Smartphone
SGH-i300
User’s Guide

Please read this manual before operating your phone, and keep it for future reference.

World Wide Web
http://www.samsungmobile.com

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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.

For more detailed safety information, see "Important safety information" on page 241.

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 the different components of your phone.

What's in the box?

Your package contains the following items:

Phone

PC data link cable

Battery

Travel charger

CD-ROMs*

Quick reference guide

* One contains Microsoft ActiveSync software, Add-on software and applications, and the other contains User's Guide in PDF format.

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

- Car charger/adapter
- Standard/extended battery
- Travel adapter
- PC data link cable
- Bluetooth mono & stereo headset kit
- Desktop holder
- Bluetooth handsfree car kit
- Straight headset
- Bluetooth USB dongle kit

Note: The items supplied with your phone and available accessories may be different depending on your country or service provider.

Getting to know your phone

Front view

Rear view

Phone key
Lock key
Speaker
Camera key
Memory card slot
Camera lens
Camera flash
Battery lock
Battery
Charging/
Communication port
SAMSUNG
samsungmobile.com

Keys of your phone

Key	Description
	• Press to open the Quick List screen. • Press and hold to turn the phone mode on or off.
	Press and hold to turn the backlight off and lock the keys.
	• Press to open the **Camera** application. • Press to take a photo in Camera.
	Press to perform the command shown on the screen immediately above the key.
	• Press to switch to the Home screen in an application. • Press and hold to open the Launcher.
	• Press to return to the previous screen. • Press to delete characters in a text input field.
	Navigation (Left/Right/Up/Down) key or disc. Press or spin to scroll through a list.
	• Press to confirm your selection. • Press to move the cursor to the next line in a text input field.
	• Press to open the Dialer screen. • Press to make or answer a call in Phone mode.

Key	Description
	• Press and hold to turn the phone on or off. • Press to end a call in Phone mode.
	Press to enter numbers and characters.
	• Press to change the letter-case in a text input field. • Press and hold to change the text input mode.
	• Press to enter a space in a text input field. • Press and hold to activate or deactivate the Silent profile.
	• Press to open the **Voice Notes** application. • Press to record a memo in the **Voice Notes** application. • Press and hold to open the **Voice Assist** application.
	Press to open the **SAMSUNG Media Player** application.
	• Press to adjust the voice volume during a call or the earpiece volume in Idle mode. • Press to adjust the speake volume in a media player. • Press to flip the image in Camera.

Installing the SIM card

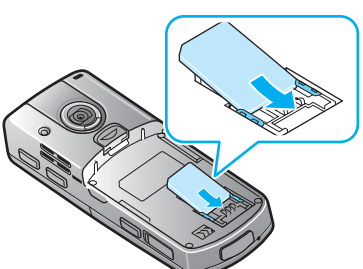
When you subscribe to a cellular network, you are provided with a plug-in SIM card loaded with your subscription details, such as your PIN, any optional services available, and many others details.

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

Inserting the SIM card

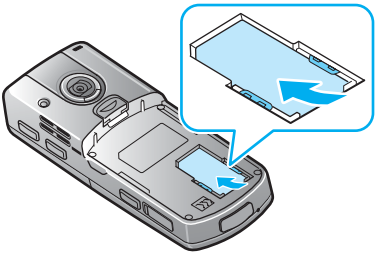
1. If necessary, remove the battery by referring to page 15.

2. Insert and slide the SIM card under the two tabs, as shown, ensuring that the gold coloured contacts of the card face down into the phone.



Removing the SIM card

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



Installing the battery

Installing the battery

1. Insert the teeth on the bottom of the battery into the corresponding slots on the phone.

2. Press the battery against the back of the phone.

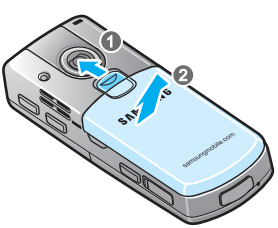
Make sure that the battery is securely locked before switching on the phone.

Removing the battery

1. If necessary, switch off the phone by pressing and holding until the power-off image displays. Or, you can also press and scroll to **Power off** and then press the **Select** soft key.

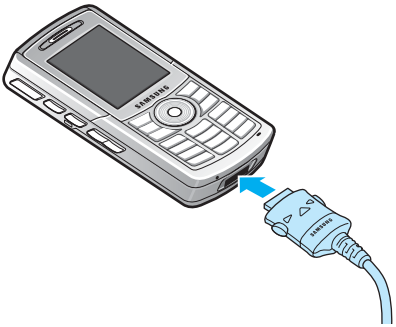
2. To remove the battery, pull and hold the battery lock, with the back of the phone facing you.

3. Lift the battery away from the phone, as shown.



Charging your phone

1. Plug the connector of the travel charger into the bottom of the phone. Check that the arrow on the connector is facing up.

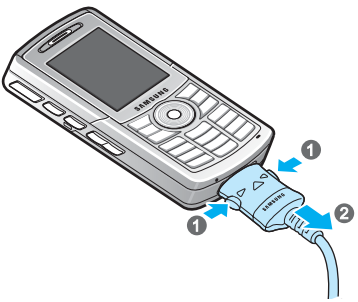


2. Plug the charger into a standard AC wall outlet.

   You can see the LED on the charger indicating the charging progress by the following colours:

   - Red: the phone is being charged.
   - Green: the phone is fully charged.
   - Orange: the travel charger is not plugged in correctly. Check the phone and the charger.

3. When charging is finished, first unplug the charger from the power outlet. Then remove the charger from the phone by pressing the buttons on both sides of the connector and pulling the connector out.



Low battery warning

Your phone displays the Battery Very Low icon ( ) and a warning message when the battery gets very low. If this happens, charge the battery.

Turning your phone on or off

Press and hold to turn on your phone. The phone is logged into your home network and receives the signal from the network. You can now make and answer a call and use applications on the phone.

To turn off the phone, press and hold .

chapter 2

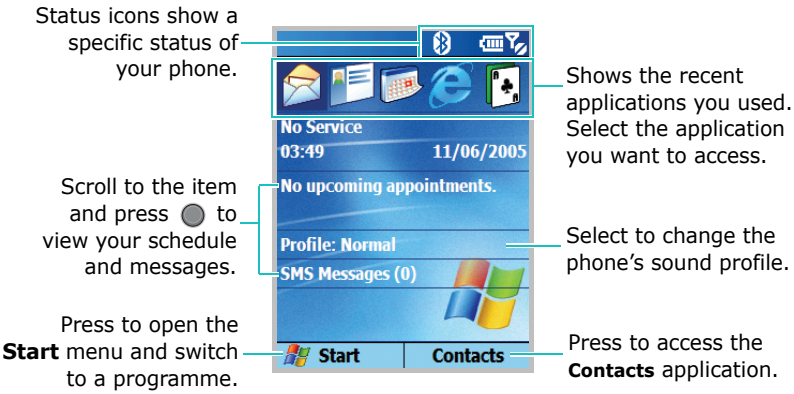
The basics

This chapter explains basic information about using your phone, such as customising your phone and using online help.

Using the Home screen

You will see the Home screen when you turn on your phone. You can also display it by pressing in an application or the **Home** soft key from the **Start** menu.

On the Home screen, you can view important information for the day or messages at a glance. You can also quickly switch to the application you recently access.



Navigation bar

On the top line of the screen, the navigation bar displays icons to show your phone's current status. Followings are some of the status icons you may see:

Status icon	Description
	Shows the level of your battery power. The more bars you see, the more power you have remaining. You can also view the following battery status: • : Battery is very low. • : Battery is charging.
T9	Appears to tell you the current text input mode. • T9: T9 mode • Abc: Multipress mode • 123: Number mode
	Appears when **Ring tone** has been set to **Vibrate** in **Sounds** or **Ring type** has been set to a vibrate option in the current active profile. See page 35 or page 36. Also, appears when the Silent profile is selected. See page 36.
	Appears when **Ring tone** has been set to **None** on **Sounds** or **Ring type** has been set to **Silent** in the current active profile. See page 35 or page 36.
	Appears when you're roaming outside of your home area and logged onto a different network.

Status icon	Description
	Shows the strength of the signal. You can also view the following service status: • : You are outside a service area. • : The phone functions turn off.
	Appears when a GPRS connection is available in the network. When connection with a GPRS network is active, appears.
	Indicates that an instant message has been received.
	Appears when an e-mail or SMS message has been received.
1	Indicates that you can make calls using phone line 1 only (network service). See page xx.
2	Indicates that you can make calls using phone line 2 only (network service). See page xx.
	Appears when a new voicemail has been received. • : A new voicemail from line 1. • : A new voicemail from line 2. • : A new voicemail from both lines.
	Appears when a call is in progress.
	Appears when there is a call you have missed.

Status icon	Description
	Appears when you set incoming calls to be diverted to another destination.
	Appears when the current call is on hold.
	Appears when a data call is in progress.
	Appears when the Bluetooth feature is activate. See page 209.

Changing information from the Home screen

From the Home screen, you can change information, including:

- upcoming appointments
- profile options
- unread text messages

To change information on each item:

1. On the Home screen, scroll to the item you want to change by pressing or spinning the Navigation key and press .

2. Enter or change the information.

   For more information on changing these items, see the appropriate instructions for each task in this guide.

3. Press or to return to the Home screen.

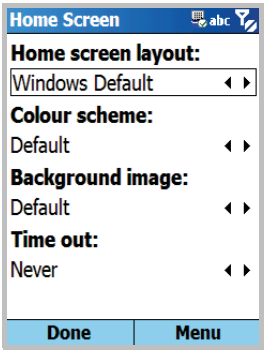
Customising the Home screen

You can customise the Home screen according to your preferences.

To customise the Home screen:

1. On the Home screen, press the **Start** soft key.

2. Select **Settings** → **Home Screen**.



3. Scroll to the options you want and press ● to select the settings.

   The following options are available:

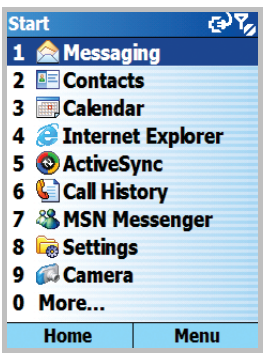
   - **Home screen layout**: Select the layout to be used for the Home screen.
   - **Colour scheme**: Select the colour scheme to be used for the Home screen.
   - **Background image**: Select an image to use as a background image on the Home screen.

- **Time out**: Specify the length of time the phone waits before returning the display to the Home screen if the phone is not used.

4. When you have finished, press the **Done** soft key.

Start menu screen

On the Start menu screen, you can access all of the applications for your phone. From the Home screen, press the **Start** soft key to open the Start menu screen.



Opening applications or folders

Scroll to an application or a folder by pressing or spinning the Navigation key and press ● to open it. You can also press the number key assigned to the application you want.

Switching between applications

You can open several applications and switch from one application to another. On the Home screen, you can view a list of applications that are currently open. Scroll to an application by pressing or spinning the Navigation key and press ●.

Closing applications

Using **Task Manager**, you can end the applications which is currently open. On the Home screen, press the **Start** soft key and select **More** → **More** → **Tools** → **Task Manager**. Scroll to an application, press the **Menu** soft key and select **Stop**. If you want to close all of the open applications, select **Stop All**.

Entering text

The number keys of your phone are labelled with the alphabet so that you can enter text easily.

Your phone has the following input modes:

- T9 mode
- Multipress mode
- Symbol mode
- 123 mode

To change the text input mode:

1. On the text input field, press and hold *.

2. Select a mode from the pop-up menu list.

   The text input mode indicator appears on the top line of the display.

Mode	Indicator	See
T9 mode	t9	below
Multipress mode	abc	page 27
123 mode	123	page 28
Symbol mode	no indicator	page 28

Note: You can change the language for T9 mode by selecting **T9 Languages**.

T9 mode

T9 is a predictive text input mode that allows you to enter any character with one key press. This text input mode is based on a built-in dictionary.

To enter a word in T9 mode:

1. Press the keys 2 abc to 9 wxyz. Press each key only once for each letter.

   Example: To enter **Hello**, press 4 ghi, 3 def, 5 jkl, 5 jkl, and 6 mno.

   The word that you are typing appears on the display. It may change with each key that you press.

2. Enter the whole word before editing or deleting characters.

3. If the word displays correctly, go to step 4.

   If the word doesn't display correctly, scroll to the word on the pop-up list, which displays alternative word choices for the keys that you have pressed.

   Example: Both **Of** and **Me** use 6 and 3. The phone displays the most commonly used choice first.

4. Press # to insert a space and start entering the next word.

To change the letter-case:

Press *. Three cases are available:

- Capital Lock T9
- Initial Lock T9
- Small Lock t9

To delete letters:

Press ⊃. Press and hold ⊃ to clear the entire display.

To include a number:

Press and hold the corresponding number key.

Adding words

Sometimes T9 may not recognise the word you're trying to enter. If you can't find the entered word from the pop-up list, you can add the word to T9 dictionary so that it will recognise the word the next time you enter it.

To add a word into the T9 dictionary:

1. Enter a word.

2. Select **Add Word?** from the pop-up menu list.

3. Enter the word you want to add using Multipress mode.

4. Press the **Done** soft key.

Multipress mode

Multipress mode allows you to enter letters by pressing the key labelled with the letter you want repeatedly until it displays.

To enter a word in Multipress mode:

1. Press the key labelled with the letter you want:

   - Once for the first letter

   - Twice for the second letter

   - And so on

2. Enter other letters in the same way.

   The cursor moves to the right when you press a different key. When entering the same letter twice or a different letter on the same key, just wait for seconds or press the Right key, and then press the next letter.

3. Press # to insert a space between words.

To change the letter-case:

Press *. Three cases are available:

- Capital Lock ABC
- Initial Lock Abc
- Small Lock abc

To delete letters:

Press . Press and hold to clear the entire display.

To quickly include a number:

Press and hold the corresponding number key.

Symbol mode

This mode allows you to enter various symbols and function marks.

To enter a symbol:

From the symbol list, scroll to the symbol you want and press the **Done** soft key.

123 mode

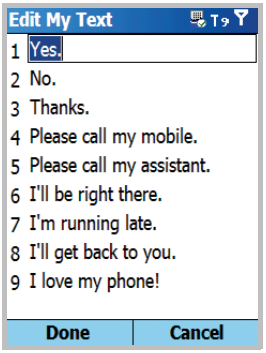
This mode allows you to enter numbers. Press the corresponding number key.

Using My Text

In the Messaging or MSN Messenger application, use **My Text** to quickly insert preset or frequently used sentences into the text entry area.

To insert a **My Text** item while composing a message, press the **Menu** soft key and select **Insert Text** and then select a sentence.

To edit a **My Text** item, press the **Menu** soft key and select **Options**, or press the **Options** soft key and select **Edit My Text**. Select the sentence you wish to edit and make desired changes.



Customising your phone

You can customise the phone settings to suit the way you work.

Regional settings

Using **Regional Settings**, you can change number, currency, and time and date formats appropriate to the countries in question.

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **More** → **Regional Settings**.
3. Select the option you want in each field.

4. When you have finished, press the **Done** soft key.

   If you changed the **Language** or **Locale** option, you need to turn the phone off and then back on to make your changes take effect. Press the **OK** soft key to confirm.

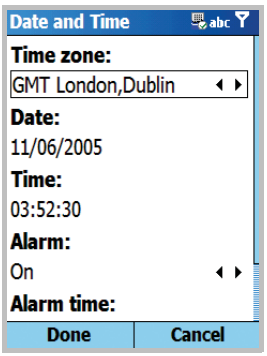
Time and date settings

The Date and Time setting enables you set the date, time, and time zone.

1. On the Home screen, press the **Start** soft key.

2. Select **Settings** → **More** → **Date and Time**.

3. Set your time zone and the current date and time.



4. When you have finished, press the **Done** soft key.

Note: You can change the time and date format to be displayed in **Regional Settings**.

Alarm settings

You can set an alarm to ring at a specified time.

To set an alarm:

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **More** → **Date and Time**.
3. Scroll to the **Alarm** field and select whether or not the alarm rings.
4. Scroll to the **Alarm time** field, and set the time for the alarm to ring.
5. When you have finished, press the **Done** soft key.

To stop an alarm:

When the time for an alarm comes, use either of two soft keys to stop the alarm:

- Press the **Dismiss** soft key.
- Press the **Menu** soft key and select **Snooze** to stop the alarm for 5 minutes, after which it will resume.
- To dismiss all alarms on the list, press the **Menu** soft key and select **Dismiss All**.

Power settings

You can conserve battery power by adjusting the time-out settings for the battery and display and the display brightness. During standby, the phone goes to Sleep mode after a specified period of time of inactivity, so very little power is being consumed. This helps to preserve programmes and data stored in the RAM.

A lower setting increases the usable battery time. A higher setting decreases the usable battery time and allocates it for standby usage.

To adjust the power setting:

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **More** → **Power Management**.
3. Select the power settings:
   - **Main battery**: You can check the remaining amount of battery power.
   - **Backlight time out**: You can select the length of time the backlight stays on. A backlight illuminates the display and the keypad. When you press any key, the backlight turns on and remains on for the backlight time-out period.
   - **Display time out**: You can select the length of time the display remains on.
   - **Display Brightness**: You can adjust the brightness for the display.
4. When you have finished, press the **Done** soft key.

Accessibility settings

You can configure the options to increase the accessibility to your phone's functions.

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **Accessibility**.
3. Select the options you want.
   - **System font size**: allows you to set the size of the font on your screen.
   - **Multipress time out**: allows you to set the length of time between keypresses when entering text in Multipress mode.
   - **Confirmation time out**: allows you to set the delay before an unconfirmed action times out.
   - **In-call alert volume**: allows you to set the volume of the alert tone that sounds when you are on a call.
4. When you have finished, press the **Done** soft key.

Sound settings

You can customise various sound settings.

Setting sounds and notifications

Your phone reminds you in various ways when you have something to do, receive a message, or press the keys on the phone. For example, if you've set up an appointment in **Calendar**, or an alarm in **Date and Time**, you are notified in any of the following ways:

- A message box appears on the screen.
- A sound, which you can specify, is played.

- The LED indicator flashes.
- Your phone vibrates.

You can change phone sounds by choosing types or sounds for each event or by choosing a sound theme.

To choose reminder types and sounds:

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **Sounds**.
3. Select the event for which to specify a sound.

4. When you have finished, press the **Done** soft key.

Note: You can connect to the Internet and then download ringtones that are in a .WAV or .MID format.

To choose the sound theme:

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **Sounds Theme**.

3. Scroll to the theme you want and press the **Done** soft key.

The selected sound theme affects all of the sound settings in **Sounds**. If you selected **None**, all of the sound settings in **Sounds** are changed to the default setting.

Changing the sound profile

Using **Profiles**, you can adjust and customise the phone tones for different events or environments and then apply the settings as a group. You can see the currently selected profile on the Home screen.

For the **Headset**, **Car**, and **Speakerphone** profiles, you can only use them when the headset or car kit is connected to your phone or your phone is used as a speakerphone.

To change profiles:

1. On the Home screen, press the **Start** soft key and select **Settings** → **Profiles**. A list of profiles opens.

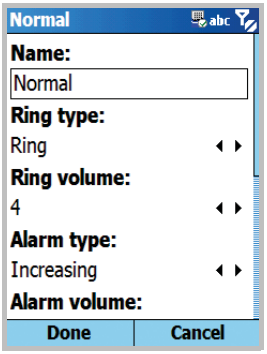
2. On the Profiles list, select the profile you want.

Note: You can quickly change the profile. Press on the right side of the phone and select the profile you want.

To customise profiles:

1. On the Profiles screen, scroll to the profile, press the **Menu** soft key, and select **Edit**.

2. Change the setting in each field. The settings may differ depending on the selected profile.



If you selected **Headset** or **Car** in step 1, you can set the time that the phone answers an incoming call automatically when you connect the headset or car kit to your phone.

3. When you have finished, press the **Done** soft key.

Note: You can change the all profile settings to their factory default. Press the **Menu** soft key from the profiles listen and select **Reset to default**.

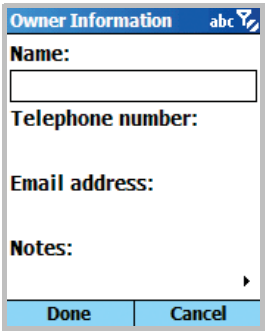
Owner information

Owner Information identifies the owner or user of the phone. Set your contact information in case you have lost the phone.

1. On the Home screen, press the **Start** soft key.

2. Select **Settings** → **More** → **Owner Information**.

3. Fill in each input field.



4. If you want to attach notes, enter notes in the **Notes** field.

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

Security settings

With options in **Security**, you can protect your phone and SIM card from unathorised use.

Locking the phone

You can protect your phone using the Phone Lock feature. Once the the feature is enabled, your phone is automatically locked after the specified length of time of inactivity.

Note: Even if the phone is locked, you may be able to receive calls.

To lock the phone:

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **More** → **Security**.
3. On the Security screen, select **Enable Phone Lock**.
4. In the **Lock phone after** field, select a length of time of inactivity the phone waits before locking itself.
5. Enter a password in the **Password** field using the number keypad.
6. Re-enter the same password in the **Confirm password** field for confirmation.
7. Press the **Done** soft key.

Note: You can also quickly lock the phone by pressing and selecting **Device lock** from the Quick List.

To unlock your phone:

1. On the Home screen, press the **Unlock** soft key.
2. Enter the password and press the **Unlock** soft key.

To disable the phone lock:

1. On the Security screen, select **Disable Phone Lock**.
2. Enter the password and press the **Done** soft key.

Activating SIM PIN

When this option is enabled, you must enter your PIN each time you turn on your phone or you insert the current SIM card into other device. Consequently, any person who does not have your PIN cannot use your phone without your approval.

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **More** → **Security**.
3. On the Security screen, select **Enable SIM PIN**.
4. Enter the PIN and press the **Done** soft key.

Changing PIN

You can change your current PIN to a new one. This option is only available the **Enable SIM PIN** option is activated.

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **More** → **Security**.
3. On the Security screen, select **Change PIN**.
4. Enter the old PIN, a new one, and then the new one again.
5. Press the **Done** soft key.

Locking the SIM card

When this option is enabled, your phone only works with the current SIM card.

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **More** → **Security**.
3. On the Security screen, select **Enable SIM Lock**.
4. Enter the PIN code of your SIM card using the number keypad.
5. Press the **Done** soft key.

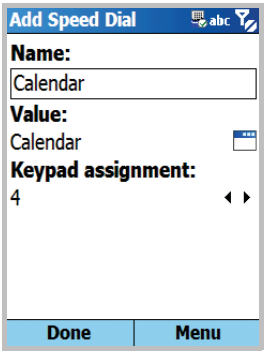
Menu shortcut settings

The number keys can be used as shortcut keys to directly access specific applications that exist in the **Start** menu.

Note: You can also assign phone numbers, e-mail addresses, or Web pages in Contacts to the number keys as speed dial entries. For details about setting the speed dial list, see page 81.

To assign a shortcut to a key:

1. On the Home screen, press the **Start** soft key.
2. Scroll to the application you want to assign to a key.
3. Press the **Menu** soft key and select **Add Speed Dial**.
4. If necessary, enter a name you want in the **Name** field.



5. Select a location in the **Keypad assignment** field and press the **Done** soft key.

   The application is assigned to the specified location.

Note: Up to 99 Speed Dial locations are available. Locations 0 and 1 are reserved for the international call prefix "+" and the voicemail centre number, respectively.

To access a menu using short cuts, press and hold the number key(s) on the Home screen.

Key lock (Keyguard)

You can lock the function keys to keep any accidental key presses from causing applications' launch or phone switch on or off.

To lock the keypad, use the following ways:

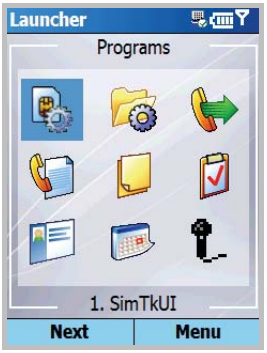
- Press on the right side of the phone and select **Key lock** on the Quick List screen. Once the keypad has been locked, press the **Unlock** soft key and then press to unlock the keypad.
- Press and hold . The backlight of the display and keypad turns off and all the keys, except are locked. To unlock the keys, press and hold .

Using the Launcher

Using the Launcher, you can view the applications in the **Start** menu categorised by type, and quickly access the application you want.

To open the Launcher:

On the Home screen, press and hold or the **Start** soft key.



Opening an application

1. On the Launcher screen, press the **Next** soft key and select the group.

2. Select the application you want.

Moving an application

You can move an application within a group or to another group.

1. On the Launcher screen, scroll to the application you want to move.

2. Press the **Menu** soft key and select **Move**.

3. Move the application to the position you want.

   To select the group to which you want the application moved, press the **Menu** soft key and select **Change Group**. Select the category and the position in the category.

4. Press the **Done** soft key.

Creating a new category

You can create new categories to organise applications on the phone.

1. On the Launcher screen, press the **Menu** soft key.

2. Select **Edit Group** → **New**.

3. Enter a new category name of up to 24 characters.

4. Press the **Add** soft key.

Managing a category

You can rename and delete the categories.

1. On the Launcher screen, select the category you want by pressing the **Group** soft key.

2. Press the **Menu** soft key and select **Edit Group**.

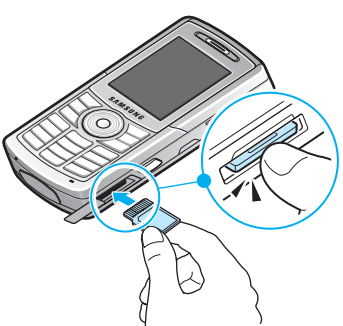
3. Select **Rename** to rename the selected category, change the name, and then press the **OK** soft key.

   Select **Delete** to delete the category. When the confirmation message appears, press the **OK** soft key.

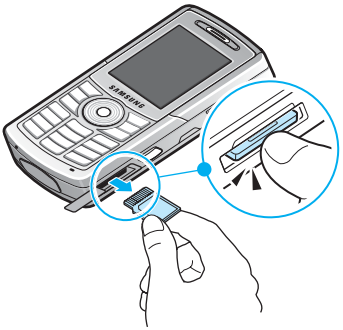
Using an optional memory card

Your phone has an expansion slot compatible with Trans Flash (T-Flash) memory cards, which are primarily used to back up or transfer files and data.

1. Push the memory card into the slot until it clicks into place. The card is secure when it is not protruding from the phone.



2. To remove the card, push it in and release so that it is disengaged from the slot. Then slide the card out.



Adding and removing programmes

Programmes added to your phone at the factory are stored in ROM (Read Only Memory). You cannot remove this software, and you'll never accidentally lose ROM contents. ROM programmes can be updated using special installation programmes with a *.xip extension.

You can install any programme created for your phone, as long as your device has enough memory. The most popular place to find software for your device is on the **Phone** Web site (http://www.microsoft.com/mobile/**Smartphone**).

Adding programmes using ActiveSync

You can install programmes downloaded from the Internet or included on the supplied software CD-ROM by performing a synchronisation between your phone and your PC.

First you need to determine what your phone and processor type is so that you know which version of the software to install.

To add a programme:

1. On the Home screen, press the **Start** soft key and select **Settings** → **About**. Check the version of your phone.

2. Download a programme to your PC from the Internet or insert the CD or disk that contains the programme into your PC.

   You may see a single *.xip, *.exe, or *.zip file, a Setup.exe file, or several versions of files for different device types and processors. Be sure to select the programme designed for the phone and your phone's processor type.

3. Read any installation instructions, Read Me files, or documentation that comes with the programme. Many programmes provide special installation instructions.

4. Connect your phone to your PC and make sure that the ActiveSync is activated.

   For more information on ActiveSync, see page 55.

5. Double-click the *.exe file on the PC.

   If the file is an installer, the installation wizard will begin. Follow the instructions on the screen. Once the software has been installed on your PC, the installer will automatically transfer the software to your phone.

   If the file is not an installer, you will see an error message stating that the programme is valid, but it is designed for a different type of PC. You will need to move this file to your phone. If you cannot find any installation instructions for the programme in the Read Me file or documentation, use ActiveSync Explore to copy the programme file to the **Program Files** folder on your phone. For more information on copying files using ActiveSync, see ActiveSync Help on your PC.

6. Once installation is complete, you can view and open the programme by accessing the **File Manager** application.

Adding a programme directly from the Internet

First, you need to determine what your phone and processor type is so that you know which version of the software to install.

1. On the Home screen, press the **Start** soft key and select **Settings** → **About**. Check the version of your phone.

2. Download the programme to your phone straight from the Internet using Internet Explorer on your phone.

   You may see a single *.xip, *.exe, or *.zip file, a setup.exe file, or several versions of files for different device types and processors. Be sure to select the programme designed for the phone and your phone's processor type.

3. Read any installation instructions, Read Me files, or documentation that comes with the programme. Many programmes provide special installation instructions.

4. Select the file, such as a *.xip or *.exe file. The installation wizard will start. Follow the directions on the screen.

5. Once installation is complete, you can view and open the programme by accessing the **File Manager** application.

Removing programmes

1. On the Home screen, press the **Start** soft key.

2. Select **Settings** → **More** → **Remove Programs**.

3. Select the programme you want to delete.

4. Press the **Menu** soft key and select **Remove**.

5. Press the **Yes** soft key to confirm the deletion.

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

Managing certificates

On your phone you can add and delete public key certificates. Certificates help establish your identity when you log on to a secured network or establish the identity of other computers, such as servers, with which you connect. You can store the following two types of certificates on your phone.

- **Root certificates**: helps establish the identity of servers with which you connect. This helps prevent unauthorised users from accessing your phone and information.
- **Personal certificates**: helps establish your identity, when you log on to a secured network, such as a corporate network.

Viewing certificates

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **More** → **Certificates** → **Personal** or **Root**.

   The list displays the name of the certificate issuer and expiration date.
3. To view more details, select the certificate.

Deleting a certificate

1. Scroll to the certicate you want on the list.
2. Press the **Menu** soft key and then select **Delete**.
3. Press the **Yes** soft key to confirm the deletion.

Resetting your phone

You can perform a soft reset or a hard reset – a soft reset restarts your phone and a hard reset returns your phone to its factory setting and remove all of the programmes and data you have added. The result of a soft reset is that some data may be lost in programmes that are open.

However, the result of a hard reset is to wipe out new programmes you have added – i.e., the phone will only have the software that was present when you bought it.

Performing a soft reset

If your phone responds slowly, stops responding, or freezes, try a soft reset. A soft reset causes the phone to restart and re-adjust memory allocation. Unsaved data in open windows may be lost.

To perform a soft reset use either of the following ways:

- With a pointed tool, press the reset button inside the hole on the bottom of the phone.
- Remove the battery and then reinstall it.

Performing a hard reset

You can return the phone to its factory setting and remove all of the programmes and data you have added.

To perform a hard reset:

1. Turn off the phone and remove the battery and install it again.

2. While holding , press and hold 0 +.

3. Enter the initialisation password in the **Enter password** field. The reset password is preset to “0000” at the factory.

   Your phone resets the system after about 6 or 7 minutes.

Changing initialisation password

You can change the reset password to prevent unauthoised person from initialising your phone.

1. On the Home screen, press the **Start** soft key.

2. Select **Settings** → **More** → **Security** → **Initialization PW**.

3. Enter the old password, then a new one, and re-enter the new password for confirmation.

4. Press the **Done** soft key.

Using online help

Your phone is supported by additional information available online, or on the CD-ROM that came with your phone.

For information on:	see:
additional programmes that can be installed on your phone,	the supplied CD-ROM.
connecting to and synchronising with a PC,	the User's Guide or ActiveSync Help on your PC. To view the ActiveSync help, click the ActiveSync icon on the Windows task bar and click **Open Microsoft ActiveSync** → **Help** → **Microsoft ActiveSync Help**.
last-minute updates and detailed technical information,	the Read Me files, located in the **Microsoft ActiveSync** folder on the PC and on the supplied software CD-ROM.
up-to-date information on your phone,	http://www.microsoft.com/mobile/smartphone.

chapter 3

Synchronisation

Using Microsoft® ActiveSync®, you can synchronise data in your desktop computer with the data in your phone. Synchronisation compares the data on your phone with your desktop computer and updates both your phone and computer with the most recent data. For example:

- Keep Contacts, Calendar, Tasks, or Inbox data up-to-date by synchronising your phone with Microsoft Outlook data on your desktop computer.
- Synchronise Microsoft Word and Microsoft Excel files between your phone and desktop computer. Your files are automatically converted to the correct format.

With ActiveSync, you can also:

- Back up and restore your phone data.
- Copy (rather than synchronise) files between your phone and desktop computer.
- Control when synchronisation occurs by selecting a synchronisation mode. For example, you can synchronise continually while connected to your desktop computer or only when you choose the synchronise command.
- Select which data types are synchronised and control how much data is synchronised. For example, you can choose how many weeks of past appointments you made synchronised.

WARNING!

- ActiveSync synchronises two devices using most recent data. Therefore, if you delete specific data from the phone after a synchronisation, and then perform a synchronisation again, the corresponding data on the computer will be deleted. Be careful not to lose your important data.
- If you turn off the phone after copying files to any folders, except for the **Storage** folder, using ActiveSync, all files in those folders will be deleted. Store important files in the **Storage** folder to prevent from being deleted.

Installing ActiveSync

Before you can begin synchronisation with your desktop computer, you must install ActiveSync on your desktop computer using the supplied CD-ROM. You can also download the latest version of ActiveSync from the Microsoft web site (http://www.microsoft.com).

To install ActiveSync on your desktop computer:

1. Insert the CD-ROM into the CD-ROM drive of your desktop computer.

   Alternatively, double-click the downloaded ActiveSync installer.

2. Follow the instructions on the screen for installing Microsoft ActiveSync.

   For more help, click on the **Help** button during installation.

3. After installation is complete, the ActiveSync New Partnership Wizard helps you connect your phone to your desktop computer, set up a partnership so that you can synchronise information between your phone and your desktop computer and/or server, and customise your synchronisation settings.

Note: After installing ActiveSync, a window appears prompting you to connect for the partnership setting. See page 59 for more information on connecting the phone and a computer.

Important: To prevent synchronisation problems, select **Synchronize with Microsoft Mobile Information Server and/or this desktop computer** only if you are certain that your company is running Microsoft Mobile Information Server 2002 or later, and you know the server name. Otherwise, select **Synchronize with this desktop computer** instead. For more information, contact your network administrator or service provider.

Your first synchronisation process will automatically begin when you finish using the wizard.

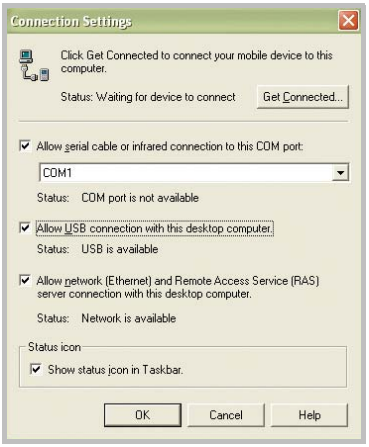
After the first synchronisation, take a look at Calendar, Contacts, and Tasks on your phone. You will notice that your information has been copied to the phone. Disconnect the phone from the desktop computer and you are ready to go!

Customising connection settings

To establish a connection between your computer and the phone, you must enable the connection(s) you want to use in the ActiveSync programme. By default, all connections are enabled.

1. From the ActiveSync window on your computer, select **File** → **Connection Settings...**.

2. Change the connection settings.



3. Click **OK**.

Connecting your phone to a computer

To connect the phone to your computer, you can choose one of the following ways:

- Using the PC data link cable
- Using the infrared port
- Using a Bluetooth connection

Connecting with the USB cable

Connect one end of the PC data link cable to the bottom of the phone and the other end into the USB port on your computer.

Note: USB mode of your phone must be set to ActiveSync. Press the **Start** soft key and select **Settings** → **More...** → **USB Mode**.

The connection is established and the Microsoft ActiveSync window appears. The synchronisation automatically begins.

Connecting via the infrared port

Align the infrared ports on your phone and the computer. On the Home screen, press the **Start** soft key and select **ActiveSync**, and then select **Menu** → **Connect via IR**. Once the connections is established, appears on the Windows task bar.

Note: If your computer doesn't have an infrared port, you can purchase a USB-IrDA adapter.

Connecting via Bluetooth

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **Bluetooth**.
3. Select the operating mode you want. For details, see page 210.
4. Press the **Menu** soft key and select **Devices**.
5. Press the **Menu** soft key and select **New** to search for a new Bluetooth compatible computer.
6. Scroll to your Bluetooth compatible computer and press the **Select** soft key to pair with the computer.
7. Enter a Bluetooth PIN and press the **Done** soft key. This code is used just once and you don't need to memorise it.

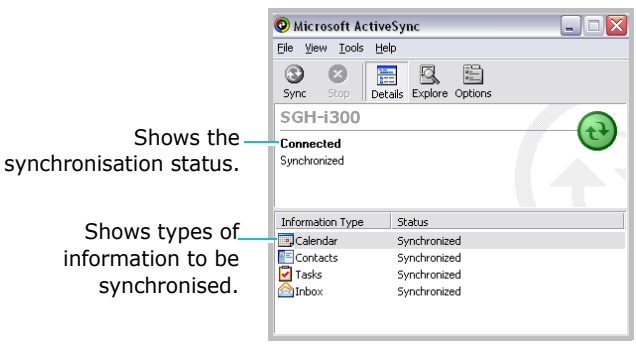
   When you enter the same code on your computer, paring is finished.
8. Enter a display name for the computer and press the **Done** soft key.
9. Press the **OK** soft key.

Synchronising information

1. Connect your phone to your computer.

   For more information on connecting the phone and the computer, see page 59.

2. The ActiveSync screen on your computer automatically appears and starts synchronisation.



Once the synchronisation is complete, the phone stays connected to the computer. If any change is made, ActiveSync automatically begins synchronisation. You can start synchronisation at any time by pressing the **Sync** soft key. To stop synchronisation, press the **Stop** soft key.

Open the file directory on the phone by clicking **Explore** from the Microsoft ActiveSync window. You can copy files quickly and easily from the phone to the computer or vice versa.

To break the connection, disconnect the PC data link cable or remove the phone out of the infrared or Bluetooth range.

Customising synchronisation settings

You can customise various setting options for synchronisation with a PC and a server, and set the synchronisation schedule.

Note: To set the synchronisation options, you first need to disconnect your phone from the PC.

Change the synchronisation schedule

You can schedule synchronisation of your phone on two separate times. Use the peak time schedule to synchronise during working hours or other times when you experience higher mail volumes. Use the off-peak time schedule to synchronise during times when you experience lower mail volumes. When you are roaming, you can synchronise manually to reduce roaming charges, or synchronise using the mobile schedules.

1. In ActiveSync on your phone, press the **Menu** soft key and select **Options** → **Mobile Schedule**.

2. Set each option:
   - To synchronise periodically during peak times, select a frequency of synchronisation in the **Peak time sync** list.
   - To synchronise periodically during off-peak times, select a frequency of synchronisation on the **Off-peak time sync** list.
   - To set synchronisation while roaming, select a frequency on the **Roaming sync** list.

- To synchronise each time you send an e-mail, select **Sync outgoing items as they are sent** check box.
- To set the days and hours for peak times, press the **Menu** soft key and select **Peak Times**.

3. When you have finished, press the **Done** soft key.

Setting PC synchronisation

1. In ActiveSync on your phone, press the **Menu** soft key and select **Options** → **PC Settings**.

2. Select your computer name on the **Use** list.

3. Select one or both of the following:
   - Select **Use mobile schedule to sync with this PC** if you want to synchronise the phone with the PC at scheduled intervals.
   - Select **Sync with this PC during manual sync** if you want to synchronise the phone with this PC.

4. Press the **Menu** soft key and select **Advanced**.

5. Select the connection type to be used.

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

7. Press the **Done** soft key.

Note: For more information on the conditions that must be met on the PC and how to change synchronisation options, see ActiveSync Help on the PC.

Setting server synchronisation

You can synchronise information automatically as items arrive only if your company is running Microsoft Exchange Server with Exchange ActiveSync.

Note: You can also set up a connection to synchronise remotely with a server when you first create a partnership between your phone and your PC.

To configure an Exchange server connection:

1. In ActiveSync on your phone, press the **Menu** soft key and select **Options** → **Server Settings**.

2. Select **Connection** and enter your Microsoft Exchange user name, password, and domain name.

   If you want the device to save your password so that you need not enter it when connecting, select **Save password** check box.

3. In the **Server Name** field, enter name of your Exchange server to which you want to connect.

4. Select **This server uses an SSL connection** to use a SSL protocol for server access.

5. If you want to set the frequency to synchronise the phone with your server when connected to a PC, press the **Menu** soft key and select **Rules** and then select desired options.

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

7. Press the **Done** soft key.

To change Exchange server synchronisation settings:

1. In ActiveSync on your phone, press the **Menu** soft key and select **Options** → **Server Settings**.

2. Select the types of information that you want to synchronise with the server: **Inbox**, **Calendar**, or **Contacts**.

3. Do one of the following:
   - To synchronise Calendar, Contacts, or Inbox information, select **Sync [Information Type] with a server**.
   - Change the duration of days for which data will be synchornised. For Inbox, you can also change the amount of data to be synchronised and the maximum e-mail size. Note that there are no synchronisation settings for Contacts.

4. When you have finished, press the **Done** soft key.

To change the rule for resolving conflicts:

If items change on both your phone and server, conflicts will arise during synchronisation.

1. In ActiveSync on your phone, press the **Menu** soft key and select **Options** → **Server Settings**.

2. Select **Conflicts** and select the rule in the **When conflicts occur** field.

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

chapter 4

Phone functions

As well as all the standard features of a mobile phone, such as mailbox and call history, there are several dialling features unique to your phone. For example, you can take notes while talking, dial directly from Contacts and easily transfer contacts between your SIM card and your phone's memory.

Additionally, such as a conventional mobile phone, you can easily use one hand to access and navigate through the important features of your phone and make calls.

Checking if you are connected

The default settings for your phone are programmed with the assumption that you want to use the phone mode. Therefore, providing you have inserted a SIM card, your phone will activate your mobile phone connection to your service provider's network.

The icon indicates that you are connected to the network of your mobile phone operator. A full strength signal is indicated by and as the strength of the signal diminishes so will the number of vertical bars in the icon, with no bars indicating no signal.

Turning the phone functions on and off

You can choose to turn off the phone functions and just use the PDA functions at any time and then turn it back on when you want.

Note: In many countries you are required by law to turn off the phone functions when you fly. To turn off the display of your phone doesn't actually turn off the phone functions; you must turn off your wireless connection to your operator's network.

To turn the phone functions off:

Press and hold on the right side of the phone until appears in the navigation bar of the screen. Or press and select **Flight mode**.

To turn the phone functions on:

Press and hold until appears in the navigation bar of the screen. Or press and select **Flight mode off**.

Using the Dialer screen

When you start entering a number or press , the Dialer screen opens. You can view the most recent calls you have dialled, received, and missed on the Dialer screen.

From the Dialer screen, make calls, access Contacts, and view the call information by pressing the **Menu** soft key.

Making a call

You can make a phone call using the number keypad.

Making a call from the Dialer

1. On the Dialer screen, enter a number or a contact name using the keypad.

   If there are numbers that contain your input in Call History or Contacts, they are listed so that you can select one.

2. Press to make a call.

While the number dials, if the number is already in Contacts, the corresponding name displays.

When a call is connected, the call duration time displays. During a call, you can use the several call options. For details, see page 77.

Note: To adjust the volume during a call, press on the left side of your phone to increase or decrease the volume level.

3. To end the call, press .

Advanced calling features

You can make a call from the **Contacts**, **Speed Dial**, and **Call History**.

Making a call from Contacts

1. On the Home screen, press the **Contacts** soft key.

   You can also press the **Start** soft key and select **Contacts**.

2. Select a contact card from the contact list and then press .

Making a call from Speed Dial

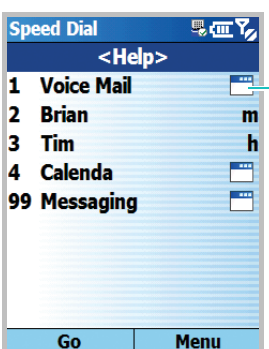
Speed Dial is a list you can create of often-dialled numbers. Information on adding a number to Speed Dial is detailed on page 81.

By memorising the position on the Speed Dial list, you can dial the number simply by entering that number. For example:

In the picture below, "Tim" is at position 3. To dial his number, simply press and hold 3 def; if the number holds a position of 10 or more, press the first number briefly, and then press and hold the second number to dial.

Alternatively, if you don't remember the position of a number in the Speed Dial, access the Speed Dial list:

1. On the Home screen, press the **Start** soft key and select **More** → **Speed Dial**.



Indicates that this location is set for a menu shortcut.

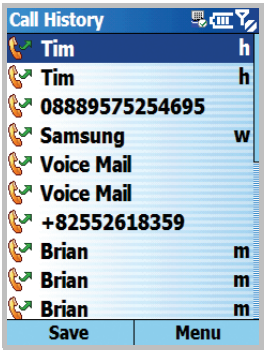
2. On the list of the Speed Dial numbers, scroll to the number you want and then press or the **Go** soft key.

Making a call using name dialling

You can make a phone call by saying the name that has been assigned to a contact in **Contacts** or on the SIM card. For details, see page 186.

Making a call from the Call History

1. On the Home screen, press the **Start** soft key and select **Call History**.



Note: Icon is for incoming calls, icon is for outgoing calls, and icon is for missed calls.

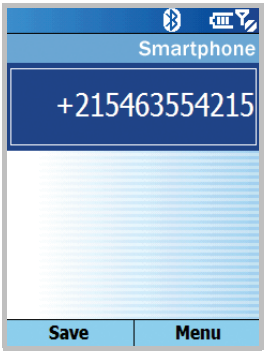
2. To view the calls categorised by call type, press the **Menu** soft key, select **Filter**, and select a category from the pop-up list.

3. Scroll to the number and then press .

Making an international call

1. Press and hold 0+ until the **+** sign appears. The **+** replaces the international access code.

2. Enter the full phone number you want to dial. It includes the country code, the area code (without the leading zero), and the phone number.



3. Press .

Note: You can set the international access code. On the Home screen, press the **Start** soft key, select **Settings** → **Phone** → **Call options**, and enter a code in the **Country code** field.

Making an emergency call

Your phone provides the emergency number **112**. This number can normally be used to make an emergency call in any country, with or without a SIM card inserted, if you are within a mobile phone network's service area.

Enter the emergency number **112** and press .

Notes:
- Some mobile phone service providers may require that a SIM card be inserted, and in some cases that the PIN has been entered as well.
- In some cases, other emergency numbers may also be accessed. Your mobile phone service provider may save additional local emergency numbers on the SIM card.

Answering or rejecting a call

- Press the **Accept** soft key or press to answer or reject a received call.
- press the **Reject** soft key or press to reject the call.

Note: If you reject a call, the busy tone is sent out. Depending on the network service provider, you may be guided to the voicemail server of the other person.

- When a the phone rings, you can mute the ringer by pressing either of the .

Options during a call

Your phone provides a number of control functions that you can use while a call is in progress.

Putting a call on hold

If a person is trying to call you when you are talking on the phone, a notification window will pop out.

1. Press the **Accept** soft key to answer the second call and put the first on hold.

2. To swap back and forth between the two callers, press the **Swap** soft key.

3. To end the second call and go back to the first, press the **End** soft key or press .

Setting up conference calling

1. Put a call on hold, dial a second number, and wait for it to be picked up. Alternatively, accept a second incoming call when you already have one in progress.

2. Press the **Menu** soft key and select **Conference**.

   If the conference connection is successful, the word "Conference" will appear at the top of the Dialer screen.

3. Press the **Hold** soft key to place the conference call on hold and make a new call or answer a second call.

4. Press the **Menu** soft key and select **Join** to join together all existing calls. You can add up to 5 participants.

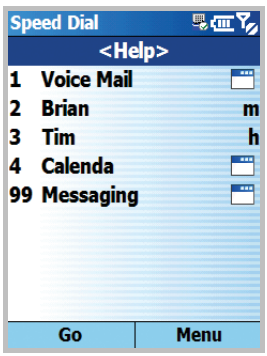
   To talk privately to a person during a conference call, press the **Menu** soft key and select **Private**. When the list of call participants appears, select one.

Call-related features

Checking your voicemail

The first speed dial location defaults as your voicemail box. When you insert your SIM card into your phone, it will automatically detect and set as default the voicemail centre number of your mobile service provider.

To check your voicemail, press and hold 1 from the Dialer screen. You can also press the **Start** soft key and select **More** → **Speed Dial**. Scroll to **Voice Mail** and press the **Go** soft key.



Note: You can check and change the voicemail centre number. On the Home screen, press the **Start** soft key, select **Settings** → **Phone** → **Call Options**, and check **Voice mail number**.

Adding and transferring contact information

There are a number of ways in which telephone numbers and contacts can be entered and stored, and there are also a number of ways to make a phone call. It is therefore important to be able to transfer those contacts between the programmes used to make calls.

Places where contacts can be entered into your phone and stored

- Your SIM card: You can exchange your SIM card between your phone and other devices; while using other devices, you can create one or more new contacts on the SIM card.
- Contacts.
- Call History: New contact numbers can be found in incoming calls or missed calls.

Why transfer numbers?

- In the event you lose your SIM card while using it in another device, your SIM numbers will be backed up on to your device.
- If you want to transfer a number to **Speed Dial**, it must be in **Contacts**, not on the SIM card.

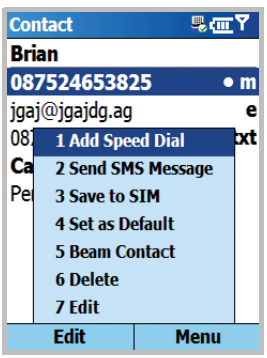
- If you are using your SIM in another device, you may need the numbers stored in **Contacts**.
- Transferring numbers to **Contacts** allows you to create more detailed records.

Adding and transferring Contacts

1. To create a contact, see page 134.

2. Select the contact and scroll to the item you want to transfer.

3. Press the **Menu** soft key.



4. To transfer a contact to Speed Dial, select **Add Speed Dial** from the pop-up menu. On the Add Speed Dial screen, enter the contact name (if necessary), select a location, and press the **Done** soft key.

Note: By default the **Key assignment** option will assign you the next available position in the **Speed Dial** list. If you put a number in a position that is already occupied, a confirmation message appears to ask you if you want to overwrite the setting.

To transfer the contact to the SIM card, select **Save to SIM**, enter the contact name (if necessary), and press the **Done** soft key.

Managing the Speed Dial list

You can assign frequently-used phone numbers, e-mail addresses, or web pages in Contacts to the speed dial location 2 through 99. The location 0 and 1 on the Speed Dial list is preset for the international call prefix + and the voicemail centre number, respectively.

Using this application, you just need to press and hold a number key to dial a phone number, create a new e-mail, or goes to a web page.

Note: You cannot create a speed dial for a phone number stored on the SIM card.

To add a contact to the Speed Dial list:

1. On the Home screen, press the **Contacts** soft key.

   You can also press the **Start** soft key and select **Contacts**.

2. Select a contact from the list.

3. Scroll to a number, e-mail address, or Web page address.

4. Press the **Menu** soft key and select **Add Speed Dial**.

5. If necessary, enter the name you want.

6. In the **Keypad assignment** field, select a location.

7. Press the **Done** soft key.

To delete location assignments:

1. On the Home screen, press the **Start** soft key.

2. Select **More** → **Speed Dial**.

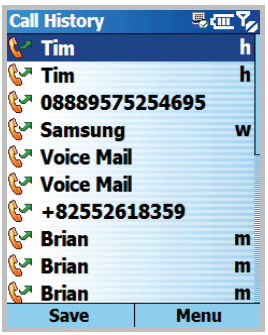
3. On the Speed Dial list, select a number, press the **Menu** soft key, and select **Delete**.

4. When the confirmation message appears, press the **Yes** soft key.

Managing your Call History

The **Call History** details all incoming, outgoing, and missed calls, and also provides a summary of total calls. It can also tell you when a call was initiated and how long it lasted.

On the Home screen, press the **Start** soft key and select **Call History**. A list of all calls appears.



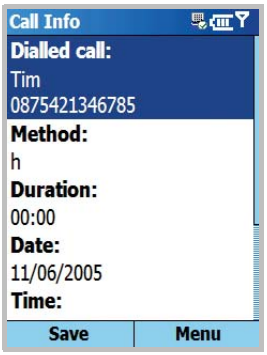
If necessary, select the category of the call history to be displayed by pressing the **Menu** soft key and selecting **Filter**.

Calls are categorised as below:

- **No Filter**: shows all calls made to and from the phone in chronological order.
- **Missed Calls**: shows only calls that were not answered.
- **Incoming Calls**: shows only calls made to the phone.
- **Outgoing Calls**: shows only calls made from the phone.

Viewing details of calls

- To view the duration of a call and time and date you received or made it, scroll to the call you want to view and press ●.



- To view contact information, scroll to a contact, press the **Menu** soft key, and select **Find Contact**.
- To send an e-mail message using the e-mail address on the call history, scroll to the contacts press the **Menu** soft key, and select **Email**.
- To delete individual calls, scroll to the contact, press the **Menu** soft key, and then select **Delete**.
- To save the phone number on the selected call history as a new contact or add it to an existing contact, scroll to the contact, and press the **Save** soft key.

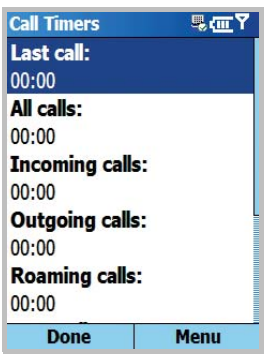
Viewing call timers

In Call History, you can view the duration of your calls. This option is convenient for estimating your usage.

To view the call timers:

1. On the Call History screen, press the **Menu** soft key and select **View Timers**.

   You can view the total call time, the last call time, the time of calls you received and made, and a lifetime counter. You can also view the time you reset the call time last.



2. Press the **Done** soft key.

You can easily erase the call time records at any time, except for **Last call** and **Lifetime calls**, by pressing the **Menu** soft key and selecting **Reset Timers**.

Viewing call cost

This network feature lets you view the cost of calls. You can set the maximum cost to limit the cost of your calls to a certain amount of charging units or units of currency. When the max cost is active, calls can be made only as long as the preset max cost is not exceeded.

Viewing call cost may not be available, depending on particular SIM cards. For more information, contact your service provider.

To view the cost of calls:

1. On the Call history screen, press the **Menu** soft key and select **Call Cost**.

2. Select the option you want.
   - **Last Call Cost**: shows the cost of the last call you made.
   - **Total Cost**: shows the total cost of all calls made since the cost counter was last reset. If the total cost exceeds the maximum cost set in the **Set Max Cost** option, you can no longer make any calls until you reset the counter.
   - **Max Cost**: shows the maximum cost set in the **Set Max Cost** option.
   - **Reset Counters**: allows you to reset the cost counter. Before resetting, you must first enter your PIN2.
   - **Set Max Cost**: allows you to enter the maximum cost that you authorise for your calls. After finished, you must enter your PIN2.
   - **Price/Unit**: allows you to set the cost of one unit. This price per unit is applied when calculating the cost of your calls. After finished, you must enter your PIN2.

3. When you have finished, press the **Done** soft key.

Customising your phone functions

You can personalise the settings of your phone, the services you have, and the network to which you are connected.

Call options

You can customise settings related to call functions, such as an answering option, voice mail and SMS access numbers, and country and area codes.

1. On the Home screen, press the **Start** soft key.

2. Select **Settings** → **Phone** → **Call Options**.

3. Select the option you want in each field.
   - **Any key answer**: When this box is checked, you can answer incoming calls by pressing any key, except for , , , and /.
   - **Show SIM contacts**: When this box is checked, the contacts stored on the SIM card displays on the Contacts list.
   - **Voice mail number**/**SMS service centre**: When you insert your SIM card into your phone, it automatically detects and sets your voicemail centre and SMS access numbers by default. You can change the numbers.
   - **Country code**/**Dialling code**: You can enter a country code or area code.

4. When you have finished, press the **Done** soft key.

Service LED

You can change the colour of the service LED to indicate the service status.

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **Phone** → **More** → **Service LED**.
3. Select a colour and press the **Done** soft key.

Tones

You can customise additional tones for the phone.

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **Phone** → **Extra Tones**.
3. Select the option you want in each field.
   - **Connect Tone**: You can set whether or not your phone sounds an alert tone when your call is connected.
   - **Minute Minder Tone**: You can set whether or not your phone sounds an alerts tone every minute.
4. When you have finished, press the **Done** soft key.

Caller ID

When you place a call, your phone number can be displayed or hidden from the person that you are calling. You can enable or disable the display of your caller indentification.

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **Phone** → **Caller ID**.
3. In the **Provide my caller ID to** field, select **No one** to hide your caller ID or **Everyone** to display it to all. If you want to display your caller ID to the contacts stored in Contacts, select **Only my contacts**.
4. Press the **Done** soft key.

Closed User Group (CUG)

This service allows incoming and outgoing calls to be restricted to a selected user group. The CUG service may not be available depending on particular SIM cards.

For more information, contact your service provider.

Activating a closed user group

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **Phone** → **Closed User Group**.

3. Set each option. The following options are available:
   - **Index List**: Set up the index list by pressing the **Menu** soft key and selecting **Add**, **Delete**, and **Activate**.
   - **Outside Access**: Enable or disable calls to numbers other than those in the Closed User Group.
   - **Default Group**: Select whether or not to set a default CUG with your service provider.
   - **Deactivate**: Deactivate indexes.

4. When you have finished, press the **Done** soft key.

Network settings

You can set the phone to automatically select a network or select a network manually when you are roaming out of a service area.

Finding a network

1. On the Home screen, press the **Start** soft key and select **Settings** → **Phone** → **More** → **Networks**.

2. Press the **Menu** soft and select **Find a New Network** (retrieving settings may take a few minutes).

   Note: You can enable this function when the phone is currently out of network service.

   The current network displays in the **Current network** field.

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

Selecting a network

1. On the Home screen, press the **Start** soft key and select **Settings** → **Phone** → **More** → **Networks**.

2. Select either **Automatic** or **Manual** in the **Network selection** field (retrieving settings may take a few minutes when you select **Manual**).

3. If you select **Manual**, press the **Menu** soft key and select **Select a Network**. Select a network you want and press the **Done** soft key.

   You are connected to that network.

   If you select **Automatic**, select the preferred network. See below.

4. Press the **Done** soft key.

Setting preferred networks

1. On the Home screen, press the **Start** soft key and select **Settings** → **Phone** → **More** → **Networks**.

2. Press the **Menu** soft and select **Preferred Networks**. (retrieving settings may take a few minutes).

3. Select a network and re-priorities the order for network usage by pressing the Up or Down key.

4. Press the **Done** soft key.

Note: If there are many service providers available to you, enable this function to select a lower fee network.

Call barring

This service allows you to restrict your incoming or outgoing calls.

To activate or deactivate call barring:

1. On the Home screen, press the **Start** soft key.

2. Select **Settings** → **Phone** → **Call Barring** (retrieving settings may take a few minutes).

3. Select the calls type you want to restrict and press the **Done** soft key.

   You can choose to restrict your calls with the following choices:

   - **All calls**: No calls can be made or received.
   - **When roaming**: Calls cannot be received when you are using your phone outside of your home service area.
   - **Off**: Call barring is deactivated; all calls can be made and received normally.
   - **Int's except home**: When abroad, calls can be made only to numbers within the current country and to your home country.
   - **Int'l calls**: International calls cannot be made.

4. Enter the barring password provided by your service provider and press the **Done** soft key.

To change the barring password:

You can set and change the call barring password obtained from your service provider.

1. On the Dialer screen, tap **Tools** → **Options...**. You can also access the screen by tapping the **Start** menu → **Settings** → **Phone**.
2. Tap the **More** tab → **Call Barring Password** → **Get Settings**.
3. Enter the old password, then a new one, and re-enter for confirmation.
4. Tap **OK**.

Call forwarding

This service allows you to forward your incoming calls to another phone number.

To activate or deactivate call forwarding:

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **Phone** → **Call Forwarding** (retrieving settings may take a few minutes).
3. Select a call forwarding option from the following conditions:
   - **Unconditional**: All calls are forwarded.
   - **No Reply**: Calls are forwarded when you do not answer your phone.
   - **Busy**: Calls are forwarded when you are on the phone.
   - **Unavailable**: Calls are forwarded when your phone is turned off or your phone is out of the network service area.

4. Select the **Enable call forwarding** check box.

5. Enter the phone number to which calls are to be forwarded.

6. Press the **Done** soft key.

Call waiting

This service allows you to receive another call while you have a call in progress. You can also turn this option off by unsettling **Provided call waiting notifications**.

To activate or deactivate call waiting:

1. On the Home screen, press the **Start** soft key.

2. Select **Settings** → **Phone** → **Call Waiting** (retrieving settings may take a few minutes).

3. Select or unsettle **Provide call waiting notifications**.

   Once you have activated the Call Waiting service, you will receive an alert tone when you have a second call during a call.

4. Press the **Done** soft key.

Band selection

For the phone to make and receive phone calls, it must be registered with one of the available networks. Your phone can handle combined GSM 900/1800 or PCS 1900 networks.

The country where your phone was purchased determines the default band that it uses. When you travel abroad, you must remember to change to an appropriate band.

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **Phone** → **Band Selection**.
3. Select an appropriate band in the **Band Selection** field.
4. Press the **Done** soft key.
5. If the confirmation screen displays, press the **Yes** soft key to confirm your selection.
6. Press the **OK** soft key.

Fixed Dialling

When this option is enabled, your phone restricts your outgoing calls to a limited set of phone numbers. You can only call those phone numbers that are included on the Fixed dialling number list or which begin with the same digit(s) as a phone number on the list.

To activate the Fixed dialling function:

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **Phone** → **Fixed Dialling**.
3. Select the **Enable fixed dialling** checkbox and press the **Done** soft key.
4. Enter PIN2 and press the **Done** soft key.

To add new numbers to the Fixed dialling number list:

1. On the Fixed Dialling screen, press the **Menu** soft key and select **Edit Numbers**.
2. Press the **Menu** soft key and select **Add**.
3. Enter the number and press the **Done** soft key.
4. Repeat steps 2 and 3 to enter additional numbers.
5. Press the **Done** soft key.

Changing PIN2

This option allows you to change your current PIN2 to a new one. You must enter the current PIN2 before you can specify a new one.

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **More** → **Security**.
3. On the Security screen, select **Change PIN2**.
4. Enter the old PIN2, then a new one, and re-enter the new PIN2 for confirmation.
5. Press the **Done** soft key.

chapter 15

Message, Internet, and Messenger

Messaging

In **Messaging**, you can create, send, receive, view, edit, and organise:

- Text messages (SMS)
- Multimedia message (MMS)
- E-mail messages

To go to **Messaging**, on the Home screen, press the **Start** soft key and select **Messaging**.

SMS Messages

You can write an SMS message of up to 160 characters. When you enter more than 160 characters, your phone handles the message as a multi-part message.

Creating an SMS message

1. On the Messaging main screen, select **SMS Messages**.
2. Press the **New** soft key.
3. In the **To** field, enter phone number(s) of one or more recipients, separating them with a semicolon, or retrieve a number from the contact list by pressing the **Menu** soft key and selecting **Insert Contact**.

4. Press the Down key and compose your message.

   To enter preset or frequently used messages, press the **Menu** soft key, select **Insert Text**, and select a message.

5. Press the **Send** soft key when you've finished the message.

   If you want to send the message later, press the **Menu** soft key and select **Postpone Message**. The message is automatically saved in **Drafts**.

Note: If you want to know if your message is delivered to the recipient(s), press the **Menu** soft key, select **Message Options** → **Request message delivery notification**.

Viewing messages

When you receive a new SMS message, the ✉ icon displays on the Home screen and a new message is stored in **Inbox**. Press the **Message** soft key to open the message.

You can also view messages you received, sent, composed but not sent by accessing the message folders.

To open the message folders:

On the SMS Messages screen, press the **Menu** soft key and select **Folders**. The following default folders display:

- **Deleted Items**: contains messages that have been deleted on your phone.
- **Drafts**: stores draft messages that have not been sent.
- **Inbox**: contains received SMS and broadcast messages. For details on broadcast messages, see page xx.

- **Outbox**: is a temporary storage place for messages waiting to be sent.
- **Sent Items**: stores the messages that have been sent.

If you want to organise messages into additional folders on the folder list, press the **Menu** soft key and select **Manage Folders** to create new folders.

To view all message folder contents, press the **Menu** soft key and select **Show All Folders**.

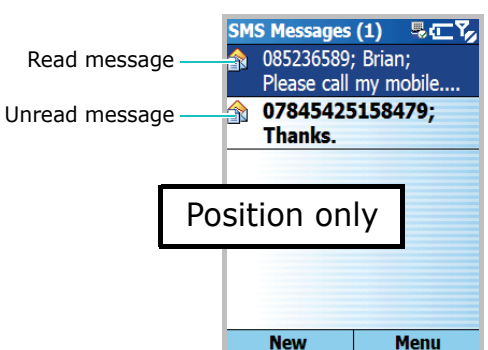
To clear the SMS messages in the specific folder, scroll to the folder, press the **Menu** soft key, and select **Clear SMS Messages**.

To view a message:

1. On the SMS messages screen, open the message folder you want.

   The most recently received messages are displayed first on the SMS Messages screen.

2. Select a message you want to view.



3. While viewing the message, you can use the following options by pressing the **Menu** soft key. Available options depend on the folder you have opened.
   - **Delete**: Deletes the message.
   - **Reply**: Sends a reply to the sender. You can also send a reply by pressing the **Reply** soft key.
   - **Reply All**: Sends a reply to the senders in the **To** field.
   - **Forward**: Copies the message contents to an editor to forward the message to other people.
   - **Save to Contacts**: Allows you to copy the phone number of the message sender to the Contacts directory. Choose whether you want to create a new contact or add the phone number to an existing contact.
   - **Move**: Allows you to move message(s) to other folders.
   - **Mark as Unread**/**Read**: Allows you to mark the unread or read message.

Note: You can change the default settings for viewing an SMS message. On the SMS message list, press the **Menu** soft key and select **Options** → **Display**. You can select whether or not SMS messages display on the list with the date and time, and configure the sorting method of messages.

Inserting signatures into SMS messages

You can specify a signature to be automatically inserted into SMS messages that you send.

1. On the SMS Messages screen, press the **Menu** soft key and select **Options** → **Signatures**.

2. Select **SMS Messages** from the **Select an account** field.

3. Select the **Use signature with this account** checkbox.

   To insert a signature in every SMS message when you reply or forward the message, select the **Include when replying and forwarding** checkbox.

4. Enter a signature in the **Signature** field and press the **Done** soft key.

5. Press the **Done** soft key.

Configuring Broadcast channels

Your phone can receive text messages on various topics, such as news, weather forecasts, traffic, entertainment, and so on, from your service provider. To receive broadcast messages, you must enable channels.

1. On Home screen, press the **Start** soft key.
2. Select **Settings** → **Phone** → **Channels**.
3. Set each option:
   - **Enable channels**: Select to enable the reception of broadcast messages.

- **Receive channel list**: Select to receive a list of all of the available channels from the network.

  To manually set up the channel list, press the **Menu** soft key and select **Edit Channels**. On the Edit Channels screen, press the **Menu** soft key and select **Add** to add a new channel. You can also enable or disable channels individually.

- **Language**: Select your preferred language to display broadcast messages.

4. Press the **Done** soft key.

Viewing messages on the SIM card

Sometimes, the 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 in your phone.

1. On the SMS Message screen, press the **Menu** soft key and select **Options** → **Import SIM Messages**.

2. Press the **Done** soft key.

   The text messages are copied from the SIM card to Inbox of the selected account.

MMS Messages

You can send or receive multimedia messages (MMS). In addition to the familiar text content of text messages, multimedia messages can contain images, video clips, audio clips, and combinations of these things in more than one page.

MMS also supports e-mail addressing, so that messages can be sent from phone to e-mail and vice versa.

Creating an MMS message

1. On the Messaging main screen, select **MMS**.

2. Press the **New** soft key.

3. Enter the recipient's number(s) or address(es), seperating them with a semicolon.

   You can also retrieve number(s) or the address(es) from the contact list or the list you sent lately by pressing the **Menu** soft key and selecting **Add Recipients**.

4. Press the Down key and enter your text.

5. To add items, press the **Menu** soft key and select **Add item**.

6. Select a file type and add the item you want. You can also press the **Menu** soft key and select **Capture** or **Record Voice** to take a new photo, record a new video clip, or record a voice memo.

7. You can access the following options by pressing the **Menu** soft key:
   - **Preview**: Shows the multimedia message you created.
   - **Edit item**: Allows you to edit the added items.
   - **Insert**: Allows you to insert the contact card or calendar schedule.
   - **Add Subject**: Allows you to enter the message subject.
   - **Edit Page**: Allows you to add pages or charge the text style.

- **MMS Options**: Allows you to change the message options, such as priority, expiry time, and hiding the sender's address, see page 102.
- **Save To**: Saves the message in the **Draft** or **Template** folder.
- **Cancel Message**: Calcels creating the message.

8. When you have finished composing the message, press the **Send** soft key.

Viewing messages

You can view multimedia messages you have received, sent, and saved but not sent by accessing the message folders.

To open the message folders:

On the MMS screen, press the **Menu** soft key and select **Folders**.

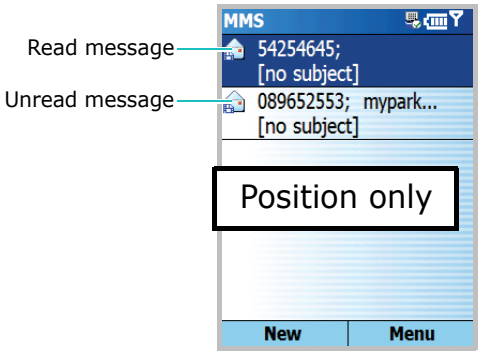
The following default folders display:

- **Deleted Items**: Contains messages that have been deleted on your phone.
- **Drafts**: Stores draft messages that have not been sent.
- **Inbox**: Contains received messages.
- **Outbox**: is a temporary storage place for messages waiting to be sent.
- **Sent Items**: Stores the messages that have been sent.

To view a message:

1. On the MMS screen, open the message folder you want. A list of messages appears.

2. Select the message you want to read.



3. While you read the message, use the following options:
   - To play the message, press the **Play** soft key.
   - To view the previous page, press the Left key.
   - To view the next page, press the Right key.
   - To access the added item in the message, press the **OK** key.

4. You can also access the following options by pressing the **Menu** soft key. Available options depend on the type of folder you had opend.
   - **Reply**: Allows you to reply to the sender or all the recipeints.
   - **Forward**: Allows you to forward the message to other people.
   - **Save**: Allows you to save the phone number or e-mail address of the sender to the Contacts directory or objects in the message, such as an image, audio, or video, or to save the message as a template.
   - **Delete**: Deletes the message. The message is moved to the Deleted Items folder.

- **Save to Contacts**: Allows you to save the sender's address in the Contacts directory.
- **Properties**: Shows you the message properties.

5. When you have read a message, press to return to the list screen.

Configuring MMS settings

You can change the default MMS settings. While composing an MMS message, press the **Menu** soft key and select **MMS Options**.

- **Sending Options**: Allows you to change the settings for sending MMS messages.

  Priority: You can select the priority level of your messages.

  Validity Period: You can select the length of time your messages are stored in the message centre after they are sent.

  Delivery Time: You can select the time delay before messages are sent.

  Message Size: You can select the maximum message size.

  Hide Address: When this option is checked, your phone number is not displayed on the recipient's phone.

  Delivery Report: When this option is checked, the network informs you whether or not your message has been delivered.

  Read Report: When this option is checked, your phone sends a request for a reply along with your message to the recipient.

  Keep a copy: When this option is checked, a copy of your messages is sent to you.

- **Receiving Options**: Allows you to change the settings for receiving MMS messages.

  Home Network: Set how to retrieve new messages from the server in your home network.

  Roaming Network: Set how to retrieve new messages from the server while roaming around another network.

  Delivery Report: Select to receive a report when your message is delivered.

  Read Report: Select to receive a report when your message is read.

  Anonymous Reject: Select to reject messages from unknown senders.

- **MMS Profiles**: Allows you to set up and activate MMS profiles which are sets of MMS parameters required to send or receive MMS messages.

  To edit a profile, select it and press the **Menu** soft key and select **Edit**. Change the following options:

  MMS Profile: Enter the profile name.

  MMSC: Enter the URL address of the MMS centre.

  Data Connections: Select an intermediate to connect to the MMS centre, Gateway, or Proxy.

  Gateway: Select a gateway to connect to the MMS centre.

  IP Address: Enter the IP address of the gateway.

  Port: Enter the port number of the gateway.

  Encoding: Select an encoding type to send your messages.

  To activate a profile, select it from the profile list.

- **Creation mode**: Allows you to set the phone to allow the MMS creation using unsupported file format.

  Free: The phone adds unsupported files.

  Restricted: The phone does not allows you to add unsupported files.

  Warning: The phone alerts you if you try to add unsupported files.
- **Reply Charging**

E-mail messages

You can send and receive e-mail messages in one of these ways:

- Synchronise e-mail messages with Microsoft Exchange or Microsoft Outlook on your PC.
- Send and receive e-mail messages by connecting directly to an e-mail server through an Internet service provider (ISP) or a network.

Synchronising E-mail messages

Use **Outlook E-Mail** to send and receive e-mail messages by synchronising e-mail messages with Microsoft Exchange or Microsoft Outlook on your PC.

E-mail messages can be synchronised as part of the general synchronisation process. You will need to enable Inbox synchronisation in **ActiveSync**. For information on enabling Inbox synchronisation, see “ActiveSync Help” on the PC.

During Synchronisation

- Messages are copied from the mail folders of Exchange or Outlook on your PC to the **Outlook E-mail** folder in **Messaging** on your phone. By default, you will receive messages from only the three days, and only the first 100 lines of each message.
- E-mail messages in **Outbox** on your phone are transferred to Exchange or Outlook, and then sent from those programmes.
- E-mail messages in folders must be selected in **ActiveSync** on your PC in order to be transferred.

Connecting directly to an E-mail server

You can send and receive e-mail messages by connecting to an e-mail server. You'll need to set up a remote connection to a network or an ISP, and a connection to your e-mail server.

When you connect to the e-mail server, new messages are downloaded to the phone's **Inbox** folder. Also messages in the phone's **Outbox** folder are sent, and messages that have been deleted on the e-mail server are removed from the phone's **Inbox** folder. Messages that you receive directly from an e-mail server are linked to your e-mail server rather than your PC.

Creating an E-mail account

You need to create a new account to be used for retrieving and sending e-mail messages.

To make a new account:

1. From the Messaging home screen, select **Outlook E-Mail**.

2. Press the **Menu** soft key and select **Options** → **Account Setup**.

3. Press the **Menu** soft key and select **New**.

4. Enter your display name and e-mail address.

   If you want to set up your account automatically from the Internet, select **Attempt to obtain e-mail settings from the Internet**.

5. Press the **Next** soft key.

6. Enter your user information, such as user name, password, and domain name (if necessary).

   If you want to save the password, select the **Save password** checkbox.

7. Press the **Next** soft key.

8. Select the e-mail server type, **POP3** or **IMAP4**, enter an account name, and select a network type.

9. Press the **Next** soft key.

10. Enter the server information, such as incoming mail server and outgoing mail server.

    If you want to set up outgoing server, select **Outgoing Server Settings**.

11. Press the **Next** soft key.

12. Set the options for downloading e-mail messages and press the **Next** soft key.

    You can select the duration of days for which you receive e-mail messages and set the maximum data volume of e-mail messages you want to download.

13. Select how often your phone automatically connects to the server and checks for incoming e-mails, and press the **Next** soft key.

14. Press the **Finish** soft key.

Folder behavior with a direct connection to an E-mail server

The behavior of the folders you create depends on whether you are using POP3 or IMAP4.

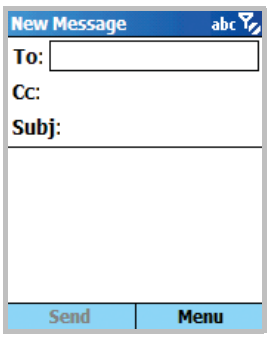
- If you use POP3 and you move e-mail messages to a folder you created, the link is broken between the messages on the device and their copies on the mail server. The next time you connect, the mail server will see that the messages are missing from the device Inbox and delete them from the server. This prevents you from having duplicate copies of a message, but it also means that you will no longer have access to messages that you move to folders created from anywhere except the device.
- If you use IMAP4, the folders you created and the e-mail messages you moved are mirrored on the server. Therefore, messages are available to you anytime you connect to your mail server, whether it is from your device or PC. This synchronisation of folders occurs whenever you connect to your mail server; create new folders or rename/delete folders when connected.

Creating an E-mail message

1. On the Messaging main screen, select the e-mail account with which you want to send.

2. Press the **New** soft key.

3. In the **To** and **Cc** fields, enter e-mail address(es) of one or more recipients, separating them with a semicolon, or retrieve addresses from the contact list by pressing the **Menu** soft key and selecting **Insert Contact**.



4. In the **Subj** field, enter the subject of the e-mail message.

5. Compose your e-mail message.

   To enter preset or frequently used sentences, press the **Menu** soft key, select **Insert Text**, and select a sentence.

   You can record a voice note as an attachment by pressing the **Menu** soft key and selecting **Insert Recording**. Press the **Record** soft key to start recording.

6. Press the **Send** soft key when you've finished the message.

   If you want to send the e-mail message later, press the **Menu** soft key and select **Postpone Message**. The message is automatically saved in **Drafts**.

7. Press the **Menu** soft key and select **Send/Receive**.

Note: If you want to know if your e-mail messages is delivered, press the **Menu** soft key, select **Message Options**, and select the **Request message delivery notification** checkbox.

Viewing e-mail messages

When you receive a new e-mail message, the ✉ icon displays on the Home screen and a new message is stored in **Inbox**.

You can also view messages you received, sent, composed but not sent by accessing the message folders.

To open the message folders:

On the Messaging main screen, select the e-mail account you want, press the **Menu** soft key, and select **Folders**.

The following default folders display:

- **Deleted Items**: contains messages that have been deleted on your phone.
- **Drafts**: stores draft messages that have not been sent.
- **Inbox**: contains received messages.
- **Outbox**: is a temporary storage place for messages waiting to be sent.
- **Sent Items**: stores the messages that have been sent.

Note: When you first have synchronised e-mail messages, the **Junk E-mail** folder is copied from the Microsoft Outlook on your PC to **Outlook E-mail** on your phone. The next time you synchronise, the e-mail messages that appear to be Junk e-mail are saved in the **Junk e-mail** folder according to the junk e-mail options you set in the Microsoft Outlook on your PC.

To move a message to another folder, select the message on the message list and then press the **Menu** soft key and select **Move**.

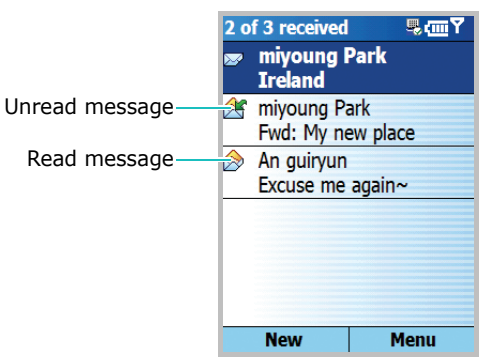
To view all message folder contents in the selected account, press the **Menu** soft key and select **Show All Folders**.

To view an e-mail message:

1. On the Messaging main screen, select the e-mail account from which you want to receive e-mail messages.

2. Press the **Menu** soft key and select **Send**/**Receive**.

   The phone connects to your e-mail server and receives your incoming e-mail messages or sends the e-mail messages in Outbox.



3. Select the message you want view.

4. While viewing the message, you can use the following options by pressing the **Menu** soft key. Available options depend on the folder you have opened.
   - **Delete**: Deletes the message.
   - **Reply All**: Sends a reply to the senders and recipients in the **To** field.
   - **Forward**: Forwards the message to other people.
   - **Save to Contacts**: Allows you to save the e-mail address of the sender to the Contacts directory.
   - **Move**: Allows you to move message(s) to other folders.
   - **Mark as Unread**/**Mark as Read**: Allows you to change the message status to read or unread.
   - **Mark for Download**: Allows you to mark the message to download its completed contents from the e-mail server. For details, see page 115.
   - **Options**: Allows you to select a language for reading a message.
   - **Send/Receive**: Sends or receives the e-mail messages.

Downloading a full message

When you connect to your e-mail server or synchronise with your PC, by default, you'll receive first 0.5KB of each new message. The message size includes its attachments. The original messages and attachments remain on the e-mail server or your PC. You can change the message size for receiving when you set up the account.

You can mark the messages that you want to retrieve in full during your next synchronisation or e-mail server connection. On the message list, select the message of which full contents you want to retrieve. Press the **Menu** soft key and select **Mark for Download**. The icon in the Inbox gives you visual indication of message status.

Setting downloading options

You specify your downloading preferences when you set up the account or select your synchronisation options. You can change them at any time:

- Change options for Inbox synchronisation using **ActiveSync** options. For more information, see "ActiveSync Help."
- Change options for direct e-mail server connections in **Inbox** on your phone. Press the **Menu** soft key and select **Options** → **Account Setup**. Select the account you want and change it.

Viewing e-mail attachments

On the message list, messages that have the attachment display with the icon. Open the message from the list. Within a message, attachments are displayed as a list of hyperlinks at the bottom of the message.

To download an attachment, select the attachment in an open message. It is downloaded the next time you synchonise or connect to your e-mail server and send or receive e-mail messages.

To view an attachment, select the attachment in an open message. You can view the attachment in the **Document Viewer** application.

Inserting signatures into e-mail messages

You can specify a signature to be automatically inserted into e-mail messages that you send.

To specify a signature:

1. On the Messaging main screen, select the e-mail account you want.
2. Press the **Menu** soft key and select **Options** → **Signatures**.
3. Select the account for which you want to specify from the **Select an account** field.
4. Select the **Use signature with this account** checkbox.
5. To insert a signature in every e-mail messages when you reply or forward the message, select the **Include when replying and forwarding** checkbox.
6. Enter a signature to insert in the **Signature** field and press the **Done** soft key.

Internet Explorer

Use Microsoft® Pocket Internet Explorer to view Web HTML, cHTML, and WAP pages. You can browse by connecting to an Internet service provider (ISP) or network and browse the Web. To do this, you'll need to create the connection first as described 216.

When connected to an ISP or network, you can also download files and programmes from the Internet.

Opening Internet Explorer

On the Home screen, press the **Start** soft key and select **Internet Explorer**.

Browsing the Internet

1. To connect and start browsing, do one of the following:
   - Press the **Menu** soft key and select **Address Bar**. Enter the web address you want to visit or select **View History** to open the list of the pages you last accessed.
   - Scroll to the page you want to view from the Favourites list.
2. Press the **Go** soft key on the browser to open the associated web page.

   While processing, appears on the top right of the browser.

Navigating the Internet Explorer

The following table helps you browse the Internet easily:

To	Press
scroll through browser items	the Up or Down key, or spin the Navigation key.
select a browser item	.
return to the previous page	.
open the Favourites list	the **Favourites** soft key.
refresh the connection	the **Menu** soft key and select **Refresh**.
view information on the web page	the **Menu** soft key and select **Properties**.
add the current web page to the Favourites list	**Menu** soft key and select **Add Favourite**.

Using the Favourites list

You can store your favourite link while using the Internet Browser and then access them easily. Categorising them enables you to find them more quickly.

Adding a Web page to the Favourites list

1. Go to the page you want to add and press the **Menu** soft key and select **Add Favourite**.

2. Enter a name for the favourite link and the URL of the link.

3. Select a category from the **Folder** field under which you want to save the favourite.

   You can also create a new category. See page 127.

4. Press the **Add** soft key.

Opening a link through the Favourites list

1. On the Internet Explorer screen, press the **Favourites** soft key.

2. Scroll to the link you want to access.

   If the link you want is in the certain folder, open the folder and scroll to the link.

3. Press the **Go** soft key.

Managing Favourites categories

You can create a new category for saving favourite web pages and edit or delete the created categories.

1. On the Internet Explorer screen, press the **Favourites** soft key.

2. On the Favourites screen, press the **Menu** soft key and select **Add Folder** to create a new category.

   Or scroll to the category and press the **Menu** soft key and select **Edit** or **Delete** to edit or delete the selected category.

Deleting a favourite link

1. On the Favourites screen, scroll to the link you want to delete.

   If the link you want is in the certain folder, open the folder and scroll to the link.

2. Press the **Menu** soft key and select **Delete**.

3. Press the **Yes** soft key to confirm the deletion.

Changing Explorer options

You can customise Web browsing options, change the connection settings, and clear memory. On the Internet Explorer screen, press the **Menu** soft key and select **Options**.

The following options are available:

- **General**: You can select whether or not to show images or play sounds on Web pages, view the warnings when you move from a secure web page to a non-secure one, or enable or disable the receiving and sending of cookies. You can also select the language to use.
- **Connections**: You can change the network settings to connect to Internet Explorer. If you select the **Automatically detect settings** checkbox, your phone automatically detects network settings from your service provider.
- **Memory**: You can check the amount of memory currently being used for the Internet Explorer. To clear the memory, scroll to a type of memory and press the **Clear** soft key.

Pocket MSN

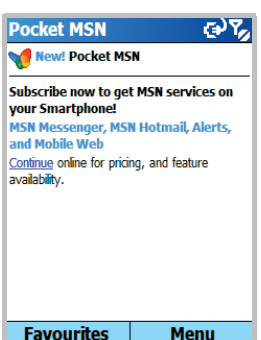
Pocket MSN delivers an always-on experience that enables you to remain available to other online users and always up to date with e-mail, instant messaging (IM) and other online services without maintaining a continuous network connection to the phone.

The connection will be restored when a new message arrives or when you needs the service. In addition, subscribers will receive only updates or changes to their contacts and Inbox — rather than receiving entire lists — when they connect to the service.

You will have one-click access to MSN Hotmail® and MSN Messenger. In addition, Pocket MSN will allow you to wirelessly browse online and receive other MSN services, including MSN Alerts, which include news, sports and weather updates.

In addition to always-on services, you can access, compose and answer Hotmail messages offline, maximising their time when mobile connections aren't available.

To access Pocket MSN, on the Home screen, press the **Start** soft key and select **More** → **Pocket MSN**.



WAP Browser

Using **WAP Browser**, you can browse the WAP service preset by your service provider and other WAP (Wireless Application Protocol) sites on your phone.

Connecting to a WAP site

1. On the Home screen, press the **Start** soft key.
2. Select **More** → **WAP Browser**.
3. To connect and start browsing, do one of the following:
   - Press the **Menu** soft key and select **Home** to access the homepage of your service provider.
   - Press the **Favorites** soft key, select the category which contains the WAP site you want, and then select the WAP site.
   - Press the **Menu** soft key and select **Go To**. Enter the address of WAP site you want to visit and press the **Go** soft key.

4. While you are navigating through the WAP pages, you can use the following options:

To	Press
display the list of your favorites	the **Favorites** soft key.
go to the previous visited page	.
go to the homepage	the **Menu** soft key and select **Home**.
refresh the current page	the **Menu** soft key and select **Refresh**.

Using the Favorites list

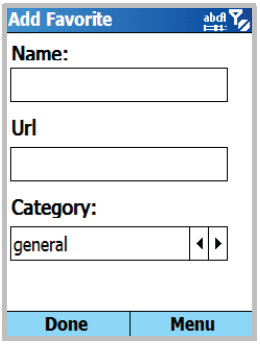
You can store your favourite WAP sites and then access them easily. Categorising them enables you to find them more quickly.

Adding a URL to the Favorites list

1. On the WAP Browser screen, press the **Menu** soft key and select **Add to Favorites**.

2. Enter a name for the category and press the **Save** soft key.

3. Enter a name for the favourite site and the URL of the site.



4. Select a category under which you want to save the favourite.

   You can also create a new category by pressing the **Menu** soft key and select **New Category**.

5. Press the **Done** soft key.

Opening a page through the Favourites list

1. On the WAP Browser screen, press the **Favorites** soft key.

   The list of the categories displays.

2. Scroll to a category from the list and press the **Open** soft key.

3. Scroll to a WAP site you want and press the **Go** soft key.

Managing Favorite categories

You can create a new category for saving favourite WAP sites and edit or delete the created category.

1. On the WAP Browser screen, press the **Favorites** soft key.

2. Press the **Menu** soft key and select **New** to create a new category.

   Or scroll to the category you want, press the **Menu** soft key, and then select **Rename** or **Delete** to edit the selected category.

Deleting a favourite item

1. On the Category screen, scroll to a category from the list and press the **Open** soft key.

2. Scroll to a WAP site you want to delete and press the **Menu** soft key and select **Delete**.

3. Press the **Yes** soft key to confirm the deletion.

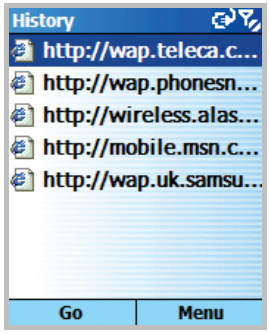
Using the history

The History list keeps track of all of the WAP sites you have visited.

To view the history:

1. On the WAP Browser screen, press the **Menu** soft key and select **View** → **History**.

The History screen displays the recently visited URLs.



2. To open a page in the history, scroll to the page and press the **Go** soft key.

To clear the history:

1. From the History list, press the **Menu** soft key and select **Clear History**.

2. Press the **Yes** soft key. All entries on the History list are cleared.

Viewing push messages

You can access your Push Inbox on the WAP Browser screen and view messages pushed by the WAP server.

To view WAP push messages:

1. On the WAP Browser screen, press the **Menu** soft key.

2. Select **View** → **Push Inbox**.

   The Push Inbox screen opens and shows the message list.

3. Select the message you want to view.

   The Push Message Details screen displays the messages with all the details, such as the contents, the sender's address, time and date, priority, and URL.

4. To access the URL specified in the message, press the **Go To** soft key.

   To move the message in the Push Inbox screen to the Push-Archive screen, press the **Menu** soft key and select **Move to Archive**.

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

To clear WAP push messages:

Press the **Menu** soft key in the Push Inbox screen and select **Delete**.

Setting the WAP options

You can access options for the WAP browser. Press the **Menu** soft key and select **Options**.

- **Settings**: You can view the current connection settings for WAP and set the selected profile as an active profile or edit a selected profile. You can also set the WAP browser to load the homepage when launching.
- **Cache & Cookie**: Viewed pages can be cached for faster downloads and Cookie stores information related to a session. You can select to enable or disable the cache or cookie. You can also specify the size of the cache.

  You can clear information stored in the cache and cookie by pressing the **Menu** soft key and selecting **Clear Cache** or **ClearCookie**.

- **Set as Homepage**: You can change the startup homepage of the WAP browser. Access the page you want and select this option.

MSN Messenger

MSN® Messenger on your phone is an instant messaging programme that lets you:

- see who is online.
- send and receive instant messages.
- have instant message conversations with groups of contacts.

To use **MSN Messenger**, you must have a Microsoft Passport™ account or Hotmail account, or a Microsoft Exchange e-mail account. If you have a Hotmail® or MSN account, you already have a Passport. Once you have obtained either a Microsoft Passport or a Microsoft Exchange account, you are ready to set up your account.

Note: Sign up for a Microsoft Passport account at http://www.passport.com. Get a free Microsoft Hotmail e-mail address at http://www.hotmail.com.

To open MSN Messenger:

On the Home screen, press the **Start** soft key and select **MSN Messenger**.

Setting up

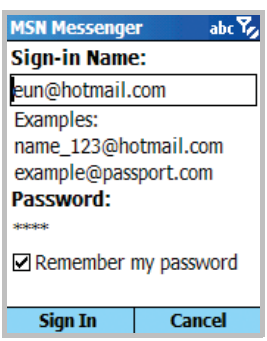
Before you can connect, you must set up the instant messaging account(s) to use. For MSN Messenger Service, you must enter a Microsoft Passport or Hotmail account. For Exchange Instant Messaging, you must enter an Exchange account.

To set up an account and sign in:

1. On the MSN Messenger main screen, press the **Options** soft key and select **Passport Account**.

2. Enter the ID and the password of your Microsoft Passport and Hotmail account. For details, see the online Help.

3. To sign in, press the **Sign In** soft key on the MSN Messenger main screen and enter your e-mail address and password.



4. Press the **Sign In** soft key.

Working with contacts

The MSN Messenger screen shows all of your messenger contacts at a glance, divided into **Online** and **Not Online** categories. From this view, while connected, you can start a chat.

- To see others online without being seen, on the MSN Messenger screen, press the **Menu** soft key and select **Chats**.
- To add a contact, press the **Menu** soft key and select **Add Contact**.
- To delete a contact, press the **Menu** soft key and select **Delete Contact**.
- To view the properties of a contact, press the **Menu** soft key and select **Properties**.
- To block a contact from chatting with you, press the **Menu** softkey and select **Block**.

Chatting with contacts

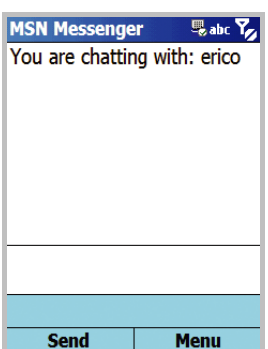
1. To open a chat window, scroll to the contact with whom you want to chat.

2. Press the **Menu** soft key and select **Send Message**.

3. Enter your message in the text entry area at the bottom of the screen, or press the **Menu** soft key and select **My Text** to enter a preset message.

   To invite another contact to a multi user chat, press the **Menu** soft key, select **Invite**, and select the contact you want to invite.

   To switch back to the main window without closing a chat, press the **Menu** soft key and select **My contacts**. To revert back to your chat window, press the **Menu** soft key, select **Chats**, and select the person whom you were chatting with.



4. To end the chat, press the **Menu** soft key and select **End Chat**.

For more information on using MSN Messenger, see the online Help by tapping the **Start** menu → **Help**.

chapter 6

Organiser

This chapter explains how to keep track of contacts and appointments and make a list of tasks you need to do.

Using ActiveSync®, you can synchronise information in Microsoft Outlook or Microsoft Exchange on your PC with your device. You can also synchronise this information directly with a Microsoft Exchange server. Each time you synchronise, ActiveSync compares the changes you made on your device and PC or server and updates both with the latest information. For information about synchronsing Contacts, Calendar, Tasks, and Inbox, see "ActiveSync Help" on the PC.

Contacts

Contacts maintains a list of your friends and colleagues so that you can easily find the information you're looking for, whether you're at home or on the road. Using the device's infrared (IR) port, you can quickly share Contacts information with other device users.

To open Contacts:

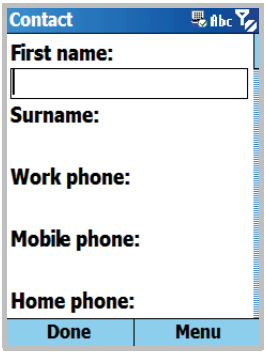
On the Home screen, press the **Contacts** soft key. Or press the **Start** soft key and select **Contacts**. You can view the list of contacts that you have created.

Creating a contact card

You can save a new contact card in the Contacts application or on the SIM card.

Creating a contact card in the phone's memory

1. On the Contacts screen, press the **New** soft key.



2. Enter a name and other contact information.

3. To assign the contact card to a category, scroll to the **Categories** field and select a category. In the contact list, you can display contacts by category.

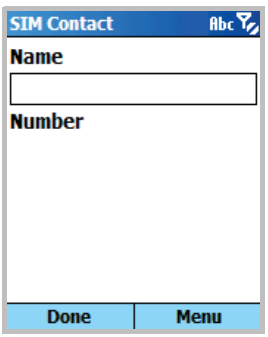
4. You can add a personal ringtone to a contact card. Scroll to the **Custom ring tone** field and select the ring melody you want.

5. When you have finished, press the **Done** soft key to return to the contact list.

Creating a contact card in the SIM card

1. On the Contacts screen, press the **Menu** soft key and select **New SIM Contact**.

2. On the SIM Contact screen, enter the name of the person you want to add.



3. Scroll to the **Number** field and enter the number you want to store.

4. Press the **Done** soft key.

Creating a contact card from the Dialer screen

1. On the Home screen, enter the phone number and press the **Save** soft key.

2. If you are creating a contact card for the first time, skip to step 3.

   To create a new contact card, select **<New Item>**.

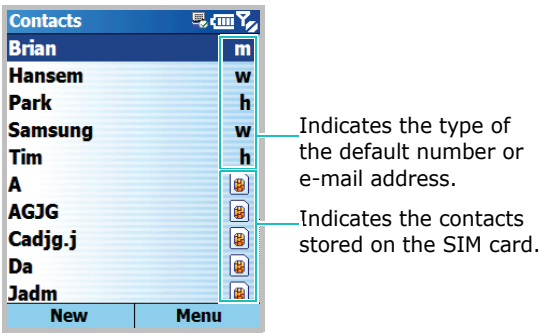
   If you want to add the phone number to the existing contact card, select the contact card.

3. Scroll to the location you want to save the number and press the **Insert** soft key.

4. Fill in the other fields by referring from step 2 on page 136.

Viewing and editing a contact card

When you access the Contacts application, the contact list displays the names of your contacts alphabetically, along with an abbreviation for the primary contact number or E-mail address, such as the person's work phone number (w) or mobile phone number (m).



The following table shows possible abbreviations that might be displayed on the Contacts list and their meanings:

Abbreviation	Meaning
w	work phone
h	home phone
m	mobile phone
w2	work phone 2
e	e-mail
h2	home phone 2
pgr	pager
car	car phone
wfx	work fax number (shown in the summary view)
hfx	home fax number (shown in the summary view)
ast	assistant number
rdo	radio phone number
e2	e-mail 2
e3	e-mail 3
web	web page (shown in the summary view)

Note: All of the contacts saved on the SIM card follow all of the contacts saved in the phone's memory. You can select not to display the contacts stored on the SIM card from the Contacts list.

To open a contact card:

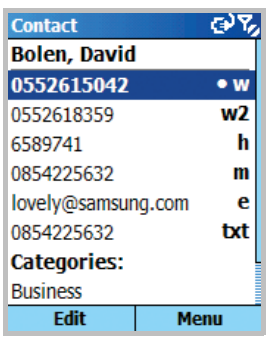
1. On the contact list, select the contact's name you want to view.

   If the contact card is assigned to a certain category, press the **Menu** soft key and select **Filter** and then select the category from the pop-up list.

   The contact list stored in the selected category displays.

2. Select the contact card you want.

   A summary screen is displayed. The highlighted item is the default number or e-mail address you set.



3. On the summary screen:
   - To edit the contact information, press the **Edit** soft key.
   - To send an SMS message to the contact card, scroll to the available number and press the **Menu** soft key and then select **Send SMS Message**.
   - To dial a number, select the number.
   - To send an e-mail, select the e-mail address.
   - To access a web page, select the web page.

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 certain numbers and addresses to be used as the default.

1. On the contact list, select the contact card you want.
2. Scroll to the phone number or e-mail address you want to use as the default.
3. Press the **Menu** soft key and select **Set as Default**.

   In the summary view, you can see the default number marked as dot.

Copying entries between the SIM Card and Contacts

You can copy the contact card or all of contact entries in a specific category to the SIM card or vice versa.

To copy from Contacts to the SIM card:

1. On the contact list, select the contact card stored in the phone's memory.
2. Scroll to the phone number to be copied.
3. Press the **Menu** soft key and select **Save to SIM**.

   The selected phone number is inserted the **Number** field. If necessary, change the contact name.
4. Press the **Done** soft key.

To copy from the SIM card to Contacts:

1. On the contact list, select the contact card stored on the SIM card.

2. Press the **Menu** soft key and select **Save to Contacts**.

3. Select **<New Item>** to creat a new contact card and follow step 2 on page 136.

   Otherwise, select a contact card to which you want to add the number, scroll to the number type, and press the **Insert** soft key. Press the **Done** soft key to save the change.

Beaming a contact card

You can send a contact card in Contacts to another phone via an active infrared connection.

To beam a contact card via an infrared:

1. On the contact list or on the summary screen, press the **Menu** soft key and select **Beam Contact**.

2. Align the IR ports on the devices so that they are unobstructed and within a close range.

3. Select the IrDA-compatible device.

4. Press the **Beam** soft key.

Deleting a contact card

1. On the contact list or on the summary screen, press the **Menu** soft key and select **Delete**.

2. Press the **Yes** soft key permanently delete the contact card.

Note: If you delete a contact card on your phone and synchronise Contacts with your computer, you also delete the contact card in Outlook on your computer.

Calendar

Use **Calendar** to schedule appointments, including meetings and other events. You can check your appointments in one of several views (Agenda, Week, and Month).

To open Calendar:

On the Home screen, press the **Start** soft key and select **Calendar**. You can view the lists of appointments that you have created in the agenda view.

Creating an appointment

1. Press the **Menu** soft key and select **New**.

2. Fill in the fields.
   - **Subject**: Enter a description of the appointment.
   - **Start date**, **Start time**, **End date**, and **End time**: If needed, change the date and time.
   - **All day event**: If checked, the appointment lasts all day.
   - **Location**: Enter the place of the appointment.
   - **Reminder**: Select a time setting for the alarm to remind you of the appointment.
   - **Occurs**: Select a repeat interval to set how often the appointment repeats.
   - **Status**: Select an appropriate appointment status.
   - **Private**: If checked, you can prevent other people from viewing the appointment.
   - **Notes**: Add a note for the appointment.

3. When you have finished, press the **Done** soft key.

Viewing and editing an appointment

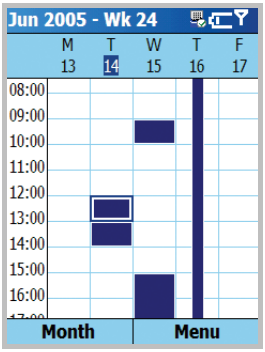
On the Calendar screen, you can view and edit your appointments using the different views: Agenda, Week, or Month. By default, the Calendar first appears in the agenda view, which provides the most detail about your appointment.

Switching to view mode

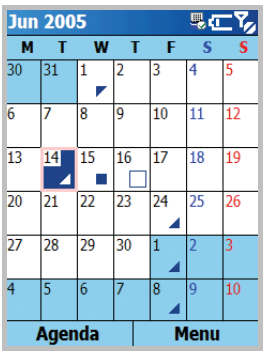
You can change the view mode of the calendar to cycle through the agenda, week, and month view.

In each view, press the **Week**, **Month**, or **Agenda** soft key.

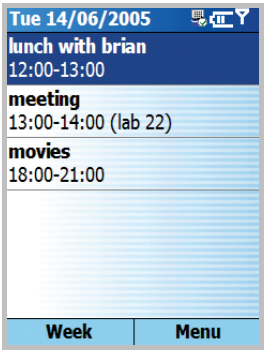
- **Week View**: shows the calendar of your appointments for an entire week.



- **Month View**: allows you to keep track of your monthly schedule and shows which days have appointments scheduled.



- **Agenda View**: shows you the appointments for the selected day. The entries are grouped according to their starting times.



Note: You can customise the Calendar display, such as changing the first day of the week, by pressing the **Menu** soft key and selecting **Options** on the agenda, week, or month view.

Editing an appointment

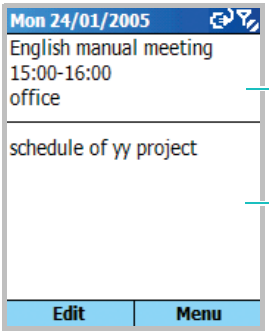
1. Select the calendar view by pressing the **Week**, **Month**, or **Agenda** soft key.

2. In each view, select the date of the appointment by pressing or spining the Navigation key.

   To go to today, press the **Menu** soft key and select **Go to Today**.

   To go to a certain date, press the **Menu** soft key and select **Go to Date**. Enter the date and press the **Done** soft key.

3. Select the appointment you want to view.



Shows summary information for the appointment.

Shows a note, if you created one.

4. Press the **Edit** soft key to edit the appointment and view its details.

5. If you are editing a repeating or continuous appointment, decide if you want to edit all appointments in the series or just the current appointment by pressing the **No** or **Yes** soft key.

6. Edit the appointment information and press the **Done** soft key to save the changes to the appointment and return to the appointment list.

Beaming an appointment

You can send an appointment to another phone via an active infrared connection.

1. On the Calendar screen, open the appointment you want.

2. Press the **Menu** soft key and select **Beam Appointment**.

3. Align the IR ports on the devices so that they are unobstructed and within a close range.

4. Select the IrDA-compatiple device.

5. Press the **Beam** soft key.

Deleting an appointment

1. On the Calendar screen, scroll to an appointment to delete.

2. Press the **Menu** soft key and select **Delete**.

   If you make deleting to a repeating or continuous appointment, you can decide which of the appointments you want to delete all appointments in the series or just the current appointment by pressing the **No** or **Yes** soft key.

3. Press the **Yes** soft key to permanently delete the appointment.

Tasks

Tasks is a convenient place to create task reminders. You can mark a task as completed or delete a task.

To open Tasks:

On the Home screen, press the **Start** soft key and select **More** → **Tasks**.

Creating a task

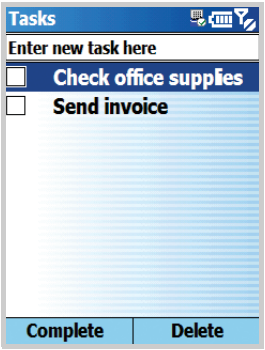
1. Enter your task information in the **Enter new task here** field.

2. When you have finished, press ●.

   To view the created task details, scroll to the task you want and press ●.

Completing a task

When a task is complete, mark it to indicate that the task is done. To mark, scroll to the completed task and press the **Complete** soft key.



To unmark, press the **Activate** soft key.

Deleting a task

1. On the task list, scroll to the task and press the **Delete** soft key.

2. Press the **Yes** soft key to delete the task permanently.

chapter 7

Multimedia

Camera

With the built-in camera on your phone, you can take photos of people or events while on the move. You can view and edit photos. Your phone supports JPEG, GIF, PNG, and BMP pictures.

To open Camera:

Press and hold on the right side of the phone, or press the **Start** soft key on the Home screen and select **Camera**.

Taking photos

1. When you access the Camera mode, the image to be captured appears.

2. Aim the camera module to the subject.

3. Adjust the camera settings:
   - Press the Left or Right key to adjust the brightness of the image.
   - Press the Up or Down key to zoom in or out.
   - Press to flip the image vertically.
   - Press to show the mirror image.
   - Press the **Menu** soft key to access the camera options. See page 152.
   - Use the number keypad to adjust the image quickly. See page 153.

4. Press or to take a photo.

   The photo is saved to either the phone's memory or the memory card, depending on the setting of **Default Storage**. See page 153.

5. To take more photos, press the **Preview** soft key and repeat from step 1.

After the photo has been saved, you can access the following options by pressing the **Menu** soft key:

- **Send**: allows you to send the photo via a multimedia message service and an infrared or a Bluetooth connection. For details, see page 207.
- **Delete**: deletes the photo.
- **Rename**: allows you to change the name of the photo.
- **Set as**: allows you to set the photo as the wallpaper for the Home screen or the caller ID image for a contact card.
- **Properties**: shows you the photo properties.

Setting the camera options

You can customise the camera settings. Once you set the camera settings, the corresponding icons display at the top of the Preview screen.

1. On the Preview screen, press the **Menu** soft key.

2. Adjust any of the following settings:
   - **Shooting Mode**: Change the camera shooting mode.

     Single shot: Takes a normal single shot.

     Multi Shot Speed: Takes a series of stills. Select the shutter speed between each shot in Multi shot mode.

     Mosaic Shot: Takes a series of stills and saves them in one frame. Select whether you want to take pictures automatically or manually in Mosaic shot mode.
   - **Effect**: Select a colour tone for photos.
   - **White Balance**: Adjust a colour balance of the photos. You can make your photo appear warmer or cooler.
   - **Frames**: Select a decorative frame. Select a frame using the Navigation key.
   - **Flash**: Select the flash setting.
   - **Timer**: Select the length of time for the phone to delay before taking a photo.
   - **Record Video**: Switch to Camcorder mode.
   - **Camera Settings**: Change the default settings for taking a photo.

     Photo Size: Selects an image size. The image size is dictated by the resolution. 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.

Photo Quality: Selects an image quality. The better the image quality, the more memory the image consumes.

Viewfinder: Selects a preview mode.

Shutter Sound: Selects a sound when you press the shutter, or .

Default Storage: Selects whether you want to store your images in the phone's memory or on the memory card, if you use one.

Default Name: Changes the default name of photo names.

- **Camera short cut**: Check the functions of the keys you can use in camera mode.

Using the keypad shortcuts

You can use the keypad to customise your camera settings when you are in the preview screen.

- 1 : Switches to Camcorder mode.
- 2 abc : Changes the image size.
- 3 def : Changes the image quality.
- 4 ghi : Changes the shooting mode by changing the number of photos or the layout.
- 5 jkl : Changes the colour tone.
- 6 mno : Changes the white balance.
- 7 pqrs : Selects a decorated frame.
- 8 tuv : Selects the length of delay before taking a photo.
- 9 wxyz : Opens **My Photos**.
- * : Changes the preview mode.
- 0 + : Turns the flash on or off.

Viewing photos

Captured photos are saved in the **My Photos** folder.

Viewing a photo

1. On the Camera screen, select the **My Photos** soft key.

   By default, you can view the photos in Thumbnail view. Thumbnail view displays miniature versions of your photos. To change the thumbnail size, press the **Menu** soft key and select **View Options** → **Small Icon** or **Large Icon**.

   To view the photos on the list, press the **Menu** soft key and select **View Options** → **List View**. You can also sort the photos by name, date, or size by pressing the **Menu** soft key and selecting **Sorting**.

2. Select a photo.

3. Press ● to view the photo on the Full screen. On the Full screen view, you can pan around the photo using the Navigation key. You can access the tools to scale or rotate the photo by pressing the **Menu** soft key and selecting **Option**.

4. Press the Left or Right key to view the next or previous photo.

Viewing a slide show

You can view your photos in as a slide show. A slide show is a sequential presentation of each of the photos in the current album.

To view a slide show:

1. Open a photo and press the **Menu** soft key and select **Slide Show** → **Start**.

   The slide show begins from the selected photo.

2. Press the Menu soft key to access the following options:
   - **Play**: Starts the slide show.
   - **Pause**: Pauses the slide show.
   - **Stop**: Stops the slide show.
   - **Full screen**: Changes the view mode.
   - **Forward**: Shows photos in order.
   - **Reverse**: Shows photos in reverse order.
   - **Left to Right**/**Right to Left**: Changes the direction of the slide show.

3. To end the slide show, press the **End show** soft key.

To change the slide show settings:

1. Press the **Menu** soft key and select **Slide Show** → **Slide Show Setting**.

2. Set the following options:
   - **Slide Show Interval**: select the delay interval between photos.
   - **Continuous Play**: set if the slide show repeats.
   - **Landscape**: change the direction of the slide show.

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

Editing a photo

You can edit photos by changing the image settings, applying a special effect, or adding decoration items.

Note: You can only edit the photos whose size are QCIF (176 * 144).

1. Open the photo you want to edit and press the **Menu** soft key and select **Edit**.

2. If you are asked to change the image size to QCIF, press the **Yes** soft key.

3. On the PhotoEditor screen, press the **Menu** soft key and use. The following options to edit the photo.
   - **Effects**: Select a colour tone for the photo.
   - **Frames**: Select a decorative frame.
   - **Add**: Add an icon or text to the image.

Icon: Select an icon and move it to the place you want by pressing the Navigation key. Press the **OK** soft key to add the icon to the photo.

Text: Enter text to be displayed on the photo. While entering, you can change the colour or size of the text by pressing the **Menu** soft key. After completing the text, press ●. Then you can change the text position by pressing the Navigation key and press the **Menu** soft key and select **Fasten**.

- **Brightness**/**Contrast**: Adjust the image brightness by pressing the Left or Right key and adjust the image contrast by pressing the Up or Down key.
- **Zoom**: Zoom in or out of the image. Move the focus up, down, right, or left by pressing the Navigation key, press the **Zoom** soft key, and select a zoom rate.
- **Rotate**: Rotate the photo to the left or right or view its mirror image.
- **Focus**: Select one of the added items and then replace it with another one and/or change its position.

4. When you have finished, press the **Menu** soft key and select **Save** to save the photo as a new file. Enter a new name and press the **OK** soft key.

   Alternatively, press the **Done** soft key to save the changes to the photo. Press the **Yes** soft key to confirm the saving.

Sending a photo

You can send photos via multimedia messaging service or via an infrared or a Bluetooth connection.

1. Scroll to the photo you want or open the photo.
2. Press the **Menu** soft key and select **Send**.
3. Select a method; **as MMS**, **via IR**, or **via Bluetooth**.
4. If you opt to send the photo in an MMS message, the Send Photo screen opens. Add text and press the **Send** soft key. For details, see page 103.

   If you opt to send the photo via an infrared connection, align your phone's infrared port with the one on the other phone or PC. See page 209.

   If you opt to send the photo via a Bluetooth connection, see page 212.

Setting a photo as wallpaper or caller ID

You can use your photos as wallpaper (background images) for the Home screen or the caller ID image which adds to a contact card as a thumbnail image.

1. Scroll to the photo you want or open the photo.
2. Press the **Menu** soft key and select **Set as**.
3. Select **Home Screen** or **Caller ID**.

Copying and moving a photo

You can copy and move the photos you have taken to other folders.

1. Scroll to the photo you want to or open the photo.

2. Press the **Menu** soft key and select **File** → **Copy to** or **Move to**.

3. Scroll to the folder you want and press the **Done** soft key.

Deleting a photo

1. Scroll to the photo you want to delete or open the photo.

2. Press the **Menu** soft key and select **File** → **Delete**.

3. Press the **Yes** soft key to confirm the deletion.

Recording video clips

You can record video clips. The camcorder produces .3GP videos.

1. From camera mode, press 1 to switch to Camcorder mode.

   The image to be recorded appears.

2. Aim the camera module to the subject.

3. Adjust the camera settings.
   - Press to flip the image vertically.
   - Press to view the mirror image.
   - Press the Up or Down key to zoom in or out on your subject.
   - Press the Left or Right key to adjust the brightness of the image.
   - Press the **Menu** soft key to access the video options. See page 161
   - Use the number keypad to adjust the image quickly. See page 162.

4. To start recording, press . The timer on the top right of the screen shows you the elapsed time.

5. To stop recording before the maximum recording time is up, press the **Stop** soft key.

   The video clip is saved to either the phone's memory or on the memory card, depending on the setting of the **Default Storage**. See page 161.

6. To review the video, press . To record additional video clips, press the **Preview** soft key.

After the video has been saved, you can use the following options by pressing the **Menu** soft key.

- **Send**: Allows you to send the video via a multimedia message service and an infrared or a Bluetooth connection. For details, see page 207.
- **Delete**: Deletes the video.
- **Rename**: Allows you to change the name of the video.
- **Properties**: Shows you video properties.

Setting the video options

You can customise the video settings. Once you set the video settings, the corresponding icons display at the top of the Video Preview screen.

1. On the Video Preview screen, press the **Menu** soft key.

2. Adjust any of the following settings:
   - **Effect**: Select a colour tone for videos.
   - **White Balance**: Adjust a colour balance of the videos.
   - **Flash**: Select the flash settings.
   - **Timer**: Select the length of time for the phone to delay before recording a video.
   - **Take Photo**: Switch to Camera mode.
   - **Camcorder Settings**: Change the default settings for recording a video.

     Recording Mode: Select the recording time limit. If you selected **No Limit**, the phone records a video to the limit of the memory remaining.

     Video Size: Selects an image size.

     Video Quality: Select an image quality.

     Viewfinder: Select a preview mode.

     Audio Record: Select whether or not you record audio with a video clip.

     Default Storage: Select whether you want to store your video clips in the phone's memory or on the memory card, if you use one.

     Default Name: Change the default prefix of video names.

Using the keypad shortcuts

You can use the keypad to customise your video settings when you are on the Video Preview screen.

- 1 : switches to Camera mode.
- 2 abc : changes the image size.
- 3 def : changes the image quality.
- 4 ghi : switches to the recording mode.
- 5 jkl : changes the colour tone.
- 6 mno : changes the white balance.
- 7 pqrs : mutes or unmutes audio.
- 8 tuv : selects the length of delay before starting recording a video.
- 9 wxyz : opens **My Videos**.
- # : changes the preview mode.
- 0 + : turns the flash on or off.

Playing a video clip

1. On the Camcorder screen, select **My Videos**.

   By default, the display shows you view video clips in Thumbnail view. Thumbnail view displays miniature versions of your videos.

2. Select the video clip you want.

   Samsung Media Player opens and the video plays.

3. Use the following options during playback:

- To adjust the volume, press / or the Up or Down key.
- To pause or resume playback, press .

For details about Samsung Media Player, see page xx.

Sending a video clip

You can send video clips via multimedia messaging service and an infrared or a Bluetooth connection.

1. On the Video Player screen, scroll to the video clip you want.

2. Press the **Menu** soft key and select **Send**.

3. Select a method: **as MMS**, **via IR**, or **via Bluetooth**.
   - If you opt to send the video clip in a multimedia message, the Send Video screen opens. Add text and press the **Send** soft key. For details, see page xx.

Note: You cannot use video clips whose file size are larger than 300 KB or whose image size are QVGA.

- If you opt to send the video clip via an infrared connection, see page xx.

SAMSUNG Media Player

With Samsung Media Player, you can play most common music and movie files, such as WMV, WMA, MP3, 3GP, MP4, AAC, AACT, and OGG files.

To play media files on your phone, you must copy files to the phone's memory or the memory card. For details for copying media files, see page xx.

To open Samsung Media Player:

From any screen, press and hold . You can also press the **Start** soft key from the Home screen and select **More** → **Samsung Media**.

Preparing media files

The Windows Media Player of your phone can play various file formats, such as, .asf, .wma, .wmv, and .mp3. You can copy media files from your desktop computer to the phone using the Windows Media Player or ActiveSync. You can also copy media files using the memory card.

Note: If you have stored too many files in memory, the operation speed of the system slows down. Using an optional memory card helps you clear up this problem and lets you enjoy more music files.

About DRM, licenses, and protected files

Some digital media files, such as songs downloaded from online stores, are encrypted to prevent the files from being unlawfully distributed or shared. Content providers use a technology called Digital Rights Management (DRM), to encrypt the files. During the encryption process, the content provider creates a license which specifies how and when the file can be used.

For example, a content provider could create a license that allows you to play a certain file on your computer, but not on your phone. Or, a license that allows you to play a certain file on your phone, but only for a month, or perhaps only a certain number of times. Files that have licenses associated with them are called protected files.

If you want to copy a protected file from your desktop computer to your phone, use the desktop Media Player to synchronise the file to your phone. This will ensure that the license is copied along with the protected file. In the desktop version of Windows Media Player 10 or later, you can use the **Sync** feature to automatically copy your audio files, video files, and playlists to your phone every time you connect.

To copy media files using the ActiveSync:

1. Connect your phone to a computer and start synchronisation by referring to page 55.

2. Open the file directory on the phone by clicking **Explore** from the Microsoft ActiveSync window.

3. Double-click **My Smartphone** and drag the media files you want to copy in the sub-folder in the My Smartphone window.

   Windows Media Player automatically retrieves the media files from the folder where the files are copied and you can search them from the Library screen. If the media files do not appear in Library, you can manually update the library by pressing the **Menu** soft key and selecting **Update Library**.

Using libraries

A library is a file list provided by SAMSUNG Media Player to retrieve media files in the phone's memory.

The Library screen contains categories, such as My Music, My Videos, My TV, and My Playlists. Using the Library screen, you can sort your content by criteria, such as artist name, album title, or genre.

On the Library screen, you can use the following options by pressing the **Menu** soft key:

- **Queue Up**: Adds the selected file to the end of the current playlist.
- **Delete from Library**: Deletes the selected file from the library.
- **Library**: Allows you to select the library that you want to view (for example, the library of files stored on your phone or on the memory card).
- **Update Library**: Adds new files to the library by searching your phone or a memory card. Press the **Search** soft key to start searches for new media files and add them to the corresponding library. When adding files has been finished, press the **Done** soft key.

- **Open File**: allows you to find and play files that are stored on your phone or a memory card, but those are not in the library.
- **Properties**: displays information about the selected file.
- **Done**: closes the Library screen and displays the player screen.

Playing Media files

1. From the Samsung Media Player screen, press the **Menu** soft key and select **Library**.

2. Scroll to the library you want to play and press the **Play** soft key.

3. During playback, use the following options:
   - Press ● to pause or resume playback.
   - Press the Right key to move forward in a file.
   - Press the Left key to move backward in a file.
   - Press the **Menu** soft key and select **Shuffle**/**Repeat** to activate Shuffle mode and chagne the repeat mode.
   - Use the alphanemeric keys to quick control Samsung Media Player. You can assign a control function to each of them; press the **Menu** soft key and select **Player Settings** → **Buttons**.

Setting up a play list

You can create a play list with your favourite media files.

Creating a play list

1. From the Samsung Media Player screen, press the **Menu** soft key and select **Library** or **File system**.

2. Select a library or folder and find the media file you want.

3. For a library, press the **Menu** soft key and select **Add to Now Playing**.

   For a file directory, select the files and press the **Add** soft key.

4. Repeat from step 1 to add more files.

5. When you have finished adding files, press ⇧ to return to the player screen.

6. Press the **Now Playing** soft key to access the play list.

7. To start playback, press the **Play** soft key.

   To save the playlist, press the **Menu** soft key and select **Save Playlist**.

Editing a play list

- To add files to the play list, press the **Menu** soft key and select **Add** → an adding option.
- To remove files from the play list, press the **Menu** soft key and select **Remove** → a removing option.

- To change the play order, press the **Menu** soft key and select **Change order**.
- To sort the play list by a category, such as title, artist, album or file name, press the **Menu** soft key and selec **Sort** → a category.

Changing player settings

You can change the setting for Samsung Media Player. From the player screen, press the **Menu** soft key and select Player Settings.

- **General**: Allows you to set Samsung Media Player to pause playback for another program, to resume playback after a phone call, or to turn itself off after a specified time.
- **Display**: Allows you to set Samsung Media Player to display specified media infomation, elapsed time, or lyrics during playback.
- **Sound**: Allows you to set the equalizer, sound balance, speaker mode, or gradual volume increasement.
- **Video**: Allows you to set the video display for movie playback.
- **Buttons**: Allows you to set up shortcut keys to quickly control playback.
- **Skins**: Allows you to change the appearance of the palyer screen.
- **Network**: Allows you to set up the network parameters for accessing a streaming service.
- **Memory Status**: Shows you memory information
- **Reset Settings**: resets all of your settings to their default status.

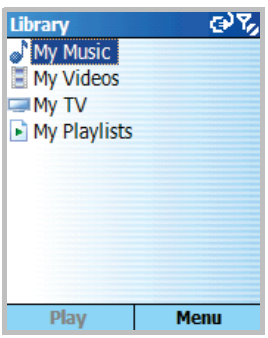
Windows Media player

Your phone is equipped with Microsoft Windows Media Player 10. With Windows Media Player, you can play Windows Media Audio, Windows Media Video, and MP3 audio files that are stored on your phone, a memory card, or on the Web.

To open Windows Media Player:

On the Home screen, press the **Start** soft key and select **More** → **More** → **Windows Media**.

The Library screen opens. For more information on using libraries, see page xx.



Copy media files using the desktop player

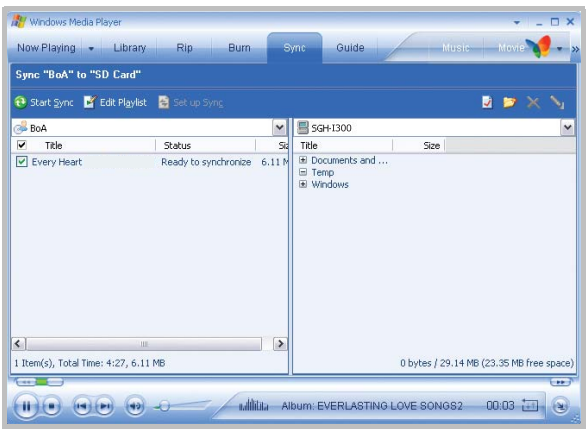
In addition to Active Sync (page xx), you can the desktop player to copy media files. Using the desktop player ensures that licenses are copied with protected files. See page 165.

Make sure that you have Windows Media Player 10 or later versions on your desktop computer. Depending on the version of your desktop player, the procedure to copy files may vary.

1. Connect your phone to the desktop computer and start synchronisation using a USB cable.

2. Open Windows Media Player on the desktop computer.

3. Click the **Sync** tab.



4. Click the **Edit Playlist** icon.

5. Select the media files you want to synchronise from the left pane of the window.

6. Click **OK**.

7. Select the saving location from the right pane.

8. Click to select the quality level you want and click **OK**.

   The selected files are converted and copied to the location you selected in step 7.

Playing music and video files

If you have copied media files in your phone's memory or memory card, you can play them from Media Player.

To play media files from a library:

1. On the Library screen, if necessary, press the **Menu** soft key and select **Library** and then select the memory that you want to use.

2. Select a category, such as **My Music** or **My Video**.

3. Scroll to the library you want to play and press the **Play** soft key.

Note: If the file does not appear in a library, on the Library screen, press the **Menu** soft key and select **Open File**. On the File System screen, select the file you want to play.

4. The player screen displays and the selected file plays. Use the following options during playback:
   - To adjust the volume, press the Up or Down key. You can view the volume level on the screen.
   - To move backward in a file, press and hold the Left key.
   - To move forward in a file, press and hold the Right key.

- To access the next file, press the Right key.
- To access the previous file, press the Left key.
- To pause or resume playback, press ●.
- To move forward in a file, press and hold the Right key.
- To move backward in a file, press and hold the Left key.
- To play the files in the playlist randomly or repeatedly, press the **Menu** soft key and select **Shuffle**/**Repeat**.
- To stop playback, press the **Menu** soft key and select **Stop**.

To play media files on a network:

1. On the Player screen, press the **Menu** soft key and select **Open URL**.

2. Enter a URL in the **URL** field.

   Or scroll to a URL that you have used in the **History** field.

3. Press the **OK** soft key.

Note: To play streaming media, you must be connected to a network. For more information on creating a remote connection between your phone and a network, see page xx.

Setting up a playlist

You can add media files on the Library screen to a temporary playlist. It lists the currently playing file, as well as any files that have been queued up to play next.

Creating a playlist

1. On the Library screen, select the category you want and scroll to the file you want to play.

   If the file does not appear on the list, press the **Menu** soft key and select **Update Library**. You can also select **Open File** to display the File System screen and search the files you want.

2. Press the **Menu** soft key and select **Queue Up**.

3. Repeat from step 1 to add more files.

4. Press to return to the player screen.

5. Press to start playing the files.

To view the play list:

On the player screen, press the **Now Playing** soft key. You can use various options by pressing the **Menu** soft key.

Editing the playlist

- To change the play order, press the **Menu** soft key and select **Move Up** or **Move Down**.
- To delete the selected files, press the **Menu** soft key and select **Delete from Playlist**.
- To clear the playlist, press the **Menu** soft key and select **Clear Now Playing**.

Changing the Window Media Player settings

You can customise the appearance and functionality of Windows Media Player. On the player screen, press the **Menu** soft key and select **Options**.

You can use the following options:

- **Playback**: Select the options for playback. You can select the way time is displayed on the player screen, or whether or not to pause playback when you lunch another programme, and resume playback after a phone call.
- **Audio**/**Video**: Select the viewing options for playing videos, such as shrinking oversized videos and playing videos in a full screen.
- **Network**: Change network connection settings to be used for playing streaming videos.
- **Library**: Select whether the player screen or the Library screen is displayed when you open Windows Media Player.
- **Skins**: Change the appearance of the player screen by selecting a new skin.
- **Buttons**: Assign Windows Media Player functions to the keys on your phone to quickly control playback without having to use the menus.

SRS WOW XT Settings

SRS WOW XT for Mobile is a suite of 3D audio, bass enhancement, and mono and stereo speaker technologies designed to improve the quality of mobile audio, e g cellular phone sound quality.

WOW XT for Mobile provides great audio performance and eliminates many of the physical limitations of small devices, allowing even tiny speakers to deliver incredibly deep, rich bass tones and crisp, clear dialog.

To enjoy music with high audio quality, enable the WOW XT feature before playing media files.

1. On the Home screen, press the **Start** soft key.
2. Select **More** → **More** → **Utilities** → **WOW XT Settings**.
3. On the SRS WOW XT screen, select **On** in the **SRS On/Off** field.
4. Select the type you want in the **SRS EQ** field.
5. Press the **Done** soft key.

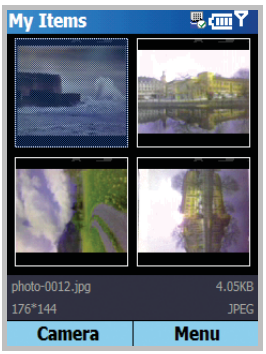
My Items

This programme allows you to access all of the photos, sounds, and videos stored in your phone's memory.

To open My Items:

From the Home screen, press the **Menu** soft key and select **More** → **My Items**.

By default, the **My Photos** folder opens.



Opening an item folder

Press the **Menu** soft key and select **Mode** → **My Photos**, **My Sounds**, or **My Videos**. To view all items, select **All**.

- For viewing photos, see page xx.
- For playing videos, see page xx.
- For playing sounds, ??.

FunBox

Using **FunBox**, you can download Java applications, such as games and tools specifically designed for mobile phones, to your phone through the Internet. Once you have downloaded the Java applications, they are added to the FunBox main screen.

To open FunBox:

On the Home screen, press the **Start** soft key and select **More** → **FunBox**.

Downloading Java games and utilities

The WAP Browser application is used to browse and download necessary files to install Java applications from the Internet.

1. On the FunBox main screen, press the **Download** soft key.

   The WAP Browser application opens.

2. Find the Java link you want.

3. Select a MIDlet you want to download.

4. When the confirmation message appears, press the **Yes** soft key to install the application.

   The detailed information about the application you want to install displays and the confirmation message appears.

5. Press the **Install** soft key to install the application.

6. When the installation is finished, the application is saved in the FunBox main screen and the phone launches the application.

Opening a Java application

1. On the FunBox main screen, scroll to the application you want to open from the list.

2. Press the **Menu** soft key and select **Launch**.

Using the Java options

On the Applications screen, press the **Menu** soft key to access the following options:

- **Download**: Download the Java application to your phone. See 178.
- **Launch**: Launch the selected application.
- **Information**: Show the information about the selected application, such as the size, version, vender, and the security options.
- **Remove**: Remove the selected application.
- **Update**: Update the selected application.
- **Application Settings**: Select whether or not you continue opening an application when you receive information from other applications while running an application.
- **Exit**: Exit the selected application.

chapter 8

Extra programmes

Games

Your phone includes fun games, such as Jawbreaker and Solitaire in the **Games** application.

To open Games:

On the Home screen, press the **Start** soft key and select **More** → **More** → **Games**.

Jawbreaker

The object of Jawbreaker is to clear out all the balls. The rule is that you may only clear out adjacent same-coloured balls. The score depends on clear out every balls.

Playing the game

1. On the Start screen, select **Jawbreaker**.
2. Navigate to the ball you want to clear and press ●.

   The group will be outline, and the score for that selection will be shown.
3. Press ● to accept that selection.

Press the **Menu** soft key and select **Statistics** to view statistics or information about the game.

You can customise the game options such as play sounds, game style, or ball colour by pressing the **Menu** soft key and selecting **Options**.

Solitaire

The object of Solitaire is to use all the cards in the deck to build up the four suit stacks in ascending order, beginning with aces.

Playing the game

1. On the Start screen, select **Solitaire**. Press the **Menu** soft key and select **New Game**. The game starts.

2. Move any aces on the seven stacks to the four card spaces at the top of the screen and then make any other available plays.

   To move cards, press the number or character of the card to move and then press the number or character of the stack to which you want to move the card.

Note: Pressing the Up key moves a card to one of the four stacks in the upper right corner of the screen if it belongs there.

3. When you have made all available plays, press the **Draw** soft key to turn over cards.

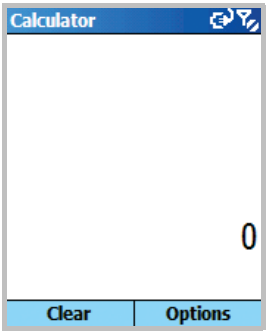
Calculator

The calculator allows you to perform general mathematical functions, such as addition, subtraction, multiplication, and division.

To use calculator:

1. On the Home screen, press the **Start** soft key.

2. Select **More** → **More** → **Accessories** → **Calculator**.



3. Enter the numbers and perform calculations by pressing the Navigation key or #.

   You can also add a decimal point by pressing *.

   To clear the last digit entered in a multi digit entry, press ⇦ or press the **Clear** soft key.

4. To execute the calculation, press ●.

Voice Notes

In any programme where you can write on the screen, you can also quickly capture thoughts, reminders, and phone numbers by recording a message. In **Voice Notes**, you can create a recording.

To open Voice Notes:

From any screen, press . You can also press the **Start** soft key on the Home screen, and select **More** → **Voice Notes**.

Recording a voice note

1. Hold your phone's microphone near your mouth or other source of sound.

2. Press the **Record** soft key to make your recording.

   The numbers on the centre of the screen indicate the elapsed time.

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

   Your phone automatically saves the voice note labelled with the title and lists the notes on the All Notes screen.

   You can also change the title of the note by pressing the **Menu** soft key and selecting **Rename**.

Reviewing a voice note

1. On the All Notes list, select the note you want to review.

   Recording is playing.

   You can adjust the sound volume by pressing on the left side of the phone.

2. Press the **Stop** soft key to stop playing.

Setting a voice note as the ringtone

1. On the All Notes list, scroll to a voice note.

2. Press the **Menu** soft key and select **Set as Ringtone**.

3. Press the **OK** soft key.

Voice Assist

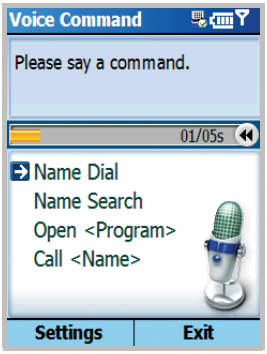
Voice Assist is a speech recognition application that enables you to launch applications or dial contacts by speaking an associated command into the microphone.

Voice tips

- Speak clearly, naturally, and continuously. Try to avoid hesitations, such as “er” and “um”, at the beginning and in the middle of phrases.
- If you are in a very noisy environment, use the headset. If you are not using the headset, address the internal microphone at the bottom of the phone at a distance of about 10-20 cm from your mouth.
- Speak when Voice Assist is ready to listen, as indicated by the progress bar and after an audible beep.
- If Voice Assist doesn’t clearly hear what you said, try repeating your voice command. If problems persist, try the Sensitivity setting to optimise the speech engine for your voice.

To open Voice Assist:

On the Home screen or in an application, press and hold . You can also press the **Start** soft key on the Home screen and select **More** → **Voice Assist**. The Voice Command screen displays.



Note: If you select the **Voice Active Mode** checkbox at **Settings**, on the left side of the phone is associated with Voice Assist, so that you can start Voice Assist by simply pressing .

When the phone prompts you with displaying "Please say a command", say one of the commands:

- Name Dial
- Name Search
- Open <Program>
- Call <Name>

Dialling a number

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

Note: To use the Name Dial feature, the name that you want to dial must be in **Contacts** or the SIM card. For details about Contacts, see page 134.

1. On the Voice Command screen, after a voice prompt followed by a short beep, say "Name Dial".

2. On the Name Dial screen, after a voice prompt followed by a short beep, say a name in the following manner: "<First Name + Last Name>"

   If Voice Assist does not hear anything until the progress bar moves to the right end of the bar, you will be asked to repeat the command twice again.

Note: You can also say "Call" and then a person's name stored in **Contacts** or on the SIM card to make a call by voice command; for example, say "Call James Bond." This will save you a step for name dialling.

3. Your phone recognises your command and displays a list of one more names in the confirmation screen.

Note: If **Quick Launch** is checked at **Settings**, this confirmation step will be skipped and the best recognition result will be executed immediately.

4. Scroll to the item you want to open and press the **Ok** soft key.
   - If the item you want to open is the only item in the list OR is already highlighted, then press the **Ok** soft key OR wait until the time slider moves at the right end for immediate execution.
   - If the item you want to open is not highlighted, say "**Previous**" or "**Next**" to scroll to it. You can also press the Navigation key to move around the result list.

5. If the selected name has more than one number, the phone asks which number you want to dial. Repeat step 4 to select a number category.

6. If you press the **Ok** soft key or say nothing for 3 seconds, the phone dials the currently selected number.

Searching for contacts

You can retrieve contact information for any name in **Contacts** or the SIM card by saying that name. Your phone displays the information.

1. On the Voice Command screen, after a voice prompt followed by a short beep, say “Name Search”.

2. On the Name Search screen, after a voice prompt followed by a short beep, say a name of the contact in the following manner: “<First Name + Last Name>”.

   If Voice Assist does not hear anything until the progress bar moves to the right end of the bar, you will be asked to repeat the command twice again.

3. Your phone recognises your command and displays a list of one more names in the confirmation screen. Follow step 4 on page 188.

Note: If **Quick Launch** is checked at **Settings**, this confirmation step will be skipped and the best recognition result will be executed immediately.

4. If you press the **Ok** soft key or say nothing for 3 seconds, the phone displays the contact card.

Opening applications by voice

You can use your voice to launch applications that exist in **Start** menu.

1. On the Voice Command screen, after a voice prompt followed by a short beep, say an application name in the following manner: “Open <Application Name>”.

2. Your phone recognises your command and displays a list of one more applications in the confirmation screen. Follow step 4 on page 188.

Note: If **Quick Launch** is checked at **Settings**, this confirmation step will be skipped and the best recognition result will be executed immediately.

3. If you press the **Ok** soft key or say nothing for 3 seconds, the phone automatically opens the currently selected application.

Customising Voice Assist settings

You can customise the various settings for using Voice Assist by pressing the **Settings** soft key on the Voice Assist main screen.

- **Timeout**: Adjust the maximum time to listen to your command.
- **Voice Guides**: Check for more comprehensive voice prompts and responses.
- **Quick Launch**: Check to skip the confirmation.
- **Voice Active Mode**: Check to assign **Voice Assist** to .

  After changing the **Voice Active Mode** checkbox and pressing the **Done** soft key, you will be asked to confirm your change as the phone will need to be rebooted.

  Once **Voice Active Mode** is activated, you can launch the Voice Assist application by pressing .
- **Sensitivity**: Adjust the sensitivity in which your phone recoginise the current voice and noise. Change the setting if your phone has difficulty recognising a name, application, or command.

Time Manager

Time Manager enables you to use various clock features provided by your phone. You can use the phone as the alarm clock, world time clock, D-Day clock, and stopwatch.

To open Time Manager:

On the Home screen, press the **Start** soft key and select **More** → **More** → **Tools** → **Time Manager**.

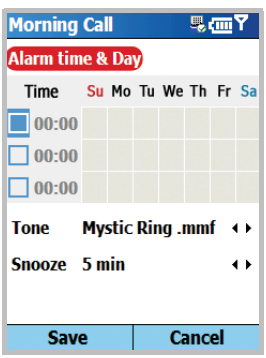
Setting an alarm

You can use the alarm clock to set a wake up alarm or set an alarm to remind you of an appointment once or everyday. On the Time Manager screen, select **Alarm**.

To set a wake-up alarm:

1. On the Alarm screen, select **Morning Call**.

2. Put a check mark and enter the time for the wake-up alarm to ring in the **Time** field.



You can make up to 3 wake up alarm.

3. Select the days when the wake-up alarm rings in the week viewer.

4. Select a melody for the alarm in the **Tone** field.

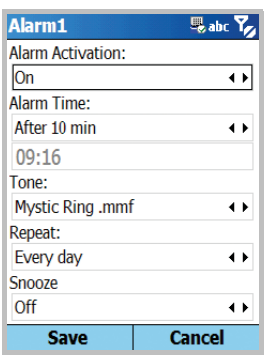
5. Select a time interval to resume the alarm after the alarm is stopped in the **Snooze** field.

6. Press the **Save** soft key.

To set a reminder:

1. On the Alarm screen, select one of **Alaem 1** to **Alarm 4**.

2. Set each alarm option.



3. Press the **Save** soft key.

To set a reminder for everyday:

1. On the Alarm screen, select **Daily Alarm**.
2. On the AlarmSetting screen, select the time in the **Alarm time** field.

   If you want to set the time manually, select **Custom time** and enter the time you want.
3. Select a melody for the alarm in the **Tone** field.
4. Press the **Save** soft key.

   When alarm rings, press the **OK** soft key.

Viewing world clock

The world map enables you to check the time and date in many cities all over the world.

1. On the Time Manager screen, select **World Clock**.

   In the World Clock screen, GMT (Greenwitch Mean Time) displays on the top line.

2. Select the clock you want.

3. Press the Left or Right key to move the time zone line.

To apply daylight savings to the currently selected time zone, select **Summer Time**.

To set the displayed world clock as your Home screen image, select Display in **Home Screen**.

4. Press the **Save** soft key to save the selected time zone.

Setting a D-day clock

You can set a count down clock to check how many days and hours remains or have passed for a specific day.

1. On the Time Manager screen, select **D-Day**.
2. Press the **New** soft key.
3. Enter the title of the event in the **Title** field.
4. Set the date you want to count from in the **Date** field.
5. Set the number of days you want to count and set whether the d-day is ahead or after the date you set in the **Count Date** field.
6. Select **Alarm** to set an alarm for the D-Day clock.
7. Press the **Save** soft key.

Using a stopwatch

You can measure elapsed time interval.

1. On the Time Manager screen, select **Stop Watch**.
2. Press the **Start** soft key to start the timer.
3. Press the **Record** soft key to check an interval.

   You can do this step for a total of 100 intervals.
4. Press the **Stop** soft key to stop the stopwatch.

Document Viewer

Document 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. Simply by using the Navigation key, you can scroll your document sideways or vertically to view larger pages on a smaller screen and zoom in or out to view intricate details or overviews.

To view a document, you must transfer documents from a PC. If you have installed the memory card, you can view the files stored in it.

By default, **Document Viewer** supports most common desktop document formats, such as .doc, .xls, .ppt, .pdf, .mhtml, and .wmf.

Note: Some document formats, such as .xls and .ppt, are not transformed into their corresponding file types when you copy them to your phone by using ActiveSync, so that you cannot view the documents in the directory. To avoid this case, change the conversion setting on the ActiveSync screen on your computer. Click **Tools** → **Options** → **Rules**, select the **Conversion Settings** button, and uncheck **Convert files when synchronized**, **copied or moved**.

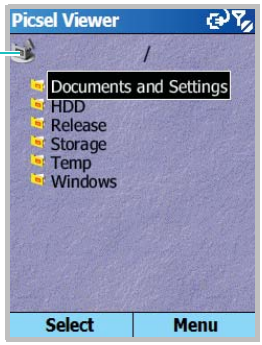
To open Document Viewer:

On the Home screen, press the **Start** soft key and select **More** → **More** → **Tools** → **Document Viewer**.

Viewing a document

On the Document Viewer screen, the file directory of the phone display. The folders which contain further documents are shown in yellow.

Go back to the upper level directory.



1. Select the folder containing the document you want.

   If you have installed a memory card, **Storage Card** appears to allow you to access files on the memory card.

2. Select the document you want to open.

   Documents look like sheets of paper in various other colours, depending on their types as follows:

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

Options in a document view

You can use the following options while viewing a document.

- **Rotating**: To rotate the screen 90 degrees clockwise, press the **Menu** soft key and select **Page** → **Rotate**.
- **Zooming**: To zoom in or out, spin the Navigation key, or press the **Menu** soft key and select **Page** → **Zoom in** or **Zoom out**.
- **Fitting to width**: To fit the width of the page on screen, press ● or press the **Menu** soft key and select **Page** → **Fit to width**.
- **Panning**: To pan to a different part of the document, press the Navigation key to move to the direction you want.
- **Navigating**: To navigate the pages, press the **Menu** soft key and select **Page** → **Next Page**, **Previous Page**, **First Page**, or **Last Page**.

Keypad shortcuts

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

- 1 : navigates to the previous page.
- 2 abc : pans up.
- 3 def : navigates to the next page.
- 4 ghi : pans left.
- 5 jkl : rotates the screen 90 degrees clockwise.
- 6 mno : pans right.
- 7 pqrs : navigates to the first page.

- 8 tuv : pans down.
- 9 wxyz : navigates to the last page.
- * : zoom in.
- 0 + : fits to the width of the page.
- # : zooms out.

Viewing History

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

To open the history view, press the **Menu** soft key and select **History**.

To access any of the documents from the history view, select the small picture of that page.

Note: Documents will remain on the history list until a certain number of days have passed. You can control this period in the option. See page 199.

Viewing the Favourites list

For your favourite document, you can keep a list in Favourites. This looks similar to the history view but includes only those pages you have explicitly added. Before viewing the Favourites list, first you must add the pages to the Favourites list.

To add the current page to the Favourites list:

1. Press the **Menu** soft key and select **Favourites** to access the Favourites list.

2. Press the **Add**/**Delete** soft key and select **Add**.

3. Enter the name you want and then press the **OK** soft key.

To open a favourite page:

Access the Favourites list and select the thumbnail of the page you want.

Changing Viewer settings

On the Document Viewer screen, press the **Menu** soft key and select **Settings**. The following options are available:

- **Preferences**: Set the period after which the thumbnail pictures and descriptions of pages are purged from the history memory. To clear the History list, select **Clear History**.
- **Files**: Select the file types which can be displayed on the Document Viewer screen. Select **All** to select all file formats.
- **Help**: Shows the Help screen for using Document Viewer.
- **About**: Shows information about the developers of Document Viewer.

File Manager

The **File Manager** application allows you to open an explorer window similar to a desktop Windows based system. The explorer window allows you to navigate through your phone to locate desired folders and files.

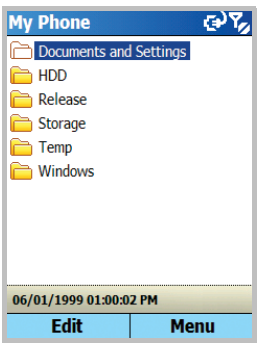
You can also quickly manage, delete, copy, or edit any files and folders on your phone. You can create new folders.

Note: If you turn off the phone after storing some files in any folders, except for the **Storage** folder, using ActiveSync, all of the files in those folders will be deleted. Store important files in the **Storage** folder to prevent them from being deleted.

To open File Manager:

1. On the Home screen, press the **Start** soft key.
2. Select **More** → **More** → **Tools** → **File Manager**.

   You can see a list of the folders in the phone's memory.



3. Scroll to the folder that you want to view.

4. Select an item, to open it.

Managing files

To use file management options, such as **Copy**, **Delete**, or **Paste**, **Rename**, press the **Edit** soft key.

You can use the following options while using the **File Manager** application:

- To create a new folder, press the **Edit** soft key and select **New Folder**.
- To add a folder to a Favourites list, press the **Menu** soft key and select **Favorites** → **Add current file**/**folder**.
- To send a file, press the **Menu** soft key and select **Send** → **via Infrared**, **via Bluetooth**, or **Send MMS**.
- To change the order of files or folders, press the **Menu** soft key and select **Sorting** → a category.
- To refresh the list of the folders or files, press the **Menu** soft key and select **Refresh**.
- To return to the first level directory, press the **Menu** soft key and select **Folder Tree 1**.

SIM Manager

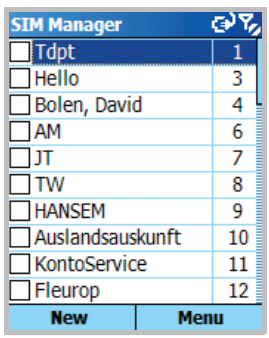
The **SIM Manager** application enables you to view the contact cards stored on the SIM card and to copy the contact(s) from the SIM card to the contact list on your phone. You can also create a new contact card in the SIM card, edit, and delete the contact card.

Viewing SIM contacts

1. On the Home screen, press the **Start** soft key.

2. Select **More** → **More** → **Tools** → **SIM Manager**.

   The contact list displays on the SIM Manager screen.



3. From the SIM contact list:
   - To create a new entry, press the **New** soft key.
   - To register the phone number and name on the SIM card as the own number, press the **Menu** soft key and select **Own Number**.

- To view and use service numbers preset by your service provider, press the **Menu** soft key and select **SDN**.
- To view the amount of the contacts, SMS messages, and CB messages stored on the SIM card, press the **Menu** soft key and select **Memory Status**.
- To refresh the SIM contacts, press the **Menu** soft key and select **Refresh**.

Copying contacts to the Contacts application

You can copy a contact or all contacts stored on the SIM card to the Contacts application.

1. On the SIM Manager screen, select the checkbox next to the contact name you want to copy to your phone.

   If you want to copy all contacts, press the **Menu** soft key and select **Check** → **Check All**.

2. Press the **Menu** soft key and select **SIM Tool** → **Copy to Contacts**.

3. To change the number category, press the **Menu** soft key and select **Change (M/H/W)**.

4. Press the **Copy** soft key.

5. Press the **OK** soft key.

6. To verify that your contacts have been copied to your phone, go to **Contacts** and search for the added contacts.

Using the SIM Manager options

On the SIM Manager screen, press the **Menu** soft key and select **SIM Tool**. The following options are available.

- **View**: shows the selected SIM entry.
- **Edit**: allows you to edit the selected entry.
- **Delete Entries**: allows you to delete the selected entry(ies).
- **Dial**: dials the number in the selected entry.
- **Send SMS**: sends the SMS message using the number in the selected entry.
- **Copy to Contacts**: copies the selected entry(ies) to the Contacts application.
- **Beam**: allows you to send the selected entry via an infrared or a Bluetooth connection.

Using the SMS Tool options

Sometimes, text messages may be stored on the SIM card, depending on their specifications. To view these messages, On the SIM Manager screen, press the **Menu** soft key and select **SMS Tool**. You can view a list of the sender's phone numbers of the received SMS messages stored on the SIM card.

On the SIM SMS Tool screen, press the **Menu** soft key to move SIM messages from the SIM card to the phone's memory and view or delete an SMS message.

To jump across your selection between the SIM list and the PDA list, press the **Change** soft key.

Task Manager

Your phone is multi-tasking device, meaning that it can run more than one application at the same time. However, multi-tasking may cause hang-ups, freezing, and memory problems.

To end the applications currently operating, use **Task Manager**.

To open Task Manager:

On the Home screen, press the **Start** soft key and select **More** → **More** → **Tools** → **Task Manager**. The list of all the applications currently running on your phone appears.

Managing running applications

- To activate an application, press the **Menu** soft key and select **Activate**.
- To close an application, press the **Menu** soft key and select **Stop**. To close all applications, select **Stop All**.
- To refresh the application list, press the **Menu** soft key and select **Refresh**.

Checking the Memory state

You can check the memory in use for running applications or storing files and information. On the Task Manager screen, press the **Menu** soft key and select **Memory**.

Checking the Storage cards

You can check the memory in use for storing files in each storage folder: **Storage Card**, **Storage**, and **HDD**. On the Take Manager screen, press the **Menu** soft key and select **Storage**.

chapter 9

Getting connected

You can use your phone to exchange information with other mobile devices as well as your desktop computer, a network, or the Internet. You have the following connection options:

- Use the infrared (IR) port on your device to send and receive files between two devices.
- Exchange information between devices with Bluetooth capabilities without a physical connection.
- Connect the phone to your computer using a USB or IrDA connection to use the phone as a modem.
- Connect to your Internet service provider (ISP) or the network at your company. Once connected, you can send or receive e-mail and instant messages, and browse the Internet or intranet.
- Connect to your desktop computer to synchronise remotely. Once connected, you can synchronise data such as your Contacts, Calendar, Tasks, or Inbox data. For details on ActiveSync, see Chapter 4 "Synchronising information."

Beaming with infrared connections

Your phone can send and receive files to and from other IR devices. In most cases, you can also receive files from your PC when it is equipped with an IR port. The two devices must be aimed at each other approximately four inches apart.

If you have difficulty getting the two devices to send or receive data, try the following:

- Transfer only one file at a time. No more than 25 contacts should be transferred at once.

- Make sure that the IR port windows are clear and free of any dirt or obstructions and that there are no obstacles between the IR port windows.
- Adjust the room lighting or move to another location. Some types of lighting may interfere with transmission.

Activating or deactivating IrDA receptions

By default your phone detects incoming IR transmissions and prompts you to accept them.

If you do not want your device to receive data, take the following steps:

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **Beam**.
3. Deselect the **Receive incoming beams** checkbox.
4. Press the **Done** soft key.

Receiving data

1. Align the IR port on your phone with the IR port on another device.
2. Have the other device send the data to your phone. Your phone will automatically receive the data.
3. When prompted to receive an incoming data, press the **Yes** soft key.

Sending data

1. Locate the item you want to send in an application, such as **Calendar**, **Contacts**, **Camera**, **Camcorder**, or **File Manager**.

2. Scroll to the item.

3. Press the **Menu** soft key and select **Beam**, followed by the type of item, such as Contact or Appointment.

   If you send an item in **File Manager**, press the **Menu** soft key and select **Send** → **via Infrared**.

   In Camera or Camcorder, press the **Menu** soft key and select **Send** → **Via IrDA**.

4. Align the IR port on your phone with the IR port on the device. The two devices starts an IrDA connection and the other device name appears on your phone.

5. Scroll to the device name and press the **Beam** soft key to send the item.

Beaming with 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.

Unlike infrared, you don’t need to line up the phone with another device to beam information with Bluetooth.

Activating Bluetooth mode

1. On the Home screen, press the **Start** soft key.

2. Select **Settings** → **Bluetooth**.

3. On the Bluetooth screen, select the operating mode you want in the **Bluetooth** field.

You can use the following operating mode:

- **On**: The Bluetooth radio is turned on and you can use Bluetooth features.
- **Off**: The Bluetooth radio is turned off. You can neither send nor receive data by using Bluetooth.
- **Discoverable**: The Bluetooth radio is turned on, and all of the other Bluetooth devices within range (about 10 meters) can detect your device and attempt to beam data to your device, establish a bond, or use a Bluetooth service.

4. Press the **Done** soft key.

Searching for and pairing with a Bluetooth device

1. On the Bluetooth screen, press the **Menu** soft key and select **Devices**.

2. To search for a new device, press the **Menu** soft key and select **New**.

3. Select a device to connect to the paired device.

4. Enter a Bluetooth PIN and press the **Done** 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, paring is finished.

Note: Some devices, especially headsets or hands-free car kits, may have a fixed Bluetooth PIN, such as **0000**. If the other device has one, you must enter the code.

5. Enter a display name for the device and press the **Done** soft key.

6. Press the **OK** soft key.

Using the device options

When you press the **Menu** soft key on the Devices screen, you can access the following options from the device list:

- **New**: allows you to search for any devices.
- **Edit**: allows you to change the name of the connectable device.

- **Delete**: allows you to delete the device.
- **Set as Hands-free**: allows you to use the connectable device as a headset. You can converse with the other person on the phone without holding the phone to your ear during a call.

Receiving data with Bluetooth

1. Make sure that the **Receive incoming beams** checkbox is selected. To check it, press the **Start** soft key and select **Settings** → **Beam**.

2. When prompted to receive an incoming data, press the **Yes** soft key.

Sending data with Bluetooth

1. Locate the item you want to send in an application, such as **Calendar**, **Contacts**, **Camera**, **Camcorder**, or **File Manager**.

2. Scroll to the item.

3. Press the **Menu** soft key and select **Beam** followed by the type of item, such as Contact or Appointment.

   If you send and item in **File Manager**, **Camera**, or **Camcorder**, press the **Menu** soft key and select **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 following from step 2 on page 211.

   The phone searches for devices within range and displays a list of available devices.

4. Select the device from the list.

5. Press the **Beam** soft key.

   The item is sent to the device you selected.

Using a Bluetooth stereo headset

Using a Bluetooth stereo headset, you can play the audio files or converse with the person on the phone without holding the phone to your ear. You can purchase a Bluetooth stereo headset separately.

To pair with a Bluetooth headset:

Note: Make sure that the Bluetooth mode is activated by referring to page 209.

1. On the Bluetooth screen, select Bluetooth stereo.

2. To search for a new headset, press the **Menu** soft key and select **New**.

3. Scroll to a headset and press the **Menu** soft key and select **Connect**.

4. Press the **Yes** soft key to confirm the connection.

5. Enter a fixed Bluetooth PIN and press the **Done** soft key.

6. Press the **OK** soft key to confirm the connection with the headset has been established.

7. Press the **Done** soft key.

To play a audio file:

1. During playing an audio file, put on an optional headset.
2. Press the **Menu** soft key and select **Switch to headset**.

   You can listen to the audio clip via the headset.

To converse with a person:

1. During a call, put on an optional headset.
2. Press the **Menu** soft key and select **Switch to headset**.

   You can talk to the other person via the headset.

To disconnect the phone and Bluetooth headset:

1. Press the **Disconnect** soft key.
2. Press the **Yes** soft key.
3. Press the **OK** soft key.

You can also disconnect the phone and the headset by pressing the relevant button on the headset. For details, see the User's Guide supplied with the headset.

Modem link

Using **Modem Link**, you can set your phone to be used as an external modem for another device or computer when connected via the active IrDA port or USB port.

1. Make sure that your phone is not connected with another device.

2. On the Home screen, press the **Start** soft key.

3. Select **More** → **More** → **Accessories** → **Modem Link**.

4. When you first access this application, the warning message displays. Press the **OK** soft key.

5. On the Modem Link screen, select the type of connection and baud rate.

6. To activate Modem Link press the **Menu** soft key and select **Activate**.

7. Press the **Done** soft key.

Note: When Modem Link is activated, you cannot use ActiveSync.

Connecting to the Internet or your network

You can use the **Data Connections** settings to create dial-up, Virtual Private Network (VPN), GPRS, and proxy connections so that you can connect to the Internet or your corporate network. By using a data connection, you can browse the Web, download e-mails, chat by using MSN® Messenger, or synchronise remotely with an Exchange Server. Check with your service provider to see if a data connection has already been set up for you, and if over-the-air configuration is supported.

Working with dial-up connections

You can create a dial-up connection to connect remotely to the Internet, a Wireless Application Protocol (WAP) network, or your corporate network. Then, when you open a programme that is configured to use this connection, the phone uses it to automatically connect to the network.

Creating a dial-up connection

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **More** → **Data Connections**.
3. Press the **Menu** soft key and select **Edit Connections** → **Dial Up Connections**.
4. Press the **Menu** soft key and select **Add**.

5. Enter the requested information.
   - **Description**: Enter a name for the connection.
   - **Connects to**: Select a network.
   - **Phone number**: Enter the dial-up number you use to connect to the network.
   - **User name**: Enter your network user name.
   - **Password**: Enter your password.
   - **Domain**: Enter the domain name, if required.

Note: If you are not sure about the information to enter, ask your network administrator.

Tip: If you subscribe to General Packet Radio Service (GPRS), you can set up a GPRS connection to access your corporate network or the Internet, which is faster than a dial-up connection. For details, see "Working with GPRS connections."

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

Editing a dial-up connection

1. On the Dial Up Connections screen, scroll to the connection you want to edit.

2. Press the **Menu** soft key, and select **Edit**.

3. Edit the connection settings.

4. When you have finished, press the **Done** soft key.

Deleting a dial-up connection

1. On the Dial Up Connections screen, scroll to the connection you want to delete.

2. Press the **Menu** soft key and select **Delete**.

3. Press the **Yes** soft key.

Working with VPN connections

If your company has set up a virtual private network (VPN), you can create a VPN connection to gain access to your corporate network over an Internet connection.

Creating a VPN connection

1. On the Home screen, press the **Start** soft key.

2. Select **Settings** → **More** → **Data Connections**.

3. Press the **Menu** soft key and select **Edit Connections** → **VPN Connections**.

4. Press the **Menu** soft key and select **Add**.

5. Enter the requested information.
   - **Description**: Enter a name for the connection.
   - **VPN type**: Select the type of VPN.
   - **Server**: Enter the VPN server name.
   - **Connects from**: Select the type of network from which you will connect to VPN (typically **The Internet**).
   - **Connects to**: Select the type of network to which you will connect (typically **Work**).

- **User name**: Enter your user name for the VPN.
- **Password**: Enter your password.
- **Domain**: Enter the domain name, if required.
- **IPSec authentication**: If you selected **IPSec**/**L2TP** for **VPN type**, select the type of authentication: **Pre-Shared Key** or **Certificate**.
- **IPSec Pre-shared key**: If you selected **Pre-Shared Key** for **IPSec authentication**, enter the shared key.

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

Note: If you are not sure about the information to enter, ask your network administrator.

Editing a VPN connection

1. On the VPN Connections screen, scroll to the connection you want to edit.
2. Press the **Menu** soft key and select **Edit**.
3. Edit the connection settings.
4. When you have finished, press the **Done** soft key.

Deleting a VPN connection

1. On the VPN Connections screen, scroll to the connection you want to delete.
2. Press the **Menu** soft key and select **Delete**.
3. Press the **Yes** soft key.

Working with proxy connections

You can use a proxy connection to gain access to the Internet over an existing connection to your corporate network.

Creating proxy connection

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **More** → **Data Connections**.
3. Press the **Menu** soft key and select **Edit Connections** → **Proxy Connections**.
4. Press the **Menu** soft key and select **Add**.
5. Enter the requested information.
   - **Description**: Enter a name for the connection.
   - **Connects from**: Select the type of network from which you will connect.
   - **Connects to**: Select the type of network to which you will connect.
   - **Proxy (name:port)**: Enter the proxy server name and port number in the form: *server name:port number*.
   - **Type**: Select the type of proxy connection to create.
   - **User name**: Enter your user name for the network to which you will connect.
   - **Password**: Enter your password.

Note: If you are not sure about the information to enter, ask your network administrator.

Editing proxy connection

1. On the Proxy Connections screen, scroll to the connection you want to edit.
2. Press the **Menu** soft key and select **Edit**.
3. Edit the connection settings.
4. When you have finished, press the **Done** soft key.

Deleting a proxy connection

1. On the Proxy Connections screen, scroll to the connection you want to delete.
2. Press the **Menu** soft key, and then select **Delete**.
3. Press the **Yes** soft key.

Working with GPRS connections

If you subscribe to General Packet Radio Services (GPRS), you can set up a GPRS connection to gain access to your corporate network or the Internet. This is faster than a dial-up connection.

You can also use your phone as a GPRS modem for a desktop computer.

Creating a GPRS connection

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **More** → **Data Connections**.

3. Press the **Menu** soft key and select **Edit Connections** → **GPRS Connections**.

4. Press the **Menu** soft key and select **Add**.

5. Enter the requested information.
   - **Description**: Enter a name for the connection.
   - **Connects to**: Select the type of network to which you will connect.
   - **Access point**: Enter the information provided by your system administrator.
   - **User name**: Enter your user name for the GPRS network.
   - **Password**: Enter your password.
   - **Primary DNS**: Enter the primary domain naming system (DNS) address, as provided by your **network administrator**.
   - **Secondary DNS**: Enter the secondary DNS address, as provided by your system administrator.
   - **IP address**: Enter the Internet Protocol (IP) address, as provided by your system administrator.

Note: If you are not sure about the information to enter, ask your network administrator.

Editing a GPRS connection

1. On the GPRS Connections screen, scroll to the connection you want to edit.

2. Press the **Menu** soft key and select **Edit**.

3. Change the connection settings.

4. When you have finished, press the **Done** soft key.

Deleting a GPRS connection

1. On the GPRS Connections screen, scroll to the connection you want to delete.

2. Press the **Menu** soft key and select **Delete**.

3. Press the **Yes** soft key.

Setting up Data Connections

After creating connection profiles, you can assign a profile to each connection type.

1. On the Home screen, press the **Start** soft key.

2. Select **Settings** → **More** → **Data Connections**.

3. Select a profile in each connection.

4. Press the **Done** soft key.

Adding a URL exception

Some URLs for Web pages on your company intranet may use periods, for example: intranet.companyname.com. To view these pages in Internet Explorer, you must create a URL exception.

Note: You do not need to create URL exceptions for Internet URLs.

Adding a URL exception

1. On the Home screen, press the **Start** soft key.
2. Select **Settings** → **More** → **Data Connections**.
3. Press the **Menu** soft key and select **Work URL Exceptions**.
4. Press the **Menu** soft key and select **Add**.
5. In the **URL Pattern** field, enter the URL and press the **Done** soft key. Separate multiple URLs with a semicolon.

Editing a URL exception

1. On the Work URL Exceptions screen scroll to the URL you want to edit.
2. Press the **Menu** soft key, and then select **Edit**.
3. Edit the connection settings.

Deleting a URL exception

1. On the Work URL Exceptions screen, scroll to the URL you want to delete.
2. Press the **Menu** soft key, and then select **Delete**.
3. Press the **Yes** soft key.

Changing the Data connection options

1. On the Data Connections screen, press the **Menu** soft key and select **Options**.

   The following options are available:

   - **Redial attempts**: Select the redial attempt to connect the Internet or your network after an unsuccessful connection.
   - **Idle disconnect after**: Select the length of time your phone waits for connecting to the Internet or your network after the specified period, your phone will disconnect from the Internet or your network.
   - **My desktop connects to**: Select the type of network to which your desktop computer will connect.

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

chapter 10

Troubleshooting

General problems

Problem	Description & Solution
"Invalid or missing SIM card. Emergency call only" displays	Check that the SIM card has been correctly installed.
"No network coverage," "Error 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 next to disappear	• If you have just turned on your phone, wait about 2 minutes, until your phone finds the network and receives a signal from the network. • 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.

Problem	Description & Solution
The display is not clear	In direct sunlight, you may not see the display clearly. Moving to a place with different lighting should solve this problem.
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 phone lock 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, press the **Start** soft key and select **Settings** → **More** → **Security** → **Disable Phone Lock** and enter the password.
"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 check feature has been enabled. Each time the phone is switched on, the PIN has to be entered. To disable this feature, press the **Start** soft key and select **Settings** → **More** → **Security** → **Disable SIM PIN**, and enter the PIN.

Problem	Description & Solution
"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 lock, PIN, initialisation, or PUK codes	If you forget or lose the lock 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 network provider. For information about passwords, contact your access point provider, for example, a commercial Internet Service Provider (ISP), service provider, or network operator.

Call problems

Problem	Description & Solution
I have entered a number but it was not dialled	• Have you 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.

Problem	Description & Solution
My correspondent cannot reach me	• Is your phone switched on (pressed for more than one second)? • 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	• Have you switched on the microphone? • Are you 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.
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 may lower the call quality. Be careful not to touch the antenna while using the phone.

Power and charging problems

Problem	Description & Solution
"Recharge Battery" appears on the display	When you turn on the phone, this message appears. Recharge the battery.
Battery low alert appears on the display	Your battery is insufficiently charged. Recharge the battery.
While charging, the LED on the travel charger blinks	• Disconnect the phone from the travel charger, 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. Or press the hole on the bottom of the phone to perform a soft reset. If the problem persists, contact a Samsung service representative.
The LED on the travel charger turns to yellow	The travel charger is overheated. Disconnect the charger from the phone or unplug it from the power outlet. Wait until the charger cools down and then recharge the phone.

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 (indicated by the green LED on the charger is on)	We recommend that you disconnect the phone from the charger or unplug the charger 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.

Problem	Description & Solution
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 charger 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, press the **Start** soft key and select **More** → **More** → **Tools** → **Task Manager**. Press the **Menu** soft key, and select **Memory**. Delete old items from applications. If necessary, make a backup copy of your data using ActiveSync or the memory card.

Problem	Description & Solution
Browser	
"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	• 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 not obstructed. • 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.
Camera	
Images seem smudged	Check that the camera lens protection window is clean.

Problem	Description & Solution
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.
Infrared	
Data does not transfer via an infrared connection	• Line up the infrared ports of two devices so that they are unobstructed and within close range. • Make sure that nothing is between the two infrared ports. • Adjust the room lighting. Some types of light interfere with infrared connections. Try moving to a different location or turning off some lights.
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 the setting **Bluetooth** → **Off**.

Problem	Description & Solution
I cannot find my friends 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.
Bluetooth stereo headset	
I cannot discover the remote Bluetooth stereo headset	• Check if the Bluetooth functionality on the phone is turned on. • Check if the remote Bluetooth stereo headset is in the discoverable mode. • Check if the remote Bluetooth device has the capability to act as a stereo headset.
I cannot connect to the remote Bluetooth stereo headset	Ensure that the correct PIN was entered on the phone during the connection with the headset. Most Bluetooth headsets have a fixed PIN that would be mentioned in their user's guide. You would need to enter the PIN when establishing a connection with the headset.

Problem	Description & Solution
I cannot listen to music on the remote Bluetooth stereo headset	• Ensure that you are connected to the Bluetooth stereo headset through the Bluetooth stereo application. • Ensure that the song that you are playing is one of the supported formats. • Check the battery levels on the Bluetooth stereo headset. • Ensure that the phone and headset are within range of each other. The maximum distance between the two should not be more than 30 feet. • If the phone established a connection to the headset when the Windows Media Player was already playing a song, this song would not be heard on the headset. You need to start the next song or stop the Windows Media Player to listen to music to the headset.
There are breaks in the music being played on the remote Bluetooth stereo headset	• You may observe breaks if there are walls that separate the phone and the Bluetooth stereo headset. • Check whether your phone is in the Discoverable mode. If not, make the phone is set to the On mode.

Problem	Description & Solution
Call history	
The call history appears empty	You may have activated a filter, and no communication events fitting that filter have been logged. To see all events, press the **Start** soft key and select **Call History**. Press the **Menu** soft key and select **Filter** → **No Filter**.
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**.
PC connectivity	
Problems occur when connecting the phone to a PC	Make sure that ActiveSync is installed and running on your PC. See the user's guide for ActiveSync on the CD-ROM. For further information on how to use ActiveSync, see the help function on ActiveSync or visit www.microsoft.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.

Health and Safety Information

Exposure to Radio Frequency (RF) Signals

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

The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless phones employs a unit of measurement known as Specific Absorption Rate (SAR). The SAR limit recommended by the FCC is 1.6W/kg.*

* In the U.S. and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

SAR tests are conducted using standard operating positions specified 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 of the phone.

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 established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement.

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

For Body Operation

For body worn operation, this model phone has been tested and meets the FCC RF exposure guidelines when used with a Samsung-supplied or approved accessory designated for this product or when used with and accessory that contains no metal and that positions the handset a minimum from the body.

The minimum distance for this model phone is written in the FCC certification information from the body. None compliance with the above conditions may violate FCC RF exposure guidelines.

For more Information concerning exposure to radio frequency signals, see the following websites:

Federal Communications Commission (FCC)
http://www.fcc.gov

Cellular Telecommunications Industry Association (CTIA):
http://www.wow-com.com

U.S.Food and Drug Administration (FDA)
http://www.fda.gov/cdrh/consumer

World Health Organization (WHO)
http://www.who.int/peh-emf/en

Precautions When Using Batteries

- 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, the type of battery and the 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 used batteries in accordance with local regulations. Always recycle. Do not dispose batteries in a fire.

Road Safety

Your wireless phone gives you the powerful ability to communicate by voice, almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless phones, one that every user must uphold.

When driving a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

- 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.
- When available, use a hands-free device. If possible, add an extra layer of convenience and safety to your wireless phone with one of the many hands-free accessories available today.
- 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.
- 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.
- Do not take notes or look up phone numbers while driving. Jotting down a To Do list or flipping through your phonebook takes your attention away from your primary responsibility, driving safely.
- 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.

- Do not engage in stressful or emotional conversations that may be distracting. Make the people to whom you are talking aware that you are driving and suspend conversations that have the potential to divert your attention from the road.
- Use your wireless phone to call for help. Dial the emergency number in the case of fire, traffic accident or medical emergencies. Remember, it is a free call on your wireless phone!
- Use your wireless phone to help others in emergencies. If you see a car accident, crime in progress or other serious emergency where lives are in danger, call the emergency number, as you would want others to do for you.
- 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 any other special non-emergency wireless number.

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).

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. 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 the areas 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 the <Send> key.

If certain features are in use (call barring, for example), you may first need to deactivate those features before you can make an emergency call. Consult this document and your local cellular service provider.

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your phone may be the only means of communication at the scene of an accident; do not cut off the call until given permission to do so.

Other Important Safety Information

- Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.

- For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.
- Switch your phone off before boarding an aircraft. The use of wireless phones 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.

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's.
- 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.
- 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.

Acknowledging Special Precautions and the FCC and Industry Canada Notice

Cautions

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Compliance Information

This device complies with Part 15 of 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.

Information to User

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

Appendix A: CERTIFICATION INFORMATION (SAR)

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

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

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR limit set by the FCC is 1.6 W/kg. 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 established by the government adopted requirement for safe exposure. The tests are performed in

positions and locations(e.g., at the ear and worn on the body) as required by the FCC for each model.

The highest SAR values of this model phone as reported to FCC are
Head: 0.475W/kg, Body-worn: 0.661 W/kg in GSM 1900.

Body-worn operations are restricted to Samsung-supplied, approved or none Samsung designated accessories that have no metal and must provide at least 1.5cm separation between the device, including its antenna whether extended or retracted, and the user's body. None compliance to the above restrictions may violate FCC RF exposure guidelines.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on FCC ID A3LSGHI300.

In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The standard incorporates a substantial ma gin of safety to give additional protection for the public and to account for any variations in measurements.

Appendix B: Guide to Safe and Responsible Wireless Phone Use

Cellular Telecommunications & Internet Association

"Safety is the most important call you will ever make."

A Guide to Safe and Responsible Wireless Phone Use

TENS OF MILLIONS OF PEOPLE IN THE U.S. TODAY TAKE ADVANTAGE OF THE UNIQUE COMBINATION OF CONVENIENCE, SAFETY AND VALUE DELIVERED BY THE WIRELESS TELEPHONE. QUITE SIMPLY, THE WIRELESS PHONE GIVES PEOPLE THE POWERFUL ABILITY TO COMMUNICATE BY VOICE-ALMOST ANYWHERE, ANYTIME-WITH THE BOSS, WITH A CLIENT, WITH THE KIDS, WITH EMERGENCY PERSONNEL OR EVEN WITH THE POLICE. EACH YEAR, AMERICANS MAKE BILLIONS OF CALLS FROM THEIR WIRELESS PHONES, AND THE NUMBERS ARE RAPIDLY GROWING.

But an important responsibility accompanies those benefits, one that every wireless phone user must uphold. When driving a car, driving is your first responsibility. A wireless phone can be an invaluable tool, but good judgment must be exercised at all times while driving a motor vehicle whether on the phone or not.

The basic lessons are ones we all learned as teenagers. Driving requires alertness, caution and courtesy. It requires a heavy dose of basic common sense-keep your head up, keep your eyes on the road, check your mirrors frequently and watch out for other drivers. It requires obeying all traffic signs and signals and staying within the speed limit. It means using seat belts and requiring other passengers to do the same.

But with wireless phone use, driving safely means a little more. This brochure is a call to wireless phone users everywhere to make safety their first priority when behind the wheel of a car. Wireless telecommunications is keeping us in touch, simplifying our lives, protecting us in emergencies and providing opportunities to help others in need. When it comes to the use of wireless phones, safety is your most important call.

Wireless Phone "Safety Tips"

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

1. Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.
2. When available, use a hands free device. A number of hands free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.
3. Position your wireless phone within easy reach. Make sure you place your wireless phone within easy reach and where you can grab it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.

4. Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.
5. Do not take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a "to do" list while driving a car, you are not watching where you are going. It's common sense. Don't get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip-dial only a few numbers, check the road and your mirrors, then continue.
7. Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix-they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations-with your phone at your side, help is only three numbers away. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!

9. Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a "Good Samaritan" in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special wireless non emergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you still can use your wireless phone to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

Careless, distracted individuals and people driving irresponsibly represent a hazard to everyone on the road. Since 1984, the Cellular Telecommunications Industry Association and the wireless industry have conducted educational outreach to inform wireless phone users of their responsibilities as safe drivers and good citizens. As we approach a new century, more and more of us will take advantage of the benefits of wireless telephones. And, as we take to the roads, we all have a responsibility to drive safely.

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

Cellular Telecommunications & Internet Association For more information, please call 1-888-901-SAFE.
For updates: http://www.wow-com.com/consumer/issues/driving/articles.cfm?ID =85

Appendix C: Consumer Update on Wireless Phones

U.S. Food and Drug Administration

1. 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.

2. 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.

3. 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.

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

5. 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.

6. 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.

7. 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.

8. 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.

9. 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 hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a 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.

10. 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 the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don t know with certainty what the results of such studies mean for human health.

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

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

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

12. Which other federal agencies have responsibilities related to potential RF health effects?

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-slc.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

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8. Bluetooth