

PlayNow™

With PlayNow™ you can download top music hits, videos, games and pictures to your phone. You can then set downloaded files as alarm signals, ringtones, wallpapers, and screen savers, or add them to your contacts.

All content of the PlayNow service is available on a Web page that is updated regularly by Sony Music Entertainment. Before deciding to purchase, you can preview most of the content.

Note: *Copyright-protection may prevent content from being copied, modified or transferred. If a file is copyright-protected, or if an access key has expired or is unavailable, an icon is displayed by the file name.*

Before using PlayNow

Before you can use PlayNow please ensure that you have the following:

- A phone subscription that supports GPRS or 3G data transmission. Alternatively, you can have a wireless LAN connection.
- An Internet account and the correct settings in your phone, see *Setting up Internet, email and MMS* on page 101.

- Free memory in your phone.

To preview the content

1. To open PlayNow select **Multimedia > PlayNow™**.
2. Select the Web link you wish to preview. The content is downloaded to your phone and images and ringtones can be previewed. Press **Continue**

Tip You can return to the PlayNow start page from wherever you are in the PlayNow website by pressing .



To purchase the content

1. If you wish to purchase the content, select **Yes**. Your phone bill or prepaid phone card will be charged by your network operator, and you will receive a text message confirming that the item is paid for and made available. The content is automatically saved to the folder for that media type.
2. Depending on the type of file, you will be asked whether you wish to install, play or use it now. Select **Yes** and then choose how to use it.

Note:

Picture gallery and Picture editor

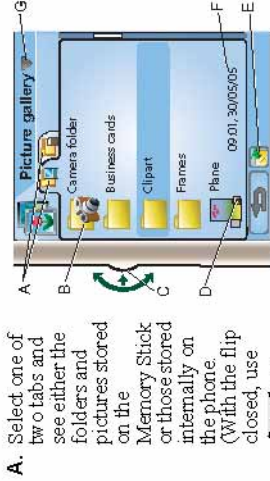
Picture gallery

In Picture gallery you can view, send and organize all the pictures saved in your phone's internal and external memory. The pictures can be taken with the phone camera or loaded from elsewhere. Picture gallery supports image types with file extensions .jpg, .bmp, .gif (including animated GIFs), .rmbm (SymbianOS Multi BitMap Image), .png and .wbmp. You can do any of the following:

- Send the pictures to others (using MMS messaging or Send as).
- Add pictures to the contacts in your phonebook.
- Use a picture as a background image (wallpaper) or screensaver.
- Show a series of pictures in a slide show.

You can also start Picture editor from Picture gallery in order to edit a picture.

To open Picture gallery select **Main menu > Multimedia > Picture gallery**.



- A. Select one of two tabs and see either the folders and pictures stored on the Memory Stick or those stored internally on the phone. (With the flip closed, use  or  to switch tabs.
- B. Camera still pictures and video clips are stored in the **Camera folder**.
- C. Rotate the Jog Dial to move through folders and files in the list. To open a detail view of a picture highlighted in the list, press the Jog Dial.
- D. Copyright-protection may prevent content from being copied, modified or transferred. If a file is copyright-protected, or if an access key has expired or is unavailable, an icon is displayed.
- E.  – send a highlighted picture by MMS messaging. This is also available in the detail view of a picture.

- F. The list can be sorted by name, size, type, or date, in ascending or descending order. Select **Picture gallery > Sort by** to change the sorting
- G. Select the title to find menu options.

Options for using picture files

You will find options for using pictures under **Picture gallery > Use**.

- **Send as** – see *Send as* on page 24.
- **Edit picture** – open a picture in **Picture editor**
- **Remote screen** – mark the check box to beam pictures that you open in detail view to an external device.
- **Set as wallpaper** – open a picture in **Wallpaper** to set it as the background wallpaper.
- **Set as screensaver** – open the **Screen saver** dialog where you can set the picture as screensaver.
- **Set as contact picture** – open a dialog to set the picture as contact picture.
- **Slides how settings** – open the **Slide show settings** dialog where you can set how the content of the current folder will be presented as a slide show.

Options for managing picture files

Select **Picture gallery > Manage files** for a menu with options for managing selected files and folders. From this menu you can:

- Open **Picture editor** to create a new picture.
- Create a new folder
- Copy, move, rename and delete files.
- Copy and move (Import and Export) pictures to and from the Camera folder on a Memory Stick and the internal Camera folder.
- Open **File manager** For more information, see *File manager* on page 93.

Detail view

Highlight and select a picture in the list to show the detail view. Select  to expand the view to full screen.

To enable **Zoom** in detail view, mark **Zoom** in the

Picture gallery menu. If the picture is expanded, tap  and mark **Zoom** in the popup menu. Rotate the Jog Dial to change the zoom level. The Zoom indicator thumbnail shows the part of the whole picture that is shown zoomed. You can move the thumbnail to pan. Unmark **Zoom** to disable zoom.

Slide shows

You can show the contents of a folder as a slide show, moving from picture to picture automatically or manually. Slide shows can have an accompanying sound track and you can choose from different transition styles between the pictures.

Sending pictures using MMS messaging

To send selected pictures as well as a picture in detail view using MMS messaging, select .

Picture editor

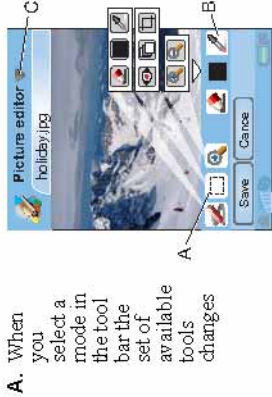
The editor can be started from Picture gallery, Messaging and Camera.

Using **Picture editor**, you can crop, rotate and resize images. You can add fun layers such as clipart and frames. There are tools for drawing on the image using the stylus with different pen sizes and colours available, as well as a text tool for formatting and inserting text into the image. There are a number of filters for effects and picture correction.

When you create MMS messages, you use

Picture editor for editing inserted images with .jpg, .png, .gif and .bmp file extensions as well as for creating simple .jpg images from scratch.

You use **Picture editor** with the flip open.



A. When you select a mode in the tool bar the set of available tools changes

B. The set of available tools changes according to the mode:



Scribble – set the pen width with , choose colour with the colour palette  or the colour dropper .



Select rectangle – fix red-eye removal , copy a selected part of the picture , or crop the picture .



Zoom – zoom in  or zoom out .

C. Select the title to find menu options.

Correcting images

Select **Picture editor > Correction** to adjust the brightness, contrast, intensity, or colour balance of a picture. Colour balance is adjusted automatically, use the Jog Dial to adjust the others.

Zoom mode

The Zoom indicator thumbnail view shows the part of the whole picture that is shown zoomed. You can use the stylus to drag the picture on the screen. You can capture the visible part of the picture: select **Picture editor > Edit > Crop**.

Editing options

Select **Picture editor > Edit** for a menu of editing options. You can rotate, mirror or flip a picture, paste the contents of the clipboard into the picture, and resize it for different uses such as MMS image or as wallpaper. You can undo your changes.

Adding clipart, text or frames

Select **Picture editor > Add** to add clipart, formatted text or a frame to a picture. When you have chosen the clipart or formatted the text you can place it in the picture and

adjust its position with the set of tools provided in the tool bar. Frames are applied to the whole picture.

Adding effects

Select **Picture editor > Effects** to filter a picture. You can choose between these effects:

- Emboss
- Frosted glass
- Warp
- Solarize
- Sepia
- Black & white
- Negative

For some of the filters you can adjust the level of the effect.

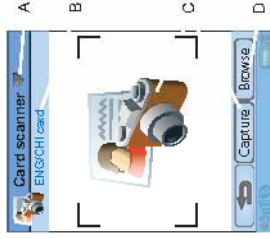
Preferences

Select **Picture editor > Preferences** to set the size, background colour and quality (**Good**, **Medium** or **High** - this will affect the file size) for new pictures that you create with **Picture editor**.

Business card scanner

With Business card scanner you can scan a business card that is handed to you, and add the contact details to your contacts.

- A. Select **Card Scanner** menu to set the language to be used.
- B. The currently selected language(-s).
- C. Start the Camera.
- D. Browse for business cards that you have already captured.



Scanning cards

1. Select **Office > Business card scanner**.
2. Select **Capture** or tap the large central Business card scanner icon to start the camera.
3. Hold the business card in front of the camera and take a picture of the card, see *Camera* on page 51. A few camera settings are available. The picture is displayed in the Business card scanner application.

4. If the picture is good enough you can choose either to process it as a contact entry or to leave it and process it later.

When you process the picture of a business card, most of the text will be displayed in appropriate fields in the contact entries. If there is information that the business card scanner cannot place into a field, you can find it in the  tab of the contact's entry. From there you can copy text to the appropriate fields in the contact entry. See more in *Creating and editing contacts* on page 58.

Processing batches of captured cards

You can process batches of pictures of business cards as contact entries.

1. Select **Browse** to view the list of captured business cards. (Already processed cards have contact names.)
2. Mark the cards you want to process and select **Done**. The contacts names from the processed batch are displayed in Contacts. They are categorized in a folder named **Business cards n**, where n is the serial number of the batch.

Tip To delete pictures of business cards, see *Picture gallery* on page 78 or *File manager* on page 93.

Sound recorder

Select **Multimedia > Sound recorder**. You can use the sound recorder with the flip closed or open. The description below assumes the flip is closed. With the flip open, you can reach most commands from the **Sound recorder** menu and you can tap the screen buttons to record, play, pause and stop.

Tip *You can assign the Internet button to launch the Sound recorder and to start and stop recording. See Hardware buttons on page 124.*

Record

To start a new recording, select **New recording** and press **Rec**. Recording starts after the beep.

You can also continue previous recordings. Scroll to the desired clip and select **Rec**. Recording will resume at the end of the previously recorded material.

Press **Stop** when you are finished recording.

Playback

Scroll to the desired clip and select **Play**. If the flip is open, you can tap and drag the progress indicator to navigate within the recording.

Rotate the Jog Dial to adjust the playback volume.

Manage recordings

On the **More** menu you find commands to rename, send and delete recordings.

All recordings that you make with the Sound recorder are also available in **Media player** under **Music > My recordings**.

Tip *You can use recordings as ringtones.*

Preferences

Select **More > Preferences**. You can choose where to save your recordings. **Memory Stick preferred** means that the recordings are saved on the Memory Stick if one is inserted. Otherwise the recordings will be stored on the phone memory.

MusicDJ™

With MusicDJ™ you can compose melodies to use as ringtones. MusicDJ™ is only accessible with the flip open.

A melody consists of four tracks: Drums, Bass, Chords and Accents. You compose the melody by adding pre-arranged sound samples to the tracks. Each sample is one bar long. The samples are grouped into Intro, Verse, Chorus and Break.



To compose a melody

1. Select **Entertainment > MusicDJ™**.
2. Select **MusicDJ™ > Set tempo** and adjust the tempo of the melody in beats per minute (BPM).
3. Tap a bar in one of the tracks and select a sample to insert. When you tap previously inserted samples you can choose to copy, paste, delete or insert a new sample from the pop-up menu.

Use the transport bar to play, pause, stop, fast forward or rewind. When composing you can also move between

bars by rotating the Jog Dial, or selecting **MusicDJ™ > Go to** and entering the numbers of the desired track and bar.

From the MusicDJ™ menu you can also save, open and send melodies.

Games

Your phone comes with two games preloaded in the **Entertainment** folder.

Vijay Singh Pro Golf 2005™ is a 3D game that lets you play golf on one of the most spectacular 18-hole golf courses on the American circuit, the Harbour Town Golf Links at Sea Pines Resort. The game has a built-in tutorial.

Quadrupop is a puzzle game. Select **Entertainment > Quadrupop > Help** to learn more.

Quickoffice and Pdf+

Quickoffice™ and Pdf+ are found in the Office folder. With Quickoffice you can view and edit Microsoft Word, Excel and PowerPoint documents as well as text documents. With Pdf+ you can view Adobe Acrobat (PDF) documents.

Quickoffice

In Quickoffice you can see a list of all the Quickoffice or text documents in a folder. Use the tabs to display a list of a certain Quickoffice document type. Use the **Phone memory** menu to switch between phone memory and Memory Stick. You can sort, move, copy and delete documents, and create and delete folders.

Select **View** to specify how to view the document. You can view documents in **Landscape** or **Full screen** mode.

Quickword

To create a new Quickword™ document, select **Office > Quickoffice > New > Quickword**. Enter the name and location of the new document. You can save documents in Word (.doc) or text (.txt) format.

When you open existing documents you need to select **Edit** to enable editing. To save a document after making changes, tap **Save**.

Quickword has a Format toolbar, which you enable by selecting **View > Format toolbar**.

Quicksheet

To create a new Quicksheet™ document, select **Office > Quickoffice > New > Quicksheet**.

There are two toolbars available in Quicksheet, the Edit toolbar and the Format toolbar. A quick way to enable the Edit toolbar is to double tap a spreadsheet cell.

To save a spreadsheet after making changes, tap **Save**.

Quickpoint

You can use Quickpoint™ to view Microsoft PowerPoint presentations and to edit text in them, but you cannot create new presentations in Quickpoint. Quickpoint contains three different views of a slide presentation: Slide, Notes and Outline view. To display a presentation via presentation hardware, select **Quickpoint > Start presentation**.

Pdf+

In Pdf+ you use the two tabs on the top to switch between phone memory and Memory Stick.

In an open PDF document you can control the viewing from the toolbar at the bottom of the screen:



Displays the next part of the screen. If you have selected **Display > Column mode** the top of the next column of a page will be displayed. A column is defined as the width of the screen.



Displays the Bookmarks view if the document contains bookmarks. Select a heading to go to the corresponding page. You can also use the Jog Dial to select a bookmark, and then use the button below to go to the corresponding page.



Takes you to the selected page.



Returns you to the page view.



Full screen.



To return to the normal view, select the menu icon and unmark the **Full screen** check box.



Wraps the document. The text fits the screen, but images and line drawings are not visible.



Unwraps the document.



Displays the **Find** dialog.



Goes to the next link in the document.

Notes and Tasks

Notes

Notes is a notebook where you can write notes and draw sketches. You can separate notes into different folders, for example work and personal notes.

Creating and managing notes

Select **Office > Notes > New**. A notes entry consists of two tabs,  tab for text and  tab for sketches.

When you create a note, use **a** to make the text bold and **●** to make a bulleted list. The first words of your notes are displayed in your list of notes.

Select a note from the list to view or edit it. With the flip closed, you can read and edit the text but not the sketches.

Use the menu commands to search through the notes, sort them into folders, edit, copy and paste notes, delete notes, select text options among other things. You can send notes to other devices using **Send as**. See *Send as* on page 24. Send as SMS will send the text only.

Drawing sketches

Select the  tab and use your stylus as a pen to draw sketches. Set the pen width with  and choose the colour with the colour palette . Tap  to change to an eraser. Tap the eraser a second time to go back to the pen.

Tasks

With Tasks you can make a list of things you need to do. You can separate task entries into different folders, for example, work and personal activities.

Creating and managing task entries

Select **Office > Tasks > New**. A task entry consists of two tabs,  tab for details about the task and  tab for notes.

When you create a task entry, enter a description of the task. The beginning of this description is displayed in your list of entries. In addition to giving each entry a description you can also choose any of the following:

- **Priority** – assign a priority.

- **Start date** – set a start date.

- **Due date** – set a deadline by which it must be completed. (Overdue entries are displayed in bold.)

- **Alarm** – set an alarm time and date.

- **Folder** – select a folder or create a new one.

Select a task from the list to view or edit it. Use the menu commands to search through the task entries, copy and paste entries, delete entries, select text options among other things. You can also move entries between Tasks and Calendar, which is useful when scheduling task entries.

You can send a folder with task entries to other devices using **Send this folder**, see *Send* as on page 24.

If you select the  tab, you can mark a task as **Private** in the **Tasks** menu. Such entries are excluded when they are sent as messages.

Synchronization and backup

You can synchronize Tasks with a corresponding application in your computer. You can also perform a remote synchronization over the telephone network. Select **Tasks manager** > **Synchronize**, see *Remote synchronization* on page 100.

Note: *The Folders will not be synchronized.*

As a complement to the “normal” Backup application, see *Backing up data* on page 100, you can back up task entries on the Memory Stick. Select **Tasks manager** > **Backup**.

Calculator and Converter

Calculator

You can add, subtract, multiply, divide and calculate square roots and percentages. It also has a memory function.

Select **Tools > Calculator**. All calculations, except percentage calculations, are performed in the order they are entered, for example:

$5+5 \times 5=50$, not 30.

Percentage calculations are performed backwards. To calculate, for example, 10% of 50, enter $50 \times 10\%$. The result is displayed when you tap the %-key.



Key	Functionality
M+	Tap once to store an entered value in the memory. If you have already entered a value in the memory, tap once to add the value on the screen to the value in the memory.
M-	Tap once to subtract the entered value from the value in the memory. The memory is adjusted but not displayed.
←	Tap once to delete the last digit you entered.
C	Tap once to reset the screen to 0.

You can copy and paste values to and from other applications.

Values stored in the memory are retained while using other applications.

Converter

With Converter you can convert different values of the following categories: Distances, Volumes, Weights, Temperatures, Speeds, Areas and Currencies.

You can add further currencies to the list of currencies to convert and you can enter the exchange rate of different currencies.

Converting units of measurement

If you for example want to convert distances from kilometers to nautical miles, you select **Tools > Converter > Distances**, and then the **Metric** tab where you enter the value. Select **Convert** and then the **Nautical** tab to see the result.

Setting converter decimals

You can set the number of decimals for all categories, select **Decimals** in the **Converter** menu.

Converting currencies

Select **Tools > Converter > Currencies** and select the *convert from* and *convert to* currencies from the currency list. Enter the amount of the currency you want to convert and select **Convert**.

Entering exchange rates

The default exchange rates in Converter are set to 0. You have to enter the current rates manually.

Select **Tools > Converter > Currencies > Currencies > Exchange rate** to enter the current exchange rate for a currency for example Japanese yen in US dollar.

Adding currencies

When the phone is delivered Converter contains a few commonly used currencies. Select **Tools > Converter > Currencies > Currencies > Add currencies** to add further currencies and their exchange rates to the currency list.

Time, timer and stopwatch

Time

Select **Tools > Control panel> Device > Time & date** to set the time and date. For more information, see *Time & date* on page 128.

Setting alarms

You can set three different alarms in your phone.

To set a new alarm, tap one of the alarm slots. You can specify when and how often the alarm will go off.

You have three possibilities for what happens when an alarm goes off:

- A sound is played. Choose between one of the sounds stored in your phone.
- The FM radio starts. This function works just like a clock radio.

Important: *You must connect the handsfree to your phone, which acts as an antenna. When the alarm goes off the radio will be played in the speaker.*

- A silent alarm. A message is displayed on the screen.

If you select **Default melody**, the settings from **Tools > Control panel> Device> Sounds & alerts> Alarms** will be used.

Alarms require that the phone is turned on. When the alarm goes off you can select **Snooze** to postpone the alarm for five minutes or **Silence** to turn off the alarm. To turn off the alarm completely, tap **Done**.

Timer

Use **Tools > Timer** if you need to be reminded within a certain amount of time. A message is displayed and a sound is played exactly when the time has passed. Select **Continue** to stop the alarm.

Stopwatch

Use **Tools > Stopwatch** if you want to measure how long time an event takes.

If you select **New lap** you can measure the time individually for nine separate events, for example a lap in a race or individual contestants in a race.

Managing files and applications

File manager

File manager is used to manage content and organize media, both within the phone memory and on Memory Sticks. The File manager view is displayed in two tabs,  tab for the phone memory and  tab for the Memory Stick.

Protected files

Downloaded or received files may be copyright-protected. Copyright-protection may prevent content from being copied, modified or transferred. If a file is copyright-protected, or if an access key has expired or is unavailable, an icon is displayed by the file name.

Handling files and folders

With File manager you can view, rename, copy, move and delete files and folders. Select **Tools > File manager**. Many operations in File manager can also be launched from **Tools > Control panel > Other**.

Sharing data with other devices

Your phone creates its own folder structure on the Memory Stick. Other devices must access the same folder structure to interact with your phone files. On a computer you can browse to the required folder on the Memory Stick. With a device that does not allow you to browse folders (for example, a camera) you use File manager to put the required file into a folder accessible by that device.

Launching media files

You can launch media files direct from File manager by selecting them.

Renaming a Memory Stick

You can rename a Memory Stick to give it a name that is meaningful to you. This name will be shown in the folders menu. Select **Tools > File manager > File manager > Device > Format Memory Stick > Rename**

Formatting a Memory Stick

New Memory Sticks are normally formatted the first time they are inserted in a phone.

Note: Do not remove a Memory Stick during formatting, which may take some time.

Select **Tools > File manager > File manager > Device > Format Memory Stick > Format**

Note: All information on the Memory Stick will be deleted during formatting.

Installing applications

You can install the following two types of applications in your phone:

- Applications specially intended for your phone or compatible with the Symbian operating system. These installation files have the extension .sis
- Java™ applications compatible with the Symbian operating system. These installation files have the extension .jar or .jad.

Install an application by selecting **Tools > File manager > File manager > Device > Install**. Select the required application and select **Details** to view information about the certificate. If the signature details are OK, select **Install** and follow the instructions in the phone. The application will be installed in **Tools** folder. You can move it to another folder if you desire.

Note: Only install applications where the vendor identity and file integrity can be verified. To be sure that a certificate has not been revoked, you can select **Security**, mark **Enable revocation check** and enter the **URL-address** where the certificate can be checked.

Removing applications

Select **Tools > File manager > File manager > Device > Uninstall**. Select the application you want to uninstall and select **Yes**.

Storage wizard

The **Low on storage space** dialog is displayed when your phone has no more storage space available to save or store information. From that dialog you can start Storage wizard to clean up storage space by removing unwanted applications and files.

Whenever required you can also launch Storage wizard from **Tools > File manager > File manager > Device > Storage wizard** or from **Tools > Control Panel > Device > Storage wizard**.

Note: Before you cleanup storage space, make sure you have a backup copy of important information.

Note: *If you are replacing an old smartphone and want to keep data, see Transferring data between phones on page 34.*

The **Sony Ericsson PC Suite** is a set of computer software tools delivered with your phone. These tools can be used for a variety of tasks, including:

- Synchronizing, for example, contacts, email, and calendar events between the phone and a computer.
- Backing up phone data to a computer and restoring data to the phone from a backup on the computer.
- Installing new software and languages in the phone.
- Connecting a computer to the Internet via the phone.
- Managing phone files from a computer and exchanging files between the phone and the computer.

For further information on synchronizing, making backups, and restoring from backups, see *Synchronization and backup* on page 99.

Installing PC Suite

Note: *Make sure that no Sony Ericsson equipment is connected to your computer when starting the installation.*

Install the Sony Ericsson PC Suite on your computer by inserting the supplied CD. The installation normally starts automatically, otherwise you can start it by executing the **start.exe** file located on the CD.

You can also download the Sony Ericsson PC Suite from www.sonyericsson.com/support.

Application launcher

The individual applications in the Sony Ericsson PC Suite are started from an application launcher. To reach this, select **Start > Programs > Sony Ericsson > Sony Ericsson PC Suite for Smartphones**.

A connection to the phone can be made using Bluetooth, the infrared port, or the USB cable. Some applications may require a specific connection to be used.

Connecting to other devices

When you want to exchange information between your phone and another device, connect them together using Bluetooth, an infrared link, or a USB cable.

With such a connection you can, for example:

- Send a file (a picture, for example) to a computer or to another phone.
- Use a Bluetooth headset in a phone call.
- Synchronize calendar events and contacts with the corresponding applications on a computer.
- Back up phone data onto a computer.
- Use your phone as a computer modem.

For more information on synchronizing and making backups, see *Synchronization and backup* on page 99.

Bluetooth wireless technology

The Bluetooth™ wireless technology uses radio waves to connect devices at a range of up to ten metres. The connection may be improved if there are no solid objects between your phone and the other Bluetooth device.

See *Bluetooth wireless technology* on page 117 for information on how to make the Bluetooth settings.

Item exchange

From any application with a **Send as** option, you can send a file via Bluetooth without first having to pair with the receiving device. To send a file, select **Send as > Bluetooth** and your phone will search for available devices. Select one of them.

If an other Bluetooth device sends a file to your phone, a dialog may appear (operator-dependent) with options for accepting or rejecting the file transfer. When the transfer is complete, select the file name and choose where to store the file. If you select **Save** instead you will not get any option to decide where to store the file. You then have to look under **Messaging** to find it. If the device is paired with your phone, you can mark **Trust this device** to allow it to connect to your phone again in the future without confirmation.

Infrared port

When you connect your phone to another device using an infrared link, the ports of both devices have to be within one metre from each other, in line of sight, and at an angle of no more than about 30 degrees.

See *Infrared port* on page 119 for information on how to activate the infrared port.

WARNING! *Never point an active infrared port at somebody's eye, or at the port of other infrared devices than the one you are connecting to.*

Sending and receiving files

From any application with a **Send as** option, you can send a file over the infrared port. To send a file, select **Send as > IR**.

When the transfer of a file sent to your phone is complete, select the file name and choose where to store the file. If you select **Save** instead you will not get any option to decide where to store the file. You then have to look under **Messaging** to find it.

USB port

With a USB (Universal Serial Bus) cable, you can connect your phone to the USB port of another device. See *USB* on page 119 for information on how to make the USB settings.

Note: *Before connecting the USB cable to a computer, install the Sony Ericsson PC Suite on the computer.*

USB connection, with the **Phone mode** setting, is required for phone data backup to a computer and for restoring data from a backup.

USB connection, with the **File transfer** setting, is required when using the Sony Disc2Phone and Adobe Photoshop Album SE computer applications to transfer music and image files respectively to and from the phone.

Note: *During data transfer over USB, do not change the USB settings or disconnect the phone from the other device, as this may cause data loss.*

Charging battery over USB

When your phone is connected to, for example, a computer over a USB connection you can simultaneously charge the phone's battery.

Note: For battery charging from a USB hub, only use a hub with its own external power supply.

Wireless LAN

From any application using the Internet (for example, Web) you can use a Wireless LAN (WLAN) for access. The simplest way to reach the Internet from an application is to connect to a Hot spot wireless LAN (no setup necessary), or you can connect to a wireless LAN for which an account has already been created in your phone.

Note: In France, you are only allowed to use wireless LAN indoors.

See *Wireless LAN* on page 120 for information on how to connect to a wireless LAN.

Connections manager

Connections manager lets you view and close all open Internet connections and view the logs for both open and closed connections.

Select **Tools > Connections mgr** to display the connections and the logs.

To view the details about a connection or a log, select the connection or log. If you, for example, want to reset a log, mark it and select **Reset log** in the **Connections mgr** menu.

Computer modem

Through the Sony Ericsson PC Suite, a computer can use your phone as a modem for connecting to the Internet.

Synchronization and backup

The Sony Ericsson PC Suite lets you synchronize your phone with common computer applications (local synchronization) and make backups of data.

Without using the Sony Ericsson PC Suite you can synchronize your phone over a mobile network with a remote server (remote synchronization).

Local synchronization

Local synchronization is between your phone and a connected computer. Email, contacts, calendar events, tasks, notes (text only), and browser bookmarks can be synchronized this way.

Note: *The Sony Ericsson PC Suite must be installed on the computer and the chosen connection method must have been configured.*

To synchronize, connect your phone to the computer using a USB, Bluetooth or infrared connection.

Note: *If you are using a USB connection, select the **Phone mode** setting.*



On the computer, select **Start > Programs > Sony**

Ericsson > Sony Ericsson PC Suite for Smartphones to open the Sony Ericsson PC Suite. In the **File** menu, select **Sync Manager**.

Synchronization settings

In the **Sync Manager** window, select **Settings** to define what is to be synchronized and how.

Starting synchronization

In the **Sync Manager** window, select **Synchronize now** to start synchronizing. After each synchronization, you can view the results by displaying the summary.

Backing up data

Use the Sony Ericsson PC Suite to make backups of phone user data. Your backups are stored on the computer and can later be restored to the phone. Make backups on a regular basis, and always before having the phone upgraded since upgrading clears all the user data.

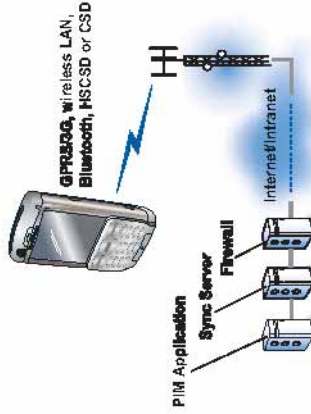
Note: *Even copyright-protected files are included when backing up data, but the access keys to such files are not. If you, for example, make a Master Reset after a backup you will lose any access keys. You will then have to reorder these keys (and pay for them once again) to be able to use the files.*

Restoring data

To restore phone data, select **Backup Manager** as when making a backup, but then select the restore option instead. You can restore data manually or have a wizard assist you.

Important: *All the phone data is overwritten during the restore process. You may damage your phone if you interrupt the restore process.*

Remote synchronization



Remote synchronization is between your phone and a synchronization server on the Internet or an intranet. This is a way to keep your phone synchronized while on the move. To set up and start remote synchronization, go to **Tools > Remote sync**.

Synchronization services may be offered by mobile operators, third-party service providers or as added capability to corporate applications for personal information management (PIM).

Setting up Internet, email and MMS

With your phone you can access the Internet, send and receive email, and send and receive MMS messages. To do this you need to set up Internet accounts.

Setting up accounts

You access the Internet using an Internet Service provider (ISP). You need to set up an Internet account to do any of the following:

- Access the Internet
- Send and receive email messages.
- Send and receive MMS messages.
- Set up and use a Virtual Private Network (VPN).

There are four types of Internet accounts:

- **Data** – uses a packet data connection, either on a 3G or a GSM/GPRS network. You are charged for the amount of data you download or send.
- **Dial up (CSD or HSCSD)** – establishes a circuit-switched data connection. You are charged for the length of time you are connected to the Internet.
- **Bluetooth PAN** – uses a Bluetooth Personal Area Network profile to connect to a device (for example a computer) that is connected to the Internet.

- **WLAN** – uses a wireless LAN to connect to the Internet.

Important: *To use the browser or send and receive email messages you must include the Internet account in an Internet group account, see Group accounts on page 105. To use MMS, you must **NOT** include the Internet account for MMS in a group account.*

You can create new accounts automatically or manually. The Internet account may already be set up when you buy the phone.

Before setting up

From your service provider, you should have received all the details about the accounts that you have to enter, for example the email account name and password.

Setting up accounts automatically

A convenient way of setting up an account is to ask your service provider to send you an auto setup message. Contact your service provider to find out if such a service is available. You can also visit www.sonyericsson.com/support where you find setup

wizards that can configure accounts with many of the major service providers.

You will find the auto setup messages in **Messages > Inbox**. To start an auto setup, select the message and follow the instructions on the screen.

Setting up Internet manually

To enter the details manually, or to edit an existing account, select **Tools > Control panel > Connections > Internet accounts**.

Create the Internet account as described in the following sections. When you are ready you will be asked to save the account in a group account. Tap **Yes**, select a group account and then tap **Save**.

New Data account

To create a data account, select **Internet accounts** menu > **New account > Data** and make the data account settings.

Data account

Account name – give the account a name for your own reference, for example the name of your ISP.

Address – enter the Internet address of your ISP's access point.

Username – if required by your ISP, mark the

Username and password required check box and enter the user name that you have received from your ISP.

Password – enter your password.

To make further settings, select the account and follow the instructions below.

Select **Data account** menu > **TCPIP > IP config**.

IP config

Select IP version – Automatically, IPv4, IPv6, IPv4 compatible or IPv4 mapped.

IP address – an IPv4 address consists of four 3-digit boxes and valid input is between 000 and 256 in each box.

An IPv6 address consists of eight 4-digit boxes in hexadecimal format between 0 and ffff. In hexadecimal numbers you may use the numbers 0-9 and the letters a, b, c, d, e, f.

Select **Data account** menu > **TCPIP > IP DNS address**

IP DNS address

Select IP version – Automatically, IPv4, IPv6, IPv4 compatible or IPv4 mapped.

Primary DNS address, Secondary DNS address – the Domain Name Server (DNS) address is used to

translate number-based IP addresses to character-based names. Some ISPs use a secondary DNS server as backup if there are any problems with the primary DNS server.

Select **Data account** menu > **Proxy**

Proxy

Use proxy server – mark this check box. A proxy server is a computer connected between your phone and the computer you communicate with.

Proxy server address – enter the proxy server's name.

Proxy server port – enter a number between 0 and 65535.

Proxy exceptions – if you use a proxy server you can still specify a list of Web sites that are accessed from their original location. Enter the Internet address of each Web site on a separate line.

When you have selected **Save** you will be prompted to include the Data account in a group account. See *Group accounts* on page 105.

New Dial up account

To create a Dial up account, select **Internet accounts** menu > **New account** > **Dial up**.

Dial up account

Account name – give the account a name for your own reference, for example the name of your ISP.

Phone number – enter the phone number to your ISP's dial up service. To avoid having to change the phone number when you travel abroad use the international dialling format starting with + and the appropriate country code.

Username – enter the username that you have received from your ISP.

Password – enter your password.

When you have selected **Save** you will be prompted to include the Dial up account in a group account. See *Group accounts* on page 105.

To make further changes to the account, select the new account and then select **Dial up account** menu.

Dial up account menu

TCPIP – enter the same information as for Data accounts, described earlier in this chapter.

Proxy – enter the same information as for Data accounts, described earlier in this chapter.

Speed – specify the speed of your local phone connection.

Log in – specify what should happen when you have logged in with the account.

Server – if the server you connect to uses call back, you can specify this in this dialog.

New Bluetooth PAN account

To create a Bluetooth Personal Area Network (PAN) account, select **Internet accounts** menu > **New account** > **Bluetooth Internet (PAN)**, if you want to create an account to connect to the Internet via, for example, a suitable configured computer.

Bluetooth Internet (PAN) account

Account name – on the **Settings** tab, give the account a name for your own reference.

Prompt me if all the devices in the list fail, or list is empty – on the **Settings** tab, mark this check box if you want to be prompted as described.

Add device – on the **Devices** tab, select this and start searching for the Bluetooth device (usually a computer) that you want to use to connect to the Internet. Mark the device and tap **Done**.

Select **Internet accounts** menu > **New account** >

Bluetooth Local (PAN), if you want to create an account to use locally.

Bluetooth Local (PAN) account

Account name – on the **Settings** tab, give the account a name for your own reference.

Prompt me if all the devices in the list fail, or list is empty – on the **Settings** tab, mark this check box if you want to be prompted as described.

Add device – on the **Devices** tab, select this to start searching for devices that you can connect to. Mark the devices and tap **Done**.

When you have selected **Save** you will be prompted to include the Bluetooth PAN account in a group account. See *Group accounts* on page 105.

To make further changes to the account, select the new account and then select **Bluetooth Internet (PAN)** or **Bluetooth Local (PAN)** menu.

Bluetooth Internet (PAN) and **Bluetooth Local (PAN)** menu

TCPIP > IP config – see below.

TCPIP > IP DNS address – enter the same information as for Data accounts, described earlier in this chapter.

Proxy – enter the same information as for Data accounts, described earlier in this chapter.

Roles – select roles.

- **Local role** – select if the role of your phone should be **Client**, **Server** or **Unknown**.
- **Peer role** – select if the role of the device you want to connect to should be **Access point**, **Client**, **Server** or **Unknown**.

IP config

Select IP version – Automatically, IPv4, IPv6, IPv4 compatible or IPv4 mapped.

IP address – an IPv4 address consists of four 3-digit boxes and valid input is between 000 and 256 in each box.

An IPv6 address consists of eight 4-digit boxes in hexadecimal format between 0 and ffff. In hexadecimal numbers you may use the numbers 0-9 and the letters a, b, c, d, e, f.

Gateway – only used when the selected IP version is IPv4.

Netmask – only used when the selected IP version is IPv4.

New WLAN account

See *Wireless LAN* on page 120.

Group accounts

A group account is a collection of Internet accounts. When you connect to the Internet or set up an email account you must specify the connection using a group account. If you have one wireless LAN account at work and another at home you can add both to a group account.

The order of the accounts within a group account determines the order the phone uses when making a

connection. If, for example, a wireless LAN connection fails the phone will automatically try to connect using the next account in the group, which could be a 3G data account.

The phone contains a preconfigured preferred group account called **Internet**. This group account cannot be deleted or renamed. When you add a new Internet account you can add it to the **Internet** group account. You can also create your own group account and set it as preferred.

To create new group accounts

1. Select **Tools > Control panel > Connections > Internet accounts > Internet accounts** menu > **New account > Group account** on the **Internet accounts** menu.
2. Enter a name to identify the account and then select **Next**.
3. Select **Add new account** and mark the Internet accounts you want to include in the group account. Select **Done**.
4. Tap an Internet account to set the connection priority. Select **Done**.
5. Tap **Save** to save the group account.

Setting a group account as preferred

To specify which group account should be preferred, select **Internet accounts > Preferred groups**. Select an account and tap **Save**.

Deleting group accounts

On the **Groups** tab, tap the group account you want to delete and select **Edit** menu > **Delete group**.

Note: *If you delete a group account, the Internet accounts in the group will not be deleted.*

Setting up email manually

Before you make the email settings you must have a connection to the Internet, see *Setting up accounts* on page 101.

The email account you wish to set up must support the POP3 or IMAP protocol for receiving email, and the standard SMTP protocol for sending email.

Web-based email services cannot be handled by Messaging. Use the Internet browser to access such services.

To enter the details manually, or to edit an existing account, select **Tools > Control panel / > Messaging > Email accounts**.

The Email accounts view displays a list of email accounts on your phone. You can add a new account to the list and delete an account. To edit an existing account, select it and make your changes.

From the **Email accounts** menu, you can also select your preferred email account. This account is used when you select **Send as > email** from within an application.

Select **New** to open the dialog used for email settings. You make the settings on three different tabs, and also dialogs you open from the **Email account** menu.

From your email service provider, you should have received all details about your account which you now have to enter.

Basic tab

Account name – give the account a name for your own reference, for example Home or Office.

Your name – enter the name you want to appear on your outgoing messages.

Email address – this is your email address as supplied by your email service provider. The address always contains the @ character.

Connection type – POP3 and IMAP are connection protocols used when receiving email from the email server. POP3 is the most common. IMAP has expanded functionality, for example, it makes it

possible to subscribe to server-based folders. Ask your email service provider which protocol they support.

Allow IMAP idle – if you have an IMAP account, your phone can check for new messages in your mailbox on the server. If there are new messages, these will be sent to your phone.

Inbox tab

Incoming server address – enter the name or IP address of your email service provider's server for incoming email messages. This address identifies the computer where your incoming email messages are stored. Common formats are *pop.example.org* and 123.123.123.123.

Username, Password – your email service provider supplies you with a username and password for your email account.

Download restrictions – select this to set rules for how messages shall be downloaded and how many messages can be stored in your inbox. If you want to limit the data traffic, you can choose to receive **Just headers** (the sender, subject, and date only) or set a size limit, **Emails smaller than** (if a message is larger than the limit, only the headers are downloaded). You will be prompted to download the rest of a message when you open it.

Smaller than – enter the message size limit, if you have selected **Emails smaller than** above.

Limit number of messages – select this to limit the total number of messages held in your inbox in your phone at any one time. If your inbox is full and you download a new message, the oldest message in your inbox will be removed from your phone. Note, that the message header will remain in the phone, and the whole message will remain on the server.

Limit is set to – enter a limit for messages in your inbox, if you have selected **Limit number of messages** above.

Receive using group – select which Internet group account you want to use to connect to the email server for incoming email messages. If you select **Preferred group**, the phone will use the preferred Internet group account. See *Setting a group account* as preferred on page 106.

Outbox tab

Outgoing server address – enter the name or IP address of your email service provider's server for outgoing email messages (SMTP server). This address identifies the computer through which your outgoing messages are sent. Common formats are *smtp.example.org* and 123.123.123.123.

Use SMTP authentication – some SMTP servers require authentication also when sending email. If so, mark this check box and enter your **Username** and **Password**.

Use Inbox login details – if the SMTP server accepts using your **Inbox** login information for authentication, mark this check box.

Send using group – select which Internet group account you want to use to connect to the email server for outgoing email messages. If you select **Preferred group** – the phone will use the preferred Internet group account. See *Setting a group account as preferred* on page 106.

Select *your email account > your email account* menu > **Scheduled download** to set up automatic downloads of messages.

Scheduled download

Schedule download – mark and select either **By interval** and select download intervals between 1 minute and 999 minutes, or **By time** and specify up to three downloads a day.

Note: *If you schedule downloads, you should normally also unmark Show connections dialog in Tools > Control panel > Connections > Internet accounts > Internet accounts menu > Options. Otherwise each scheduled download will stop at the Connect to Internet dialog and wait until you select Connect*

Select *your email account > your email account* menu > **Advanced** to make additional settings.

Advanced – Incoming tab

Secure socket – your ISP will tell you if you can use a **Secure socket** or **Secure password authentication** (see below).

A secure socket means that all information (including your username, password, and all messages) is encrypted to maximize security while you are connected to the Internet.

Incoming mail port – normally 110 for POP3 servers and 143 for IMAP servers. Use the default value unless your email service provider specifies something else.

Secure password authentication – in contrast to **Secure socket** (see above), secure password means that only your password is encrypted.

Advanced – Outgoing tab

Secure socket – see the **Incoming** tab above.

Outgoing mail port – normally 25. Use port 25 unless your email service provider specifies something else.

Use MIME encoding – MIME encoding is a standard that allows non-textual information (for example graphics) and accented characters to be sent in email messages.

Setting up MMS manually

To set up MMS manually, first create an Internet account for MMS, and then proceed with the actual MMS settings. To edit existing MMS accounts, follow the same procedure.

Internet account for MMS

Select **Tools > Control panel > Connections > Internet accounts > Internet accounts** menu > **New account > Data**.

Data account

Account name – give the account a name for your own reference, for example, the name of your MMS service provider.

Address – enter the Internet address of your MMS service provider's access point.

Username – if required by your MMS service provider, mark the **Username and password required** check box and enter the username that you have received from your MMS service provider.

Password – enter your password.

Select **Data account** menu > **Proxy**.

Proxy

Use proxy server – mark this check box.

Proxy server address – enter the proxy server address.

Proxy server port – enter the proxy server port number.

Proxy exceptions – normally you do not need to enter anything here. Your MMS service provider will specify if you do.

Select **Save**. You will be prompted to add the account to a group account. Choose **No**. If you add the account to an Internet group account, the automatic selection of Internet accounts will not work properly. See *Group accounts* on page 105.

MMS account

Select **Tools > Control panel > Messaging > MMS account** to set up the MMS account.

MMS account

Service centre address – this is the Internet address to the server handling your multimedia messages. Your MMS service provider can provide you with the service centre address.

Internet account – select the account you have created for MMS.

Auto download – select one of the following:

- **Home only** – messages are downloaded automatically when you are connected to your home network.
 - **On** – messages are also downloaded automatically when you are roaming outside your home network.
 - **Off** – automatic download is off, you will receive notifications of incoming messages and have to download them manually.
- Download size** – set whether to have a size limit for incoming messages:
- **No restrictions** – the size of the incoming messages does not matter, all messages will be received.
 - **Smaller than** – messages smaller than the limit will be received, larger messages will be deflected.

MMS account – advanced settings

Select **MMS account** menu > **Advanced settings** to make more settings. The values you give the settings on the **Send** tab, will be the default for all multimedia messages that you send. You can choose other values for an individual message in Messaging.

Send tab

Validity period – set for how long your messages should be available to the recipient.

Priority – give your messages low, normal, or high priority.

Creation mode – allow the phone to check content (these settings are service provider-dependent):

- **Free** – no restrictions.
- **Warning** – a warning message is displayed whenever you add a non-conformant item to a multimedia message. You can send anyway.
- **Restricted** – the message will not be sent in the situation described above.

Delivery report – requests a delivery notification from recipients of your message.

Read report – requests a read notification from recipients of your message.

Hide number – prevents the sent message from showing your number.

Reply with history – includes the original with your reply.

The following settings apply to multimedia messages that you receive:

Receive tab

Full screen – make the phone play received messages in full screen.

Delivery notification – make the phone send a notification message when you have received a multimedia message.

Read notification – make the phone send a notification message when you have read a received multimedia message.

Exclude – filter the reception of incoming messages by message type. Mark check boxes to filter the following:

- **Advertisements** – broadcast advertisements.
- **Information** – other broadcast information.
- **Anonymous senders** – senders not listed in **Contacts**.

To only receive multimedia messages from senders listed in your **Contacts**, mark all check boxes.

Control panel

Tools > Control panel is the location for all the main settings on your phone that are system-wide and often affect more than one application. This is where you go to initially set up your phone, and to change the settings at any point after that.

Note: *Some settings can be locked or hidden by your operator.*

Call settings

Accept calls

Select **Tools > Control panel > Call settings > Accept calls** to specify who should be able to reach you, and who should not, by setting the accepted callers.

Controls tab

Specify whether your phone should reply by sending busy signal or by hanging up.

Accept calls from

All callers – everyone calling you can reach you.

Listed callers only – only persons (phone numbers) that you have entered in the accepted callers list can reach you.

Contacts – only persons in your Contacts phonebook can reach you.

Speed dial – only contacts from your Speed contacts can reach you.

No-one – no one can reach you.

List tab

Make a list of accepted callers. Select **Add** and then select from **Contacts**, or enter a name and a number.

Add to Contacts

Select **Tools > Control panel > Call settings > Add to Contacts** and mark the check box if you want to be asked to save a new contact every time a new number is used or received.

Calling cards

With a calling card account, your calls go via a calling card server. This means that your phone can act as a

corporate telephone. Since your calls will then go through a private company switchboard, PABX features, services such as conference calls, will be available.

Select **Tools > Control panel > Call settings > Calling cards** to make the settings.

Enter the phone lock code (the default phone lock code is 0000) and make the following settings:

- **Calling card mode** – select how to use the selected calling card.
- **Calling cards** – a list of your calling cards.
- **Active card** – set the active calling card.

Please consult your calling card supplier for more details.

Creating a new calling card

Select **New** and enter the following account information.

Access tab

Name – enter a name for the calling card account.

Access number – enter the phone number of the calling card server.

Verification code – enter the verification code.

International prefix – enter the international prefix used by the server.

Set up tab

Sending order – select if the phone number or verification code should be sent first.

Delay for number/code – set the time the phone should wait before it sends the number or code.

Use direct access number – if marked, you are allowed to use a direct access number, if the calling card is a PBX type.

Business phone services

You can set up business phone services by importing a .pbx configuration file that you receive from your Telephony/IT department.

To set up business phone services

1. Create a folder called **Calling cards** in the **Document** folder of your phone or Memory Stick and copy the .pbx configuration file to that folder.
2. Select **Tools > Control panel > Call settings > Calling cards > Import**.
3. Select the .pbx file you want to import and tap **Import**.
4. Activate the card by setting the Calling Card Mode to **Call directly**. **Always use calling card or Prompt before call**.

The calling card icon  will now be visible in the status bar. The .pbx file may be set up so that you can

send commands to the switchboard by tapping the calling card icon.

Call waiting

You can choose if you want the phone to alert you when you receive an incoming call during an ongoing call.

Select **Tools > Control panel > Call settings > Call waiting** and set this option to **On/Off**, both for voice and video calls.

If ALS (two lines on the SIM card) is available, you can set this option to **On/Off** on two separate voice lines.

The settings are made in the network. Select **Refresh** to receive the current settings.

Divert calls

The phone can divert incoming calls to another number if you are busy, not reachable or do not reply. You can also choose to divert all calls.

Select **Tools > Control panel > Call settings > Divert calls** and choose which type of calls that should be diverted and then where to divert them.

Divert options

A phone number field in which you enter a phone number to be used for diverting calls.

Lookup in contacts – select an entry from the Contacts phonebook.

Off – your incoming calls will not be diverted.

All the divert settings are made in the network. Select **Refresh** to receive the current settings.

Flag Call

Select **Tools > Control panel > Call settings > Flag call** and choose whether you want to follow up a rejected call later. If you mark the check box your phone will set up a task and prompt you to initiate a call after a pre-defined time that you can select in the drop-down menu.

Handsfree settings

Select **Tools > Control panel > Call settings >**

Handsfree to set how to answer to an incoming call when handsfree equipment is connected.

Answering mode

Normal – answer calls as normal.

Any key – press any key (except **END**) on the keypad to answer.

After 5 seconds – the phone answers automatically after five seconds.

Always route answered calls to Bluetooth – mark the check box to route answered calls to a Bluetooth headset.

Reject with SMS

If for some reason you want to reject a call, for example during a meeting, you can set up the phone to send an SMS with a predefined message to the calling party.

Select **Tools > Control panel > Call settings > Reject with SMS** to make the settings.

Restrict calls

You can set restrictions for incoming and outgoing calls. For example, you can prevent your phone from being used for long distance calls or when roaming. You need a special PIN code from your operator to make the settings in **Tools > Control panel > Call settings > Restrict calls**.

Show or hide number

You can choose whether you want the called party to see your phone number. Select **Tools > Control panel > Call settings > Show or hide number** to make the settings. **Network default** leaves the decision to the network.

TTY Settings

A TTY is a text phone, an aid for deaf and speech-impaired people.

Voice control

You can dial and receive calls by using voice commands. Select **Tools > Control panel > Call settings > Voice control** to make the settings.

Recording voice commands

To make settings in this dialog you must previously have recorded the voice command words for *answer*, *busy*, and the *magic word*. Otherwise, you will get prompted to do so.

The magic word is a word that is used to initiate voice dialling when a regular headset, or a car kit, is attached to the phone. You must say the word before you say a

contact's name, so that the phone "starts listening" for the contact's name. Choose a long unusual word, which can easily be distinguished from background speech.

Select **Edit** > **Record** to record a highlighted voice command. Select **Edit** > **Play** to listen to a highlighted command. The icon  next to a word indicates that a voice command has been recorded and stored.

Voice control settings

Portable handsfree – voice control, with a handsfree kit connected.

Portable car – voice control, with a car kit connected.

Voice answer – answer by voice control (recorded words for "answer" and "busy").

Play caller name – the phone plays the recorded name of the calling party, if it is stored in Contacts.

Voice mail

Select **Tools** > **Control panel** > **Call settings** > **Voicemail** and enter the number your phone will call to access the voicemail server. Your voicemail is a service provided by your operator, and works as your private "answering machine".

You can choose whether the virtual keypad should be displayed during calls to voicemail.

ALS settings

ALS (Alternate Line Service) means that you have two separate lines (two phone numbers) on your SIM card.

Call meter

Select **Control panel** > **Call settings** > **Call meter** to make the Call meter settings.

This service (also called Advice of Charge, or AoC, by some operators) makes it possible to:

- Keep track of the cost of calls.
- Automatically stop outgoing chargeable calls, if a certain credit limit has been exceeded.

Call meter has two tabs, **Credit** and **Tariff**.

Credit tab

Your setting options on this tab are:

- **Limited credit** – if you mark the check box, all your outgoing chargeable calls will be stopped if the set credit limit has been exceeded. Unmarked check

box means unlimited credit, and the call cost is displayed on the screen during a call.

- **Remaining credit** – you can edit this field and set a credit limit. If a credit limit is set, the remaining credit is displayed on the screen during a call.

Tariff tab

Your setting options on this tab are:

- **Display cost in** – select **Currency** or **Units**.
- **Tariff** – set a number between 0.01 and 9999999.
- **Currency** – select the currency type (three letter code)

To be saved, the settings must be followed by entering of valid PIN 2 code, provided by your network operator.

Note: *The Call meter service does not work if you have roamed to a network that does not provide charging information.*

Connections

The connection settings control how your phone communicates with other devices.

Bluetooth wireless technology

Select **Tools > Control panel > Connections >**

Bluetooth to make the Bluetooth settings and connect to other Bluetooth devices.

Note: *Only connect to trusted devices.*

For all tasks, except for a single file transfer, it is necessary to set up a permanent and trusted relationship between your phone and the other device. This is called pairing (or bonding). Paired devices are remembered by your phone so you do not need to pair with these again. This simplifies future connections and makes them secure, as paired devices have a already authenticated each other.

Settings tab

This is where you make all the Bluetooth settings of your phone.

My phone name – enter the name you want to be displayed when your phone is presented to other Bluetooth devices.

Bluetooth on – activates Bluetooth.

Visible to other devices – makes it possible for other Bluetooth devices to find your phone.

Enable power saving – saves power by limiting the activity of your phone. Your phone will no longer accept requests for additional connections from other Bluetooth devices after a Bluetooth connection has been established, but it will still be able to discover other Bluetooth devices and request connections to them.

Devices tab

This is where all devices that your phone has already paired with are listed, even if they are not within reach and Bluetooth-activated for the moment.

Pairing with a device

Select **New device** to pair with a new device. The phone will then search for visible Bluetooth devices within range. To pair with one of the devices, select it in the list and enter the passcode (also called passkey) if you are asked to. Ask the person owning or providing the other device for the passcode.

If you are pairing with a Bluetooth headset, the headset may have auto pairing functionality. This means you do not have to initiate pairing, as the headset does so when switched on. It also means you do not have to enter a passcode, but you must still confirm the pairing.

When you select a device from the list, a list of options opens:

Device options

Device name – select to change the name of the device. This only affects how the device is presented in your phone.

Trust this device – allows the device to connect to your phone without your confirmation every time.

Enable as audio – to use the device (for example, a Bluetooth headset) in audio applications. Devices enabled for audio are listed in the audio tab .

Bluetooth services

The services (sometimes called profiles) supported by the connected device are listed in the detail view for the device. On the  tab, select the device and then select the right **Services** tab.

For more information on Bluetooth connections, see *Bluetooth wireless technology* on page 96.

Audio tab

This is where all paired devices that are marked **Enable as audio** are listed. You can later disable a device for audio to prevent your phone from accidentally transferring sound to it.

Infrared port

Select **Tools > Control panel > Connections > Infrared** to activate the infrared port.

Infrared options

On or On for 10 minutes – switches the port on.

Off – switches the port off.

Internet accounts

See *Setting up Internet, email and MMS* on page 101.

Mobile networks

Select **Tools > Control panel > Connections > Mobile networks** to set the way your phone should choose available network, when you are outside your operator's coverage area. **Mobile networks** has two tabs, **Search** and **Preferred list**.

Search tab

The phone searches for a network. You can choose between **Automatic** or **Manual** search.

Mobile networks menu

Select network – start a search for a network.

New search – search for the next network in the preferred list.

Preferred list tab

You can set a list of preferred networks. Your phone will select the network with the highest priority, if it is found. To add a network to the list, select **Add** and select a network. Set the desired priority and select **Done**. To delete a network from the list, select the network and select **Delete**. Confirm with **Yes**.

Mobile networks menu

Filter networks – set filter criteria, to choose the network type(s) that should be shown in the list. Choose between **GSM**, **3G** and **Both**.

Note: *Your operator may not allow you to access all available networks.*

USB

Select **Tools > Control panel > Connections > USB** to display the USB settings of your phone.

USB functionality options

Phone mode – allows synchronization, backup, restore, file handling, and modem usage.

File transfer – allows transfer of music files and images to and from the phone using computer applications like Sony Disc2Phone and Adobe Photoshop Album SE. It also allows using your phone as a general storage device for a connected computer.

Mark **Allow USB charging** to enable phone battery charging over USB. It is recommended not to use this function when connecting to an un-powered USB hub or to a device only using battery power.

Note: *During data transfer over USB, do not change the USB settings or disconnect the phone from the other device, as this may cause a data loss.*

Wireless LAN

Select **Tools > Control panel > Connections > WLAN** to activate your phone for wireless LAN, to find and access a wireless LAN, and to create a wireless LAN account. You can also create and maintain wireless LAN accounts from Internet accounts on the Connections

panel, see *Setting up accounts* on page 101 for more information.

Activating wireless LAN

Note: *In France, you are only allowed to use wireless LAN indoors.*

To activate wireless LAN, mark **Enable WLAN** in the **WLAN** menu. To save battery, disable wireless LAN when you not need it.

Note: *If you want to use wireless LAN in Flight mode, make sure that Flight mode is enabled before you choose wireless LAN, as wireless LAN is disabled by default in Flight mode.*

Finding a network

Select **Scan** to find available wireless LAN networks. The networks found are listed in alphabetical order, with icons indicating network quality and type:



Good connection quality



Medium connection quality



Low connection quality



The network is configured and the phone has an account for it



The network is a secured network, requiring encryption keys for access

To use a specific network, select it and tap .

Finding a specific network

Use **Find SSID** in the **WLAN** menu to find a specific network instead of scanning for it. This way you can find networks whose names are not publicly visible. Looking for an SSID is also useful when there are more networks in your vicinity than the phone is able to display, and a network you require is not listed after scanning.

Kinds of networks

The kind of network decides how the phone will connect to it (regardless of any Internet group accounts in the phone):

- **Hot spot** – connects temporarily, using an account that is automatically created in the background.
- **Configured network** – connects using an existing account.
- **Not configured network** – starts the account setup, since an account for the network is needed.

Wireless LAN account setup

There are several ways to start the account setup for a wireless LAN, for example:

- Select **Tools > Control panel > Connections > Internet accounts** and then select **New account > WLAN** in the **Internet accounts** menu.
- Select **Tools > Control panel > Connections > WLAN** and then select **New account** in the **WLAN** menu.
- Connect to a network for which no account exists and the setup is automatically initiated.

The **WLAN** menu, mentioned above, is also where you go to find the **MAC** address of the phone.

The account setup includes a number of steps, described below.

Note: *Information on authentication methods, encryption and other network configuration settings must be supplied by the wireless LAN provider.*

First step: Basic information

The first setup screen defines basic information for the account:

- **Account name** – enter a name for your account.
- **Network name (SSID)** – unless the network is already filled in, enter an SSID or select  to scan for networks and select one of them.
- **Authentication** – choose an authentication mode.
- **Network mode** – when connecting to a wireless access point, select **Infrastructure**.

- **Ad hoc channel!** – only for the **Ad hoc** network mode, which is when a phone connects directly to another device.

Second step: Authentication and encryption

The next step depends on the authentication mode selected in the previous step. Certain modes require further parameters for encryption and authentication to be defined.

Third step: Confirming setup and changing advanced settings

On the last screen, confirm your settings. If needed, use the **WLAN setup** menu to view and edit, for example, the IP address of your phone and the DNS addresses.

Select **Advanced** in the same menu to enable power saving and change the RTS threshold value. Power saving is recommended to be on, but in certain situations, the available wireless LAN access point requires it to be off to ensure a reliable throughput.

Tip These advanced settings are available during the entire setup process, not just from this screen.

Editing a wireless LAN account

To modify an existing wireless LAN account, select **Tools > Control panel > Connections > Internet accounts**. Then select the account and make your changes.

Note: If you change authentication, its detail settings have to be configured.

Disconnecting from a network

To disconnect from a network, tap  in the status bar. Highlight your connection and select **Close connection** in the **Connections mgr** menu. To save battery, also unmark **Enable WLAN** from **Tools > Control panel > Connections > WLAN**.

For more information on wireless LAN connections, see *Wireless LAN* on page 98.

Device

Backlight

You can select how the display and keyboard backlight should behave for handheld use and when the phone is in a car holder. The lower the brightness you choose, the longer the battery will last before it needs charging. Set the car holder levels low enough so that you sustain natural night vision.

Select **Tools > Control panel > Device > Backlight** to make the settings.

Settings tab

Auto – backlight switches on when you tap the screen, press a key or receive an incoming call. After a short time of inactivity the light switches off.

On – backlight is always on, but after about a short time of inactivity it fades to the dimmed level that you can adjust on the Brightness tab.

Brightness tab

Select the backlight mode from the drop-down menu, tap **Brightness** and adjust the level with the slider or the Jog Dial.

Select **Default** to reset all light levels to the factory values.

Device management

Device management enables the remote distribution of settings for your phone, for example Internet, email, SMS and MMS. It also makes it possible to manage (list, install, update and uninstall) themes and client software on the phones. Device management is useful if an enterprise has, for example, defined a set of standard software that should be used on all employees' phones.

To enter the settings or manage software in the phone, a device management session is setup between the phone and a device management server. The session can be initiated from the phone by you or from the server.

Device management dialog

Select **Tools > Control panel > Device > Device management**. The device management server profiles, if any, are listed. The profiles settings describe how the profile will handle the start of a Device management session and the notifications given during the session. In the device management dialog you can:

- Initiate the phone management session by highlighting a profile and selecting **Connect**.
- Create a new device management server profile manually by selecting **New**.
- Initiate reconfiguration for a new operator by selecting **Clear ACL**. This might be necessary if your phone is already configured for another operator.
- Edit or delete device management server profiles.

Note: *A profile may be locked by the operator. If it is, you cannot edit or delete the profile or clear ACL.*

The device management dialog consists of two tabs, the **Details** tab and the **Settings** tab. In the **Details** tab you edit details for the connection, like user name for the

account on the device management server and the server ID and address. In the **Settings** tab you set the behaviour of the device management session.

Flight mode

In Flight mode, the phone's radio functions and FM radio are switched off. You can still use the organizer applications, and applications that can use a wireless LAN connection.

Note: *If you want to use wireless LAN in Flight mode, make sure that Flight mode is enabled before you choose wireless LAN, as wireless LAN is disabled by default in Flight mode.*

Select **Tools > Control panel > Device > Flight mode** and choose whether you want to be prompted or not to choose between *Flight mode* or *Phone on* whenever you press the On/Off button.

In Flight mode the Flight mode icon  is visible in the status bar. To change mode, you can either tap this icon or, when in Phone mode, the Signal strength icon .

Hardware buttons

You can personalize the function of the shortcut button and the media player button. Select **Tools > Control panel > Device > Hardware buttons** to make the settings.

The **Internet button** can be set to open any of the following: Activity menu, Internet, Main menu, Media player, Sound recorder, Task manager or Video telephony.

The setting for the **Media player button** determines what should happen when you press and hold it, and neither the Music player nor the FM radio is running. You have three choices: Play music, Play radio or Play last. Play last means that when you press and hold the button, the phone will start either the radio or play music depending on which of these two applications you used last.

Playing will resume in the background, so any other application you are currently using will remain active.

Location

Select **Tools > Control panel > Device > Location** to set **Current time zone** and **Zone of interest** which appear with their current time and date in the application **Time**.

Select the required field and select a time zone or a city in the time zone you want to display.

Home time zone is not actually displayed in Time but makes it easier to reset your current time zone when you return home.

Location menu options

Set updates – when you travel across time zones, your phone can receive information from the network and automatically set its clock to show the local time.

Number formats

Select **Tools > Control panel > Device > Number formats** to set the format used to display distances, decimal separator, thousands separator, currency and symbol position. The default values depend on the language you have selected.

Power save

Select **Tools > Control panel > Device > Power save** to set power save behaviour.

If you have set **Tools > Control panel > Device >**

Backlight to Auto, the phone will automatically turn the backlight off to save power. If you have set Backlight to

On, you can still save power by selecting **Power save enabled**. This will make the screen go blank after a period of inactivity.

Active after determines how long after you stop using the phone that the screen should go blank.

Screen saver

Select **Tools > Control panel > Device > Screen saver** to select the type of screen saver you want. You can use the default screen saver or select a picture. You can also select a folder of pictures to be used as a slide show.

Set a time for the **automatic input lock** if you wish to activate the keyboard lock after a period of inactivity. You can set a time between 1 and 30 minutes.

Sounds & alerts

Ringtones

Select **Tools > Control panel > Device > Sounds & alerts > Ringtones** to choose ringtones for incoming voice and data & fax calls in the drop-down menus. Tap and drag the volume slider, or rotate the Jog Dial, to adjust the ringtone level. To preview a sound tap . If

you select **Increase ring** the ringing signal will start out low and gradually increase in volume.

You can further personalize your phone by assigning different ringtones to different contacts; see *Adding a personal ringtone to a contact* on page 59.

Message alerts

Select **Tools > Control panel > Device > Sounds & alerts > Message alerts** to select sounds to be played when you get different kinds of messages. If you select **Display notification**, a dialog will be displayed on the screen when a message arrives.

Alarms

Select **Tools > Control panel > Device > Sounds & alerts > Alarms** to select sounds and adjust the volume for calendar and clock alarms. Alarms require that the phone is turned on. If you want to hear alarms but not be disturbed by incoming calls or messages, set the phone in Flight mode.

Note: *The FM radio is disabled in Flight mode, so if you choose the FM radio as alarm and enter flight mode, the default alarm sound will play instead.*

Vibrating alerts

Select **Tools > Control panel > Device > Sounds & alerts > Vibrating alerts** and then select for which events the phone should vibrate. **On if silent** means the phone will vibrate only when it has been set to silent mode. For more information, see *Silent mode* on page 33.

Buttons & screen

Select **Tools > Control panel > Device > Sounds & alerts > Buttons & screen** and then select sounds for when you press keys and buttons and tap the screen.

Equalizer

The equalizer changes the frequency balance of the sound from the Media player. Select **Tools > Control panel > Device > Sounds & alerts > Equalizer** to make the settings. The drop-down menu contains presets for different music genres. Mega Bass is a setting that provides more powerful bass tones regardless of volume.

Storage wizard

See *Storage wizard* on page 94.

Text input

Select **Tools > Control panel > Device > Text input** to do the following:

- Change the settings in the text options menu of the text entry applications, see *Text Entry* on page 25.
- Select and setup text input software.

Predictive text – select languages for predictive text entry and select if you want predictive text to be active when the flip is closed and/or open.

If predictive text is active with the flip closed, you can select whether you want a word suggestion choice list to be displayed.

Auto capitalization – select if you want auto capitalization to be active when the flip is closed and/or open.

Handwriting – select if you want a software for handwriting recognition to be active. The Jot Pro software is delivered with the phone and is default.

The JotPro software takes handwriting input simultaneously with the keyboard. You may install third party handwriting recognition software, but keyboard input will only be supported if it is enabled in that software. If the software has a setup option you will be able to access it through the **Setup** button.

Virtual keyboard – select this if you want the virtual keyboard to be available when entering text with the

flip open. Use the **Setup** button to select language for the keyboard layout.

Flip closed keypad – select your preferred software for text input with the flip closed.

Themes

You can select a theme to personalize the appearance of your phone. Themes control, for example, the colour of the screen and text, the icons, the wallpaper and skins. Themes also include a set of sounds to use as ringtones and SMS and MMS alerts.

Select **Tools > Control panel > Device > Themes** to choose a theme from the list and view it. Select **Use theme** to apply the theme.

Select **Themes** menu to either **Delete theme** or **Send theme**. It is not possible to delete a theme that is currently in use or a pre-defined theme.

Copyright-protection may prevent content from being copied, modified or transferred. If a file is copyrighted, or if an access key has expired or is unavailable, an icon is displayed at the file name.

Time & date

Select **Tools > Control panel > Device > Time & date** to set the current time and date. You can also select the date and time format. Select the required field and make the settings.

Time & date menu options

Set updates – when you travel across time zones, your phone can receive information from the network and automatically set its clock to show the local time.

Set workdays – specify the workdays and the first day of the week.

User greeting

Select **Tools > Control panel > Device > User greeting** to choose whether you want a user greeting to be displayed every time the phone is turned on. The maximum number of characters that can be entered is 32.

Wallpaper

Select **Tools > Control panel > Device > Wallpaper** to set a background picture for the standby view. You can

set different background pictures for flip open and flip closed. Select **Replace** and browse to the picture you want to use.

Use the slider to adjust the size of the image or mark the **Title** check box to fill the screen with additional copies of the chosen image.

Wallpaper menu options

Remove picture – remove the background picture.

Picture from theme – select a picture from a theme.

Messaging settings

Area information

Area information messages are text messages broadcast to all subscribers in a network area, for example information from your service provider or weather reports. This is a service provider-dependent service. Using the settings described below, you can subscribe to and activate different information channels.

Select **Tools > Control panel > Messaging settings > Area information** and enter the settings.

Email accounts

See *Setting up Internet, email and MMS* on page 101.

MMS accounts

See *Setting up Internet, email and MMS* on page 101.

SMS

Select **Tools > Control panel > Messaging settings > SMS account** to set up text messaging, SMS and EMS.

Wap push

Select **Tools > Control panel > Messaging settings >**

Wap push to set the way your phone handles incoming

Wap push service loading messages.

WAP push

Automatically – select this to always have a service loading message received and the subscribed content loaded automatically in the Web browser if possible. If the browser is not available a notification is given.

Always ask – select this to be notified that a service loading is available for loading. Service indication messages also give a notification.

Never - All Wap push service loading messages are ignored.

Security

Certificate manager and Java certificates

Digital certificates are used to verify the origin of the Web pages you visit or any software you install. Select **Tools > Control panel > Security > Certificate manager** to view current Certificate Authority certificates and your user certificate in your phone. Select **Tools > Control panel > Security > Java certificates** to view the current Java certificates. The certificates have been created and issued by an independent organization that ensures their authenticity.

Locks

The phone has four security locks that you can set from the control panel by selecting **Tools > Control panel > Security > Locks**.

Phone lock

This is a lock code that you can use to protect your phone from unauthorized use. When you start the phone for the first time, the lock code is 0000, but you can change it to any four-to-eight digit code in the **Locks** menu. Your **Phone lock** setting options are:

- **At power on** – you will be requested to enter the code every time you turn the phone on.
- **Off** – the lock is turned off, no code will be requested.
- **When SIM changed** – the code will only be requested if the SIM card has been changed.

SIM card lock

Your PIN (Personal Identification Number) code consists of four to eight digits and is used to protect your SIM card against unauthorized use. It is needed for the access of the SIM card. You get it from your operator with the SIM card, but you can change it in the **Locks** menu. Your **SIM card lock** setting options are:

- **At power on** – you will be requested to enter your PIN code every time you turn the phone on.
- **Off** – the lock is turned off, no code will be requested.

An error message informs you if an incorrect PIN code has been entered. Usually, the SIM card will be blocked

after three incorrect attempts (the number of attempts is operator-dependent). To unlock the SIM card you must use your PUK code.

The PUK code consists of eight digits. When you have entered the right PUK code you must enter a new PIN code. You have ten attempts to enter the PUK code. If all ten attempts fail, the SIM card will be unusable and you need to contact your operator. You cannot change the PUK code.

The PIN2 code

Some special SIM card services, such as Call meter and Fixed Numbers, can be protected by a secondary code feature, the PIN2 code. The code properties are:

- **PIN2** cannot be disabled, but the four-to-eight digit code can be changed in the **Locks** menu.
- **PIN2** will be blocked after three incorrect attempts.
- To unlock the code, a PUK2 code must be entered.
- After 10 unsuccessful PIN2 unlocking attempts, the card can still be used, but access to the PIN2-protected SIM features is permanently barred.
- Not every SIM card has a PIN2 lock.

Inactivity lock

If you mark the **Inactivity lock** check box and enter the requested **Phone lock** code, this lock will be activated.

It protects the screen from accidentally being pressed, and from unauthorized use, when the flip is open or with the flip removed. The screen will automatically become locked after a 60 seconds period of inactivity. To open it, touch any key to bring up a dialog where you must enter the **Phone lock** code.

Automatic key lock

If you mark the **Automatic key lock** check box, the keypad becomes automatically locked after a period of inactivity. This is to prevent you from accidentally pressing any key. To unlock the key lock, use the hardware slider or select  **> Unlock**.

MIDlet settings

A MIDlet suite is a Java application package.

Sometimes MIDlets may want to initiate actions that require your permission. This could be actions such as

- opening a connection
- automatically starting the MIDlet in response to an incoming connection
- sending an SMS

A **MIDlet permission request** dialog is displayed where you allow or deny the request, perhaps because they involve privacy or network charges.

Select **Tools > Control panel > Security** to access the two applications where you enter MIDlet settings in the phone, **MIDlet accounts** and **MIDlet permissions**.

MIDlet accounts

A MIDlet Suite can be tied to a certain Internet account. In **MIDlet accounts** the currently installed MIDlet Suites are listed. You can change the Internet account of a MIDlet Suite by selecting it and choosing between the Internet accounts and VPN accounts that are set up in the phone.

MIDlet permissions

In **MIDlet permissions** you have the possibility to set the conditions under which a request will be raised in your phone when a MIDlet Suite wants to initiate a certain action. You can change a MIDlet Suite permission by selecting it and modifying the **User Permissions** and how you wish the phone to respond to that user permission, the **Interaction mode**.

VPN accounts

Virtual Private Network (VPN) is a secure way to provide access to an organization's network via the Internet. Select **Tools > Control panel > Security > VPN Accounts** to create a VPN account.

Other

Format disk

See *Formatting a Memory Stick* on page 93.

Install

See *Installing applications* on page 94.

Language

Select a language from the list to change the language in your phone. The language currently in use is highlighted. You can delete all languages except English.

You can download additional languages from www.sonyericsson.com/support.

Master reset

Use **Master reset** to reset your phone

Important: *All user data, as well as pre-installed media files and application data files (including, for example, backgrounds, ringtones and pictures), will be deleted and settings will be set to the state they were after you selected the language. The selected local language will be restored.*

If you have backed up your user data, you can restore it from the backup, see *Restoring data* on page 100.

You can restore media files and application data files from www.sonyericsson.com/support.

If you want to keep installed applications, unmark the **Delete user installed applications** check box.

Setup wizard

Setup wizard is normally run the first time you start your phone. It guides you through basic phone settings and shows some useful tips. Setup wizard can also be accessed from **Control panel > Other > Setup wizard** at any time. When opened from Control panel, Setup wizard will also include a step to calibrate the screen.

Uninstall

See *Removing applications* on page 94.

Troubleshooting

To find suggestions for solving possible problems with your phone we advise you to visit

www.sonyericsson.com/support. Select your Region, Location and phone to find helpful information.

Your phone also has built-in help texts that you can access with the flip open. In most applications, **Help** is available in the application menu. Some dialogs, for example those where you make important settings, have specific Help available. To view this Help, tap .

To improve performance, you can update the software of your phone. See *Updating software* on page 23.

If you need to hand in your phone for repair, please note that you may lose information and content that you have saved in your phone. You are advised to make a copy of such information, see *Backing up data* on page 100.

Important information

Sony Ericsson Consumer Web site

On www.sonyericsson.com/support there is a support section where help and tips are only a few clicks away. Here you find the latest computer software updates and tips on how to use your product more efficiently.

Service and support

From now on you will have access to a portfolio of exclusive service advantages such as:

- Global and local web sites providing support.
- A global network of Call Centers
- An extensive network of Sony Ericsson service partners.

A warranty period. Learn more about the warranty conditions in this user guide.

On www.sonyericsson.com, under the support section in the language of your choice, you will find the latest support tools and information, such as software updates,

Knowledgebase, Phone setup and additional help when you require it.

For operator-specific services and features, please contact your network operator for more information.

You can also contact our Call Centers. See the phone number for the nearest Call Center in the list below. If your country/region is not represented in the list, please contact your local dealer. (The phone numbers below were correct at the time of going to print. On www.sonyericsson.com you can always find the latest updates.)

In the unlikely event that your product needs service please contact the dealer from whom it was purchased or one of our service partners. Save your original proof of purchase, you will need it if you need to claim warranty. For a call to one of our Call Centers you will be charged according to national rates, including local taxes, unless the phone number is a toll-free number.

<i>Country</i>	<i>Phone number</i>	<i>Email address</i>
Australia	1-300 650 050	questions.AU@support.sonyericsson.com

<i>Country</i>	<i>Phone number</i>	<i>Email address</i>
Argentina	800-333-7427	questions.AR@support.sonyericsson.com
Austria	0810 200245	questions.AT@support.sonyericsson.com
Belgium	02-7451611	questions.BE@support.sonyericsson.com
Brazil	4001-0444	questions.BR@support.sonyericsson.com
Canada	1-866-766-9374	questions.CA@support.sonyericsson.com
Central Africa	+27 112589023	questions.CF@support.sonyericsson.com
Chile	123-0020-0656	questions.CL@support.sonyericsson.com
China	4008100000	questions.CN@support.sonyericsson.com
Colombia	18009122135	questions.CO@support.sonyericsson.com
Croatia	062 000 000	questions.HR@support.sonyericsson.com
Czech Republic	844 550 055	questions.CZ@support.sonyericsson.com
Denmark	33 31 28 28	questions.DK@support.sonyericsson.com
Finland	09-299 2000	questions.FI@support.sonyericsson.com
France	0 825 383 383	questions.FR@support.sonyericsson.com
Germany	0180 534 2020	questions.DE@support.sonyericsson.com
Greece	801-11-810-810 210-89 91 919 from mobile	questions.GR@support.sonyericsson.com
Hong Kong	8203 8863	questions.HK@support.sonyericsson.com
Hungary	06 1 437 7300	questions.HU@support.sonyericsson.com

<i>Country</i>	<i>Phone number</i>	<i>Email address</i>
India	39011111 (Add STD code when dialling from a GSM connection)	questions.IN@support.sonyericsson.com
Indonesia	021-2701 388	questions.ID@support.sonyericsson.com
Ireland	1850 545 888	questions.IE@support.sonyericsson.com
Italy	06 48895206	questions.IT@support.sonyericsson.com
Malaysia	1-800-889900	questions.MY@support.sonyericsson.com
Mexico	01 800 000 4722 (national toll free number)	questions.MX@support.sonyericsson.com
Netherlands	0900 899 8318	questions.NL@support.sonyericsson.com
New Zealand	0800-100150	questions.NZ@support.sonyericsson.com
Norway	815 00 840	questions.NO@support.sonyericsson.com
Philippines	02-6351860	questions.PH@support.sonyericsson.com
Poland	0 (prefix) 22 6916200	questions.PL@support.sonyericsson.com
Portugal	808 204 466	questions.PT@support.sonyericsson.com
Romania	(+4021) 401 0401	questions.RO@support.sonyericsson.com
Russia	8(495) 787 0986	questions.RU@support.sonyericsson.com
Singapore	67440733	
Slovakia	02-5443 6443	questions.SK@support.sonyericsson.com
South Africa	0861 632222	questions.ZA@support.sonyericsson.com
Spain	902 180 576	questions.ES@support.sonyericsson.com

<i>Country</i>	<i>Phone number</i>	<i>Email address</i>
Sweden	013-24 45 00	questions.SE@support.sonyericsson.com
Switzerland	0848 824 040	questions.CH@support.sonyericsson.com
Taiwan	02-25625511	questions.TW@support.sonyericsson.com
Thailand	02-2483030	questions.TH@support.sonyericsson.com
Turkey	0212 47 37 777	questions.TR@support.sonyericsson.com
Ukraine	(+380) 44 590 1515	questions.UA@support.sonyericsson.com
United Arab Emirates	43 919880	questions.AE@support.sonyericsson.com
United Kingdom	08705 23 7237	questions.GB@support.sonyericsson.com
United States	1-866-766-9374	questions.US@support.sonyericsson.com
Venezuela	0-800-100-2250	questions.VE@support.sonyericsson.com

Guidelines for safe and efficient use

Please read this information before using your mobile phone.

These instructions are intended for your safety. Please follow these guidelines. If the product has been subject to any of the conditions listed below or you have any doubt of the proper function make sure to have the product checked by certified service partner before charging



or using it. Failure to do so might lead to risk for product malfunction or even a potential hazard to your health.

Important: To avoid hearing impairment when you answer calls, lower the volume before placing the phone to your ear.

Recommendations for safe use of product (mobile phone, battery, charger and other accessories)

- Always treat your product with care and keep it in a clean and dust-free place.

WARNING! May explode if disposed of in fire.

- Do not expose your product to liquid or moisture or humidity.
- Do not expose your product to extreme high or low temperatures. Do not expose the battery to temperatures above +60 °C (+140 °F).
- Do not expose your product to open flames or lit tobacco products.
- Do not drop, throw or try to bend your product.
- Do not paint your product.
- Do not attempt to disassemble or modify your product. Only Sony Ericsson authorised personnel should perform service.
- Do not use your product near medical equipment without requesting permission.
- Do not use your product when in, or around aircraft, or areas posted "turn off two-way radio".
- Do not use your product in an area where a potentially explosive atmosphere exists.
- Do not place your product or install wireless equipment in the area above your car's air bag.



CHILDREN

KEEP OUT OF CHILDRENS REACH. DO NOT ALLOW CHILDREN TO PLAY WITH YOUR MOBILE PHONE OR ITS ACCESSORIES. THEY COULD HURT THEMSELVES OR OTHERS, OR COULD ACCIDENTALLY DAMAGE THE MOBILE PHONE OR ACCESSORY. YOUR MOBILE PHONE OR ITS ACCESSORY MAY CONTAIN SMALL PARTS THAT COULD BE DETACHED AND CREATE A CHOKING HAZARD.

Power supply (Charger)

Connect the AC power adapter only to designated power sources as marked on the product. Make sure the cord is positioned so that it will not be subjected to damage or stress. To reduce risk of electric shock, unplug the unit from any power source before attempting to clean it. The AC power adapter must not be used outdoors or in damp areas. Never alter the cord or plug. If the plug will not fit into the outlet, have a proper outlet installed by a qualified electrician.

Use only Sony Ericsson branded original chargers intended for use with your mobile phone. Other chargers may not be designed to the same safety and performance standards.

Battery

We recommend that you fully charge the battery before you use your mobile phone for the first time. A new battery or one that has not been used for a long time could have reduced capacity the first few times it is used. The battery should only be charged in temperatures between +5 °C (+41 °F) and +45 °C (+113 °F).



Use only Sony Ericsson branded original batteries intended for use with your mobile phone. Using other batteries and chargers could be dangerous.

The talk and standby times depend on several different conditions such as signal strength, operating temperature, application usage patterns, features selected and voice or data transmissions when using the mobile phone.

Turn off your mobile phone before removing the battery. Do not allow the battery to be put into the mouth. Battery electrolytes may be toxic if swallowed. Do not let the metal contacts on the battery touch another metal object. This could short-circuit and damage the battery. Use the battery for the intended purpose only.

Personal medical devices

Mobile phones may affect the operation of cardiac pacemakers and other implanted equipment. Please avoid placing the mobile phone over the pacemaker, e.g. in your breast pocket. When using the mobile phone, place it at the ear opposite the pacemaker. If a minimum distance of 15 cm (6 inches) is kept between the mobile phone and the pacemaker, the risk of interference is limited. If you have any reason to suspect that interference is taking place, immediately turn off your mobile phone. Contact your cardiologist for more information. For other medical devices, please consult your physician and the manufacturer of the device.

Driving

Please check if local laws and regulations restrict the use of mobile phones while driving or require drivers to use handsfree

solutions. We recommend that you use only Sony Ericsson handsfree solutions intended for use with your product.

Please note that because of possible interference to electronic equipment, some vehicle manufacturers forbid the use of mobile phones in their vehicles unless a handsfree kit with an external antenna supports the installation.

Always give full attention to driving and pull off the road and park before making or answering a call if driving conditions so require.

Emergency calls

Mobile phones operate using radio signals, which cannot guarantee connection under all conditions. Therefore you should never rely solely upon any mobile phone for essential communications (e.g. medical emergencies).

Emergency calls may not be possible in all areas, on all cellular networks, or when certain network services and/or mobile phone features are in use. Check with your local service provider.

Antenna

This phone contains a built in antenna. Use of antenna devices not marketed by Sony Ericsson specifically for this model could damage your mobile phone, reduce performance, and produce SAR levels above the established limits (see below).

Efficient use

Hold your mobile phone as you would any other phone. Do not cover the top of the phone when in use, as this affects call quality and may cause the phone to operate at a higher power level than needed, thus shortening talk and standby times.

Radio frequency (RF) exposure and SAR

Your mobile phone is a low-power radio transmitter and receiver. When it is turned on, it emits low levels of radio frequency energy (also known as radio waves or radio frequency fields). Governments around the world have adopted comprehensive international safety guidelines, developed by scientific organizations, e.g. ICNIRP (International Commission on Non-Ionizing Radiation Protection) and IEEE (The Institute of Electrical and Electronics Engineers Inc.), through periodic and thorough evaluation of scientific studies. These guidelines establish permitted levels of radio wave exposure for the general population. The levels include a safety margin designed to assure the safety of all persons, regardless of age and health, and to account for any variations in measurements.

Specific Absorption Rate (SAR) is the unit of measurement for the amount of radio frequency energy absorbed by the body when using a mobile phone. The SAR value is determined at the highest certified power level in laboratory conditions, but the actual SAR level of the mobile phone while operating can be well below this value. This is because the mobile phone is designed to use the minimum power required to reach the network.

Variations in SAR below the radio frequency exposure guidelines do not mean that there are variations in safety. While there may be differences in SAR levels among mobile phones, all Sony Ericsson mobile phone models are designed to meet radio frequency exposure guidelines.

For phones sold in the U.S., before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed

in positions and locations (that is, at the ear and worn on the body) as required by the FCC for each model. For body worn operation, this phone has been tested and meets FCC RF exposure guidelines when the handset is positioned a minimum of 15 mm from the body without any metal parts in the vicinity of the phone or when used with the original Sony Ericsson body worn accessory intended for this phone. Use of other accessories may not ensure compliance with FCC RF exposure guidelines. A separate leaflet with SAR information for this mobile phone model is included with the material that comes with this mobile phone. This information can also be found, together with more information on radio frequency exposure and SAR, on: www.sonyericsson.com.

Accessible Solutions/Special Needs

For phones sold in the U.S., you can use your TTY terminal with your Sony Ericsson mobile phone (with the necessary accessory). For information on Accessible Solutions for individuals with special needs call the Sony Ericsson Special Needs Center at 877 878 1996 (TTY) or 877 207 2056 (voice), or visit the Sony Ericsson Special Needs Center at www.sonyericsson-snc.com.

Disposal of old electrical & electronic equipment

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of



correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources.

For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Disposing of the battery

Please check local regulations for disposal of batteries or call your local Sony Ericsson Call Center for information.

The battery should never be placed in municipal waste. Use a battery disposal facility if available.



End User Licence Agreement

This wireless device, including without limitation any media delivered with the device, ("Device") contains software owned by Sony Ericsson Mobile Communications AB and its affiliated companies ("Sony Ericsson") and its third party suppliers and licensors ("Software").

As user of this Device, Sony Ericsson grants you a non-exclusive, non-transferable, non-assignable license to use the Software solely in conjunction with the Device on which it is installed and/or delivered with. Nothing herein shall be construed as a sale of the Software to a user of this Device.

You shall not reproduce, modify, distribute, reverse engineer, decompile, otherwise alter or use any other means to discover the source code of the Software or any component of the Software. For avoidance of doubt, you are at all times entitled to transfer all rights and obligations to the Software to a third party, solely together with the Device with which you received the Software, provided always that such third party agrees in writing to be bound by these rules.

You are granted this license for a term of the useful life of this Device. You can terminate this license by transferring all your rights to the Device on which you have received the Software to a third party in writing. If you fail to comply with any of the terms and conditions set out in this license, it will terminate with immediate effect.

Sony Ericsson and its third party suppliers and licensors are the sole and exclusive owner of and retain all rights, title and interest in and to the Software. Sony Ericsson, and, to the extent that the Software contains material or code of a third party, such third party, shall be entitled third party beneficiaries of these terms. The validity, construction and performance of this license shall be governed by the laws of Sweden. The foregoing shall apply to the full extent permitted by, when applicable, statutory consumer rights.

Limited Warranty

Sony Ericsson Mobile Communications AB, S-221 88 Lund, Sweden, (Sony Ericsson), provides this Limited Warranty for your mobile phone and original accessory delivered with your mobile phone (hereinafter referred to as "Product").

Should your Product need warranty service, please return it to the dealer from whom it was purchased, or contact your local Sony Ericsson Call Center (national rates may apply) or visit www.sonyericsson.com/support to get further information.

Our warranty

Subject to the conditions of this Limited Warranty, Sony Ericsson warrants this Product to be free from defects in design, material and workmanship at the time of its original purchase by a consumer, and for a subsequent period of one (1) year.

What we will do

If, during the warranty period, this Product fails to operate under normal use and service, due to defects in design, materials or workmanship, Sony Ericsson authorised distributors or service partners, in the country/region* where you purchased the Product, will, at their option, either repair or replace the Product in accordance with the terms and conditions stipulated herein. Sony Ericsson and its service partners reserve the right to charge a handling fee if a returned Product is found not to be under warranty according to the conditions below.

Please note that some of your personal settings, downloads or other information may be lost when your Sony Ericsson Product is repaired or replaced. At present Sony Ericsson may be prevented by applicable law, other regulation or technical restrictions from making a backup copy of certain downloads. Sony Ericsson does not take any responsibility for any lost information of any kind and will not reimburse you for any such loss. You should always make backup copies of all the information stored on your Sony Ericsson Product such as

downloads, calendar and contacts before handing in your Sony Ericsson Product for repair or replacement.

Conditions

1. The warranty is valid only if the original proof of purchase issued to the original purchaser by a Sony Ericsson authorised dealer, specifying the date of purchase and serial number**, for this Product, is presented with the Product to be repaired or replaced. Sony Ericsson reserves the right to refuse warranty service if this information has been removed or changed after the original purchase of the Product from the dealer.
2. If Sony Ericsson repairs or replaces the Product, the repaired or replaced Product shall be warranted for the remaining time of the original warranty period or for ninety (90) days from the date of repair, whichever is longer. Repair or replacement may involve the use of functionally equivalent reconditioned units. Replaced parts or components will become the property of Sony Ericsson. This warranty does not cover any failure of the Product due to normal wear and tear, or due to misuse, including but not limited to use in other than the normal and customary manner, in accordance with the Sony Ericsson instructions for use and maintenance of the Product. Nor does this warranty cover any failure of the Product due to accident, software or hardware modification or adjustment, acts of God or damage resulting from liquid. A rechargeable battery can be charged and discharged hundreds of times. However, it will eventually wear out – this is not a defect. When the talk-time or standby time is noticeably shorter, it is time to replace your battery. Sony Ericsson recommends
- 3.

that you use only batteries and chargers approved by Sony Ericsson. Minor variations in display brightness and color may occur between phones. There may be tiny bright or dark dots on the display. These are called defective pixels and occur when individual dots have malfunctioned and can not be adjusted. Two defective pixels are deemed acceptable. Minor variations in camera image appearance may occur between phones. This is nothing uncommon and is not regarded as a defective camera module.

4. Since the cellular system on which the Product is to operate is provided by a carrier independent from Sony Ericsson, Sony Ericsson will not be responsible for the operation, availability, coverage, services or range of that system.
5. This warranty does not cover Product failures caused by installations, modifications, or repair or opening of the Product performed by a non-Sony Ericsson authorised person.

6. The warranty does not cover Product failures which have been caused by use of accessories or other peripheral devices which are not Sony Ericsson branded original accessories intended for use with the Product.

7. Tampering with any of the seals on the Product will void the warranty.

8. THERE ARE NO EXPRESS WARRANTIES, WHETHER WRITTEN OR ORAL, OTHER THAN THIS PRINTED LIMITED WARRANTY. ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. IN NO EVENT SHALL SONY ERICSSON OR ITS

LICENSORS BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOST PROFITS OR COMMERCIAL LOSS; TO THE FULL EXTENT THOSE DAMAGES CAN BE DISCLAIMED BY LAW.

Some countries/states do not allow the exclusion or limitation of incidental or consequential damages, or limitation of the duration of implied warranties, so the preceding limitations or exclusions may not apply to you.

The warranty provided does not affect the consumer's statutory rights under applicable legislation in force, nor the consumer's rights against the dealer arising from their sales/purchase contract.

*EUROPEAN UNION (EU)

If you have purchased your Product in an EU country you can have your Product serviced, under the conditions set out above, within the warranty period in any EU country where an identical Product is sold by an authorised Sony Ericsson distributor. To find out if your Product is sold in the EU country you are in, please call the local Sony Ericsson Call Center. Please observe that certain services may not be possible elsewhere than in the country of original purchase, for example due to the fact that your Product may have an interior or exterior which is different from equivalent models sold in other EU countries. It may not be possible to repair SIM-locked Products.

** In some countries/regions additional information is requested. If so, this is clearly shown on the valid proof of purchase.

FCC Statement

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.



Bluetooth wireless technology

Bluetooth Qualified Design ID is B011112.

Declaration of Conformity

We, **Sony Ericsson Mobile Communications AB** of
Nya Vattenornet

S-221 88 Lund, Sweden

declare under our sole responsibility that our product

Sony Ericsson type FAD-3022011-BV

and in combination with our accessories, to which this

declaration relates is in conformity with the appropriate

standards 3GPP TS 51.010-1, EN 301908-1, EN 300328, EN 301489-7, EN 301489-17, EN 301489-24, EN 60950, following the provisions of Radio Equipment and Telecommunication

Terminal Equipment directive **99/5/EC** with requirements

covering EMC directive **89/336/EEC**, and Low Voltage directive **73/23/EEC**.

Lund, March 2006

CE 0682

Shoji Nemoto

Head of Product Business Unit GSM/UMTS

We fulfil the requirements of the R&TTE Directive **99/5/EC**.

Technical data

General

Size	114 x 57 x 25 mm
Weight	155 g with battery and flip
Battery type and capacity	BST-34, 1120 mAh
System and power class	E-GSM 900 Class 4 GSM 1800 Class 1 GSM 1900 Class 1 UMTS 2100 Class 3
Operating system	Symbian OS v9.1 with UIQ 3.0 user interface and applications environment
Internal user storage	Up to 80 MB user data
Additional storage	Memory Stick PRO Duo, up to 8 GB supported. 64 MB Memory Stick PRO Duo supplied.

Connectivity

Cable	Fast port USB 2.0 compliant, low speed (1.5 Mbps) and full speed (12 Mbps)
Wireless LAN	802.11b compliant
Bluetooth™ wireless technology	This product is manufactured to comply with the Bluetooth specification 2.0
Infrared	IrDA-SIR and IrObex supported

Media formats

Image

BMP (bmp), GIF (gif, including animated), JPEG (jpg), MBM (mbm), PNG (png), WMBMP (wbm)

Audio

3GPP (.3ga), AAC-LC (aac), AAC+ (aac), E-AAC+ (aac), AMR-NB (amr), AU (au), iMelody (.imy), MIDI (.mid), SP-MIDI (.mid), MP3 (.mp3), Beatnik (.rmf), WAV (.wav), XMF (.mxmf), DLS, Real Audio (.ra), M3U playlists

Video

3GPP (.3gp), MP4 (.mp4), Real Media (.ram, rm)

Document formats

Microsoft Word 97, 2000, 2002 (XP), 2003

Microsoft Excel 97, 2000, 2002 (XP), 2003

Microsoft 97, 2000, 2002 (XP), 2003

PowerPoint

Adobe Acrobat 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6 (PDF)

Rear camera

Resolution 2 Megapixels

Auto focus range Normal: ~40 cm - infinity
Macro: ~12 cm - infinity

FM radio frequency range

87.5-108.0 MHz

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