options**: change the image settings of the camera.
- **Effects**: change the colour tone of the image.
- **Quality**: change the image quality.
- **Show caller ID/Hide caller ID**: display or hide caller information.
- **More options**: access the following options:

  Contacts: access the contact list.

  Create message: send an SMS message to the other person on the phone.

  Message inbox: access the received message list.

  Send file/Send live: show another image instead of your camera image on the other person's phone, or restore the display to the camera image.

  Calendar: access the calendar.

  Memo: create a memo.

  End call: end the video call.

Viewing call logs

In the **Logs** application, you can monitor phone calls, text message call duration, and packet data connections registered by the phone.

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

Recent calls

The phone registers the phone numbers of missed, received, and dialled calls. The phone registers missed and 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 calls by pressing in Standby mode.

Erasing recent call logs

- To clear all recent call logs, select **Options** → **Clear recent calls** on the Recent calls screen.
- 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 screen, select **Call duration** to view the duration of the last call, dialled and 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, and so forth.

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 Logs main screen, 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**.

General log

In the general log, you can see 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.

Filtering logs

By selecting a filter, you can display only log items of the specified type.

1. Select **Options** → **Filter**. A list of filters opens.
2. Select a filter.

Erasing general logs

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

Log settings

Select **Options** → **Settings**. The list of settings opens.

- **Log duration**: The log events remain in the phone's memory for a set number of days, after which they are automatically erased to free up memory. If you select **No log**, no log contents will be stored.
- **Show call duration**: When this option is set to **Yes**, you will see the call duration timer on the display while you have an active call. If you select **No**, the external display still shows the timer.

chapter 4

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**, or press the **Contacts** soft key in Standby mode.

Creating contact cards

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

Creating a new contact card in the phone's memory

1. From the Contacts list, select **Options** → **New contact**. An empty contact card opens.
2. Fill in the fields you want. In the **User ID** field, you can enter the contact's chat user ID.
3. To assign a caller ID image to the contact card, select **Options** → **Add thumbnail**, and then select an image.
4. To add more information field, select **Options** → **Add detail**, and then add information.

   You can delete a field by selecting **Options** → **Delete field**. To change the field name, select **Options** → **Edit label**.
5. Press the **Done** soft key.

Creating a contact card on the SIM card

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

Note: Once you have stored numbers on the SIM card, you can retrieve them by entering their location numbers, which are automatically assigned in the order in which the numbers are stored, and pressing #. For example, pressing 1 and then # in Standby mode shows the first number stored on the SIM card.

Assigning own number

You can register the phone number and name on the SIM card as the own number.

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

Copying contacts

- To copy contacts from the 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 contacts from the phone's memory to your SIM card, select the contact you want and select **Options** → **Copy to SIM direct**.
- To copy contacts to a memory card, scroll to the contact you want and select **Options** → **Copy** → **To memory card**.

Options when viewing contacts

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

Contact information view shows all information on the contact card. If you 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 only displayed if they contain information.

Changing contact information

1. From the Contacts list, select the contact card you want to edit.
2. To change the information on the contact card, select **Options** → **Edit**.
3. To save your changes and to return to the Contacts list, press the **Done** soft key.

Assigning default numbers and addresses

If a person has several phone numbers or e-mail addresses, to speed up calling and sending messages, 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 a phone number 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 call number underlined. On the contacts list, a type icon of the default call 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 2 to 9. 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 location and press the **Assign** soft key.

4. If speed dialling is not activated, press the **Yes** soft key.

   When you return to the contact information 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 140), and press and hold the appropriate number key 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** → **Ringing tone**.
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 single contact is used the next time the contact calls you.

Subscribed contacts

You can create a list for contacts whose presence status you want to be aware of (network service). You can view the contact's presence information if they allow you to view it and if it is not prevented by the network.

Adding contacts to the subscribed contacts

1. From the Contacts list, press the Right key once to open the subscribed contact list.
2. Select **Options** → **New subscribe**.
3. If you have not connected to the Presence service, select the **Yes** soft key to confirm the connection.
4. Select a contact from the list and if the contact has an ID saved, the contact is added to the subscribed contact list. If there is more than one ID, select one of them.

Using subscribed contacts

See also xx to view the presence information.

1. On the subscribed contact list.

   Status information of the first contact on the subscribed contacts list is shown and it may include text and one or more of the following icons:
   - : Available
   - : Busy
   - : Unavailable
   - : Presence information unavailable
2. Scroll to the desired contact and press OK or select **Options** → **Open** to view the contact details.

3. If you press the **Options** soft key, you can select:
   - **Open** to view the details of the contact.
     - **Voice call** to make a voice call.
     - **Video call** to make a video call, if the 3G service is available.
   - **Create message** to send a text message to the selected contact.
   - **Switch tracking on/off** to activate or deactivate the tracking for the contact's presence status. When the tracking is activated, appears on the list, and you will be notified if the presence status of the contact changes. appears when the tracking is deactivated.
   - **Open conversation** to start a chat conversation.
   - **Unsubscribe** to remove the selected contact from the list of subscribed contacts.
   - **New pres. subscrip.** to add a new contact to the list of subscribed contacts.
   - **My presence** to view my presence status.

Contact groups

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

Creating contact groups

1. From the Contacts list, press the Right key twice 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.

6. When you have finished, press the **OK** soft key.

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** → **Ringing tone**.
- 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 **Calendar**.

Creating calendar entries

1. On the 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.

3. Fill in the fields.
   - **Subject/Occasion**: Enter a description of the item.
   - **Location**: Enter the place of a meeting.
   - **Start time**, **End time**, **Start date**, and **End date**.
   - **Alarm**: Select **On** to activate the fields for **Alarm time** and **Alarm date**. Once an alarm has been set for the entry, displays in the day view.
   - **Repeat**: You can set the entry to repeat. displays in the day view. The repeat function is handy if you have a recurring appointment, such as a weekly class or a fortnightly or monthly meeting.
   - **Repeat until**: You can set an ending date for the entry to repeat, if you have selected to repeat the event.
   - **Synchronisation**: 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 computer 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 58.

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.

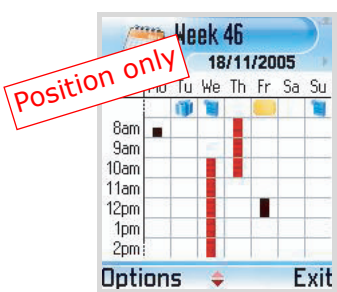
To go to a certain date, select **Options** → **Go to date**. Enter the date and press the **OK** soft key.

Tip: Pressing # in any view highlights today's date.

Week view

To switch to the week view, press * repeatedly or select **Options** → **Week view**.

In the week view, the calendar entries for the selected week are shown in seven day boxes. Today's day of the week is underlined. Memos and Anniversaries are placed before 8 o'clock.



To view or edit an entry, select the cell that has the entry to move to the day view and select the entry you want to open.

Calendar entry icons in the day and week views:

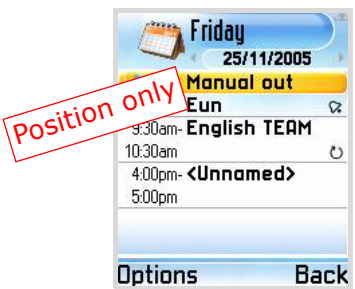
- No icon - Meeting

  In the week view, the synchronisation indicators display in different colours; black for **Private**, pink for **None**, red for **Public**.
- - Memo
- - Anniversary

Day view

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

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



Editing calendar entries

1. In the day view, select the entry.
2. Edit the entry fields.
3. To add a description about the entry, select **Options** → **Add description**, enter the contents, and press the **Done** soft key.
4. 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. If you press the **Snooze** soft key, you can stop the alarm and cause it to sound again after 5 minutes.

Deleting calendar entries

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

Deleting one entry

1. From the day view, scroll to 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 calendar 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 entries.
3. Specify the date you want and press the **OK** soft key, or press the **Yes** soft key to conform the deletion.

Changing calendar settings

From any view, select **Options** → **Settings** and select:

- **Calendar alarm tone** to select a personalised alarm tone.
- **Default view** to select the view that is shown when you first open **Calendar**.
- **Week starts on** to change the starting day of the week.
- **Week view title** to change the title of the week view to be the week number or the week dates, if a week starts with Monday.

chapter 5

Entertainment

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

Camera

Using **Camera**, you can take photos of people or events, or record video clips with sound while on the move.

Taking photos

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 Internet browsers. You can recognise these files by their JPG extensions.

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

Taking a photo

1. In Standby mode, press and hold on the right side of the phone. You can also press and then select **Camera**.

The Camera application opens and the view to be captured on the Image screen displays.

Indicates the camera mode, camera settings, and the memory being used.

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

   To switch between the interior lens and the exterior lens, press .

3. Make the desired adjustments.

   Use the following keys to change the camera setting options:

   - Up/Down/Volume keys: Zoom in or out.
   - Left key: Switch to Camcorder Preview mode.
   - : Switch between Sequence mode (Multishot mode:) and Single shot mode.
   - : Change the exposure mode. (: Auto, : Night, : Daylight)
   - : Select the memory where the photo is saved. (: Phone, : Memory card)
   - : Adjust the brightness.
   - : Adjust the contrast.
   - : Change the white balance mode.
   - : Change the colour tone.

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

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

After the photo has been saved:

- To access previously saved photos, go to the **Images** folder in **Gallery** by selecting **Options** → **Go to Gallery**. See page 72.
- To change the name of the photo, select **Options** → **Rename image**.
- To set the photo as wallpaper for Standby mode, select **Options** → **Set as wallpaper**.
- To return to the Image screen to take a new photo, press OK or the **Back** soft key.

Notes:
- Camera goes into Battery Saving mode, displaying "Camera on standby," if there have been no key presses within 2 minutes. To continue taking photos, press OK.
- 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 computer.

Using the self-timer

You can set the camera to take a picture automatically after a predefined time.

1. Select **Options** → **Self-timer**.
2. Select a time delay.
3. Press the **Activate** soft key or OK. The timer counts down and the camera will take a photo after the selected delay.

Changing camera settings

You can configure the camera settings. These settings will be applied to all subsequent photos that you take.

On the Image screen, select **Options** → **Settings**:

- **Image quality**: allows you to select an image quality. The better the image quality, the more memory the image consumes.
- **Show captured image**: allows you to set whether the phone shows the captured image or returns to Preview mode after saving a photo.
- **Image resolution**: allows you to select an image size. The image size is dictated by the resolution.

Note: Resolution is a measure of the sharpness and clarity of an image. Resolution is usually measured in pixels, for example, 640 x 480 = 300 kilopixels. The more pixels there are, the more detailed the photo is.

- **Default image name**: allows you to set a name format for the photos taken.
- **Memory in Use**: Select whether you want to store your images in the phone's memory or on the memory card, if you use one.
- **Light metering**: Select your preferred light metering system. Light metering provides better exposure balance in your images. If you select **Center weighted**, it measures light in the entire frame, but emphasises the weight in the centre of the frame. If you select **Spot**, it measures light in the centre of the frame. Use **Mean** for general shooting.

Recording video clips

You can record video clips. Recorded video clips are in 3GP format, which is the standard video file format for multimedia messaging.

1. In the Image screen, press the Right key. The Video screen displays.

Indicates the camcorder mode, video settings, and the memory being used.

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

   To switch between the interior lens and the exterior lens, press .

3. Make the desired adjustments.

   Use the following keypad to change the camcorder setting options:

   - Up/Down/Volume keys: Zoom in or out.
   - Right key: Switch to Camera Preview mode.
   - : Mute (×) or unmute the audio.
   - : Change the exposure mode. (: Auto, : Night, : Daylight)
   - : Select the memory where the video clip is saved. (: Phone, : Memory card)
   - : Adjust the brightness.

- 5: Adjust the contrast.
- 6: Change the white balance mode.
- 7: Change the colour tone.

4. To start recording, press OK or select **Options** → **Record**. The timer on the top right of the screen shows you the elapsed time.

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

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

After the video clip has been saved:

- To immediately play the video clip you just recorded, select **Options** → **Play**.
- To access previously saved video clips, go to the **Video clips** folder in **Gallery** by selecting **Options** → **Go to Gallery**. See page 72.
- To change the name of the video clip, select **Options** → **Rename**.
- To return to the Video screen to record a new video clip, press OK or the **Back** soft key.

Changing video options

You can configure the camera settings. These settings will be applied to all subsequent videos that you take.

On the Image screen, select **Options** → **Settings**:

- **Length**: Select the recording time limit. If you select **Short**, the phone records a video of up to 100KB or 300 KB, which is the limit for sending an MMS message. If you select **Maximum**, the phone records a video to the limit of the memory remaining.
- **Video resolution**: Select an image size. With **352x288**, video quality cannot be quaranteed for fast motion.

- **Default video name**: Define the default name format of your video clips.
- **Memory in use**: Select the default memory location for saving video clips.

MP3 Player

Using **MP3 Player**, you can play MP3 music files. You can download MP3 files from the Internet or transfer ones from a computer.

Press to open the Menu, and then select **MP3 Player**.

Adding MP3 files to the play list

When you open MP3 player for the first time, the file list appears. If necessary, select **Options** → **Go to file list**.

All MP3 files in the phone's memory and on the memory card, if you use one, display.

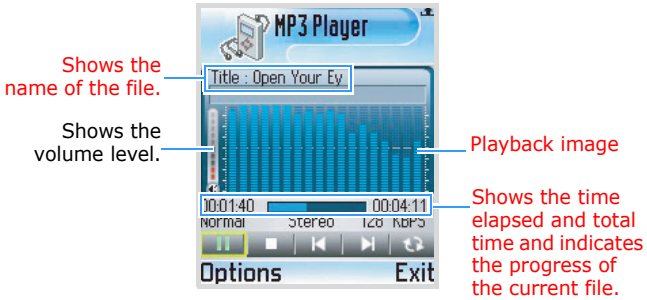
You can view indicators, telling you the memory where the file is stored, next to the file name (for the phone's memory and for the memory card).

Note: When you save MP3 files in your phone's memory, the **C** directory, you need to copy them to the **Nokia** folder to let them display on the MP3 file list.

1. On the file list:
   - To add a file to the play list, scroll to the file you want and press . A check mark displays beside the selected file.
   - To add all of the MP3 files to the play list, select **Options** → **Mark all**.
2. Press the **Player** soft key, to go to the MP3 Player screen. The checked files are added to the play list.

Playing MP3 files

From the MP3 player screen, press OK to play the first MP3 file stored in the play list.



While playing music files:

- To adjust the volume, press / or the Up or Down key.
- To pause playback, select .
- To resume playback, select .
- To skip to the previous or next file in the play list, select or .
- To repeat all of the MP3 files in the play list, select .

Note: When you close the phone, you can pause and resume playback by pressing .

Editing the MP3 play list

1. On the MP3 Player screen, select **Options** → **Go to play list to open** the play list.

2. On the play list:
   - To play a file, select the file you want.
   - To go back to the MP3 Player screen, press the **Player** soft key.
   - To change the file order in the list, select **Options** → **List move up** or **List move down**.
   - To remove a file from the list, scroll to the file and select **Options** → **Delete**.
   - To remove all of the files from the list, select **Options** → **Delete all**.

Changing MP3 Player settings

On the MP3 Player screen, select **Options** → **Settings**. You can set the following options:

- **Auto start**: Choose **On** to automatically start playing files without having to press each time you open MP3 Player.
- **Repeat**: Choose **On** to repeat all files in order.
- **3D sound**: Turn the 3D sound on or off.
- **Lyric**: Set the MP3 player to show you song lyrics during playback, if a file has lyric information.
- **Shuffle**: Choose **On** to play the files at random order.
- **Equalizer**: Set the MP3 Player to display the image pattern during playback.

RealPlayer

With **RealPlayer**, you can play media files, such as music files, video files, sound files, and stream live content from the Internet, stored in the phone's memory or on the memory card, if you use one.

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

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

Playing media files

You can play any music or video file from the list shown when you start **RealPlayer**, or play a file directly from the Internet.

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 in RealPlayer. 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 / or the Left or Right key.
   - To move backward or forward through a file, press and hold the Up or Down key.
   - To pause playback, press the **Pause** soft key.

- To resume playback, select **Options** → **Resume**. To view the video on the full screen, select **Resume in full screen**.
- To stop playback, press the **Stop** soft key.

If you are playing a sound file or a playlist:

- To adjust the volume, press / or the Left or Right key.
- To pause playback, select .
- To resume playback, select .
- To skip to the previous or next file, select or .
- To move backward or forward through a file, select or . The player moves by 5-second increments.
- To stop playback, select or press the **Stop** soft key.
- To activate repeat mode, select **Options** → **Repeat mode** → **On**.
- To activate Random mode, select **Options** → **Random mode** → **On**.

If you are playing and MP3 file, see page 66.

Playing stream live content from the Internet

You can open an rtsp:// URL address, but cannot open an http:// URL address. However, RealPlayer will recognise an http link to a .ram file since a .ram file is 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 the Left or Right key.
   - To pause playback, press the **Pause** soft key.
   - To resume playback, select **Options** → **Continue**.
   - To stop playback, press the **Stop** soft key.

Using a track list

You can make your own track list with audio files.

Creating a play list

1. On the RealPlayer main screen, select **Options** → **New track list**.
2. Select a memory location in which the track list is stored, if necessary.
3. Enter a list name and press the **OK** soft key.
4. Select a folder from which you want to retrieve files and then select a file from the directory.
5. To add more files, select **Options** → **Edit playlist**.
6. Select **Options** → **Add** and then select a folder, and then a file.
7. Repeat steps 5 and 6 until you have finished adding files.
8. Press the **Back** soft key and then the **Yes** soft key to save the changes.

Editing a play list

1. While playing files on a play list, select **Options** → **Edit playlist**.

2. Press the **Options** soft key and select:
   - **Add** to add more sound files to the list.
   - **Remove** to remove the currently selected file from the list.
   - **Move** to change the file order. A check mark is placed to the right of the file. Move the selection to the place you want and press the **OK** soft key to move the file.

3. Press the **Back** soft key and then the **Yes** soft key to save the changes.

Changing RealPlayer settings

To change the video player settings, select **Options** → **Settings** → **Video** to open the following list of settings:

- **Contrast**: Adjust the brightness of video clips by pressing the Left or Right key.
- **Loop**: Choose **On** to play the currently playing video file repeatedly.

To change the audio player settings, select **Options** → **Settings** → **Audio** to open the following list of settings:

- **Loop**: Choose **On** to play the currently playing sound file repeatedly.
- **Random play**: Choose **On** to play sound files at random order.

To change the connection settings for accessing video streaming services, select **Options** → **Settings** → **Connection** to open the following list of settings:

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

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

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

- **Network**: Change items from the following list of network settings:
  - **Default access point**: Enter the default access point.
  - **Online time**: Select the length of time **RealPlayer** stays online when inactive. After the specified period of inactivity, RealPlayer will disconnect 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 store and organise your images, sound clips, video clips, streaming live contents from the Internet, and RAM files.

Press to open the Menu, and then select **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 the RealPlayer™ application.
- Music files - open and play in the MP3 player.
- Sound clips - open and play in the Music Player or MP3 Player application.
- To view all files, select **All files** from **Gallery**.

Images

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

Viewing an image

1. On the Gallery main view, select **Images**.
2. Select an image file.

   When you are viewing the image, pressing the Left or Right key takes you to 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 the full screen, select **Options** → **Full screen**. To go back to the normal view, press the right soft key or select the left soft key → **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** → **Set as wallpaper**.
- To set the image as a caller ID image, select **Options** → **Add to contact**.
- To add a shortcut for the image to Pinboard, select **Options** → **Add to 'Go to'**.

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:

- 1: rotates the image 90 degrees counterclockwise.
- 2, 8, 4, 6: pans the image to the direction you want while zooming in. These keys function as the Navigation keys.
- 3: rotates the picture 90 degrees clockwise.
- 5, 0: zooms in or out.

Videos

In this folder, you can main view video clips you have recorded using the camera or video files you have downloaded from the Internet or received in multimedia messages.

Playing video clips

1. On the Gallery main view, select **Video clips**.
2. Select a video clip.

   The RealPlayer opens and the video clip starts playing. For details, see page 68.

Tracks

In this folder, you can access music files you have downloaded from the Internet or received in multimedia messages. MP3 and .aac file are supported.

Playing music files

1. On the Gallery main view, select **Tracks**.

2. Select a file or playlist.

   For a music file, the MP3 player opens and the music file starts playing. For details, see page 66.

   For a playlist, select **Play**. The Realplayer opens and playback starts. See page 68.

Sounds

In this folder, you can access sound clips you have recorded in **Recorder**, and sound files you have downloaded from the Internet or received in multimedia messages. .ra, .wav, .midi, .mmf, and .amr, files are supported.

Playing sound clips

1. On the Gallery main view, select **Sounds**.
2. If necessary, select the subfolder you want.
3. Select a sound clip or play list.

   The RealPlayer screen opens and the sound clip starts playing. See page 68.

Links

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

Accessing a link

1. On the Media Gallery main view, select **Links**.
2. Select a link.
3. Press the **Yes** soft key to confirm the connection to the server.

Adding a new link

1. From the Links list, select **Options** → **New link**.
2. Select a memory location in which the link is stored, if necessary.
3. Enter the link name and press the Down key.
4. Enter the URL string and press the **OK** soft key.

Downloading files

You can download files from the web browser. The downloaded files are saved in **Gallery**.

Select **Graphic downlds**, **Video downlds**, **Track downlds**, or **Sound downlds** from the top of each list. The web browser opens and you can choose a bookmark for the website from which to download or enter a URL address of the website. See "Viewing bookmarks" on page 125.

Games

In **Games**, you can enjoy embeded Java games, or ones download from the Internet.

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

From details about playing games, see help information that came with the games.

Notes:
- Running certain games may consume the phone's battery faster and you may need to connect the phone to the power source.
- You can download games from various sources and store them in your phone. See xx.

chapter 6

Message services

Your phone provides you with various message service applications:

- Messaging
- Voicemail
- IM (Instant Messaging)

Messaging

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

- text messages,
- multimedia messages,
- e-mails, 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**. You can also press the **Messag.** soft key in Standby mode.

Message folders

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

- **Inbox**: contains received messages, except for e-mails and cell broadcast messages.
- **My folders**: stores your messages to organise them into folders. You can create new folders within **My folders**.
- **Mailbox**: When you open this folder, you can either connect to your remote mailbox to retrieve new e-mails or view previously retrieved e-mails offline. See page 86 for further information.

- **Drafts**: stores draft messages that have not been sent.
- **Sent**: stores the 20 most recent messages that have been sent successfully.
- **Outbox**: is a temporary storage place for messages waiting to be sent.
- **Reports**: stores delivery reports the network have sent you for the sent text messages and multimedia messages. You can request the network to send a delivery report by setting the **Receive report** option in **Settings**.
- **Cell broadcast**: contains messages on various topics received from your service provider.

Notes:
- Receiving a delivery report for a multimedia message that has been sent to an e-mail 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

You can create and send a simple text message.

1. Select **New message** → **Text message**. The editor opens with the cursor in the **To:** field.
2. Press (OK) to select recipient(s) from **Contacts**, or enter the phone number of the recipient. Add a semicolon (;) to separate each recipient.
3. Press the Down key to move to the text field.
4. Enter the message text.
   - To add a message template, select **Options** → **Insert** → **Template**.

- To set the sending options for the message, select **Options** → **Sending options**. See page 92.

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

5. Select **Options** → **Send** or press 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 e-mail.

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

Notes:
- For using the multimedia message service, you need to define an access point. See page xx.
- When you are sending a multimedia message to any phone other than an SGH-Z600, you should use smaller image sizes smaller than ?? and sound clips that are no longer than 1 minute.

1. Select **New message** → **Multimedia message**.
2. Press OK to select the recipient(s) 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. You can 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 smaller than 176 x 144.

   - To make a multimedia presentation using one of the image or sound templates, select **Options** → **Create presentation**. For a presentation, you can change the text colour, add an image to the background, and apply the special effect between images and slides of the presentation.
   - To remove an added item, select **Options** → **Remove**, and select 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 set the sending options for the multimedia message, select **Options** → **Sending options**. See page 93.

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

6. Press or select **Options** → **Send** to send the message.

Composing and sending e-mails

You can send e-mails that include text, images, sound clips, video clips, or other attachments.

Note: For using the E-mail service, you need to define a mailbox. See page xx.

1. Select **New message** → **E-mail**.
2. Press (OK) to select the recipient(s) from **Contacts**, or enter the e-mail address of the recipient in the **To:** field. Add a semicolon (;) to separate each recipient.

   If you want to send a copy of your e-mail to someone, press the Down key and enter the address in the **Cc:** field.
3. Press the Down key and enter the e-mail subject.
4. Press the Down key and enter the e-mail text.
   - To add an attachment to the e-mail, select **Options** → **Insert** → media type. appears on the navigation bar to indicate that the e-mail has an attachment.
   - You can also add an attachment to an e-mail by selecting **Options** → **Attachments** in an open e-mail. The Attachments view opens where you can add, view, and remove attachments.
   - To remove an attachment, on the Attachments view screen, scroll to the attachment and select **Options** → **Remove**.
   - To set the sending options for the e-mail, select **Options** → **Sending options**. See page 95.
5. Select **Options** → **Send** to send the e-mail.

Important: Copyright protections may prevent some images, sounds, and their contents from being copied, modified, transferred, or forwarded.

Inbox - receiving messages

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

Opening a received message

When you receive a message, a New message icon and the note “You have 1 new message” are shown in Standby mode. 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 an unread multimedia message,
- for an unread service message,
- for media files received via Bluetooth connections,
- for an message of unknown type, and
- for data received via Bluetooth or IrDA connections.

To open a message, select the message you want.

Use the Up or Down key to move up and down in the message. When you view a message, 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 file to **Gallery** → **Images**.
- **Add to Contact**: saves the contact card in a smart 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**: copies the address of the sender to the **To:** field. Select **Reply** → **To all** to copy the addresses of the sender and **Cc:** field recipients to the new message.
- **Forward**: copies the message contents to an editor.
- **Call**: call the sender by pressing .
- **Delete**: deletes a message.
- **Find**: searches the message for phone numbers, e-mail addresses, and URL addresses.
- **Deactive find**: deactivates the **Find** option.
- **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 computer. Do not open any attachment if you are not sure of the trustworthiness of the sender. For more information, see "Certificate management" on page 148.

- **Message info**: 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 31.

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 the 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.

- **Ringing tone**: to save a ringtone to **Gallery**, 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, to save the data select **Options** → **Save all**.
- **E-mail notification**: tells you how many new e-mails you have in your remote mailbox.
- In addition, you can receive a SMS service number, voicemail server number, sync profile settings, access point settings, and so on. To save the settings, select **Options** → **Save to SMS sett.**, **Save to voice mail**, **Save to settings** or **Save to e-mail sett.**.

Service messages

You can order service messages (push messages) from service providers. 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.

Viewing service messages in Inbox

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 31.

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 e-mail headings or messages, or
- to view your previously retrieved e-mail headings or messages offline.

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

Viewing e-mails

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

Viewing e-mails when online

When the phone asks you if you want to **Connect to mailbox?**, select **Yes** to connect to your mailbox. You can also select **Options** → **Connect**.

When you are online, you are continuously connected to your mailbox via a packet data connection.

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

Viewing e-mails when offline

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

Retrieving e-mails from a mailbox

1. If you are offline, select **Options** → **Connect** to start a connection to your mailbox.

   The mailbox view is similar to the **Inbox** folder in **Messaging**. The following icons are used to show the status of e-mails:
   - - new e-mail (offline or online mode), whose content has not been retrieved from the mailbox to your phone.
   - - new e-mail, whose content has been retrieved from the mailbox.
   - - e-mails that are read and the content has been retrieved from the mailbox.
   - - e-mail headings that have been read and the message content has been deleted from the phone and the server.

2. When you have an open connection to your mailbox, select **Options** → **Fetch** →
   - **New** to retrieve all new e-mails to your phone.
   - **All** to retrieve all messages from the mailbox.

3. After you have retrieved the e-mails, you can continue viewing them online or select **Options** → **Disconnect** to end the connection and view the e-mails offline.

Opening e-mails

Select the e-mail you want to view.

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

Viewing e-mail attachments

Open a message that has the attachment indicator and select **Options** → **Attachments** to open the Attachments view.

Important: E-mail attachments may contain viruses or otherwise be harmful to your phone or computer. Do not open any attachment if you are not sure of the trustworthiness of the sender. For more information, see "Certificate management" on page 148.

Opening an attachment

In the Attachments view, select an attachment. The attachment opens in the corresponding application.

Saving an attachment

To save an attachment, select **Options** → **Save** in the Attachment view. The attachment is saved in the corresponding application.

Deleting e-mails

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

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

- To delete an e-mail from both the phone and from your mailbox. Select **Options** → **Delete** → **Phone and server**. The e-mail icon change to .

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

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

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**/**Queued**: For example, if there are two similar types of messages in **Outbox**, one of them is waiting until the first one is sent.
- **Retry 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**: You can defer sending messages while they are in **Outbox**. Scroll to a message that is being sent and select **Options** → **Suspend**.
- **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 e-mails 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 e-mail addresses.

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

Cell broadcast

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

Opening a CB message

When you access **Cell broadcast**, 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** → **Unsubscribe**.
- 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** → **Unhotmark**.

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

Viewing messages on a SIM card

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

Before you can view the messages stored on the 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 (also 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 **Messaging**, select **Options** → **Service command** from the Messaging main view.

Messaging settings

The Messaging settings 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**: Lists all of the SMS centres that have been defined. You can add a new SMS centre by selecting **Options** → **New msg. centre**.
- **Msg. centre in use**: Defines which SMS centre is used for delivering text messages.
- **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. **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. The options are **Text**, **Fax**, **Paging**, and **Email**. 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 these other formats.

- **Preferred connection**: You can send text messages via the normal GSM or UMTS network or packet data, if supported by the network. See "Packet data" on page 145.
- **Reply via same ctr.**: 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. 160x120 pixels) and **Large** (max. 640x480 pixels). When you send a message to an e-mail 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 84.

- **Multimedia retrieval**: Select:
  - **Always automatic** to receive multimedia messages regardless of where you are.
  - **Aut. in home net...** to receive multimedia messages only when you are in your home network. When you are outside your home network, multimedia message reception is turned off.
  - **Manual** to receive multimedia messages manually by selecting **Options** → **Retrieve**.(??)
  - **Off** if you do not want to receive multimedia messages or advertisements at all.

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

- **Allow anon messages**: 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 e-mail 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. **Maximum time** is the maximum amount of time allowed by the network for the message to remian active.

Settings for e-mails

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:

Mailbox settings

- **Mailbox name**: Enter a name for the mailbox.
- **Access point in use** (Must be defined): This is the Internet Access Point (IAP) used for the mailbox. Choose an IAP from the list. For more information on how to create an IAP, see also "Connection settings" on page 142.
- **My e-mail address** (Must be defined): Enter the e-mail address given to you by your service provider. The address must contain the @ character. Replies to your messages are sent to this address.

- **Outgoing mail host** (Must be defined): Enter the IP address or host name of the mail server that sends your e-mails.
- **Send message**: Define how an e-mail is sent from your phone. When you select **Immediately**, a connection to the mailbox is started immediately after you have made this selection. When you select **During next conn...**, an e-mail is sent the next time you connect to your remote mailbox.
- **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 e-mails.
- **Mailbox type**: Define the e-mail protocol your mail service provider recommends.

Note: This setting can be selected only once and cannot be changed if you have saved or exited from the mailbox settings.

- **Security** (**ports**): Select **On** (**143/110**) or **On** (**993/995**). Any amount of data and messages can be sent securely.
- **APOP secure login**: Select **On** to authenticate users on login to the POP3 server.

User settings

- **Retrieve** (POP3)/**E-mails to retrieve** (for IMAP4): Limit the number of e-mail headers you want to retrieve to your phone.
- **Retrieve attachments** (for IMAP4): Select **Yes** to retrieve e-mails with or without attachments.
- **Subscribed folders** (for IMAP4): select the message folder from which you want the phone to retrieve e-mails.

- **Retrieved parts** (for Pop3): Select which part of e-mails are retrieved.
- **Send copy to self**: Select **Yes** to save a copy of the e-mail to your mailbox and to the address defined in **Own mail address**.
- **Include signature**: Select **Yes** if you want to attach a signature to your e-mails, and to enter or edit a signature text.
- **My name**: Enter your display name.

Automatic retrieval

- **Header retrieval**: Select whether or not the phone automatically retrieve e-mail headers 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**: Choose 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 in 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**: Choose **Yes** to save a copy of every text message, multimedia message, or e-mail that you have sent. Messages will be saved to the **Sent** folder.
- **No. of saved msgs.**: Define how many sent messages can be saved to the **Sent items** folder at a time. When the limit is exceeded, the oldest message(s) will be deleted.
- **Memory in use**: Select a memory location to be used for storing messages.
- **New e-mail alerts**: choose **On** to set the phone to alert you to a new e-mail.

Voice mail

You can access the voicemail server to check new voicemails.

Press to open the Menu, and then select **Office** → **Voice mail**.

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 **Options** → **Call voice mailbox** from the Voice mailbox main view. You can also press and hold 1 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 Voice 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 chat features can receive and display chat messages.

IM, Instant Messaging 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 chat conversation.

Press to open the Menu, and then select **My stuff** → **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 a chat service, you need to set up a chat server and other settings. See page xx.

Connecting to the chat service

To connect to the chat service, and select **Options** → **Login**. Enter the user ID and password and press the **OK** soft key. When the phone has successfully connected, "Login completed" is displayed.

To disconnect from the chat service, select **Logout**.

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 chats or invitations to chats during the active chat session.

indicates new chat messages and indicates invitations.

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

- **Open** to open the conversation to start a chat session.
- **Delete** to delete the invitation, if the selected item is an invitation.
- **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.
- **Set auto reply on** to set the phone to send a preset reply automatically when a participant sends you a message or invitation.
- **Blocking options** → **Add to blocked list** to block messages from the current participiant. 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**.

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 103.

Searching for a contact from the server

From the IM main view, select **Options** → **New chat contact** → **Search from server** to search for other chat users on the network.

You can search for a user by name, ID, phone number, or e-mail address.

Starting from Contacts

To start a chat session from **Contacts**, see "Using subscribed contacts" on page 51.

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:

- **Send** to send the entered message.
- **Add to Chat contact** to add the current partner to the IM contacts list.
- **Forward** to send the selected message on the message list.
- **Record convers.** to save the current conversation. To access saved conversations, select **Recorded chats** from the IM main view.
- **Stop recording** to stop saving the conversation.
- **Blocking 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**.

Ending a chat session

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

Accepting or rejecting a chat 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 a chat message

From Standby mode, 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 chat session are held in **Conversations** in the **IM** application.

If the message is from a person whose contact information is not in the IM contacts 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 in the phone's memory, Select **Options** → **Add to Chat contact** and add details and press the **Done** soft key.

Managing IM Contacts

In the IM contacts 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 contacts 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 list.
- **Change contact list** to update the connection status of the contacts.

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

- **Contact details** to view the selected contact details. You can also edit the details.
- **Switch tracking on** to receive a note when the connection status of the contact changes. appears on the IM contacts list to indicate that tracking is activated for that participant.

- **Belongs to groups** to view which group the contact belongs to.
- **Edit** to change the contact information.
- **Delete** to remove a contact from the IM contacts list.
- **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**.

Settings for chat

To change the settings for chatting, select **Options** → **Settings**.

IM settings

- **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 contacts list.
- **Msg. scrolling speed**: Adjust the speed of the message transmission by pressing the Left or Right key.
- **Sort IM contacts**: Select the order of the IM contacts list.
- **Use screen name**: Enter the screen name to be displayed on the chat screen as your identity.
- **Availability reloading**: Select if you want to automatically or manually reload other users' availability status to indicate whether they are online or offline.

Server settings

- **Servers**: Create a new server or edit an existing server. To add a new server, press OK when **New server** highlights or 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 143.
- **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.
- **Presence login type**: You can change the setting for the Presence service login; for details about the Presence service, see xx. Select:
  - **Automatic** to automatically log in to the Presence service when you switch on the phone, regardless of your location.
  - **Aut. in home net.** to automatically log in to the Presence service when you are in your home network.
  - **On app. start-up** to automatically log in to the Presence service when you enter the **Presence** application.
  - **Manual** to display a confirmation message when you access the **Presence** application.
- **IM login type**: Select **On app. start-up** to automatically log in to the chat service when you access the **IM** application. Select **Manual** to display a confirmation message when you access the application.

chapter 7

Office

Notes

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

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

Creating a note

1. Start entering note text or select **Options** → **New note**.
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.

Setting as a Go to item

You can set a note as a Go to item so that you can quickly access it. Scroll to a note and select **Options** → **Add to 'Go to'**.

Calculator

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

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

1. Enter the first number of your calculation.
2. Scroll to the function you want using the Navigation keys and press OK.
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.

Tips for using the calculator

- 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 C 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 **Office** → **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 109.

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 other **Amount** field charges 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. Select **Options** → **Rename currency** and set the currency name.
3. Enter a new rate, that is, how many units of the currency equal one unit of the base currency you have selected. See the example below:

   If you set the Euro (EUR) as the base currency, a United Kingdom Pound (GBP) is approximately 1.63575 EUR. Thus, you would enter 1.63575 as the exchange rate for the GBP.
4. Repeat steps 2 and 3 to set up the currency list as needed.
5. To change the base currency, scroll to the currency (usually your domestic currency) and select **Options** → **Set as base curr.**.

Note: When you change the base currency, all previously set exchange rates are reset to **0** and you need to enter new rates.

6. When you have finished, press the **Done** soft key.
7. Press the **Yes** soft key to save the changes.

Recorder

Recorder allows you to record telephone conversations and voice memos. If you are recording a telephone conversation, both parties hear a tone every five seconds during recording.

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

Notes:
- Obey all local laws governing recording of calls. Do not use this feature illegally.
- **Recorder** cannot be used when a data call or a GPRS connection is active.

To record a voice memo:

1. Press OK to starting 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 change the name of the sound clip, select **Options** → **Edit name**.
- To access previously saved clips in **Gallery**, select **Options** → **Go to Gallery**.

- To add the shortcut to the sound clip, in **Go to**, select **Options** → **Add to 'Go to'**.
- To change the saving location from the phone's memory to the memory card by selecting **Options** → **Settings**.

Viewer

Viewer is a revolutionary product for document browsing on thin-client computing platforms. It allows you to view content on your phone without any file-conversion or loss of content. It supports most common desktop document formats including PDF, Word, Excel, and PowerPoint.

Press to open the Menu, and then select **Office** → **Viewer**. Once it is running, you will see the default blank page.

Viewing a document

1. On the Viewer main screen, select **Options** → **Open file(*)**. The Explore view opens.

   The "E" directory indicates the installed memory card. The "C" directory indicates your phone's memory.

2. Select the directory you want to open.

   Documents look like sheets of paper in various colours, depending on their type. The following document formats are supported:

   Adobe PDF: , Microsoft Word: , Microsoft Power Point: , Microsoft Excel: , Plain Text: .

3. Select the folder or document you want to view.

   If you select a folder icon, you will be shown the contents of that folder. If you select a document icon, it will open.

Options in the document view

You can use the following options while viewing a document.

- To rotate the screen 90 degrees counterclockwise, select **Options** → **Page** → **Rotate (9)**.

Note: You can change the direction of the rotation in the **Preferences** option. See page 114.

- To zoom in or out, press the **Mode** soft key until displays. Press the Navigation keys to zoom in or out.
- To fit the width of the page on screen, select **Options** → **Page** → **Fit to Width (7)**.
- To pan to a different part of the document, press the **Mode** soft key until displays. Press the Navigation keys to move in the direction you want.
- To navigate pages, if there is more than one page, select **Options** → **Page** → **Goto Page (#)**, **Next Page (3)**, **Previous Page (1)**, **First Page**, or **Last page**.

Keypad shortcuts

In the document view, you can use the following keys:

- 1, 3: navigates to the previous or next page.
- 2, 8, 4, 6: pans up, down, left, or right.
- 5, 0: zooms in or out.
- 7: fits to the width of the page.
- 9: rotates the screen.
- *: opens other file.
- #: goes to the page you want to view.

Viewing History

The history view shows you previously visited documents as small thumbnail-images of the document, and the document's name, location, and the date of your visit.

To open the history view, select **Options** → **History**.

- To view information about a document, scroll to the document you want and press the **Info** soft key.
- To return to the most recently displayed document, select **Options** → **Document**.
- To return to any of the documents from the history view, select the thumbnail image of that page.
- To delete all of the documents in the history view, select **Options** → **Clear all**.

Note: Documents will remain on the History list until a certain number of days have passed. You can control this period in the **Preferences** option. See page 114.

Viewing Favourites

For your favourite documents, you can keep a list in the favourites view. Before viewing favourites, you must first add the pages to your favourites. To open the favourites view, select **Options** → **Favourites**.

- To add the current page to your favourites, select **Options** → **Add favourite**. Enter the name you want and press the **OK** soft key.
- To return to the most recently displayed document, select **Options** → **Document**.
- To view information about a document, scroll to the document you want and press the **Info** soft key.

- To return to one of your favourites, select the thumbnail image of the page.
- To delete one of your favourites, scroll to the thumbnail image of the page and select **Options** → **Delete favourite**.

Changing Viewer settings

Select **Options** → **Preferences**. You can use the following options:

- **Start From**: Select what is displayed in the document view when you first launch viewer. By default, when you first open the Viewer application, a blank page displays on the screen.
- **Keep History**: Set the period after which the thumbnail pictures and descriptions of pages are purged from the history memory.
- **Rotate**: Select the direction the screen will be rotated when the **Rotate (9)** option is used.

VoiceSignal

Your phone provides a set of powerful voice-enabled features that enhance the hands-free capabilities of your phone.

Using **VoiceSignal**, you can:

- Make a call by saying any name from **Contacts**, without having to train the system to recognise names.
- Retrieve contact information for a person on the Contacts list by saying the person's name.
- Launch applications by voice.
- Send an SMS message.

Press and hold , or press to open the Menu and then select **Office** → **VoiceSignal**.

When the phone prompts you with “Say a command,” say one of the commands:

- Call <Name or number>
- Send SMS <Name>
- Look up <Name>
- Open <Application>

Name dialling

You can make a phone call by saying the name that has been assigned to a contact card in **Contacts**.

Note: To use the Name Dial feature, the name and number that you want to dial must be in **Contacts**. For details, see page 46.

1. Go to **VoiceSignal**. The VoiceSignal main screen opens and the phone says “Say a command.”

2. After a beep, say “Call” and then a person’s name stored in **Contacts** to make a call by voice command; for example, say “Call James Bond.” This will save you a step for name dialling.

3. If there are similar names, the phone displays the 3 best candidates and then recites the name that most closely matches your command and the first available number type. If the name or type is not what you wanted, say “Next”.

   To go back to the name or type recited previously, say “Previous”.

   Repeat until you hear what you want.

4. If you press (OK) or say nothing for 3 seconds, the phone dials the currently selected number.

Searching for contacts

VoiceSignal lets you retrieve contact information for any name in the Contacts directory by saying that name. Your phone displays the information.

To view contact information by saying the name:

1. Go to **VoiceSignal**. The VoiceSignal main screen opens and the phone prompts you, saying "Say a command."
2. After a beep sounds, say "Look up" and then the full name of the contact card, the first name followed by the last name.
3. If there are similar names, follow step 4 in "Name dialling" on page 115.
4. If you press OK or say nothing for 3 seconds, the phone displays the currently selected contact card.

Opening applications by voice

VoiceSignal lets you use your voice to launch applications on your phone. By default, you can launch the applications displayed on the VoiceSignal screen by voice. You can customise the application list by adding or removing the applications to be launched by voice.

To set up application list for voice launch:

1. Select **Settings** → **Application Launcher**.
2. Select the applications you want.
3. Press the **Back** soft key.

To open an application by saying the name of the application:

1. Go to **VoiceSignal**. The VoiceSignal main screen opens and the phone prompts you, saying "Say a command."
2. Say "Open" and then the name of the application that you want to open; for example, say "Open Contacts."
3. If the phone found several applications, follow step 4 in "Name dialling" on page 115.
4. If you press OK or say nothing for 3 seconds, the phone automatically opens the currently selected application.

Sending a text message

VoiceSignal lets you open a message editor to send a text message to a number stored in **Contacts**.

1. Go to **VoiceSignal**. The VoiceSignal main screen opens and the phone prompts you, saying "Say a command."
2. Say "Send SMS" and then the name of the recipient.
3. When an editor opens with the recipient entered, write your message. See "Composing and sending text messages" on page 78.

Changing the voice recognition settings

To change the settings for using the **VoiceSignal** application, press the **Settings** soft key. The following options are available:

- **Choice lists**: Set whether or not the phone displays a choice list after recognising a command.

- **Sensitivity**: Adjust the sensitivity in which your phone recognises a voice command. Change the setting if your phone has difficulty recognising your voice command.
- **Digit dialling**: Adapt your phone to recognise your voice commands better by programme it with your pronunciation and accents for each digit.
  - **Select location**: allows you to select your current location.
  - **Adapt Digits**: starts the adaptation. Say the digits displayed on the screen clearly.
  - **Reset Digits**: clear the adaptation.
- **Sound**: Set the sound options.
  - **Prompts**: Enable or disable voice prompts.
  - **Digits**: Enable or disable audio playback for digits while dialling.
  - **Names**: Enable or disable audio playback for names.
  - **Name Settings**: Set the volume and speed for playback.
- **Language**: Select a language to be used for recognising commands and play voice guides.
- **Application Launcher**: Specify applications that can be launched by voice commands.
- **Contacts Update**: Select whether or not voice signal is automatically updated according to changes in **Contacts**.
- **About**: Access version information for **VoiceSignal**.

To-do

In **To-do**, you can keep a list of tasks that you need to do.

Press to open the Menu, and then select **To-do**.

Creating tasks

1. Select **Options** → **New to-do note**.
2. Enter the task subject in the **Subject** field.
3. Scroll to the **Due date** field and enter the date by which you need to finish the task.
4. Select the **Priority** field and select a priority level for the task.
5. Press the **Done** soft key, to save the task.

Viewing tasks

On the To-do list, the task's priority icons display as follows:

- **High**, - **Low**, and No icon - **Normal**.

- To open a task, scroll to it and press OK or select **Options** → **Open**.
- To delete a task, scroll to it and select **Options** → **Delete** or press C.
- To mark a task as completed, scroll to it and select **Options** → **Mark as done**. To unmark, select **Options** → **Mark as not done**. The check mark displays beside the task.

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 **Office** → **Clock**.

Changing clock settings

To change the time or date, select **Options** → **Settings** on the home clock or world clock screen.

The following setting options are available:

- **Time**: Enter the current time. If the time format is set to **12-hour**, you can change am/pm by pressing any one of the number keys or .
- **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.
- **Auto time update**: Select **On** if you want the mobile phone network to update the time and date, and time zone information to your phone. The phone reboots, turning itself off and then back on.
- **Daylight-saving**: Select **On** to use daylight savings. The indicator is shown on the home clock screen.

Setting an alarm

1. Press the Right key on the home clock screen. You can set the following alarm modes:
   - **Once alarm**: the alarm rings just once and is then deactivated.
   - **Daily alarm**: the alarm rings every day at the same time.
   - **Morning call**: the alarm rings to wake you up in the morning from Monday to Friday.
2. Select **Set time**, enter the time for the alarm to sound, and press the **OK** soft key.
3. Select **Alarm sound** and choose an alarm tone.
4. Press the **OK** soft key to save your selection.

Deactivating alarms

- To deactivate an alarm, select the alarm you want and select **Remove alarm**.
- To deactivate all alarms, select **Remove alarm** from the Alarm screen.

Turning off the alarm

When the alarm time comes, the phone will sound an alarm tone and flash "Once alarm," "Daily alarm," or "Morning call," the alarm icon, and the current time on the display.

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

Viewing world clock

To view the world time in other cities, first you must add the cities you want to the world clock screen.

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 from step 2 to add more cities, if necessary.

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

Setting the home zone

You can set a city on the Cities 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** → **My current city**.

chapter 8

Internet

This chapter describes how to get access to the Internet and how to use the Internet applications.

Your phone has the following browser applications:

- **Web** - A browser in Wireless Application Protocol (WAP) format for accessing various types of information, entertainment, and other services provided by various WAP operators. WAP is suited to mobile devices with small screen displays and limited amounts of memory.
- **Operator Menu**: A preset link to the web portal site of your service provider.

To connect to the Internet,

- the wireless network you use must support data calls,
- the data service must be activated for your SIM card,
- you must have obtained an Internet access point from an Internet Service Provider (ISP), and
- you must have defined the proper web browser settings. See page xx.

Note: Your phone is preset by default for access to the Internet, so that you can easily use the Internet Service. If the Internet browser doesn't 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.

Web

Various service providers on the Internet 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 XHTML, or a mixture of both.

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 the **Go to** soft key.

Note: If the security indicator displays during a connection, the data transmission between the phone and the browser gateway or server is encrypted.

Viewing bookmarks

A bookmark consists of an Internet address, bookmark title, access point, and if the service requires, a user name and password.

To access the Bookmarks list while browsing, press and hold (OK). In **Bookmarks**, 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 **Automatic bookmarks** option (see page 129), 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 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 (OK) or select **Options** → **Open**.
- To scroll, use the Navigation keys.
- To return to the homepage, select **Options** → **Navigation options** → **Home page**.
- 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 a chronological list of the pages you have visited during the current browsing session.
- To check boxes and make selections, press (OK).
- To retrieve the latest content from the server, select **Options** → **Navigation options** → **Reload**.
- To change the display mode of the browser, select **Options** → **Advanced options** → **Small screenON**. To return to the original status, select **Options** → **Advanced options** → **Original screen**.
- To save the current web page to access offline, select **Options** → **Advanced options** → **Save page**.
- To open the Bookmarks screen and search for a bookmark, select **Options** → **Bookmarks**.
- To save a bookmark while browsing, select **Options** → **Save as bookmark**.
- To send the URL of the current web page as an SMS message, select **Options** → **Send as bookmark** → **SMS**.
- To find a phone number, e-mail address, or URL address from web pages, select **Options** → **Find item**.
- To view page information and session and security details of the current browser page, select **Options** → **Details**.

Viewing saved pages

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

To open the Saved pages view, press the Right key in the Bookmarks view. The following icons are available on the Saved pages view:

- - A saved web page. In the Saved pages view you can also create folders in which to store your saved web pages.
- - 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** → **Refresh**.

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.

Downloading directly from the web page

1. Scroll to a link and select **Options** → **Open**.
2. Choose the appropriate option to download the item, for example, **Buy** or **Download**.
3. Follow the onscreen instructions.

Ending a connection

- Select **Options** → **Disconnect**,
- Select **Options** → **Exit**, or
- Press or close the phone.

The phone ends the network connection and closes the browser.

Deleting Cookies

Cookies are pieces of information that the phone stores and transfers to servers, if necessary, during connections.

To delete cookies, select **Options** → **Advanced options** → **Delete cookies**.

Emptying the cache

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

If you have tried to access or have accessed confidential information requiring passwords (for example, your bank account), empty the cache of your phone after each use. Select **Options** → **Advanced options** → **Clear cache**.

Changing browser settings

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

- **Access point**: You can change the default access point. For more information, see "Connection settings" on page 142.
- **Load imgs. & sounds**: Choose **Yes** if you want to view pictures when you are browsing. If you choose **No**, you can later load images during browsing by selecting **Options** → **View images**.
- **Font size**: You can change the text size to be used on a web page.
- **Default encoding**: To display text characters correctly on a web page, select the appropriate language type.
- **Automatic bookmarks**: You can turn on or off the automatic completion of address in the Bookmarks view.

  To hide the **Automatic bookmarks** folder in the Bookmarks view, select **Hide folder**.
- **Screen size**: You can select how to view web pages. To display the browser on the full screen, select **Full screen**.
- **Homepage**: You can set a web page to be used as your homepage.
- **Search page**: You can set a URL of a website with search engine. When your select **Options** → **Navigation options** → **Open search page**, this website will be loaded.
- **Volume**: You can adjust the volume for playing background music, if available.
- **Rendering**: You can select how to browse the web page. Select:
  - **By quality** to download pages faster, but have with lower image quality.
  - **By speed** to get good image quality while browsing, but a slower page download speed.

- **Cookies**: You can enable or disable the transmission of cookies.
- **Java**/**ECMA script**: You can enable or diable the Java/Ecma script for the browser display.
- **Security warnings**: You can enable or disable viewing the security warnings you may get during browsing.
- **Conf. DTMF sending**: The browser supports functions you can access while browsing. You can make a voice call while you are on a web page, send DTMF tones while a voice call is in progress, and save a name and phone number from a web page. Choose whether you want to confirm before the phone sends DTMF tones during a voice call.

Operator Menu

Using **Operator Menu**, you can access the web-based service provided by your service provider.

Press to to open the Menu, and then select **My stuff** → **Op. menu**.

For further details about navigating the browser, see “Web” on page 124.

chapter 9

Personalisation

You can customise your phone to suit your preferences and needs by using various tools, such as:

- **Profiles**- sound settings for various environments
- **Themes**- display theme settings
- **Go to**- shortcuts for your favourite menus

Profiles

In **Profiles**, you can adjust and customise the phone tones for different events, environments, or caller groups. There are six preset profiles: **General**, **Silent**, **Meeting**, **Outdoor**, **Pager**, and **Offline**, which you can customise to meet your needs.

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

Changing profiles

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

You can quickly change the profile by pressing on the right side of the phone. 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.

Customising profiles

1. To modify a profile, scroll to the profile on the Profiles list and select **Options** → **Personalise**.

   A list of profile settings opens.

2. Scroll to the setting you want to change and press OK to open the choices:
   - **Ringing tone**: Choose a ringtone for voice calls. If a memory card is used, tones stored on it have the icon next to the tone name.

Note: You can change ringtones in two places: **Profiles** or **Contacts**. See "Adding a ringtone for a contact card" on page 50.

   - **Video call tone**: Choose a ringtone for video calls
   - **Ringing type**: Select the ringtone 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 the tone for messages.
   - **E-mail alert tone**: Choose the tone for emails.
   - **IM alert tone**: Choose the tone for instant messages.
   - **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 phone to sound a warning tone, for example, when the battery is running out of power, and sounds during a game.
   - **Alert for**: Set the phone to ring only upon calls from phone numbers that belong to a selected contact group. Phone calls coming from 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 customising each option, see page 132.

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, including 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 **Themes**, you can personalise the look of your phone's display by activating a theme. A theme can include the Idle wallpaper, colour palette, and background image in **Go to**.

Press to open the Menu, and then select **Tools** → **Themes**. You will see a list of the available themes. The currently active theme is indicated by a check mark.

Applying a theme

Select the theme you want from the list.

Changing themes

1. Scroll to a theme and select **Options** → **Edit**.

   You can use the following options:

   - **Wallpaper**: Select an image from one of the available images to use as a background image in Pinboard.
   - **Image in 'Go to'**: Select an image from one of the available images to use as a background image in Standby mode.

2. When you have finished, press the **Back** soft key.

Restoring themes

You can restore the currently selected theme to its original settings while editing. Select **Options** → **Restore org. theme**.

Downloading themes

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

Go to

Use **Go to** for storing shortcuts, links to your favourite photos, video clips, notes, sound files, browser bookmarks, and saved web pages.

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

You will see the following default shortcuts:

- - opens the day view in **Calendar**.
- - opens the Inbox in **Messaging**.
- - opens the Notes editor.

Adding shortcuts

Shortcuts can be added only from the individual application. Not all applications have this feature.

1. Open the application and scroll to the item that you want to add as a shortcut to **Go to**.
2. Select **Options** → **Add to 'Go to'**.

Note: A shortcut in **Go to** is automatically updated if you move the item it is pointing to, for example, from one folder to another.

Using shortcuts

- To open a shortcut, select the icon. The item is opened in the corresponding application.
- To delete a shortcut, scroll to the shortcut you want to remove and select **Options** → **Delete shortcut**. Removing a shortcut does not affect the file it is referring to. You cannot delete the default shortcuts.

- To change the shortcut name, select **Options** → **Edit shortcut name**. Enter the new name. This change affects only the shortcut, not the file or item the shortcut refers to.
- To change the shortcut icon, select **Options** → **Shortcut icon**. Select an icon on the list. You cannot change the default shortcuts' icons.
- To change the order of shortcut items, scroll to an item to move and select **Options** → **Move**. Select the position by pressing the Navigation keys and press the **OK** soft key.
- To change to the list view, select **Options** → **List view**. To return to the normal view, select **Options** → **Grid view**.

chapter 10

Settings

You can change various settings for your phone.

Changing the settings

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

1. Select a setting group you want to open.
2. Scroll to a setting you want to change and select to
   - switch between options if there are only two (**On**/**Off**).
   - open a list of options or an editor.
   - open a slider view. Then press the Right or Left key to increase or decrease the value.

Phone settings

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

General

- **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 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 (2 to 9).
  - the predictive text dictionary used, and
  - the special characters that are available when you press * and 1. 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.
- **Dictionary**: You can activate or deactivate Predictive text input mode for all of the text editors in the phone.

Note: **Dictionary** is not available for all languages.

- **Welcome note or 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 from **Images** in **Gallery** or on the memory card, if you use one.
- **Orig. phone settings**: You can reset some of the settings to their original values. To do this, you need the lock code. See page 147. After resetting the settings, you must restart the phone.

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, message and scheduler information displays.
- **Left selection key** and **Right selection key**: You can change the shortcuts that appear over the left and right soft keys in Standby mode.

Note: You cannot create a shortcut to an application that you have installed.

- **Navigation key right**, **Navigation key left**, **Navigation key down**, **Navigation key up**, and **Selection key**: You can change the shortcuts assigned to the Navigation keys and (OK). In Standby mode, you can access specific menus directly by pressing each key.
- **Active standby apps.**: You can select applications that can be opened from the active standby screen.

Display

- **Brightness**: Use to change the brightness of the main display and external display.
- **Dim Time**: After the backlight turns off, your phone enters Dimming mode and then the display is turns off. Select the maximum length of time the Dimming mode remains on.
- **Backlight On Time**: A backlight illuminates the main display, external display, and the keypad. When you press any key or open the phone, the backlight turns on and remains on for the backlight time-out period. Select the maximum length of time the backlight remains on.

Sub LCD settings

From the Settings main view, select **Sub LCD** to configure the settings for the external display.

- **Analog Clock**: You can activate or deactivate the analogue clock to be displayed on the external display.
- **Cover Title**: You can enter the text displayed on the external display, if the anologue clock is deactivated.
- **Wallpaper**: You can select an image to be used as a background image on the external display, if the anologue clock is deactivated.

Call settings

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

- **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 by sent for rejecting incoming calls.
- **Image in video call**: You can set the phone to send specified still image during a video call, instead of the camera 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.
- **Summary after call**: Activate this setting if you want the phone to briefly display the duration of each call.
- **Speed dialling**: When this setting is activated, the numbers assigned to the speed dialling keys, 2 to 9, can be dialled by pressing and holding the corresponding key. See also “Assigning speed dialling keys” on page 49.

- **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.
- **Active folder**: When this setting is activated, you can answer an incoming call by opening the phone.
- **Side volume key**: Depending on this setting, the phone mutes the call ringer or rejects an incoming call when you press and hold /.
- **Dialling effect**: Select an effect when you press number keys for entering numbers to be dialled.
- **Line in use** (network service): This setting is shown only if the 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**.

Connection settings

From the Settings main view, select **Connection** to change the connection settings.

General information

Access points

An access point is the point where your phone connects to the Internet by way of a data call or packet data connection. An access point can be provided, for example, by a commercial Internet service provider for mobile devices, or by a service provider.

There are three different kinds of access points that you can define: MMS access point, browser access point, and Internet access point (IAP). Check with your service provider for what kind of an access point is needed for the service you wish to access. You need to set access point settings to:

- send and receive multimedia messages, or have a chat
- send and receive e-mail,
- browse web pages,
- download Java™ applications,
- use your phone as a modem.

Packet data (general packet radio service, GPRS)

Packet data, or General Packet Radio Service (GPRS), uses packet data technology where information is sent in short bursts of data over the mobile network. The benefit of sending data in packets is that the network is occupied only when sending or receiving data. Because GPRS uses the network efficiently, it allows for quick data connection set up and fast data transmission speeds.

Pricing for packet data and applications

Both the active GPRS connection and the applications used over GPRS require fees, for example, using services, sending and receiving data, and text messages. For more detailed information on fees, contact your service provider.

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 84.

Select an access point from to the list to edit it, or select **Options** → **New access point** and select:

- **Use default settings** to use the default settings. Make the needed changes and press the **Back** soft key to save the settings.
- **Use existing settings** to use existing setting information as the basis for the new access point settings. Select one of the existing access points. Access point settings are opened with some fields already filled.

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.
- **Bearer type**: The network bearer is preset to **Packet data**.
- **Access point name**: The access point name is needed to establish a connection to the GPRS 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.
- **Authenfication**: Choose **Normal** or **Secure**.
- **Homepage**: Depending on what you are setting up, enter either the service address 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** (for IPv4 only): Enter the IP address of your phone.
- **Name servers**: Enter the primary and secondary Domain Name Server (DNS) addresses.

Note: DNS (Domain Name server) is an Internet service that translates domain names, such as www.samsung.com, into IP addresses, like 211.45.27.231.

- **Proxy serv. 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 conn.**: If you select **When available** and you are in a network that supports packet data, the phone registers to the GPRS network and sending text messages is done via GPRS. Also, starting an active packet data connection, for example, to send and receive e-mail, 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 computer. For more information on modem connections, see the User's Guide for the Internet Access programme included on the supplied Software CD-ROM.

Configurations

You may receive configuration 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, chat, multimedia messages, 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**.

Date and time settings

The date and time settings allow you to define the date and time used on your phone, as well as change the date and time format and separators. From the Settings main view, select **Date & time**.

In addition, the following options are available:

- **Clock type**: Change the clock shown in Standby mode.
- **Auto time update**: Choose if you want the mobile phone network to update time, date, and time zone information to your phone (network service).

Note: For the **Auto time update** setting to take effect, the phone needs to be restarted.

- **Day light-saving**: Apply or cancel daylight savings time.

Security settings

The Security settings allow you to protect your phone and SIM card from unauthorised use. From the Settings main view, select **Security**.

Phone and SIM Security

Following options are available:

- **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 SIM card against unauthorised use. The PIN code is usually supplied with the 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 SIM cards, is required to access some functions, such as call cost counters.
- **Autolock period**: You can set an autolock period, a time-out after which the phone is automatically locked and can be used only if the correct lock code is entered.

Note: When the phone is locked, you may be able to call the emergency number programmed into 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 5-digit lock code used to lock the phone and keypad to avoid unauthorised use.

Note: The factory setting for the lock code is **12345**. To avoid unauthorised use of your phone, change the lock code.

- **Lcok if SIM changed**: When this setting is activated, the phone asks for the lock code when an unknown, new SIM card is inserted into your phone.
- **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): This allows you to set the phone to display confirmation messages when you are using a SIM card service.

Certificate management

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.

Digital certificates are used to verify the origin of browser pages and installed software. However, they can only be trusted if the origin of the certificate is known to be authentic.

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.

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.

Viewing 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.

You will be notified on the phone's display:

- if the identity of the browser server or gateway is not authentic or
- if you do not have the correct security certificate in your phone.

To check certificate details, scroll to a certificate and press (OK) or select **Options** → **View details**.

Changing 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.

- **Native installing**: The certificate is able to certify installation of native applications running on Symbian OS, which have an SIS extension.
- **Mail and Image comm.**: The certificate is able to certify mail servers and image download servers.
- **Java installation**: The certificate is able to certify installation of any other add-on applications.
- **OCSP validation**: ??

Important: Before changing these settings, you must make sure that you really trust the owner of the certificate and that the certificate really belongs to the listed owner.

Call diverting settings

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. From the Settings main view, select **Call divert**.
2. Select the call type to be diverted.
3. Scroll to one of the following diverting options.
   - **All voice** (**data** and **video**, **fax**) **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.

4. Select **Options** → **Activate** to request the network to activate call diverting. Or, select **Cancel** to deactivate the selected diverting option.

   To check whether or not diverting is activated, select **Check status**.

5. If you selected **Activate**, enter your voicemail server number or the phone number you want and press the **OK** soft key.

6. If you selected **If not answered**, select a time delay before the network diverts a call.

Call barring settings

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

1. From the Settings main view, select **Barrings**.

2. 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 con...**: 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.

3. Select **Options** → **Activate** to request the network to activate call barring, or **Cancel** to deactivate the selected barring option.

   Select **Check status** to check if calls are barred or not.

   Select **Change barring's pa...** to change the barring password.

4. 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 settings

From the Settings main view, select **Network**.

- **Network mode**: Select the network mode in which your phone operates.
  - **Dual mode**: the phone operates in the combined GSM 900/1800 band.
  - **UMTS**: the phone operates in UMTS (3G) networks. You can get a 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 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 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.

Enhancement settings

You can change the headset or hands-free settings.

From the Settings main view, select **Enhancement** → **Headset** or **Bluetooth handsfree**.

Then select:

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

chapter 11

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 **Tools** → **File mgr.**.

Open **File manager** to see a list of the folders in the phone memory. 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 29.

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.

In the memory views, you can view the memory consumption of the different data groups.

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 computer by using PC Suite.

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 **Tools** → **Manager**.

When you open **Application manger**, you will see a list of:

- installation packages that have been saved to the phone's memory (indicated by OK),
- 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 e-mails, or received via Bluetooth from another compatible device, for example, a phone or a computer. If you are using PC Suite to transfer an application, place it in the **Installed files** folder in **File manager**.

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 application. 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.

Note: To send your installation log to a help desk so that they can see what has been installed or removed, select **Options** → **Send log** → a sending method.

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 certif. check**: Select whether or not the phone must check online certificates for installing applications.
- **Default web address**: Enter the URL address of the default webpage 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 operator dependent and may not be available on all phones. Contact your service provider for information and availability.

Press to open the Menu, and then select **Tools** → **Dev. mgr.**.

Creating a new profile

A device manager profile must be defined before you are connected to a server. The third party who is assisting you can help define the profile settings

When you open **Device manager**, you are asked if you want to create a new server profile. Press the **Yes** soft key. You can set up the following options:

- **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**: Device management allowed on this server, select **Yes** or **No**.
- **Auto-accept all reqs.**: Automatic or approved device management on this server. Select **Yes** to allow synchronisation without your verification, or select **No** to verify each synchronisation attempt.

To add a new profile, from the Device manager main screen, select **Options** → **New server profile**.

Starting a configuration

To start a configuration session, select **Options** → **Start configuration**. To disable or enable configurations from the server, select **Options** → **Disable config./Enable config.**.

Activation keys

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

Activation keys allows you to manage the right keys you have bought. Press to open the Menu, and the select **Tool** → **Activ. keys**.

Accessing right keys

1. Press the Left or Right key to scroll to the folder you want.
2. Select the activation key you want. The details of the right appears.

Memory card

If you have a memory card, you can use it to store your multimedia files, such as photos, video clips and sound files, and to back up information from your phone's memory. For details about inserting the memory card, see page 22.

You can manage your memory card from the **Memory card** application.

Press to open the Menu, and then select **Tools** → **Memory**.

Important:
- Keep all memory cards out of the reach of small children.
- As your phone's system supports only FAT12 and FAT16 formats, you must format the card as FAT12 or FAT16 to use the memory card with the phone.

Removing the memory card

To remove the memory card from the phone safely, select **Options** → **Remove mem. card**. Then press the **OK** soft key and remove the memory card. For further details, see page 23.

Backing up and restoring information

- To back up information from your phone's memory to the memory card, select **Options** → **Backup phone mem**. 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.

Formatting the memory card

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

Select **Options** → **Format mem. card**. When a confirmation message appears, press the **Yes** soft key. Once you confirm, formatting starts.

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, yo 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.

Unlocking the memory card

When you insert another password-protected memory card in your phone, you are prompted to enter the password of the card.

To unlock the card, select **Options** → **Unlock memory Card**. You are asked to enter the password.

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**.

chapter 12

Connectivity

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

Bluetooth

Bluetooth is a short-range wireless communications technology. Devices with Bluetooth capabilities can exchange data over a distance of about 10 meters (30 feet) without requiring a physical 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 **Connect.** → **Bluetooth**. Each time you access this feature, you are asked to give a name to your phone, if you don't change the default name.

You can access various Bluetooth functions. The following options are available:

- **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 bluetooth 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 devices screen.

2. Select **Options** → **New paired device** to search for a new device.

   To search for new devices, select **More devices**.

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

   - : for a mobile phone
   - : for a computer
   - : for a headset, hands-free and car kit

3. Select a device with which to connect.

4. Enter a Bluetooth PIN and press the **OK** soft key. This code is used just once and you don't need to memorise it.

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

   Note: Pairing means authentication. The users of Bluetooth-enabled devices must agree on the Bluetooth PIN, and use the same code for both devices in order to pair them. Some devices, especially headsets or hands-free and car 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, or the **No** soft key.

Using device options

When you press the **Options** soft key on the Paired devices screen, you can access the following options from the device list:

- **New paired device**: searches for other devices to pair with.
- **Connect**: connects the headset or hands-free and 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 pairings**: deletes all paired devices.

Receiving data via Bluetooth

Make sure that your phone's Bluetooth feature is active. 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**, **Camera**, or **File manager**.
3. Scroll to the item.
4. Select **Options** → **Send** → **Via Bluetooth**.

   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 164.

5. Select the device from the list.

6. If necessary, enter your PIN and press the **OK** soft key.

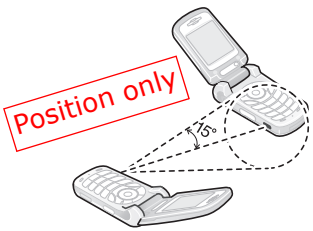
Infrared

Using **Infrared**, you can send or receive data, such as business cards and calendar notes, to and from a compatible phone or data device.

Sending and receiving data via infrared port

1. To use the infrared connection, press to open the Menu, and then select **Connect.** → **Infrared**. The infrared port on the phone is activated blinks.

2. Align the infrated port on the phone and the one on the other device. The phone begins searching for another compliant device.



3. To send data, access the application you want, open the item to be sent, and select **Options** → **Send** → **Via Infrated**.

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

All items which are received via infrared are placed in the **Inbox** folder in **Messaging**. New infrared messages are indicated by in Inbox.

PC Suite

For further information on how to make a connection to a compatible computer via the Bluetooth device or using a PC data link cable, and how to install the PC Suite for the Samsung SGH-Z600, see the PC Suite Install Remove Manual on the CD-ROM. You can find it in the "Software for PC" section. For further information on how to use the PC Suite for the Samsung SGH-Z600, see the PC Suite help.

Installing PC Suite

1. Insert the PC Link CD into the CD-ROM drive of your compatible computer.

   The CD-ROM should launch itself. If it does not, proceed as follows:

   a. From the **Start** menu of the Windows, select **Programs** → **Windows Explorer**.

   b. On the CD-ROM drive, locate a file named **Setup** and double-click it. The CD-ROM interface opens.

3. Double-click **PC Suite for Samsung SGH-Z600** in the "Software for PC" section.

4. Follow the instructions on the installation wizard screen.

   The wizard will guide you through the installation process.

Remote synchronisation

The **Sync** application enables you to synchronise your calendar, notes, or contacts with various calendar and address book applications with other devices via Bluetooth, or on the Internet.

Press to open the Menu, and then select **Connect.** → **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.
   - **Data bearer**: Select **Web** to synchronise with a server on the Internet. Select **Bluetooth** to synchronise with a Bluetooth device.
   - **Access point** (for Internet only): Select the access point you want to use for the data connection.
   - **Host address**: Enter the URL address of the server on the Internet. Contact your service provider or system administrator for the correct values.
   - **Port** (for Internet only): 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 reqs.**: You can set whether or not your phone ask for your confirmation before accepting synchronisation from this server.
- **Network authentic.** (for Internet only): Enable or Disable authentication for accessing HTTP servers.

4. Press the Right key and define which applications will be synchronised, **Contacts**, **Calendar**, and/or **Notes**.

5. Enter a correct database path of the selected application on the server and select a synchronisation type.

6. Repeat steps 4 and 5 for other applications, if necessary.

7. Press the **Back** soft key twice to save the settings.

Synchronising data

In the Sync main view, you can see the different profiles, and what kind of data will be synchronised: **Calendar**, **Contacts**, **Notes**, or all.

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 **Connect.** → **Conn. ma...**.

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 GPRS.
- **Status**: the current status of the connection.
- **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 that the connection has been open.
- **Speed**: the current speed of both sending and receiving data in kB/s (kilobytes per second).
- **Name**: 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.

chapter 13

Appendix A: Troubleshooting

General problems

Problem	Description & Solution
"Insert SIM card" displays	Check that the 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 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 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** → **Security** → **Phone and SIM** and set **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 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** → **Security** → **Phone and SIM** 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.
I forgot the security, PIN, or PUK codes	The default lock code is **12345**. 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.
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.

Problem	Description & Solution
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	Your battery is insufficiently charged. 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.
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.

Problem	Description & Solution
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 the 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 differ 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 Internet, or the camera, because the phone needs more power at those times. This does not affect the phone's life and 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.
The phone turns off when the travel adapter is connected	Some 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 Suite 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.
The phone is unable to connect to the Internet	Insert proper browser settings. Contact your service provider for instructions.

Problem	Description & Solution
The phone is unable to connect to the Internet	• 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.
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.
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 metres 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 log appears empty	You may have activated a filter, and no communication events fitting that filter have been logged. To see all events, 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 e-mail address, you cannot select it. Add the missing information to the contact card in **Contacts**.

Problem	Description & Solution
PC connectivity	
I cannot select a contact card when creating a message	Make sure that PC Suite is installed and running on your PC. See the User's Guide for PC Suite on the CD-ROM. For further information on how to use PC Suite, see the PC Suite help or visit www.samsungmobile.com.

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

Exposure to Radio Frequency (RF) Signals

Certification Information (SAR)

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the exposure limits for radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. government. These FCC exposure limits are derived from the recommendations of two expert organizations, the National Counsel on Radiation Protection and Measurement (NCRP) and the Institute of Electrical and Electronics Engineers (IEEE). In both cases, the recommendations were developed by scientific and engineering experts drawn from industry, government, and academia after extensive reviews of the scientific literature related to the biological effects of RF energy.

The exposure limit set by the FCC for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR is a measure of the rate of absorption of RF energy by the human body expressed in units of watts per kilogram (W/kg). The FCC requires wireless phones to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg). The FCC exposure limit incorporates a substantial margin of safety to give additional protection to the public and to account for any variations in measurements.

SAR tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit estabilished by the FCC. Tests are performed in positions and locations(e.g. atthe ear and worn on the body) as required by the FCC.

The highest SAR values for this model phone as reported to the FCC are Head: 1.12 W/Kg, Body-worn: 0.447 W/Kg. For body worn operation, this model phone has been tested and meets the FCC RF exposure guidelines whenused with a Samsung accessory designated for this product or when used with an accessory that contains no metal and that positions the handset a minimum of 1.5 cm from the body.

Non-compliance with the above restrictions may result in violation of FCC RF esposure guidelines.

SAR information on this and other model phones can be viewed on-line at www.fcc.gov/oet/fccid. This site uses the phone FCC ID number, A3LSGHZ600. Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular phone. Additional product specific SAR information can also be obtained at www.fcc.gov/cgb/sar.

Consumer Information on Wireless Phones

The U.S. Food and Drug Administration (FDA) has published a series of Questions and Answers for consumers relating to radio frequency (RF) exposure from wireless phones. The FDA publication includes the following information:

What kinds of phones are the subject of this update?

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

Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF

that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

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

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

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

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

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

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

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

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

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

What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radio frequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that

had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

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

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

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

factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

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

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

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

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

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

If there is a risk from these products - and at this point we do not know that there is - it is probably very small. But if you are concerned about avoiding even potential risks, you

can take a few simple steps to minimize your exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

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

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

What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

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

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

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

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

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

What about wireless phone interference with medical equipment?

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

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations:

- FCC RF Safety Program: http://www.fcc.gov/oet/rfsafety/
- Environmental Protection Agency (EPA): http://www.epa.gov/radiation/

- Occupational Safety and Health Administration's (OSHA): http://www.osha.gov/SLTC/radiofrequencyradiation/index.html
- National institute for Occupational Safety and Health (NIOSH): http://www.cdc.gov/niosh/emfpg.html
- World health Organization (WHO): http://www.who.int/peh-emf/
- International Commission on Non-Ionizing Radiation Protection: http://www.icnirp.de
- National Radiation Protection Board (UK): http://www.nrpb.org.uk
- Updated 4/3/2002: US food and Drug Administration http://www.fda.gov/cellphones

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, practice good common sense and remember the following tips:

1. Get to know your wireless phone and its features, such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.

2. When available, use a hands-free device. If possible, add an additional layer of convenience and safety to your wireless phone with one of the many hands free accessories available today.

3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.

4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.

5. Do not take notes or look up phone numbers while driving. Jotting down a "to do" list or flipping through your address book takes attention away from your primary responsibility, driving safely.

6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.

7. Do not engage in stressful or emotional conversations that may be distracting. Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.

8. Use your wireless phone to call for help. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies. Remember, it is a free call on your wireless phone!

9. Use your wireless phone to help others in emergencies. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.

10. Call roadside assistance or a special non-emergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency number.

"The wireless industry reminds you to use your phone safely when driving."

For more information, please call 1-888-901-SAFE, or visit our web-site www.wow-com.com

Provided by the Cellular Telecommunications & Internet Association

Operating Environment

Remember to follow any special regulations in force in any area and always switch your phone off 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).

Using Your Phone Near Other 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 minimize potential interference.

If you have any reason to suspect that interference is taking place, switch your phone off 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 your phone off 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 your phone off in any facility where posted notices require you to do so.

Potentially Explosive Environments

Switch your phone off 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 the phone off while at a refueling 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 below deck 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.

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:

1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location (for example, 911 or 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.

Restricting Children's access to your Phone

Your phone is not a toy. Children should not be allowed to play with it because they could hurt themselves and others, damage the phone or make calls that increase your phone bill.

FCC Notice and Cautions

FCC Notice

Note: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The phone may cause TV or radio interference if used in close proximity to receiving equipment. The FCC can require you to stop using the phone if such interference cannot be eliminated.

Vehicles using liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association, One Battery march Park, Quincy, MA 02269, Attn: Publication Sales Division.

Caution: Changes or modifications made in the radio phone, not expressly approved by Samsung, will void the user's authority to operate the equipment.

Only use approved batteries, antennas and chargers. The use of any unauthorized accessories may be dangerous and void the phone warranty if said accessories cause damage or a defect to the phone.

Although your phone is quite sturdy, it is a complex piece of equipment and can be broken. Avoid dropping, hitting, bending or sitting on it.

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 your phone off before boarding an aircraft. The use of wireless phone in aircraft is illegal and may be dangerous to the aircraft's operation.

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

Product Performance

Getting the Most Out of Your Signal Reception

The quality of each call you make or receive depends on the signal strength in your area. Your phone informs you of the current signal strength by displaying a number of bars next to the signal strength icon. The more bars displayed, the stronger the signal.

If you're inside a building, being near a window may give you better reception.

Understanding the Power Save Feature

If your phone is unable to find a signal after 15 minutes of searching, a Power Save feature is automatically activated. If your phone is active, it periodically rechecks service availability or you can check it yourself by pressing any key.

Anytime the Power Save feature is activated, a message displays on the screen. When a signal is found, your phone returns to standby mode.

Understanding How Your Phone Operates

Your phone is basically a radio transmitter and receiver. When it's turned on, it receives and transmits radio frequency (RF) signals. When you use your phone, the system handling your call controls the power level. This power can range from 0.006 watts to 0.2 watts in digital mode.

Maintaining Your Phone's Peak Performance

For the best care of your phone, only authorized personnel should service your phone and accessories. Faulty service may void the warranty.

There are several simple guidelines to operating your phone properly and maintaining safe, satisfactory service.

- Hold the phone with the antenna raised, fully-extended and over your shoulder.
- Try not to hold, bend or twist the phone's antenna.
- Don't use the phone if the antenna is damaged.
- Speak directly into the phone's receiver.
- Avoid exposing your phone and accessories to rain or liquid spills. If your phone does get wet, immediately turn the power off and remove the battery. If it is inoperable, call Customer Care for service.

Availability of Various Features/Ring Tones

Many services and features are network dependent and may require additional subscription and/or usage charges. Not all features are available for purchase or use in all areas. Downloadable Ring Tones may be available at an additional cost. Other conditions and restrictions may apply. See your service provider for additional information.

Battery Standby and Talk Time

Standby and talk times will vary depending on phone usage patterns and conditions. Battery power consumption depends on factors such as network configuration, signal strength, operating temperature, features selected, frequency of calls, and voice, data, and other application usage patterns.

Battery Precautions

- Never use any charger 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 and the type of battery and charger 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) is 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 charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger 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. In some areas, the disposal of batteries in household or business trash may be prohibited. For safe disposal options for Li-Ion batteries, contact your nearest Samsung authorized service center. Always recycle. Do not dispose of batteries in a fire.

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 the phone and all its parts and accessories out of the reach of small children.
- Keep the phone dry. Precipitation, humidity and liquids contain minerals that will 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 slightly dampened in a mild soap-and-water solution.
- 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 color. 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 a 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. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger 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.