

January 2009

W508

Walkman™ Your Style





Preface

Purpose of this document

This White paper will be published in several revisions as the phone is developed. Therefore, some of the headings and tables in this document contain limited information. Additional information and facts will be forthcoming in later revisions.

The aim of this White paper is to give the reader an understanding of the main functions and features of this phone.

People who can benefit from this document include:

- Operators
- Service providers
- Software developers
- Support engineers
- Application developers

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Sony Ericsson Developer World

On <u>www.sonyericsson.com/developer</u>, developers will find documentation and tools such as phone White papers, Developers guidelines for different technologies, SDKs and relevant APIs. The Web site also contains discussion forums monitored by the Sony Ericsson Developer Support team, an extensive Knowledge Base, Tips & Tricks, example code and news.

Sony Ericsson also offers technical support services to professional developers. For more information about these professional services, go to the Sony Ericsson Developer World Web site.

Document history

Change history			
2009-01-09	Version 1	First revision	
2009-01-20	Version 2	Second revision	

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Product overview

As a clamshell WalkmanTM phone aimed at mainstream youth, W508 places the fouce on a customised and personalised look which includes exchangeable front covers and invites customers to design their own front covers over the web. At the same time, W508 has gesture control which allows customers to control the phone with a simple hand movement, and the enhanced WalkmanTM services including WalkmanTM player 3.0, PlayNowTM arena, TrackIDTM with text search and SensMeTM.

Features include:

- 3.2 megapixel camera with Photo fix
- Walkman™ player 3.0
- 2.2-inch QVGA scratch resistant screen
- The ability to share images using mobile blogging
- Video blogging
- Web browser supporting HTML
- Dynamic Web pointer for Web browsing.
- The latest in 3G/HSDPA/EDGE technology for voice and video telephony
- Slide shows with music, transitions and more.
- 3D gaming
- Web feeds
- Web feeds ticker in standby
- · FM radio with RDS and track identification
- A stereo headset provided in the kit
- A memory card reader for Memory Stick Micro™ (M2™) memory cards
- Exchange ActiveSync®
- Accelerometer to support auto-rotated browsing and UI

Key features

Walkman™ player 3.0

Located in Media, the Walkman[™] player converts the phone into a portable music player that supports the different audio formats MP3, WMA, AAC/AAC+/Enhanced AAC+ in ADIF/ADTS, MP4/M4A, 3GP files and WAV. Access audio books and podcasts you have transferred from your computer. Use SensMe[™] to discover music by mood. The phone knows the mood of each song without having to enter information such as slow, fast, major, minor, acoustic, electric and so on. Mark a song and a circle appears around that song and encircles several other songs in the same mood creating a selection. There is no need to choose artist or album, just mood.

Shake control

Shake the phone to shuffle the playlist, jump to another song, or control gaming functions.

Stereo widening

The Stereo widening effects improve the sound experience when listening to music through a stereo Bluetooth headset, external stereo speakers or a stereo portable handsfree.

Video telephony

Video telephony lets you share moments with friends and family as they happen or allows you to save them to share later. You can also use video telephony to see others while talking to them. Video telephony takes people connecting to the next level and is the next best thing to being there in person.

TrackID™

TrackID™ enables the user to identify a track playing on the built-in radio, or a track playing in the room. A few seconds of the song is sampled, the phone connects to an online database, which identifies the song and returns title, artist and album information.

2.2-inch QVGA scratch resistant mineral glass screen

The large 2.2-inch (240x320 pixels) full graphic QVGA 262k colour screen enhances viewing, facilitating high-quality multimedia and entertainment.

Gesture control

Sweep your hand back and forth in front of the camera and you can mute incoming calls or snooze alarms without touching the phone.

Auto rotate

Capturing a portrait photo with a horizontal camera, usually results in a photo which must be rotated manually, when viewed later, in the phone. Auto rotate is a new feature, which enables HB108 R1.1 to register how the phone is oriented when the photo is taken, whether it is held in portrait or landscape mode. This information is saved with the photo. When viewed, the photo is automatically rotated and presented with the same orientation as it was originally taken.

Video camera

The camera captures a video recording and saves it in the phone or on a memory card. A video clip can be shared as a picture message or email with friends and family or by using any available transfer method, such as Bluetooth™ wireless technology. The phone supports QVGA size video recording.

Web feeds

A built-in RSS (Really Simple Syndication) Reader is used in combination with the Internet browser. When browsing, frequently updated content such as news headlines or podcasts can be received as feeds.

Web feeds ticker

News headlines you subscribe to can be shown in standby using Web feeds.

HTML Web browser support

Browse the Internet and look at Web sites in a different way with Access NetFront™ 3.4 – an HTML browser which supports a complete Web standard suite.

Landscape browsing support

View Web pages in landscape mode.

Mobile blogging

Send photos and video clips using the Internet to show on your personal blog, allowing people easy access to view and comment on your photos and video clips.

Photo tags

Navigate through your captured photos and thousands of downsized photos transferred from your computer. View captured photos and video clips in an intuitive timeline view. Play animated slide shows with music and different moods. Tag your photos to find them faster. The built-in sensor in the camera ensures that all photos are rotated correctly.

Push email

The phone supports push email, a method of pushing new email messages automatically to mobile devices. Push email increases mobile email usability by delivering emails in the background (in the same way as the SMS or MMS), eliminating the need for the user to manually check for new email.

Media

A unique Sony Ericsson media experience. All media can be accessed directly from the desktop. Navigate seamlessly through captured photos and video clips, pictures, photo tags, music, videos and more.

Video player

Located in Media. Play saved and downloaded video clips.

Media Go

Music, photo and video clip management software is available from www.sonyericsson.com/support. Transfer music, video clips and photos to and from your phone. Search for and select media on your computer, rip audio CDs and convert your existing audio tracks to formats suitable for mobile use before transferring them to your phone. You can also subscribe to feeds such as video and music podcasts.

PlayNow™ 5.0

A unique and easy-to-use direct-link for downloading ringtones, full track music, games, themes and wallpapers. PlayNow™ offers best-selling content for mobile download. Users can preview content before purchase. Users have access to a catalogue of millions of tracks from both international and local labels.

By combining the PlayNow[™] catalogue with unique applications like TrackID[™] users are presented with a My TrackID[™] list and TrackID[™] charts by country, created by TrackID[™] users around the world. These charts are based on what songs other users are searching for and want to hear the most. PlayNow[™] supports MP3 and Windows Media DRM file formats for music.

PlayNow™ uncut

PlayNow™ uncut is a promotional site for introducing new and developing artists. PlayNow™ uncut includes full track music, videos, gig schedules and information about the stars of tomorrow. PlayNow™ uncut provides users with the possibility to discover new music which otherwise might pass them by. At the same time, the site offers artists and songwriters the opportunity to have their music heard by millions of users.

Gaming

Gaming is a very popular feature in mobile phones. Shake or tilt the phone to control gaming functions. With JavaTM, users can download new games and skill levels to further enhance their entertainment experience.

Java™

Download additional applications which are information- and entertainment-based. This gives users a chance to personalise the functions and features in their phones, and developers the opportunity to create new applications. Java Platform 8.4.0 (JP-8.4.0), supports a range of new Java programming features including instant messaging (chat) and presence-based functionality, handling banking, payment transactions, user identification and authentication through secure encryption technology.

Bluetooth™ wireless technology

Several devices (simultaneous BluetoothTM wireless technology connections) can be connected up to 10 metres (33 feet) away using Bluetooth wireless technology. For example, when the phone rings, it can be answered with a Bluetooth headset, and images can be sent to another phone at the same time. Several mobile phones can take part in a Bluetooth wireless technology-supported game and the phone and a computer can exchange data such as images, video clips, vCards, music files and calendar data. Bluetooth wireless technology version 2.0 and Enhanced Data Rate (EDR) is supported.

Bluetooth™ audio streaming

Listen to audio in compatible devices. By connecting a Bluetooth Advanced Audio Distribution Profile (A2DP) compatible accessory, such as a stereo Bluetooth headset or a Bluetooth music receiver, you can enjoy high quality stereo audio streaming wirelessly from the phone. Many A2DP accessories also support the Bluetooth Audio Video Remote Control Profile (AVRCP) allowing you to control the player in the phone using the accessory interface.

USB 2.0 mass storage

When connecting the phone to a computer using a USB cable supported by the phone, the memory in the phone appears on the computer screen as a removable disk along with other disks and drives in the computer. You can then quickly and easily drag and drop items such as images, documents, music and video clips between folders in the phone and the computer.

Media Transfer Protocol (MTP)

With Media Transfer Protocol you can transfer media files and synchronise playlists when the phone is connected to the computer using a USB cable. It is possible to use MTP in Media transfer mode or Phone mode. MTP is supported by Media Go, Windows Media Player 11 and higher in Windows XP and Windows VistaTM.

Personal Information Management (PIM)

Stay up-to-date with everyday events by synchronising phone contacts, calendar appointments, tasks and notes in the phone with similar programs in a computer. The user can connect the phone to their computer with a USB cable or the built-in Bluetooth feature. The synchronisation software is available from www.sonyericsson.com/support. The user can then smart search their contacts and call list for phone numbers or names from standby.

Common Internet File System (CIFS)

The Common Internet File System enables file transfer to and from your phone. The phone acts as a file server which allows you to copy and move files between your PC and the server. You can use this feature when connected using a USB cable or the Bluetooth wireless technology connection.

Images





Technologies in detail

This chapter includes short descriptions of the technologies available in this product compared to other Sony Ericsson products.

Functions and features

The following includes short descriptions of the technologies available in W508, W380.

Feature	W508	W380
3D games	Yes	Yes
3G enabled	Yes	N/A
Activity menu (multi-tasking) The user can easily handle missed calls, new text and picture messages, task reminders, shortcuts and get quick access to favourite Internet bookmarks	Yes with enhanced functionality for background applications	Yes
Adobe™ Flash Lite™	Yes	Yes
For animated wallpapers, menus and other graphic elements		
Alarm clock	Yes	Yes
Set up to five individual times for single or recurring weekly alarms		
Auto rotate	Yes	No
The photo appears as a landscape or portrait photo, as it was originally taken		
Backlight	Yes	Yes
White backlight to illuminate the phone screen		
Battery	BST-39 3.6 V, 920 mAh, Lithium Polymer	BST-39 3.6 V, 920 mAh, Lithium Polymer
Battery charging time	At least 90% charged within 2 hours. Fully charged within 2.5 hours	At least 90% charged within 2 hours. Fully charged within 2.5 hours
BestPic™	No	No
Enhance photo taking by automatically capturing a series of photos ranging from before to after a camera key press. Select the best photo to catch the moment. You can also save several or all photos		
Bluetooth™ audio streaming	Yes	Yes
Listen to audio in compatible devices		

Feature	W508	W380
Bluetooth™ audio video remote control	Yes	N/A
Control music player functions from a Bluetooth™ accessory, and control the volume in the accessory from the phone		
Bluetooth™ PAN	Yes	N/A
Connect the phone to Internet using Bluetooth™ wireless technology		
Bluetooth™ wireless technology	Yes	N/A
Wireless connectivity between devices within a range of up to 10 metres (33 feet). Support for specification of the Bluetooth System, version 2.0 and EDR		
Business card exchange	Yes	Yes
Exchange contact information		
Buy Now	Yes	N/A
Mark a track if you are interested in buying it later. You have the option to buy the track when synchronising with Microsoft® Windows Media® Player. The Buy Now service requires a subscription and account with a downloadable music service, a computer with Microsoft® Windows Media® Player 11 or subsequent compatible version of Windows Media® Player, and a USB computer connection		
Calculator	Yes	Yes
Calendar	Yes	Yes
Calendar with day, week and month views and reminders		
Call list	Yes	Yes
View calls made and received		
Camera	3.2 megapixel	1.3 megapixel
Camera retractable lens cover	No	No
Open the cover and camera functionality starts automatically		
Camera auto focus	No	No
The camera automatically focuses on the subject in a focus area in the screen/viewfinder		

Feature	W508	W380
Camera face detection	No	No
The camera brings an off-centre face into focus		
Camera file browser	Yes	Yes
Browse the photo folder without leaving the camera function		
Camera flash	No	No
Camera image stabiliser	No	No
Photo and video image stabiliser functionality. If available, use to keep the image steady		
Camera key	No	No
A dedicated camera key		
Camera keys on top	No	No
When the camera is used in horizontal mode, the side keys with camera functionality are on top, for a digital still camera feel. For photo key functionality, see also "Keys – side and other" on page 19		
Camera menu	No	No
Easy-to-use horizontal digital camera menu		
Camera mode switch	No	No
A dedicated key to switch between still and video camera		
Camera red eye reduction	No	No
Camera scene modes	No	No
Use predefined settings when taking photos in different environments, for example, at night or fast-moving objects		
Camera settings bar	No	Yes
Settings bar with options and info texts		
Chinese input method	Yes	Yes
Text input methods based on Simplified or Traditional Chinese: Bopomofo, Pinyin or Stroke		

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Feature	W508	W380
Circuit Switched Data		
CSD	Yes	Yes
HSCSD – a communications standard enabling GSM data transfer at 14.4 Kbps.	Yes	Yes
Smart contrast	No	No
Improves detail in a photo by achieving an automatic light balance between the darker and lighter areas of your photo.		
Co-branding area	43.8 ×10 mm	37 × 5.5 mm
Code memo	Yes	Yes
A safe place to save all PIN codes and other information. To access Code memo, only one PIN code is needed		
Colour	Metal grey Poetic white	Electric purple Magnetic grey
Contact photos	Yes	Yes
Add a photo to a saved contact. The picture appears on the screen when the saved contact calls		
Contacts	Yes	Yes
Phonebook with fields for name, phone, fax and instant messaging information, presence information, email address, Web site, title, company address info, personal address info and birthday		
Conference calls	Yes	Yes
Support for multiparty calling		
Connector A1 (Fast port)	Yes (side)	Yes
Content online	Yes	Yes
Downloadable pictures, games, themes, ringtones available online		
Copyright protection	Yes	Yes
DRM (Digital Rights Management) features the rights and copy protection of downloaded content (audio, pictures, music tones, video clips and entertainment features such as games, Java applications and so on.)	OMA DRM 1.0, 2.0 and 2.1, Microsoft DRM Janus	OMA DRM 2.0

Feature	W508	W380
Device Management (DM)	Yes	Yes
DM utilises GPRS as a bearer (basic network connectivity needs to be in place) of the provisioning data and allows the operator to access the phone, check and send out different settings such as network connectivity (GPRS), email, MMS, Internet settings and Java TM . Device Management is achieved by supporting OMA Client Provisioning 1.1 (CP) and OMA Device Management (DM) 1.2		
Digital zoom	3.2 x for Picture (VGA mode) 4.0 x for video recording	Up to 4x
Email	Yes	Yes
Built-in email client with inbox, outbox, compose, send and other functions		
EMS (Enhanced messaging)	Yes	Yes
Text messaging (SMS) with support for pictures and sounds		
Note: EMS is not available for operators who use unified messaging		
Exterior description		
Size mm (length x width x thickness)	93.5 x 50 x 14 (mm)	92 x 49 x 16(mm)
External antenna connector	No	No
For use with an advanced car handsfree accessory		
Fast port	Yes	Yes
A system connector which enables faster data transfer between the phone and a computer		
File manager	Yes,	Yes,
Folder structure storage to help save and organise pictures, sounds and other phone content	with enhanced functionality for camera content	with enhanced functionality for camera content
	Yes	Yes

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Feature	W508	W380
Flight mode	Yes	Yes
All phone radio transceivers are inactivated. Flight mode starts the phone so that only certain functions are available, such as the calendar, the music player or a game. The phone may then be used in some areas, such as aeroplanes or hospitals, where full mobile phone functionality is not allowed		
Bluetooth™ wireless technology function availability in Flight mode	Yes	Yes
FM radio with RDS	Yes,	Yes
FM radio with presets, auto and manual search. The handsfree is used as an antenna. The radio can also be used as an alarm signal	100 kHz tuning interval	
FM radio with TrackID™	Yes	Yes
Identify tracks playing on the radio		
Form factor	Clamshell	Clamshell
Games download	Yes	Yes
Add more games to your phone		
Games embedded	Yes	Yes
Geo tagging	Yes	No
Photos are tagged with geo data and can be shown on a map		
Google Maps™ for mobile	Yes	Yes
Preloaded map application with support for My location by using the network and GPS information		
GPRS	Yes	Yes
General Packet Radio Services - a communications standard enabling packet data transfer of 21.4 Kbps per time slot. Multislot class 10 supported (max 5 simultaneously)		Multislot class 10 supported (4+2)
High Speed Data		
HSDPA - High Speed Downlink Packet Access HSUPA - High Speed Uplink Packet Access	Yes No	No No

Feature	W508	W380
Icon Desktop 12	Yes	Yes
A graphic icon desktop with 12 interactive icons		
Image formats		
8 MP (3264 x 2448 pixels)	No	No
5 MP (2592 x 1944 pixels)	No	No
3.2 MP (2048 x 1536 pixels)	Yes	No
3 MP (2048 x 1536 pixels)	Yes	No
2 MP (1632 x 1224 pixels)	Yes	No
1 MP (1280 x 960 pixels)	Yes	Yes
VGA (640 x 480 pixels)	Yes	Yes
Infrared port	No	No
A wireless connector enabling the user to connect the phone to a laptop or another infrared device in order to share pictures, synchronise calendar or use the phone as a modem		
Instant messaging (Wireless Village™)	Yes	Yes
Chat – several people can take part in a mobile messaging session. Instant messaging/Wireless Village server community		
Internet blogging	Yes	Yes
Share over the Internet on your personal Web site. The size of uploaded photos is dependent on customisations		
Internet browser	Yes	Yes
Full HTML support, ECMA script, DOM level 1&2, CSS 1&2 etc.	Yes	Yes
Support for AJAX (Asynchronous JavaScript and XML)	Yes	Yes
Progressive download of video files.	Yes	Yes
Direct access to Bookmarks, Search Internet and Enter address	Yes	Yes
Mouse Pointer	Yes	Yes
Text Wrapping Pan&Zoom	Yes Yes	Yes Yes
i anazoum	169	169

Feature	W508	W380
Internet security	Yes, SSL/TLS	Yes
Encrypts confidential information such as credit card and bank account numbers. Necessary for mobile banking and shopping		
Java TM	Java 2, Micro Edition (J2ME [™]), Java 3D [™] JP-8.4	Java 2, Micro Edition (J2ME™), Java 3D™
Support for J2ME™ technology	JP-0.4	
Sony Ericsson Java Platform	Yes	
Support for new Java programming features including banking, payment transactions, user identification and authentication through secure encryption technology.		
Keys - navigation and more	4+1 navigation keys	4+1 way navigation key
	2 selection keys	2 selection keys
	C (Clear) key	C (Clear) key
	Activity menu key/ Operation key	Activity menu key/ Operator key
	End and on/off key	End and on/off key
	Call key	Call key
	Walkman TM shortcut	Walkman® shortcut
	Music play/pause/fast forward/back/next/ previous (touch keys)	Music play/pause/fast forward/back/next/ previous (touch keys)
	Music key lock	Internet key/Operator key
		Music key lock
Keys - keypad	12 alphanumeric	12 alphanumeric
Keys - side and other	Volume key	Volume key
	Key lock	

Feature	W508	W380
Lunar calendar	Yes	Yes
A calendar system used in China and other parts of Asia. A lunar month is determined by the period required for the moon to complete its full cycle of 29.5 days and is available in Chinese phone variants		
Media	Yes	Yes
A centre for all media content with horizontal and vertical navigation. You can view photos, listen to music and watch video clips		
Media player	See Walkman™ player and Video player	Yes
Mega Bass™	Yes	Yes
An audio feature which enhances bass frequencies for better overall music experience		
Memory (built-in)		
Phone memory that is free to use (depending on software configuration and file content). Many applications share phone memory. The maximum amount of storage available for any one application, such as calendar entries, is affected by the amount of memory used by other applications, such as messaging, music, photos and so on	Up to 100 MB	Up to 14 MB
Memory card reader (slot)		
A slot for inserting a micro peripheral storage device	Yes	Yes
Memory card support: Memory Stick Micro™ (M2™) SanDisk microSD™/Transflash™	Yes No	Yes No
Menu layout options	Yes	Yes
Possibility to change the layout of the icons in the main menu		
Menu shortcuts	Yes	Yes
A function making it possible to dedicate shortcuts to the most-used phone functions		
MMS (Multimedia messaging)	Yes	Yes
Picture messaging with text and sound		

Feature	W508	W380
MMS video	Yes	Yes
Support in the phone for sending video clips using MMS		
Modem	Yes	Yes
Circuit Switched/Packet Switched Internet dial-up support		
MusicDJ™	Yes	Yes
A music composer tool with MIDI drum, guitar, keyboard, bass and brass loops in different music styles, which can be combined to create polyphonic ringtones		
Music listening time	Up to 24 hours	
Music player 3.0 A digital music player with horizontal navigation. Play music you have transferred or downloaded. The list structure system enables you, for example, to organise favourite songs into groups and create simple playlists.	No See Walkman™ player	No
Music tones	Yes	Yes
Music tones, also called master tones, are DRM protected music by original artists. Various digital audio formats are supported		
My time zone	Yes	Yes
Select the time zone manually by country or city		
Networks		
3G/HSDPA	UMTS band 1	N/A
GSM/GPRS/EDGE	GSM 850/900/1800/ 1900	EDGE 850/1800/1900 EDGE 900/1800/1900

Feature	W508	W380
Notes	Yes	Yes
Make notes of things to remember. A note can be shown in standby		
OMA Data Synchronisation (SyncML)	Yes	Yes
A device communications standard that enables remote synchronisation between devices	OMA DS 1.2 OMA DS 1.1.2	SyncML 1.1 SyncML 1.2
OTA settings	Yes	Yes
Internet, email and other settings can be sent over the air to the phone	OMA CP 1.1	
Photo light (built-in)	No	No
When lighting conditions are poor, activate the picture light		
PhotoDJ™	Yes	N/A
A drawing tool in the phone where existing photos can be altered		
Photo fix	Yes	N/A
Improves an under-exposed photo by calculating and adjusting the light balance		
PictBridge™	No	N/A
Transfer images from the phone via a USB cable directly to a printer, without a computer or photo editing software		
Picture gallery	Yes	N/A
A thumbnail image gallery where sections of several photos can be viewed at the same time	Use photo tags	
PlayNow™ (direct link)	Yes	Yes
Listen to music before you purchase and download it to your phone		
PlayNow™ Games (direct link)	Yes	Yes
Download and purchase games straight from the phone desktop		
Polyphonic voices	72	24
Powersave	Yes	Yes
Default setting for display light		

Feature	W508	W380
Predictive text input	Yes	Yes
Push email	Yes	Yes
RSS reader	See Web feeds	Yes
Screen		
Type: Size: Resolution:	Full graphical 2.2 inches 240x320 pixels	Full graphical 1.9 inches 176x220 pixels
Technology: Colours displayed together:	TFT, QVGA 262,000 (18 bit)	TFT colour LCD 262,000
Backlight colour:	White	White
Screen saver	Yes	Yes
Settings download (Ready to run)	Yes	Yes
Set up functions that require a connection to the Internet such as the Internet browser and picture messaging. This function runs in the setup wizard or can also be chosen in the Settings menu. This function is not included in the setup wizard for customised phones		
Shake control	Yes	Yes
Shake control for music and gaming		
SIM card lock	Yes	Yes
The option to protect the SIM card with a four-digit to eight-digit PIN code		
Smart search	Yes	Yes
Search for numbers and contacts from standby by using the number keys. Smart filter and smart search by names in contacts list by entering some keys. Call or send messages from a filtered list of search results.		
SMS long (Text messaging)	Yes	Yes
Concatenated SMS text messaging		
Sleep mode	Yes	Yes
A power-saving feature that minimises the battery power consumed when the phone is in standby		

Feature	W508	W380
Sony Ericsson Remote Update Service	Yes	Yes
Download the latest software over the air		
Sony Ericsson Update Service	Yes	Yes
Connect the phone to an Internet-connected computer, download the latest software from the Web site, www.sonyericsson.com/support and update the mobile device		
Sony Ericsson Update Service Pro	Yes	Yes
Update the phone with the latest software at your local Sony Ericsson retailer		
Sound recorder	Yes	Yes
A recording device in the phone that can record voice messages or other sounds		
Speakerphone	Yes	Yes
Speed dialling	Yes	Yes
Allocate contacts in the phone book to specific keys on the keypad		
Standby time	Up to:	Up to 360 hours
GSM UMTS	400 hours 400hours	
Status view	Yes	Yes
The screen shows the network being used, the time and other status information		
Stereo microphone	No	No
Two microphones give stereo sound to video clips recorded by the phone		
Stereo speakers	No	No
Stopwatch	Yes	Yes
SVG Tiny	Yes	Yes
Scalable Vector Graphics for impressive animated wallpapers, menus and other graphic elements		
Synchronisation PC	Yes	Yes
Synchronise and share phone content with a computer		

Feature	W508	W380
Talk time	Up to:	Up to 8 hours
GSM UMTS	10 hours 4 hours	
Tasks	Yes	Yes
Keeps track of important things to do		
Themes	Yes	Yes
Phone menu texts and background graphics		
Timer	Yes	Yes
Set the phone to alert after a specific time		
TrackID™		
Music recognition	Yes	Yes
Text search for artist, album, track, lyrics etc.	Yes	Yes
UMTS	Yes	Yes
USB connectivity support	Yes	Yes
Connect the phone to a computer using a USB cable supported by the phone	USB 2.0 Hi-Speed	
USB ethernet emulation	Yes	Yes
Connect to the Internet using the phone or the computer		
Vibrating alert	Yes	Yes
The phone vibrates when a call comes in		
Video blogging	Yes	Yes
Share video clips over the Internet on your personal Web site. The size of uploaded video clips is dependent on customisations		
Video call camera	Yes	Yes
Video call talk time	Up to 2 hours	N/A
VideoDJ™	Yes	Yes
Create video sequences by combining different clips and adding music and images		

Feature	W508	W380
Video player	Yes	Yes
Play video clips you have transferred or downloaded. Transfer video clips to another phone or a computer using an available transfer method		
Video streaming	Yes	No
Real-time streaming of video clips, for example, live cam. Media can also be downloaded and saved in the phone memory		
Video telephony	Yes	N/A
When you make a video call, the other party can be seen on the screen. The service requires UMTS/WCDMA		
Viewfinder	Yes	Yes
When using the camera, a photo can be previewed before it is captured		
Voice control	Yes	Yes
Voice answer, reject and call. Assign voice commands to items in the phonebook. When a call is made, the voice command can be used instead of pressing keys		
Voicemail	Yes	Yes
Support for a voicemail operator service including automatic answering and message recording		
Walkman™ player 3.0	Yes	No Wolkman® player 2.0
A digital music player with horizontal navigation. Play music you have transferred or downloaded. The list structure system enables you, for example, to organise favourite songs into groups and create various playlists		Walkman® player 2.0
Web feeds	Yes	N/A
Frequently updated content delivered as feeds via a Web site, for example, news headlines in the browser		
Web feeds ticker	Yes	N/A
View news headers in standby		
Weight	95 g	100g

Facts and figures

This chapter offers readers a detailed listing of all the technical data relating to the product. Comprehensive descriptions of performance and technical characteristics are presented in table format for quick and easy access.

Technical specifications

General technical data

System	Quad-band Edge: GSM 850/900/1800/1900 UMTS band 1 supported
Speech coding	HR, FR, EFR, AMR, supported where available, for high speech quality.
GSM SIM/ UMTS USIM/SIM card	GSM SIM - 3GPP TS 51.011; UMTS USIM - 3GPP TS 31.102; UMTS ISIM - 3GPP TS 31.103. Small plug-in card, 1.8 V and 3 V.
Memory	Up to 100 MB internal (depending on software configuration/file content) plus extra slot for supported memory cards.
Data transfer speeds	Up to 3.6Mbps (downlink, HSDPA, cat 6) Up to 384 Kbps (uplink, WCDMA R99)

Performance and technical characteristics

Property	WCDMA 2100
Frequency range (MHz)	TX: 1920–1980 RX: 2110–2170
Channel spacing	5 MHz with 200 kHz channel rasters
Number of channels	277
Modulation	QPSK (WCDMA R99) QPSK/16 QAM (HSDPA)
πι	10 ms (WCDMA R99) 2 ms (HSDPA)
TX phase accuracy	Error Vector Magnitude: <17.5%
Duplex spacing	190 MHz
Frequency stability	+/-0.1 ppm
Voltage operation (nominal)	3.6 V
Transmitter RF power output	24 dBm Class 3 (0.25 W peak)
Transmitter output impedance	50 ohm

Transmitter spurious emission (according to specification) Receiver RF sensitivity Receiver RX bit error rate **C-30 dBm over 1 GHz (according to 3GPPI** spec.) Receiver RX bit error rate **C-30 dBm over 1 GHz (according to 3GPPI** spec.) Receiver RX bit error rate **C-30 dBm over 1 GHz (according to 3GPPI** spec.) Receiver RX bit error rate **C-30 dBm over 1 GHz (according to 3GPPI** spec.) Receiver RX bit error rate **C-30 dBm over 1 GHz (according to 3GPPI** spec.) Receiver RX bit error rate **C-30 dBm over 1 GHz (according to 3GPPI** spec.) **C-30 dBm over 1 GHz (according to 3GPPI** spec.) **C-30 dBm over 1 GHz (according to 3GPPI** spec.) **Receiver RX bit error rate **C-30 dBm over 1 GHz (according to 3GPPI** spec.) **Receiver RX bit error rate **C-30 dBm over 1 GHz (according to 3GPPI** spec.) **Receiver RX bit error rate **C-30 dBm over 1 GHz (according to 3GPPI** spec.) **Receiver RX bit error rate **C-30 dBm over 1 GHz (according to 3GPPI** spec.) **Receiver RX bit error rate **C-30 dBm over 1 GHz (according to 3GPPI** spec.) **Receiver RX bit error rate **C-30 dBm over 1 GHz (according to 3GPPI** spec.) **Receiver RX bit error rate **C-30 dBm over 1 GHz (according to 3GPPI** spec.) **Receiver RX bit error rate **C-30 dBm over 1 GHz (according to 3GPPI** spec.) **Receiver RX bit error rate **C-30 dBm over 1 GHz (according to 3GPPI** spec.) **Receiver RX bit error rate **C-30 dBm over 1 GHz (according to 3GPPI** spec.) **Receiver RX bit error rate **C-30 dBm over 1 GHz (according to 3GPPI** spec.) **Receiver RX bit error rate **C-30 dBm over 1 GHz (according to 3GPPI** spec.) **Receiver RX bit error rate **C-30 dBm over 1 GHZ (according to 3GPPI** spec.) **Receiver RX bit error rate **C-30 dBm over 1 GHZ (according to 3GPPI** spec.) **Receiver RX bit error rate **C-30 dBm over 1 GHZ (according to 3GPPI** spec.) **Receiver RX bit error rate **C-30 dBm over 1 GHZ (according to 3GPPI** spec.) **Receiver RX bit error rate **C-30 dBm over 1 GHZ (according to 3GPPI*	Property	WCDMA 2100		
Property WCDMA 2100 Frequency range (MHz) TX: 1920-1980 RX: 2110-2170 Channel spacing 5 MHz with 200 kHz channel rasters Number of channels 277 Modulation QPSK (WCDMA R99) QPSK/16 QAM (HSDPA) TTI 10 10 ms (WCDMA R99) 2 ms (HSDPA) TX phase accuracy Error Vector Magnitude: <17.5% Duplex spacing 190 MHz Frequency stability +/-0.1 ppm Voltage operation (nominal) 3.6 V Transmitter RF power output impedance 150 ohm Transmitter spurious emission (according to specification) 2 ms (ABDPP) ms pec.) Receiver RF sensitivity Better than -106.7 dBm @ 12.2 kbps CS voice Receiver RX bit error rate <0.1% Property GSM 850 GSM 900/E-QSM 900 Frequency range (MHz) TX: 824-849 RX: 859-894 RX: 925-960 Channel spacing 124 Carriers '8 (TDMA) 174 Carriers '8 (TDMA)	emission (according to	< –30 dBm over 1 GHz		
Property WCDMA 2100 Frequency range (MHz) TX: 1920-1980 RX: 2110-2170 Channel spacing 5 MHz with 200 kHz channel rasters Number of channels 277 Modulation QPSK (WCDMA R99) QPSK/16 QAM (HSDPA) TTI 10 ms (WCDMA R99) 2 ms (HSDPA) TX phase accuracy Error Vector Magnitude: <17.5%	Receiver RF sensitivity	Better than -106.7 dBm	@ 12.2 kbps CS voice	
Frequency range (MHz) TX: 1920-1980 RX: 2110-2170 Channel spacing 5 MHz with 200 kHz channel rasters Number of channels 277 Modulation QPSK (WCDMA R99) QPSK/16 QAM (HSDPA) TTI 10 ms (WCDMA R99) 2 ms (HSDPA) TX phase accuracy Error Vector Magnitude: <17.5% Duplex spacing 190 MHz Frequency stability +/-0.1 ppm Voltage operation (nominal) 3.6 V Transmitter RF power output 24 dBm Class 3 (0.25 W peak) Transmitter output impedance 50 ohm Transmitter spurious emission (according to specification) < -36 dBm up to 1 GHz (according to 3GPP™ spec.) Receiver RF sensitivity Better than -106.7 dBm @ 12.2 kbps CS voice Receiver RX bit error rate < 0.1% Property GSM 850 GSM 900/E-GSM 900 Frequency range (MHz) TX: 824-849 TX: 880-915 RX: 925-960 Channel spacing TX: 824-849 RX: 925-960 Channel spacing 200 kHz 200 kHz Number of channels 124 Carriers *8 (TDMA) 174 Carriers *8 (TDMA)	Receiver RX bit error rate	< 0.1%		
RX: 2110-2170 Channel spacing 5 MHz with 200 kHz channel rasters Number of channels 277 Modulation QPSK (WCDMA R99) QPSK/16 QAM (HSDPA) TTI 10 ms (WCDMA R99) 2 ms (HSDPA) TX phase accuracy Error Vector Magnitude: <17.5%	Property	WCDMA 2100		
Number of channels 277 Modulation QPSK (WCDMA R99) QPSK/16 QAM (HSDPA) TTI 10 ms (WCDMA R99) 2 ms (HSDPA) TX phase accuracy Error Vector Magnitude: <17.5%	Frequency range (MHz)			
Modulation QPSK (WCDMA R99) QPSK/16 QAM (HSDPA) TTI 10 ms (WCDMA R99) 2 ms (HSDPA) TX phase accuracy Error Vector Magnitude: <17.5%	Channel spacing	5 MHz with 200 kHz cha	nnel rasters	
TTI	Number of channels	277		
2 ms (HSDPA) TX phase accuracy Error Vector Magnitude: <17.5%	Modulation			
Duplex spacing 190 MHz Frequency stability +/-0.1 ppm Voltage operation (nominal) 3.6 V Transmitter RF power output Transmitter output impedance 50 ohm Transmitter spurious < -36 dBm up to 1 GHz < -30 dBm over 1 GHz (according to specification) 8etter than -106.7 dBm @ 12.2 kbps CS voice Receiver RF sensitivity Better than -106.7 dBm @ 12.2 kbps CS voice Receiver RX bit error rate < 0.1% Property GSM 850 GSM 900/ E-GSM 900 Frequency range (MHz) TX: 880-915 RX: 869-894 RX: 925-960 Channel spacing 200 kHz Number of channels 124 Carriers *8 (TDMA) 174 Carriers *8 (TDMA)	ТТІ			
Frequency stability +/-0.1 ppm Voltage operation (nominal) 3.6 V Transmitter RF power output Transmitter output impedance 50 ohm Transmitter spurious emission (according to specification) 8 etter than -106.7 dBm @ 12.2 kbps CS voice Receiver RX bit error rate < 0.1% Property GSM 850 GSM 900/E-GSM 900 Frequency range (MHz) TX: 824-849 RX: 925-960 Channel spacing Tx: 869-894 RX: 925-960 Channel spacing 1.24 Carriers *8 (TDMA) 174 Carriers *8 (TDMA)	TX phase accuracy	Error Vector Magnitude:	<17.5%	
Voltage operation (nominal) 3.6 V Transmitter RF power output 24 dBm Class 3 (0.25 W peak) Transmitter output impedance 50 ohm Transmitter spurious emission (according to specification) < -36 dBm up to 1 GHz (according to 3GPP™ spec.)	Duplex spacing	190 MHz		
Transmitter RF power output Transmitter output impedance Transmitter spurious emission (according to specification) Receiver RF sensitivity Property GSM 850 GSM 900/E-GSM 900 Frequency range (MHz) TX: 824-849 RX: 869-894 RX: 925-960 Channel spacing 24 dBm Class 3 (0.25 W peak) 50 ohm 150 ohm 151 ohm 152 ohm 153 ohm 154 carriers *8 (TDMA) 154 Carriers *8 (TDMA)	Frequency stability	+/-0.1 ppm		
output Transmitter output impedance Transmitter spurious	Voltage operation (nominal)	3.6 V		
Transmitter spurious emission (according to specification) Receiver RF sensitivity Better than -106.7 dBm @ 12.2 kbps CS voice Receiver RX bit error rate < 0.1% Property GSM 850 GSM 900/ E-GSM 900 Frequency range (MHz) TX: 824-849 RX: 869-894 TX: 880-915 RX: 925-960 Channel spacing 200 kHz Number of channels 124 Carriers *8 (TDMA)	•	24 dBm Class 3 (0.25 W peak)		
emission (according to specification) Receiver RF sensitivity Receiver RX bit error rate Co.1% Property GSM 850 Frequency range (MHz) TX: 824–849 RX: 869–894 RX: 925–960 Channel spacing Channels Co.30 dBm over 1 GHz (according to 3GPP™ spec.) Receiver RX bit error rate Co.1% GSM 850 GSM 900/ E-GSM 900 TX: 880–915 RX: 869–894 Con kHz		50 ohm		
Property GSM 850 GSM 900/E-GSM 900 Frequency range (MHz) TX: 824-849 RX: 869-894 TX: 880-915 RX: 925-960 Channel spacing 200 kHz 200 kHz Number of channels 124 Carriers *8 (TDMA) 174 Carriers *8 (TDMA)	emission (according to	< –30 dBm over 1 GHz		
Property GSM 850 GSM 900/E-GSM 900 Frequency range (MHz) TX: 824-849 RX: 869-894 TX: 880-915 RX: 925-960 Channel spacing 200 kHz 200 kHz Number of channels 124 Carriers *8 (TDMA) 174 Carriers *8 (TDMA)	Receiver RF sensitivity	Better than -106.7 dBm @ 12.2 kbps CS voice		
Frequency range (MHz) TX: 824-849 RX: 869-894 TX: 880-915 RX: 925-960 Channel spacing 200 kHz 200 kHz Number of channels 124 Carriers *8 (TDMA) 174 Carriers *8 (TDMA)	Receiver RX bit error rate	< 0.1%		
RX: 869–894 RX: 925–960 Channel spacing 200 kHz 200 kHz Number of channels 124 Carriers *8 (TDMA) 174 Carriers *8 (TDMA)	Property		GSM 850	
Number of channels 124 Carriers *8 (TDMA) 174 Carriers *8 (TDMA)	Frequency range (MHz)			
	Channel spacing		200 kHz	200 kHz
Modulation GMSK GMSK	Number of channels	124 Carriers *8 (TDMA) 174 Carriers *8 (TDMA)		
	Modulation	GMSK GMSK		

Property	GSM 850	GSM 900/ E-GSM 900
TX phase accuracy	< 5° RMS phase error (burst)	< 5° RMS phase error (burst)
Duplex spacing	45 MHz	45 MHz
Frequency stability	+/- 0.1 ppm	+/- 0.1 ppm
Voltage operation (nominal)	3.6 V	3.6 V
Transmitter RF power output	33 dBm Class 4 (2 W peak)	33 dBm Class 4 (2 W peak)
Transmitter output impedance	50 ohm	50 ohm
Transmitter spurious emission (according to specification)	< -36 dBm up to 1 GHz < -30 dBm over 1 GHz	< -36 dBm up to 1 GHz < -30 dBm over 1 GHz
Receiver RF sensitivity	Better than -104 dBm	Better than -102 dBm
Receiver RX bit error rate	< 2.4%	< 2.4%
Property	GSM 1800	GSM 1900
Frequency range (MHz)	TX: 1710-1785 RX: 1805-1880	TX:1850-1910 RX:1930-1990
Channel spacing	200 kHz	200 kHz
Number of channels	374 Carriers *8 (TDMA)	299 Carriers *8 (TDMA)
Modulation	GMSK	GMSK
TX Phase Accuracy	< 5° RMS Phase error (burst)	< 5° RMS Phase error (burst)
Duplex spacing	95 MHz	80 MHz
Frequency stability	+/-0.1 ppm	+/-0.1 ppm
Voltage operation (nominal)	3.6 V	3.6 V
Transmitter RF power output	30 dBm Class 1 (1 W peak)	30 dBm Class 1 (1 W peak)
Transmitter output impedance	50 ohm	50 ohm
Transmitter spurious emission (according to specification)	< –30 dBm	< -30 dBm
Receiver RF sensitivity	Better than -102 dBm	Better than -102 dBm
Receiver RX bit error rate	< 2.4%	< 2.4%

USSD technical data

Feature	Support
USSD support	GSM Phase 1/2 (cross-phase compatibility)
Mode support	UI-mode supportedSAT initiated USSD supported
UI-mode details	 It is possible to scroll the text up and down in USSD messages It is possible to highlight embedded numbers and take actions accordingly

GPRS technical data

Property	Support
Compatible GPRS/EDGE and SMG specifications	Release 99 according to ETSI specification
Data rates GPRS (per time slot)	Coding scheme CS-1: 9 Kbps CS-2: 13,4 Kbps CS-3: 15,6 Kbps CS-4: 21,4 Kbps (network-dependent).
Data rates EDGE (per time slot)	Modulation & coding scheme (MCS) MCS-1 (GMSK): 8.0 Kbps MCS-2 (GMSK): 11.4 Kbps MCS-3 (GMSK): 14.8 Kbps MCS-4 (GMSK): 17.6 Kbps MCS-5 (8-PSK): 22.4 Kbps MCS-6 (8-PSK): 29.4 Kbps MCS-7 (8-PSK): 44.8 Kbps MCS-8 (8-PSK): 54.4 Kbps MCS-9 (8-PSK): 59.2 Kbps
Medium Access Modes	Dynamic allocation
Support of Packet Control Channels (PBCCH/PCCCH)	Yes
Network operation mode	NOM I, II, III
Support of GPRS/CS combined procedures	Yes
Network control mode	NC0 and NC2
Support of access in 2 phases	Yes
Support of PRACH on 11 bits	Yes
Support of GPRS re-selection C31/C32	Yes

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Property	Support
Support of static and dynamic addressing	Yes
Support of power control uplink and downlink	Uplink = yes, downlink is a network feature
Support of ciphering algorithms	GEA1, GEA2
Support of compression algorithms	Yes, V42bis and IP header compression
Mode of operation	Class B and Class C modes of operation supported
R Reference point	 Physical layer: Support of RS232 PPP is supported as L2 layer in the R reference point Authentication algorithms PAP, CHAP supported
IP connectivity	 PDP type IP is supported IP termination in mobile or TE (laptop, PDA) is supported
PDP context	 10 PDP context descriptions saved in the phone PDP context description is edited via application in the phone AT-command or via OTA Simultaneous PDP contexts are supported, maximum 4
SIM	GPRS aware, as well as non-GPRS aware, SIM cards are supported
AT commands	Some of the supported commands: AT+CGDCONT - DEFINE PDP CONTEXT AT+CGEQREQ - Quality of Service Profile (REQUESTED) AT+CGEQMIN - Quality of Service Profile (Minimum Acceptable) AT+CGATT - PACKET DOMAIN SERVICE ATTACH OR DETACH AT+CGACT - PDP CONTEXT ACTIVATE OR DEACTIVATE AT+CGDATA - ENTER DATA STATE
	For more information, see www.sonyericsson.com/developer

SIM AT services supported

Service	Mode	Support
CALL CONTROL BY SIM		Yes
MO SMS CONTROL		Yes
DATA DOWNLOAD TO SIM	Cell Broadcast SMS	Yes Yes

Service		Mode	Support
DISPLAY TEXT		Text of up to 240 characters (120 UCS2 coded).	Yes
	bit 1:	0 = normal priority	Yes
		1 = high priority	Yes
	bit 8:	0 = clear message after a delay	Yes
		1 = wait for user to clear message	Yes
GET INKEY		General: The GET_INKEY requires that the user confirms his/her choice	Yes
	bit 1:	0 = digits (0-9, *, # and +) only	Yes
		1 = alphabet set	Yes
	bit 2:	0 = SMS default alphabet	Yes
		─ 1 = UCS2 alphabet	Yes
	bit 3:	0 = character sets defined by bit 1 and bit 2 are	Yes
		 enabled 1 = character sets defined by bit 1 and bit 2 are disabled and the Yes/No response is requested 	Yes
GET INPUT General: No. of hidden input characters bit 1: 0 = digits (0-9, *, # and +) only		General: No. of hidden input characters	252
	Yes		
		1 = alphabet set	Yes
	bit 2: 0 = SMS default alphabet	·	Yes
		─ 1 = UCS2 alphabet	Yes
	bit 3: 0 = ME may echo user input on the display 1 = user input not to be revealed in any way (se		Yes
			Yes
bit 4: 0 = user input to be in unpacked format 1 = user input to be in SMS packed format bit 8: 0 = no help information available 1 = help information available	·	Yes	
		1 = user input to be in SMS packed format	Yes
	bit 8:		Yes
			Yes
LAUNCH BROWSER			Yes
MORE TIME			Yes
PLAY TONE			Yes
POLLING OFF			Yes
POLL INTERVAL			Yes

Service		Mode	Support
PROVIDE LOCAL INFORMATION		'00' = Location Information (MCC, MNC, LAC and Cell Identity)	Yes
		'01' = IMEI of the ME	Yes
		'02' = Network Measurement results	Yes
		'03' = Date, time and time zone (DTTinPLI)	Yes
		'04' =Language setting	Yes
		'05' =Timing advance	Yes
REFRESH		General: The reset option requests the user to wait while the phone restarts	Yes
		'00' = (U)SIM Initialization and Full File Change Notification	Yes
		'01' = File Change Notification	Yes
		'02' = (U)SIM Initialization and File Change Notification	Yes
		'03' = (U)SIM Initialization	Yes
		'04' = (U)SIM Reset	Yes
		'05' = USIM Application Reset	Yes
		'06' = 3G Session Reset	Yes
SELECT ITEM			Yes
SEND DTMF			Yes
SEND SHORT MESSAGE	bit 1:	0 = packing not required 1 = SMS packing by the ME required	Yes
			Yes
SEND SS			Yes
SEND USSD			Yes

Service	Mode	Support
SET UP CALL	General: Capability configuration Set up speech call CallParty Subaddress DTMF support	Yes No Yes
_	'00' = set up call, but only if not currently busy on another call	Yes
	'01' = set up call, but only if not currently busy on another call, with re-dial	Yes
_	'02' = set up call, putting all other calls (if any) on hold	Yes
	'03' = set up call, putting all other calls (if any) on hold, with re-dial	Yes
_	'04' = set up call, disconnecting all other calls (if any)	Yes
	'05' = set up call, disconnecting all other calls (if any), with re-dial	Yes
SET UP EVENT LIST	'00' = MT call	Yes
	'01' = Call connected	Yes
	'02' = Call disconnected	Yes
	'03' = Location status	Yes
	'04' = User activity	Yes
	'05' = Idle screen available	Yes
	'06' = Card reader status	Not Applicable
	'07' = Language selection	Yes
	'08' = Browser termination	Yes
	'09' = Data available	Yes
	'OA' = Channel status	Yes
SET UP IDLE MODE TEXT		Yes 1 row of text is supported
SET UP MENU		Yes
TIMER MANAGEMENT		Yes
OPEN CHANNEL		Yes
CLOSE CHANNEL		Yes
RECEIVE DATA		Yes

Service	Mode	Support
SEND DATA		Yes
GET CHANNEL STATUS		Yes

User Interaction with SIM AT

BIP - Open Channel

A user confirmation is displayed with the default text "Open channel" when no alpha identifier is present. Alpha identifier text replaces the default text when the Alpha Identifier is present and not null. No user indication is provided (transparent mode) when alpha identifier is present and null.

BIP - Open Channel

A user confirmation is displayed with the default text "Open channel" when no alpha identifier is present. Alpha identifier text replaces the default text when the Alpha Identifier is present and not null. No user indication is provided (transparent mode) when alpha identifier is present and null.

Display text

Text of up to 240 characters (120 UCS coded) is supported.

Text clearing times are 5-20 seconds with a 60-second time-out limit for the user to clear the text. 'Key' responses:

- End key Proactive session terminated by user.
- Back Backward move in proactive session.

MSK clears the screen if the command is performed successfully.

Get inkey

Prompt for a one-character input. Pressing Ok without entering a character gives warning message "Text too short". Key responses:

- · C clears current character.
- End key terminates the proactive session.
- Back Backward move in the proactive session.
- OK Command performed successfully.

Get input

Prompt for character input. The phone will refuse to accept further input when maximum response length is exceeded. UI Maximum Response lengths:

- Digits Only 160 characters.
- SMS default alphabet characters 160 characters.
- Hidden Characters (digits only) 20 characters.

Key responses:

- · C clears current character.
- End key terminates the proactive session.
- Back Backward move in proactive session.
- OK Command performed successfully.

Select item

Scroll to highlight item for selection. 'Key' responses:

- Navigational key press down Scroll down list.
- Navigational key press up Scroll up list.
- End key terminates proactive session.
- Back Backward move in proactive session.
- OK- Command performed successfully.

Send short message

Alpha Identifier text is displayed, if it is present. Otherwise, there is no user indication if the customisation for default text is not enabled. If the customisation for default text is enabled, and there is no Alpha Identifier, default message "Sending message" is displayed. Default responses are "Message failed" or "Message sent" for the customisation enabled case with no Alpha Identifier.

Key responses:

End key or Back ends the proactive session.

Set up call

If you are on a call when the commands "Set up Call", "Putting all other calls on hold" are sent, the user will see the "Let SIM card setup call" user confirmation text. If OK is pressed the current call will be put on hold and the new call set up. If the phone is on a call when the command "Set Up Call, disconnecting all other calls" is sent, the user will see the "Let SIM card setup call" user information text. If the OK key is pressed the current call will be disconnected and the new call set up.

Set up menu

Incorporates a SIM Application Toolkit Menu Item into the ME main menu structure.

If an Alpha Identifier is supplied in the Set Up Menu command, this is used as the SIM AT entry in the ME main menu. If null alpha identifier is supplied and several items are found in the menu, the default title "ONLINE SERVICES" is used. If the SIM AT Menu Item is selected by pressing Select, all the items sent in the Set Up Menu command will be available for selection, in the same way as the Select Item command.

Entertainment

Audio and Video

Feature	Formats	Extensions
Ringtone playback	3GP	.3gp
	AAC	.aac
	MP4	.mp4
	M4A	.m4a
	MP3	.mp3
	AMR	.amr
	AMR-WB	.awb
	WAV	.wav
	SMF (GM, GML, SP-MIDI supported)	.mid
	iMelody	.imy
	XMF (Mobile XMF/DLS supported)	.xmf, .mxmf
	WMA	.wma
Video and audio playback	MP4 (Video: MPEG4 or H.264, Audio: AAC or	
	AAC+ or eAAC+)	.mp4
	3GPP™ (Video: MPEG4, H.263 or H.264,	
	Audio: AMR-NB, AMR-WB, AMR-WB+, AAC,	
	AAC+ or eAAC+)	.3gp
	WMV	.wmv, .asf
Streaming and progressive download	3GPP™ PSS Rel6	
Video recording	H.263 Profile 0, Level 10	
<u> </u>	MPEG-4 Visual Simple Profile Level 3	
Audio recording	AMR-NB	
-	AAC (for video recording only)	

Feature	Decoder format	Supported in file format
Video playback	MPEG-4 Visual Simple Profile	3GP/MP4
	H.264 Baseline Profile H.263 Profile 0	3GP/MP4 3GP
	VC-1 (WMV9)	WMV
Music playback	MPEG-1/2/2.5, audio layer 3	MP3
	AAC	3GP/AAC/MP4/M4A
	AAC+	3GP/AAC/MP4/M4A
	eAAC+	3GP/AAC/MP4/M4A
	WMA version 2,7,8: Class 1	WMA
	WMA version 9: Level 3	WMA
	WMA Pro (profile M0a)	WMA
	Linear/A-law/μ-law PCM	WAV

Java™

Feature	Functionalities
Java™ Platform, Micro Edition	 JSR-75 PDA Optional Packages for J2ME™ JSR-82 Bluetooth Wireless Technology API JSR 118 MIDP 2.0 JSR-120 Wireless Messaging API JSR-205 Wireless Messaging API 2.0 JSR-135 Mobile Media API 1.1 JSR 139 CLDC 1.1 JSR-172 J2ME™ Web Services Specification JSR-177 Security and Trust Services API for J2ME™ JSR-180 SIP API for J2ME™ JSR-184 Mobile 3D Graphics API for J2ME™ JSR 185 Java™ Technology for the Wireless Industry JSR-211 Content Handler API JSR-226 SVG API for J2ME™ JSR-229 Payment API JSR-234 Advanced Multimedia Supplements JSR-238 Mobile Internationalization API JSR-239 OpenGL ES JSR-248 Mobile Services Architecture JSR-256 Mobile Sensor API (accelerometer) Nokia UI Extension API
Java 3D	 Mascot Capsule Micro3D Version 3 JSR-239 OpenGL ES JSR-184 Mobile 3D Graphics API for J2ME™

Imaging/Messaging

3.2 megapixel camera

Digital still camera (DSC)	
True colour	Yes
Digital zoom	Main camera: 3.2 x zoom
Photo fix	Improves an under-exposed photo by calculating and adjusting the light balance
Shoot modes	Normal, Panorama, Frames, Burst
Photo sizes (resolution)	3.2 MP (2048 x 1536 pixels) 2 MP (1632 x 1224 pixels) 1 MP (128 0 x 960 pixels) VGA (640 x 480 pixels) Note: MP = megapixel
Night mode	Off, On
Self-timer	Off, On
Effects	Off, Black & white, Negative, Sepia
White balance	Auto, Daylight, Cloudy, Fluorescent, Incandescent
Picture quality	Normal, Fine
Shutter sounds	Yes
Add position	Off, On
Reset settings	Yes
Video recorder	
Video clip length	Normal, For picture message
Night mode	Off, On
Self-timer	Yes, same as camera
Effects	Yes, same as camera
White balance	Yes, same as camera
Turn on/off microphone	Yes
Reset settings	Yes

Video telephony

Photo sizes (resolution)	QCIF (176 x 144 pixels) SQCIF (128 x 96 pixels)
Digital zoom	2.0 x zoom
Night mode	Yes
White balance	Auto
Brightness	Yes
Video coding	H.263 MPEG-4 Visual Simple Profile Level 0
Audio coding	AMR

Images

Images can be shared using a Bluetooth wireless technology connection, MMS, email message, computer file transfer or memory card.

The image size is limited by the amount of free RAM.

Formats	Details	
JPEG	 ISO/IEC JPEG Baseline DCT Progressive DCT Non-differential nlimited size 	
GIF	 87a, 89a, support for interlacement, animation and transparency Unlimited size 	
ВМР	Windows® bitmap format	
PNG	Unlimited size	
SVG	SVG Tiny 1.2	
WBMP	Wireless bitmapUnlimited size	

Supported character set

Decoding text (Incoming MM	S)	
US-ASCII	UTF-16	
ISO-8859-1	KOI8-R	
ISO-8859-2	GB2312	
Windows-1251	GB 18030	
ISO 10646 (UCS-2)	GB 13000	
UTF-7	BIG-5	
UTF-8		
Coding Text (Outgoing MMS		
UTF-8		

Short Messaging Service

Feature	Support
SMS Service Centre Number	It is possible to pre-load the SMS Service Centre Number
Pictures	It is possible to insert a picture or an icon into the text message. EMS compliant mobile phones will be able to see the picture correctly
Reply to messages	It is possible to reply to received messages by SMS, MMS, voice message and email
Input methods:	Predictive writing and multitap
Copy and paste words	Yes
Teaching of predictive words that are not in the predictive dictionary	Yes
Options when creating a message:	
Save a sent message in a "Sent items" folder	Yes
Insert a line in the message	Yes
Assign a validity period to the message	Yes
Use predefined messages	Yes
Options when receiving a message:	
Reply to the sender	Yes
Forward the message	Yes
Save the message on the SIM card	Yes
Get delivery time and date	Yes

Forward the message Save the message on the SIM card Know the remaining capacity storage Options with the previously received message: Reply to the sender Save the message in the inbox Forward the message Know the remaining capacity storage Supported ways for replying to a received SMS: Via SMS, MMS, voice message, email Via phone call (set up a call to the number contained in the message body)	Yes (if requested when sending) Yes Yes Yes, > 95% full warning, capacity on SIM when saving to SIM Yes Yes Yes Yes
Forward the message Save the message on the SIM card Know the remaining capacity storage Options with the previously received message: Reply to the sender Save the message in the inbox Forward the message Know the remaining capacity storage Supported ways for replying to a received SMS: Via SMS, MMS, voice message, email Via phone call (set up a call to the number contained in the message body)	Yes Yes, > 95% full warning, capacity on SIM when saving to SIM Yes Yes
Save the message on the SIM card Know the remaining capacity storage Options with the previously received message: Reply to the sender Save the message in the inbox Forward the message Know the remaining capacity storage Supported ways for replying to a received SMS: Via SMS, MMS, voice message, email Via phone call (set up a call to the number contained in the message body)	Yes, > 95% full warning, capacity on SIM when saving to SIM Yes Yes
Know the remaining capacity storage Options with the previously received message: Reply to the sender Save the message in the inbox Forward the message Know the remaining capacity storage Supported ways for replying to a received SMS: Via SMS, MMS, voice message, email Via phone call (set up a call to the number contained in the message body)	Yes, > 95% full warning, capacity on SIM when saving to SIM Yes Yes
Options with the previously received message: Reply to the sender Save the message in the inbox Forward the message Know the remaining capacity storage Supported ways for replying to a received SMS: Via SMS, MMS, voice message, email Via phone call (set up a call to the number contained in the message body)	Yes Yes
Reply to the sender Save the message in the inbox Forward the message Know the remaining capacity storage Supported ways for replying to a received SMS: Via SMS, MMS, voice message, email Via phone call (set up a call to the number contained in the message body)	Yes
Save the message in the inbox Forward the message Know the remaining capacity storage Supported ways for replying to a received SMS: Via SMS, MMS, voice message, email Via phone call (set up a call to the number contained in the message body)	Yes
Forward the message Know the remaining capacity storage Supported ways for replying to a received SMS: Via SMS, MMS, voice message, email Via phone call (set up a call to the number contained in the message body)	
Know the remaining capacity storage Supported ways for replying to a received SMS: Via SMS, MMS, voice message, email Via phone call (set up a call to the number contained in the message body)	Yes
Supported ways for replying to a received SMS: Via SMS, MMS, voice message, email Via phone call (set up a call to the number contained in the message body)	
Via SMS, MMS, voice message, email Via phone call (set up a call to the number of contained in the message body)	Yes, > 95% full warning, capacity on SIM when saving to SIM
Via phone call (set up a call to the number contained in the message body)	
contained in the message body)	Yes
AC AND LESS OF THE AND LESS OF THE ANALYSIS OF	Yes
Via Web browser (go to the Web address contained in the message body)	Yes
Via USSD session	No
Print via infrared	No
Possibility to enable the user to send a text message to a list of recipients	Yes
Possibility to write an email address as a recipient address	Yes, if email gateway is present
	In the phone memory, on the SIM card, or on memory card
Capacity	Up to 1,000 messages
Nokia Picture Messaging	Yes

Enhanced Messaging Service

Feature	Support
Level of compliance supported by the phone regarding the specifications described in release 99	Enhanced Messaging Service (EMS) according to the standard 3GPP™ TS 23.040 v4.3.0, with the addition of the ODI feature from 3GPP™ TS 23.040 v5.0.0
Number of messages that the phone is able to handle to generate a concatenated message	10
Outgoing messages	It is possible to: See how many short messages an EMS message consists of before sending it. Choose whether to send the message or not after writing it.
Incoming messages	 A signal is heard once all parts of the message have been received or when a time-out occurs. It is possible to re-use the content of an EMS message. Sounds, pictures, and animations can be inserted in a new message, if the object is not protected using ODI.
Delivery report for concatenated messages	A receipt is received in the phone when all parts of a concatenated message have been delivered if a delivery report is requested when it is being sent
Insert objects	It is possible to add pictures, animations and sounds to an EMS message
Sounds	Chimes high, chimes low, ding, tada, notify, drum, claps, fanfare, chords high, chords low
I-melody	Yes, version 1.2
Melodies	 It is possible to: Receive (always), send using EMS (if not copyright protected). Download melodies and commercial tunes from the Web.
WBMP	Yes
Picture sizes	16x16, 32x32 pixels, variable size in black and white
Pictures	 It is possible to: Edit pictures using PhotoDJ™. Receive (always), send using EMS (if not copyright protected). Download pictures from the Web.
Animations	There is support for the following animations: Angry, Crying, Flirty, Happy, Kiss, Sad, Tongue, Wow, Confused, Devil, Glasses, Indifferent, Laughter, Sceptical and Wink, as defined in 3GPP™ TS 23.040 v4.3.0. It is possible to send and receive animations

Feature	Support
TP-PID field value given by the phone before sending an EMS message	0x00
EMS storage capacity	Up to 1,000 messages

Multimedia Messaging Service

Feature	Support
MMS/CSD parameters and MMS/GPRS parameters placement	 MMS is bound to an MMS profile. A MMS profile is bound to a Data account. A data account contains either CSD parameters or GPRS parameters and possibly proxy settings
Possibility to pre-configure the MMS parameters in the factory	MMS/CSD: YesMMS/GPRS: Yes
Possibility to configure the MMS parameters by OTA provisioning	MMS/CSD: YesMMS/GPRS: Yes
Possibility for all the parameters from the parameters set to be OTA provisioned at the same time	MMS/CSD: YesMMS/GPRS: Yes
Possibility for only one parameter, in the set of parameters, to be OTA provisioned	MMS/CSD: No MMS/GPRS: No
Supplier indication of realised interoperability tests between its MMS User Agent and MMS Relay/Server from other suppliers	Yes
Support of a standard procedure for OTA provisioning of MMS parameters	OMA Client Provisioning 1.1
Functionalities that the user is able to set during message composition:	 Message subject Message priority Email recipient address Message Cc, Bcc recipient(s) address(es) Delivery report request MSISDN recipient address Validity period

Feature	Support
From where can the user insert multimedia elements into multimedia messages:	File Manager Photo album Camera Contacts Calendar Task Note Browser (vBookmark) VideoDJ TM PhotoDJ TM MusicDJ TM Sound recorder
Possibility for sent messages to be memorised into a folder in phone memory	Yes
Actions that the user can perform after message retrieval:	 Reply to the sender of the message SMS/MMS Reply to the sender and to Cc, Bcc people SMS/MMS Forward the message Delete the message Save message in a dedicated folder Call the sender of a message Save item Mark as unread Details
Multimedia codecs/formats supported for audio	AAC, AMR, MPEG Layer 3, AWB, WAV, MP4, MIDI, iMelody, 3GPP™, XMF, M4A, WMA
Multimedia codecs/formats supported for video	MP4, 3GPP™, SDP, WMV
Multimedia codecs/formats supported for image	JPEG, GIF87, GIF89A, PNG, SVG, WBMP, BMP
Supported formats for message presentation:	 Message body plus attachments (email presentation) SMIL version as described in OMA MMS IOP document version 1.2
Maximum message size that can be handled by the phone	Content Class and Creation mode are applied. Maximum size can also be customised
Maximum number of objects supported in a message	30 objects is standard. It is possible to increase the number through configuration
Maximum text size	5,000 characters/text
Storage capacity	Up to 500 messages

Email client technical data

Feature	Support
Bearer type (IP)	Yes
Bearer type GSM Data (IP)	Yes, GPRS and HSCSD
Character sets	 ISO: ISO-8859-1, ISO-8859-2, ISO-8859-5, ISO-8859-7, ISO-8859-9, ISO-8859-10, ISO-8859-11 Windows: Windows-1251, Windows-1252, Windows-1254, Windows-1255, Windows-1258 US-ASCII Unicode: UTF-7, UTF-8, UTF-16 Japanese: Shift_JIS, ISO-2022-JP Cyrillic: KOI8-R Simplified Chinese: GB2312, GB18030 Traditional Chinese: Big5
OTA provisioning solution	OMA Client Provisioning 1.1
Protocols	POP3 and IMAP4
Push email	IMAP IDLE (extension of IMAP4 Rev1), OMA Email Notification 1.0 and scheduled checking, Exchange ActiveSync® (EAS)
Secure email	SSL/TLS, both port methods (POPS/IMAPS) and STARTTLS
HTML mail	Yes (tags removed)
Thumbnailed image attachments	Yes
Message management	User selectable inbox size, save messages to Memory Stick, arrange messages by date, size and Email address
ESMTP	Yes
Background sending	Yes

Connectivity

Bluetooth™ wireless technology technical data

Dimension	Support
Bluetooth™ wireless technology capability statement	This phone supports Bluetooth Specification, version 2.0 with enhanced data rate (EDR)
Bluetooth™ wireless technology profiles	Advanced Audio Distribution Profile Audio/Video Remote Control Profile Basic Imaging Profile Dial-up Networking Profile File Transfer Profile Generic Access Profile Generic Object Exchange Profile Handsfree Profile Headset Profile Human Interface Device Profile Object Push Profile Personal Area Networking Profile Phonebook Access Profile Synchronisation Profile SyncML OBEX binding
Connectable devices	All products supporting Bluetooth spec. 1.1, or higher, and at least one of the profiles above
Coverage area	Varies due to radio performance between the connected devices and the occurrence of obstacles. Up to 10 metres (33 feet)
Transmission power	Class 1, typical +3 dBm or 2 mW
Frequency band	2.4 GHz - the unlicensed ISM band
Power consumption	 GSM host processor excluded: Standby, Bluetooth On mode: <0.6 mA Voice to headset (HV3 master): 11 mA (7 mA with EDR functionality, 2EV3 master). Dependent on various parameters such as if the phone is master or slave Data mode average: 27mA at 172.8 Kbps symmetrical (DH1) Data mode average: 25mA at 172.9 Kbps symmetrical (DH1)
Data transmission rate	 Data speed at least 800 Kbps on a Dial-up Networking connection (requires access to HSDPA network and may be limited by capacity situation on the 3G base station) Data speed typically 1.0 Mbps on an Object Push connection between two phones (in case of using similar phones and if no other Bluetooth devices are connected)

OMA Data Synchronisation (SyncML™) technical data

Feature	Support for Sync ML
SyncML compliance	The phone is fully SyncML compliant, having passed SyncML Conformance testing. OMA DS 1.2 or OMA DS 1.1.2 is used depending on configuration and both are supported in Server-alerted synchronisation
Basic data formats	Contacts: vCard 2.1, Calendar: vCalendar 1.0 (vEvent) Tasks: vCalendar 1.0 (vTodo) Notes: text/plain, Bookmarks:vBookmark 1.0
Possibility for operators to extend SyncML functionality	The device may be configured to include preset SyncML settings, and to control whether SyncML 1.1 or SyncML 1.2 will be used
Transport method for SyncML messages	HTTP, HTTPS, OBEX (USB, Bluetooth)
Possibility for the user to configure login parameters (for example, username and password) to access the remote database	Yes
Configuration parameters that can be entered/modified by the user	Server URL, Username, User PWD, Paths to databases (Calendar, Contacts, Notes, Tasks and Bookmarks), UserID and PWD for databases, Databases to be synchronised (On/Off), Internet profile, Synchronisation interval, Server ID and Server PWD, permission to allow server-alerted synchronisation and roaming options. Can be provisioned with OMA Client provisioning v1.1 and OMA Device Management v1.2
Ability to deal with multiple servers	Yes
Ability to perform conflict resolution actions	Yes

Microsoft® Exchange ActiveSync®

Feature	Support for Exchange ActiveSync
Protocol version	The phone supports version 2.5 of Microsoft Exchange ActiveSync
Supported applications	Email, Calendar, Phonebook
Transport method used	HTTP, HTTPS
Possibility for the user to configure login parameters for remote server	Yes

Feature	Support for Exchange ActiveSync
Configuration parameters that can be entered/modified by the user	Server URL, username, domain name, password, applications to sync, email message size, email attachment size, email date range, message alert sound, calendar date range, interval sync, secure connection, roaming option
Ability to perform conflict resolution	No

Web browser technical data

Feature	Support in the browser
Bookmarks	Yes, with folders
Bookmark Export/Import	Yes, can be sent and received using vBookmark format using Bluetooth™ wireless technology, SMS, MMS and email
Browser compliancy	The Web browser is compliant with the following standards: HTML ver. 4.01 XHTML Basic 1.0 XHTML 1.1, Module-based XHTML XHTML Mobile profile WML 1.3 Cascading Style Sheets, level 2 revision 1, CSS 2.1 Specification Wireless CSS Specification, Version 26-Oct-2001 (WAP-239-WCSS-20011026-a) ECMA-script according to specifications found at http://www.ecma-international.org/publications/standards/ Stnindex.htm ECMAScript Mobile Profile AJAX Document Object Model Level 2 (DOM 2) Scalable Vector Graphics, Mobile SVG Profile: SVG Tiny, version 1.2 For further details, see the WAP User Agent strings and profiles for Sony Ericsson mobile phones Developers guidelines at Developer World http://developer.sonyericsson.com/
Browser version	Access NetFront 3.4
Cache	Yes (size 2 MB)
Character sets *	Most standard character sets, among others UTF-8 (Default), UTF-16, USASCII, Latin1, UCS2. For updated and detailed information, see the WAP User Agent strings and profiles for Sony Ericsson mobile phones Developers guidelines at Developer World http://developer.sonyericsson.com/ * When creating pages, it is recommended to always save the page
	contents as UTF-8.
Clear cache	Yes, persistent. By user interaction, at SIM card change or master reset
Frames	Full Frame support: Frames, IFrames

Feature	Support in the browser
Image formats and animations	GIF (interlaced and non-interlaced) WBMP, JPEG, PNG, BMP and SVG. Animated GIFs, animated SVG and Flash
Schemes	Http:, https:, rtsp:, mailto:, smsto:, mmsto:, tel:, wtai:
Streaming	Progressive download, RTSP, Java script controls
Web feeds	Ticker, podcasts, enclosures, OPML import. No support for ATOM
User agent profile	
User Agent Profiles	Yes, list of client characteristics - for example, screen size. For details, see the WAP User Agent strings and profiles for Sony Ericsson mobile phones Developers guidelines at Developer World http://developer.sonyericsson.com/
URL sent pointing to the UA profile at the beginning of browser session	Yes. For details, see the WAP User Agent strings and profiles for Sony Ericsson mobile phones Developers guidelines at Developer World http://developer.sonyericsson.com/
Download	
OMA download functionality	Yes
HTTP GET solution to download content and use browser for download	Yes
Other download content	Yes. No download limit when using HTTP protocol
Download application/product memory check	Yes
Downloaded object solution	Yes. The user is informed where the content is saved and asked if it should be used at once or later
UAP indication for downloading	Yes
Other features	Yes. Save, delete, forward, use, manage
Object formats	All formats can be downloaded and saved, but only formats supported by the phone can be used by the phone
Resume	Yes
Background download	Yes
Progressive download	Yes
Streaming	Yes
Browser navigation	
Selection keys	Yes. Two selection keys and centre navigation key
Search from standby	Yes. Enter address, search the web or bookmarks.
Separate/dedicated back or erase keys	Yes

Feature	Support in the browser
Display backlight on when browsing	Yes
Predictive writing	Yes
"http://" string displayed automatically when entering URLs	Not displayed but the "http://" is added automatically to the URL
"www" added automatically when entering URLs	Yes
Combined Search/Go To input field	Intelligent input field changes appearance (Search or Go to) depending on user input. A list of previously entered search strings, bookmarks and entered URLs is used to trigger the Go To or Search appearance
Internet network features	
Bluetooth™ wireless technology (as local connection)	Yes
Infrared (as local connection)	No
Network settings	Yes
PPP Authentication	PAP, CHAP supported
Security	HTTPS authentication TLS version 1 SSL version 3 WIM on SIM ICC X.509 certificate support, Mobile Profile WPKI OTA download of trusted certificates
USB (as local connection)	Yes
PUSH	
Content types	
Service Indication (SI)	Yes
Service Loading (SL)	Yes
Cache Operation (CO) content type	No
Session Initiation Application (SIA)	Yes
Man Machine Interface	
SI/content retrieval postponing	Yes
SI menu structure accessibility	Messaging, Inbox
SL reception warning	The user can make a choice if a dialogue is wanted or not before loading the SL

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Feature	Support in the browser
SIA reception warning	Yes
Cache size limitations	The oldest push in the inbox will be discarded
Number of push messages	Depends on the size of the push messages. Around 20 push messages with a size of 1024 bytes URL and 1024 bytes Indications for Service Indication can be saved.
Push deactivate	Yes
Dynamic push menu changes	No. There are no changes in the menus when activating/deactivating push
Security	
Mechanisms for push	None
Trust with PPG	Sending a SIA is the most reliable
WSP push sessions	No
HTTP push sessions	The White List (a setting to allow push messages only from certain addresses) is supported for IP address
SMS connection-less push	The White List (a setting to allow push messages only from certain addresses) is supported for SMS Center
Denial of service/spoofing	Setting to select when to allow push messages: Always, always ask or never. There is also a setting to select whether to allow push messages from all senders or only from certain addresses (the White List)

Client Provisioning

Feature	Support
Provisioning types	OMA Client Provisioning (v1.1)
Total Parameter sets	25 (shared between the provisioning types) < or = 25 (total number of data accounts)
Parameter set list	See the <i>Device Management v5</i> Developers Guideline at http://www.sonyericsson.com
Factory pre-configuration	Yes. This also provides the possibility to lock a setting
Security mechanism	
Bearer	OMA Client provisioning

Feature	Support
SMS	Uses security mechanism (SEC) methods according to OMA-WAP-ProvCont-v1_1- 20050428-C (see www.openmobilealliance.org). For NETWPIN the user is asked to accept to install received settings. For USERPIN, USERNETWPIN and
	USERPINMAC the user is subsequently asked to enter a PIN code that is a shared secret between the service provider and the user
Carrier reset/provisioning	Yes, but not if the set is pre-configured in the factory and locked
SWIM	Not used for provisioning. The SWIM is only used for wireless security, both SSL/TLS connections and digital signatures
Applicative provisioning	
Preferred bearer customisation	Yes
Other applications/features	Yes (MMS, Email, OMA Data Synchronisation, Wireless Village, OMA Device Management, Streaming)
Technologies	
OMA Client Provisioning	Yes, Client Provisioning version 1.1
Nokia/Ericsson OTA	No
Openwave OTA	No
Other	No
Provisioning bearer	SMS

Abbreviations

ЗGPPTM

3rd Generation Partnership Project

AAC

Advanced Audio Coding

AAC+

High Efficiency AAC v.1

AJAX

Asynchronous JavaScript and XML

AMR

Adaptive Multi Rate. Audio format for speech sounds

AMR-NB

Adaptive Multi Rate Narrow Band

AMR-WB

Adaptive Multi Rate Wide Band, a more advanced codec that supports speech with higher quality

API

Application Programming Interface

Bluetooth PAN

Bluetooth Personal Area Network

CS

Circuit Switched

CSD

Circuit Switched Data

DRM

Digital Rights Management. Controlling copying and distribution of contents, with respect to intellectual property rights

DTMF or Touch Tone

Dual Tone Multi-Frequency signal. Codes sent as tone signals. Used for telephone banking, accessing an answering machine, etc.

EDGE

Enhanced Data Rates for GSM Evolution

e-GSM

Extended GSM. New frequencies specified by the European Radio Communications Committee (ERC) for GSM use when additional spectrum is needed (network-dependent). It allows operators to transmit and receive just outside GSM core 900 frequency band. This extension provides increased network capability

eAAC+

High Efficiency AAC v.2

EDR

Enhanced Data Rate

EFR

Enhanced Full Rate, speech coding

EMS

Enhanced Messaging Service. Allows the user to add simple pixel pictures and animations, sounds and melodies to a text message. The EMS 3GPP™ standard also includes text formatting

ETSI

European Telecommunications Standards Institute

FM

Frequency Modulation of the (radio) carrier wave

FR

Full Rate, speech coding.

GIF

Graphics Interchange Format

GPRS

General Packet Radio Services

GSM

Global System for Mobile Communications. GSM is the most widely used digital mobile phone system, now operating in over 100 countries around the world, particularly in Europe and Asia-Pacific.

The GSM system family includes GSM 850, GSM 900, GSM 1800 and GSM 1900. There are different phases of roll-out for the GSM system and GSM phones are either phase 1 or phase 2 compliant

HR

Half Rate, speech coding

HSCSD

High Speed Circuit Switched Data

HSDPA

High Speed Downlink Packet Access

HTML

HyperText Markup Language

HTTP

HyperText Transfer Protocol

IrDA

Infrared Data Association

JPEG

Joint Photographer Expert Group

MIDI

Musical Instrument Digital Interface

ME

Mobile Equipment

MP

Megapixel

MP3

"MPEG-1/2/2.5 layer 3" audio coding scheme

MPEG/MPG

Moving Picture Experts Group

MT

Mobile Termination

ODI

Object Distribution Indicator

OMA

Open Mobile Alliance

OTA

Over The Air

PDA

Personal Digital Assistant

PDP

Packet Data Protocol

PIM

Personal Information Management

PNG

Portable Network Graphic

QCIF

Quarter Common Intermediate Format

RDS

Radio Data System

RSS

Really Simple Syndication

RTSP

Real Time Streaming Protocol

SI

Service Indication

SL

Service Loading

SIM card

Subscriber Identity Module card – a card that must be inserted in any GSM-based mobile phone. It contains subscriber details, security information and memory for a personal directory of numbers. The card can be a small plug-in type or credit card-sized, but both types have the same functions. The phone uses the small plug-in card.

SMS

Short Messaging Service. Allows messages of up to 160 characters to be sent and received via the network operator's message centre to a mobile phone

SP-MIDI

Scalable Polyphony MIDI

SS

Supplementary Services

SSL

Secure Socket Layer

TLS

Transport Layer Security

TTI

Transmission Time Interval

UI

User Interface

UMTS

Universal Mobile Telecommunications System

URL

Uniform Resource Locator.
The global address of documents and other resources on the World Wide Web

USSD

Unstructured Supplementary Services Data

vCard

vCard automates the exchange of personal information typically found on a traditional business card, for use in applications such as Internet mail, voicemail, Web browsers, telephony applications, call centres, conferences, PIMs /PDAs, pagers, fax, office equipment and smart cards. vCard is specified by IETF

VGA

Video Graphics Array

WAV

Waveform

WMA

Windows Media Audio

WMA Pro

Windows Media Audio Professional

WBMP

Wireless BitMap.
A graphic format optimised for mobile computing devices

WCDMA

Wideband Code Division Multiple Access

WML

Wireless Markup Language. A markup language used for authoring services, fulfilling the same purpose as HyperText Markup Language (HTML) does on the World Wide Web (WWW). In contrast to HTML, WML is designed to fit small handheld devices

WWW

World Wide Web

XHTML

Extensible HyperText Markup Language

XML

Extensible Markup Language

Related information

Documents

- Sony Ericsson User guide
- Sony Ericsson FAQ

- AT Command Reference Manual
- WAP 2.0 Specifications

Links

- www.sonyericsson.com
- www.ericsson.com/mobilityworld
- www.midi.org
- www.extendedsystems.com
- www.gsmworld.com
- www.bluetooth.com
- www.imc.org
- www.3gpp.org
- www.irda.org

- www.etsi.fr
- · www.openmobilealliance.org
- www.imc.org/pdi
- www.w3.org/TR/xhtml-basic
- www.java.sun.com
- www.memorystick.org
- www.memorystick.com
- www.sonyericsson.com/updateservice
- www.sonyericsson.com/support

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