Mobile Speak and Mobile Magnifier v3.0

User's Manual

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1. Introduction

Mobile Speak is a screen reader application for Symbian Series 60-based mobile phones. It allows visually impaired users to access the full functionality of their phone. The latest version of Mobile Speak now comes fully integrated with our innovative screen magnifier, Mobile Magnifier. Both high-quality products are bundled in a single installation, although they can be used independently and licensed separately.

This manual describes the features and usage of the application, and is not intended to replace the phone's user manual. In order to download a manual for Nokia phones, or for additional information about the phones, go to www.nokiahowto.com.

1.1   What's New in v3.0

The latest features of Mobile Speak v3.0 include:
- Support for Series60 3rd Edition on the latest generation of mobile phones powered by the Symbian 9.x operating system.
- Access to the built-in MP3 player on Series60 3rd edition phones.
- Improved firmware independence (particularly on newer phones).
- A new Keyboard Help Mode which allows users to learn Mobile Speak command assignments and familiarize themselves with the phone's key layout.
- The ability to turn the speaking of secret numbers on and off.
- Improved stability of Braille support.
- More Braille language tables including German and Swedish.
- Support for more Braille devices from Baum, Optelec and HumanWare.

The latest features of Mobile Magnifier v3.0 include:
- Mobile Magnifier now works in full-screen mode, providing a total of three different screen layouts (classic, full screen and distributed views)
- Includes font and graphics smoothing for easy readability.
- Provides status shortcuts to access the most useful information (battery level, signal strength, date, time, etc.) anywhere by long pressing the soft keys.
- Text cursor can be customized, including its size and color.
- Mobile Magnifier is now integrated with Mobile Speak, and does not have to be installed as a separate application.

1.2   Changes in Mobile Magnifier in v3.0

Due to the integration of Mobile Speak and Mobile Magnifier, users of earlier versions of Mobile Magnifier will notice several changes. Here is some useful information for users upgrading Mobile Magnifier:
- Prior to v3.0, Mobile Magnifier came as either a standalone product or as a plug-in to Mobile Speak. It is easy to configure v3.0 to operate in either of these modes. Simply go into Configure Mobile Speak and set the current MS Profile's "Auto Start Mobile Speak" option and "Auto Start Magnifier" options to suit your needs.
- Starting with v3.0, there will be only one type of license available for Mobile Magnifier. All existing users of Mobile Magnifier Standalone should contact us at info@codefactory.es to convert their current license to the new one for free.
- The Configure Mobile Magnifier application is no longer present in v3.0. Instead, all of the old and new features of the Mobile Magnifier can now be configured from inside the Magnifier tab of Configure Mobile Speak.

- Even if you are intending to use the Mobile Magnifier as a Standalone application, you still need to install a TTS voice prior to installing the Mobile Speak package.

2. Getting Started

2.1 System Requirements

Mobile Speak v3.0 has been designed for the following telephones:
- Symbian 6, 7 and 8: Nokia 3230, - 6260, 6600, 6620, 6630, 6670, 6680, 6681, 6682, 7610, - N70, N72, N90, - and Samsung SGH-D720,
- Symbian 9: Nokia 3250, 5500, E50, E60, E61, E61i, E62, E65, E70, N71, N73, N75, N80, N91, N92, N93 and N93i.

Users with older telephones (i.e. Nokia 3620, 3650, 3660, 7650, N-Gage, N-Gage QD, Panasonic X700 and X701) are recommended to install v2.03 of Mobile Speak

Mobile Magnifier v3.0 has been designed for the following telephones:
- Symbian 6, 7 and 8: 6630, 6680, 6681, 6682, N70, N72 and N90,
- Symbian 9: Nokia 3250, 5500, E50, E60, E61, E61i, E62, E65, E70, N71, N73, N75, N80 and N91.

Users with older telephones (i.e. Nokia 3230, 3620, 3650, 3660, 6260, 6600, 6620, 6670, 7610, 7650, N-Gage, N-Gage QD, Siemens SX1, Panasonic X700, X701 and Samsung SGH-D720) are recommended to install v2.03 of Mobile Magnifier.

For updates on support for newer phones, please visit our website at www.codefactory.es.

To ensure maximum performance and stability, Mobile Speak and its bundled software packages should be installed in a telephone with the maximum possible free space, both during the installation process and during normal execution.

2.2 Usage Recommendations

For correct operation of Mobile Speak and Mobile Magnifier you should follow these recommendations:

- Keep your mobile phone's storage space clean. As you use the phone, it gradually fills up with data, some of which may no longer be useful. For this reason we recommend that you clear all the data that you do not use, such as calls, messages, contacts, sounds, etc. Besides saving space, cleaning these old data will let Mobile Speak work faster. An advisable practice is to clear data immediately after receiving it. For example, if you receive a call, clear it from the list of received calls.

- Your phone should be configured so that incoming messages are saved in the **Memory Card**. Please contact your dealer or consult your mobile phone manual for more information on this setting.

- Please ensure that the firmware on your phone is up to date. To check your current firmware, please dial ***#0000#**. The earlier firmware versions on many Symbian phones contain problems which interfere with the operation of your phone, both with and without Mobile Speak installed. To update your firmware, you can either go to your Nokia service centre, or (if your phone is on the list of supported phones) you can online using the Nokia firmware update service at: http://www.nokia.com/A4176089

Currently supported phones for this service include the 6630, 6680, 6681, 6682, N70, N90, 3250, 5500, E50, E60, E61, E70, N71, N73, N80, N91, N92 and N93. To find the latest version of firmware available, take a look at http://hunajatehdas.net/nokia/firmware/index_en.php and type in your model number. Note that if your firmware is operator-branded, it may not be available in the latest version.

- Prior to installing, make sure that the date and time are correctly set on your phone. If the date is not set correctly, the packages may not install correctly and the trial license may not function correctly.

- Contact your dealer. If you have any questions about Mobile Speak features, suggestions, comments, etc. contact your dealer or visit the Mobile Speak web site at www.codefactory.es.

- Provide feedback. We would like to know your opinion about the software. If you have suggestions, comments or want to report a bug please mail us at info@codefactory.es.

2.3   Install and Uninstall

If you have obtained your telephone from a dealer, Mobile Speak has already been installed on your device. However, it is possible that for some reason you have had to remove Mobile Speak from your system, or that the technical service of your manufacturer has removed it, or that you have downloaded the software from the Internet and want to install it yourself.

In this section we explain, step by step, the installation process of Mobile Speak on your telephone. The same information applies to Mobile Magnifier, which will be installed at the same time as Mobile Speak. This process is not specially enabled for accessibility.

2.3.1   Install

The following instructions apply to phones where Mobile Speak has never been previously installed, or where all Mobile Speak packages have been removed. For the case of upgrading from a previous version of Mobile Speak, please read the section "Upgrading to v3.0 from a previous version" first before returning to this section to complete the installation.

Mobile Speak is made up of different packages: TTS, Mobile Speak Software and bundled software (Sound Recorder, Calculator, Mines game, MP3 Player and FExplorer). These packages should be installed in your system in the correct order: First the TTS package, then Mobile Speak, and finally the other bundled software applications. Note that a TTS package must be installed first, even if you are only planning to use the Mobile Magnifier. Note also that in Symbian 9, not all of these bundled packages are available because many of these items (e.g. MP3 Player and Calculator) are already available and accessible on the phone.

To install these packages, just transfer them to your device one by one and install them. Before transferring the next package, check that the previous one has been correctly installed and removed from the Inbox after installation. Do not transfer more than one package at the same time before starting the installation.

All the packages MUST be installed on the memory card of the phone whenever possible (this option is not available on the Nokia 7650 or the Panasonic X700 and X701).

Note that on some of the newer phones (e.g. 6630, 6680, 6681, 6682, N70, N72, N90 and all Symbian 9 phones), an additional security setting exists on the phone. The default setting

may need to be changed before any application will be allowed to be installed on the phone. To do this, go into the phone's Application Manager and press Options / Settings and make sure that Software Installation is set to On, and Online Certificate Check is set to Off.

You can transfer these packages to your mobile phone using either a Bluetooth port, a USB port or an infrared port. Please check the instructions of your telephone to get information about how to activate the communication ports and transfer data. You may also use the PC Suite application that comes with your phone to transfer the files; please consult the PC Suite reference manual for more information on how to do so.

Alternately, if you have a memory card reader and a PC, you may use the AutoSIS application developed by Code Factory to install the Mobile Speak components onto your memory card via the PC. This allows you to use a normal Windows-based screen reader to install the files unassisted. Please see the Code Factory website www.codefactory.es and the AutoSIS documentation for more details.

After the installation is finished, Mobile Speak will start automatically. However, it is advisable that you restart the telephone after installation. If for some reason Mobile Speak did not start automatically, please run the Start Mobile Speak application to launch the application.

After installing Mobile Speak, you may wish to install an optional multi-language package. Users who will be using just a single language voice on their phone, and who will not change the default language on their phone, do not need this multi-language package. However, users who use multiple languages (either in Mobile Speak or on their phone) may choose to install the multi-language option, which will install the Mobile Speak resources for all different languages and will automatically switch between them as the phone's language is changed.

Since v3.0, Mobile Speak comes integrated with Mobile Magnifier. By default, Mobile Speak is activated and Mobile Magnifier is deactivated the first time that the Mobile Speak package is installed. However, users can then configure the startup behaviour of Mobile Speak and Mobile Magnifier as they wish by configuring the Auto Start Mobile Speak and Auto Start Magnifier options inside Configure Mobile Speak.

2.3.2   Uninstall

To uninstall Mobile Speak, you must first press Stop Mobile Speak twice to make sure that the Mobile Speak application is not running. Then use the Manager application, which in most phones is located in the Tools folder or, in the case of the Nokia 6600, in the main menu.

The Manager application will show a list with all the packages and applications installed in the system. Remove all the packages of Mobile Speak.

After uninstalling the packages, Mobile Speak will have been cleared from your mobile phone.

It is recommended that the phone be restarted after uninstalling Mobile Speak.

Note that in Symbian 9 telephones, it is also possible to uninstall Mobile Speak by pressing the Clear key on any of the Mobile Speak icons. In Symbian 9, it is not necessary to first press Stop Mobile Speak before uninstalling.

2.3.3 Installing multiple TTS voices

Starting with v2.0, Mobile Speak allows users to install as many different voices as they wish, including voices from different TTS manufacturers. The first voice can be installed using the process described in the Install section above (i.e. first install the TTS, then install Mobile Speak). Subsequent different voices can be installed with Mobile Speak running, and only require that the TTS file is installed. However, DO NOT re-install the mspeak_multi.SIS file, nor the currently active voice, if Mobile Speak is already running.

Once an additional voice has been installed, it will need to be licensed in order to be used. Please see the licensing section below for details on how to obtain a trial or full license. There is no restriction to the number of voices a user can have installed on their device. However, please keep in mind that each voice occupies a significant amount of memory, so make sure that your phone and Memory Card have enough free space available to function correctly with any additional voices installed.

The list of supported voices is large and always growing. We encourage you to trial different voices before deciding which one is most appropriate for you. Older phones may have less internal memory than newer phones, so keep this in mind when choosing the voice that is best suited for your particular phone. Please visit the Mobile Speak web page at www.codefactory.es for the latest list of available voices.

2.4 Licensing

Mobile Speak supports 3 kinds of licenses:

2.4.1 10 minute trial license

After installing Mobile Speak for the first time the program will work for 10 minutes. When the 10 minutes are finished you can either restart the phone and it will work for 10 more minutes, get a 30-day trial license or buy the software. Mobile Magnifier operates with a similar 10-minute license.

2.4.2 30 day trial license

In order to obtain a 30-day trial license of Mobile Speak you need to provide your dealer with the product serial number. To do so, open the application "Configure Mobile Speak" located in the phone's menu, select Options and then select Register Now, and select either Mobile Speak or Mobile Magnifier. If more than one voice is installed on the phone, you will then need to select the voice which you wish to license. You will also need a separate license for Mobile Magnifier.

When you get the license number from your dealer you must go back to the Register Now option and type the license number there. If more than one voice is installed on the phone, make sure to choose the same voice to which the license number corresponds. The phone will then restart (or on Symbian 9 phones, it will suggest that you restart the phone) and Mobile Speak will work for 30 days without any sort of limitation.

Please note that while under a trial license you cannot change the date or the time of the phone (only a 2 hours change of the phone is allowed for daylight savings time adjustments). Changing the date or time beyond these limits will automatically lock the trial license, without any chance to recover it. The trial will run for 30 days from the time that the trial license is issued. Therefore, make sure that the time and date are set correctly on the

phone before entering the license. To take advantage of the full 30 days of the trial, make sure to enter the trial license as soon it is issued.

Multiple trial licenses may be used on the phone at the same time, in order to trial different voices from different TTS manufacturers.

2.4.3 Full license

After you have purchased a full license of Mobile Speak (or Mobile Magnifier) you will be given a full license number. You must type the number in the Register Now option. The phone will then restart (or on Symbian 9 phones, it will suggest that you restart the phone) and Mobile Speak (or Mobile Magnifier) will be licensed without any expiration date.

Note that if you already have a full license, a message "Already Registered" will be displayed when you enter Register Now and the registration window will not be opened.

2.4.4 Free Software Updates

Updates of the Mobile Speak software are regularly placed on the Mobile Speak website www.codefactory.es. These updates are free and will not affect the old license, so license numbers do not need to be re-entered when updating Mobile Speak.

2.4.5 Upgrading to v3.0 from a previous version

Users of the Scansoft TTS should refer to the following section for installation instructions for Mobile Speak v3.0.

Users who are upgrading to v3.0 from v1.xxx, and users who had a version of Mobile Magnifier installed on their phone MUST first uninstall ALL Mobile Speak and Mobile Magnifier packages (TTS, Mobile Speak and any related tools) before installing v3.0 of Mobile Speak. This is extremely important, since failing to do so may cause Mobile Speak to not work correctly, or may even cause phone instability. Check with your dealer or read your manual, or the Uninstall section above, if you have any doubts about how to uninstall packages from your phone.

Once all Mobile Speak packages have been uninstalled, you can then proceed with a standard installation, as described in the Install section above.

Users who are upgrading to v3.0 from v2.xx are also recommended to uninstall all Mobile Speak packages before installing v3.0.

2.4.6 Users of Scansoft TTS

Since April 2006, Mobile Speak has not supported new users of the Scansoft TTS. However, users who previously purchased the Scansoft TTS can still upgrade to v3.0 of Mobile Speak by installing the mspeak_multi_upgrade.SIS package. The installation instructions for these users are the following:
-   Stop Mobile Speak
-   Install the mspeak_multi_upgrade.SIS package to the location where Mobile Speak is currently installed. In most cases this will be the Memory Card, but if you are not sure, make sure to check by finding the Mobile Speak application inside the phone's Application Manager and clicking on Options / View Details and scroll down to Memory In Use. Note that this package installs directly on top of the old Mobile Speak

install package, so it is important that neither the old Mobile Speak package nor the TTS are uninstalled prior to installing the upgrade.

Note that, for future releases of Mobile Speak that do not require a TTS upgrade, users will be able to upgrade from v2.x of Mobile Speak to the latest version simply by stopping Mobile Speak and then installing the mspeak_multi_upgrade.SIS package on top of the current version.

3. Using Mobile Speak

When you start Mobile Speak for the first time you will find a Mobile Speak folder in the phone's menu. Inside this folder, you'll find the following five items: Start Mobile Speak, Stop Mobile Speak, Configure Mobile Speak, Start Mobile Magnifier and Stop Mobile Magnifier.

3.1 Start Mobile Speak

This application will be installed in the Mobile Speak folder when Mobile Speak is installed. Press it to start Mobile Speak. Once Mobile Speak has started, it will keep running until Stop Mobile Speak is pressed (even if the phone is restarted), unless the Auto Start Mobile Speak option is deactivated. Pressing Start Mobile Speak when the program is already running will have no effect.

3.2 Stop Mobile Speak

This application will be installed in the Mobile Speak folder when Mobile Speak is installed. Press it to stop Mobile Speak. Once Mobile Speak is stopped, nothing will be spoken. If Mobile Magnifier is stopped, then by pressing Stop Mobile Speak a second time, it will completely unload Mobile Speak, and it will not re-start automatically when the phone restarts. Press Start Mobile Speak to re-start the program.

3.3 Configure Mobile Speak

In the configuration menu you can change the settings of Mobile Speak and Mobile Magnifier. In order to provide maximum configurability, Mobile Speak (MS) Profiles were introduced in v2.0 of Mobile Speak, which allow users to store different settings and to easily switch between them. These are described further in the next section. Each MS Profile is divided into 5 groups of settings: General, Advanced, Custom Verbosity, Braille and Magnifier. To switch between the different groups, use the joystick left and right keys. All of these options are described in greater detail later in this section. The options that also have associated function keys are described in the Function Keys section.

Note that any changes that you make to the configuration settings will only take effect once you exit the MS Profile that you are currently customizing, or also if you switch to a different setting using the joystick left or right key. For the settings that are linked to the Function Keys (e.g. Volume, Verbosity), it is recommended not to change them using Function Keys while the Configure Mobile Speak application is running, since these settings will be overridden when Configure Mobile Speak is exited.

3.3.1 MS Profiles

Mobile Speak organizes configuration settings into groups called MS Profiles, allowing you to switch between different profiles as you need them. For example, you could configure one MS Profile to speak with a certain voice, speed, and level of verbosity for reading long passages of text, while using a different combination for normal use of the phone. All of the Mobile Speak settings are included in each MS Profile, making it easy to customize them to your specific preferences and situations.

Mobile Speak supports three separate MS Profiles, which can be renamed as desired. In the initial screen of the Configure Mobile Speak application, you will see a list of the three MS Profiles, initially named Normal, Beginner and Advanced. One of these MS Profiles is always marked as Active, which means that its settings are the ones that are currently in use. The word "Active" will be spoken after the profile name of the currently active MS Profile. For each MS Profile, you have the option to activate it or customize it. By selecting Customize, you will be presented with five separate tabs, each of which contains a separate set of configuration options, as listed below.

3.3.2 General Options

The following is a list of the General configuration options:

- Profile Name
- Turn Keyboard shortcuts On/Off
- Keyboard Echo State: None/Characters/Words/Characters and Words
- Audio profile: Normal/Earphone/Custom 1/Custom 2/Custom 3
- Change Volume from 1 to 10
- Change Pitch from -10 to 10
- Change Speed from -10 to 10
- Change the voice, if you have installed several voices.
- Verbosity: Normal/High/Low/Custom
- Punctuation: None/Some/All
- Turn Silent on Calls On and Off (NOTE: Not currently available in Symbian 9)
- Auto Start Mobile Speak On/Off

Profile Name

Each MS Profile can be renamed to suit your preferences; entering a new name here will change the name presented in the initial Configure Mobile Speak screen. Default names are Normal, Beginner and Advanced.

Keyboard Shortcuts

In the Phone application (the one that is displayed at start-up), making long presses (between 2 and 3 seconds) of the following keys brings you directly to the following applications:

- 3 … Messaging
- 4 … Calendar
- 5 … Profiles
- 6 … To-Do (NOTE: Not present on all phones)
- 7 … Bluetooth
- 8 … Notepad

Please note that Keyboard Shortcuts may not work when then phone's speed dialling feature is turned on, even if no speed dialling shortcuts are assigned. In order to turn off speed dialling please go to settings/call settings/speed dialling.

This feature can be turned On or Off from within the Mobile Speak configuration. Default is On for all MS Profiles.

Keyboard Echo

This option changes the keyboard echo setting (None / Characters / Words / Characters and Words). It also has a related function key (Edit key + 8). See Section 4.4.7 for a further description. Default is Characters and Words for all MS Profiles.

Audio Profile

Select the Normal audio profile when using Mobile Speak normally. Select the Ear phone audio profile when using a headset or ear phone. Three custom audio profile settings are also available. Each one of these settings corresponds to a particular Volume, Pitch and Speed setting. Default is Normal for all MS Profiles.

Volume

This option increases or decreases the volume of the speech (1 to 10). It also has a related function key (Edit key + 2, Edit Key + 3). See Section 4.4.3 for a further description. Default is 5 for all MS Profiles.

Pitch

This option increases or decreases the pitch of the speech (-10 to 10). Default is 0 for all MS Profiles.

Speed

This option increases or decreases the speed of the speech (-10 to 10). It also has a related function key (Edit key + 4, Edit Key + 5). See Section 4.4.4 for a further description. Default is 0 for the Normal MS Profile, -3 for the Beginner MS Profile, and 5 for the Advanced MS Profile.

Voice

Many different voices can be installed on the same phone, and the user is able to switch between them. Note that once there is at least one Trial or Full licensed voice on the phone, only voices that have a license will appear in the Configure Mobile Speak / Voice list. If you have a registered version of Mobile Speak and you install a new voice, you will need to obtain a license (either Trial or Full) in order to be able to use this new voice (you will be prompted to select a voice when entering the license).

Silent On Calls (NOTE: Not currently available in Symbian 9)

The Silent on Calls feature instructs Mobile Speak not to be active while on a call. If Silent on Calls is off then Mobile Speak works normally during a call and the user can navigate through

the phone to, for example, check the calendar or the contacts list. Default is Off for all MS Profiles. Note than in Symbian 9, there is currently no speech output while on a call.

Verbosity

This option changes the verbosity setting (Normal / High / Low / Custom). It also has a related function key (Edit key + 6). See Section 4.4.5 for a further description. Default is Normal for the Normal MS Profile, High for the Beginner MS Profile, and Low for the Advanced MS Profile.

Punctuation

This option changes the punctuation setting (None / Some / All). It also has a related function key (Edit key + 7). See Section 4.4.6 for a further description. Default is Some for all MS Profiles.

Auto Start Mobile Speak

This option controls whether or not Mobile Speak will be activated when the phone re-starts. Note that if Mobile Speak is unloaded when the phone is restarted (e.g. by running Stop Mobile Speak twice), it will not be possible to active Mobile Speak when the phone restarts. Default is On for all MS Profiles.

3.3.3   Advanced Options

The following is a list of the Advanced configuration options:

- Turn Welcome Sound On and Off (NOTE: Not currently available in Symbian 9)
- Turn Read Full Text On and Off
- Turn Mute on Keypad Lock On and Off
- Turn Case Indicator On and Off
- Turn Speak Deleted Character On and Off
- Turn Speak Missed Calls/New Messages On and Off
- Allow Shortcuts When Muted
- Secret Editor Mode (None / Asterisk / Last Character)

Welcome Sound (NOTE: Not currently available in Symbian 9)

The Welcome Sound setting can be used to activate and deactivate the sound and the animation that is displayed when Mobile Speak is started using the "Start Mobile Speak" option from the phone's main menu. Default is On for all MS Profiles.

Read Full Text

The Read Full Text setting changes the way of speaking inside read-only text (e.g. received SMS, email, help) and also inside the web browser. When set to On, all the text from the current screen onwards (until the end of the text message) is spoken when navigating (e.g. entering the first time of moving up/down with joystick) inside read-only texts. When set to Off, only the current screen (generally 5 or 6 lines) is spoken. Default is On for the Normal MS Profile, Off for the Beginner MS Profile, and On for the Advanced MS Profile.

Mute on Keypad Lock

The Mute on Keypad Lock setting affects the operation of Mobile Speak when the keypad is locked. When set to On, Mobile Speak will be mute when the keypad is locked. Default is On for the Normal MS Profile, Off for the Beginner MS Profile, and On for the Advanced MS Profile.

Case Indicator

The Case Indicator setting changes the way of speaking inside text editors (e.g. read/write SMS, help, email). When set to On, the case of the character will be spoken when entering characters or when speaking the current word (edit key + 1) inside an editor. The word "Caps" will be spoken immediately before the character if it is a capital. Default is Off for the Normal MS Profile, Off for the Beginner MS Profile, and On for the Advanced MS Profile.

Speak Deleted Character

When set to On, if you delete a character inside an editor, the deleted character(s) will be spoken. If verbosity is High, it will also say "Deleted" followed by the character(s) that were deleted. Default is Off for the Normal MS Profile, On for the Beginner MS Profile, and Off for the Advanced MS Profile.

Always Speak Missed Calls/New Messages

When set to On, this option will speak the notification of new messages and new missed calls, even when the keypad is locked and "mute on key lock" is enabled. Default is Off for the Normal MS Profile, On for the Beginner MS Profile, and Off for the Advanced MS Profile

Silent While Dialing

This option allows extra privacy by not speaking the number being dialled from the main dialing screen.

Allow Shortcuts When Muted

When this option is set to On, keyboard shortcuts (such as Edit+9 to tell the time) will be allowed even when the keypad is locked. If the setting is Off, you must first unlock the keypad before using any of these functions.

Secret Editor Mode

The Secret Editor Mode setting controls the speech output when entering characters inside a secret editor (e.g. when entering the PIN code). When this option is set to Asterisk, the * key will be spoken each time a key is entered. When set to Character, the character that was entered is spoken. When set to None, nothing is spoken. Default is Asterisk for all MS Profiles.

3.3.4   Custom Verbosity Options

The following is a list of the Custom Verbosity options:

- List Numbers
- Tab Numbers

- Grid Numbers
- Menu Key Options
- Auto Case Change
- Character Deletion
- Battery/Signal Always
- Extended Battery/Signal
- Submenu Indicators
- Announce Window
- Top/Bottom of Web Page
- Web Page Item Number
- Web Items Only Once
- Focused Web Links
- Announce Unread Messages

List Numbers

Determines whether or not the number of an item and the total number of items will be spoken in a list display, such as the list mode of the main phone menu. (For example, "Tools, 5 of 17"). Default is On for the Normal MS Profile, On for the Beginner MS Profile, and Off for the Advanced MS Profile.

Tab Numbers

Determines whether or not the number of the tab and the total number of tabs will be spoken in a tabbed dialog. (For example, "Advanced, 1 of 3"). Default is On for the Normal MS Profile, On for the Beginner MS Profile, and Off for the Advanced MS Profile.

Grid Numbers

Determines whether or not the number of the icon and the total number of icons will be spoken in a grid display, such as the default mode of the main phone menu. (For example, "Tools, 5 of 17"). Default is On for the Normal MS Profile, On for the Beginner MS Profile, and Off for the Advanced MS Profile.

Menu Key Options

Determines whether or not the functions assigned to the left and right soft keys are spoken. (For example, "Button 1 select, button 2 exit"). Default is On for the Normal MS Profile, On for the Beginner MS Profile, and Off for the Advanced MS Profile.

Auto Case Change

Determines whether to announce the change from upper-case to lower-case mode when the text input mode is set to "auto-case". (The auto-case mode is indicated on the display with the icon "Abc", and automatically capitalizes the first letter of each sentence while entering text.). Default is On for the Normal MS Profile, On for the Beginner MS Profile, and Off for the Advanced MS Profile.

Character Deletion

Determines whether to speak "deleted" when a character is deleted with the 'C' key. Default is On for the Normal MS Profile, On for the Beginner MS Profile, and Off for the Advanced MS Profile.

Battery/Signal Always

Always speaks the battery and signal level when reading the contents of the main telephone ("standby") screen. Default is On for the Normal MS Profile, On for the Beginner MS Profile, and Off for the Advanced MS Profile.

Extended Battery/Signal

Speaks verbose information about battery and signal levels, for example "battery level is 3 bars, signal level is 4 bars" as opposed to the less verbose "battery 3, signal 4". Default is On for the Normal MS Profile, On for the Beginner MS Profile, and Off for the Advanced MS Profile.

Submenu Indicators

Speaks the word "submenu" when a menu item contains a submenu. Default is On for the Normal MS Profile, On for the Beginner MS Profile, and Off for the Advanced MS Profile.

Announce Window

Speaks the word "window" when announcing the title of a screen, for example "messages window" vs. "messages". Default is On for the Normal MS Profile, On for the Beginner MS Profile, and Off for the Advanced MS Profile.

Top/Bottom of Web Page

Speaks "top of page" or "bottom of page" when reaching the top or bottom of the contents of a web page. Default is On for the Normal MS Profile, On for the Beginner MS Profile, and Off for the Advanced MS Profile.

Web Page Item Number

Speaks the selected item number and total number of selectable items within a web page (e.g. "login, 5 of 19"). Default is On for the Normal MS Profile, On for the Beginner MS Profile, and Off for the Advanced MS Profile.

Web Items Only Once

In most web pages, items which can be selected (such as links and buttons) often have associated text, such as labels. Normally these text labels will be read along with the focused item each time the item is selected. However, if this option is set to "on", the labels for selected items will only be read the first time each item is selected, and returning to a previously spoken item will not speak its label again. Default is Off for the Normal MS Profile, Off for the Beginner MS Profile, and On for the Advanced MS Profile.

Focused Web Links

Speak the words "focused link" when a web page link is selected. Default is On for the Normal MS Profile, On for the Beginner MS Profile, and Off for the Advanced MS Profile.

Announce Unread Messages

When selected, this option announces the presence of unread messages in the Inbox (e.g., "Inbox, unread messages") as well as indicating which messages in the Inbox are unread while scrolling through the message list. This option is automatically turned on in High and Normal verbosity modes. Default is On for all MS profiles.

3.3.5   Braille Options

Mobile Speak contains support for several popular braille devices. For more information about the use of each specific device, including key layouts and mappings, please see the separate appendix which corresponds to your device.

The list of available braille devices is configured using the braille device manager, which is covered elsewhere in this manual. To access the braille device manager, select "Braille" from the Options menu from anywhere within the Configure Mobile Speak application, and then choose "Configure devices" from the pop-up submenu.

The following is a list of the braille configuration options available from the Braille tab in Configure Mobile Speak:

- Input Braille Table
- Output Braille Table
- Show Control Type

Input / Output Braille Table

Selects a braille translation table to use for mapping braille input and output. This table will be used when sending text to the braille device, or when entering text using the braille keyboard. Beginning with Mobile Speak 3.0, you may select separate tables for input and output; for example, you may choose to enter text in grade 2 braille, but have the output displayed in computer braille.

Show Control Type

When selected, this option includes a short abbreviation before each text sent to the device, indicating the type of control being displayed. The braille control type abbreviations vary according to the currently-selected language.

3.3.6   Magnifier Options

The following is a list of the Magnifier options:

-    Zoom level: 1.25x – 16x
-    Auto Start Magnifier: On / Off
-    Layout type: Full screen / Distributed / Classic
-    Auto Zoom: On / Off
-    Scrolling: On / Off
-    Scrolling Speed: 1 - 5
-    Border: On / Off
-    Border width: Small / Medium / Large
-    Border Color: White / Red / Green / Black / Yellow / Blue
-    Font smoothing: On / Off

- Color scheme: Normal / Black and White / Gray scale low res / Gray scale high res / Color low res / Color high res / Inverse colors
- Status shortcuts: On / Off
- Distributed zoom level: 1x / 1.25x / 1.5x / 2x
- Text cursor: On / Off
- Text cursor color: White / Red / Green / Black / Yellow / Blue
- Cursor size: Small / Medium / Large
- Cursor blinking: On / Off

Zoom Level

Nine choices are available, ranging from 1.25x to 16x. Default is 2x for the Normal MS Profile, 4x for the Beginner MS Profile, and 3x for the Advanced MS Profile.

Auto Start Magnifier

If activated Mobile Magnifier will load automatically at phone startup. Default is Off for all MS Profiles.

Layout type

Mobile Magnifier v3.00 has three different ways to magnify the screen:

1. Full screen (default for all MS Profiles) – The contents of the entire screen are magnified.

2. Distributed views – Screen text is magnified in the center using the selected level, while the window title at the top and current left and right soft keys at the bottom are displayed using a secondary magnification setting.

3. Classic – The bottom half of the screen shows what is in the unmagnified top half, but using a different magnification level.

Full Screen view   *Distributed view*   *Classic view*

Auto Zoom

Auto Zoom can be turned ON or OFF. When turned ON, the Magnification Level will automatically adjust to the screen content and may therefore change. Users who prefer to have a fixed zoom level should turn this feature OFF. Default is Off for all MS Profiles.

Scrolling

When activated, if a high level of magnification is used and text does not fit the screen, Mobile Magnifier will automatically scroll to let you read the entire text. Default is Off for all MS Profiles.

Scrolling Speed

There are 5 different scrolling speeds to choose from. Default is 3 for the Normal MS Profile, 1 for the Beginner MS Profile, and 5 for the Advanced MS Profile.

Border

Mobile Magnifier can draw a border outside the magnification area. Default is Off for the Normal MS Profile, On for the Beginner MS Profile, and Off for the Advanced MS Profile.

Border width

The width of the border can be customized to user preference. Default is Small for the Normal MS Profile, Large for the Beginner MS Profile, and Small for the Advanced MS Profile.

Border color

The color of the border can be customized to user preference (White / Red / Green / Black / Yellow / Blue). Default is Red for all MS Profiles.

Font Smoothing

Mobile Magnifier is the first to offer this very important feature for the visually impaired. Enabling this option smoothes the corners, curves and edges of the magnified screen contents to make them appear less jagged when enlarged and thus easier to read.

Here is an example:
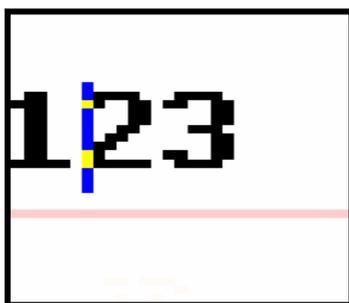
Without font smoothing   *With font smoothing*
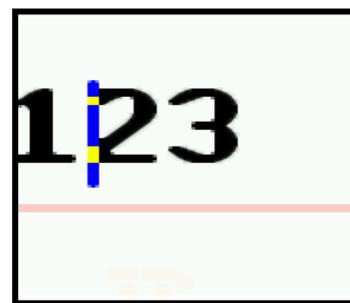
Default is On for the Normal and Beginner MS Profiles, and Off for the Advanced MS Profile.

Color scheme

Mobile Magnifier has 7 different color schemes: Normal, black and white, gray scale (low resolution), gray scale (high resolution), color (low resolution), color (high resolution) and Inverse colors – meeting the needs of all users with varying degrees of low vision. Default is Normal for all MS Profiles.

Status shortcuts

This is another exciting new feature available only in Mobile Magnifier v3.0. Enabling this gives you access to the following information screens:

Pressing the *left soft key* for half a second, the screen will show an icon indicating the battery level, network status and current time – all displayed with large icons and fonts.

Pressing the *right soft key* for half a second, the screen will show icons indicating if there are missed calls, unread messages and the date with big numbers.

Users can enable or disable this feature using the Status Shortcuts setting. Default is On for all MS Profiles.

Distributed Zoom Level

This is the secondary magnification level of the title and soft key areas of the Distributed Views layout type just described. Default is 2x for all MS profiles.

Text cursor

This is yet another enhancement of Mobile Magnifier v3.0. It can replace the default system cursor with your own text cursor which you can customize by selecting its width and color, and enabling or disabling blinking.

Users can enable or disable this feature using the Text Cursor setting. Default is On for all MS Profiles.

Text cursor color

Users can customize the color of the text cursor (White / Red / Green / Black / Yellow / Blue). Default is Red for all MS Profiles.

Cursor size

Users can customize the size of the text cursor (Small, Medium or Large). Default is Large for the Normal MS Profile, Large for the Beginner MS Profile, and Small for the Advanced MS Profile.

Cursor blinking

Users can control the blinking of the text cursor with this setting (On or Off). Default is On for the Normal MS Profile, On for the Beginner MS Profile, and Off for the Advanced MS Profile.

3.3.7　Options under the Left Soft Key

By pressing the left soft key inside the Configure Mobile Speak application, a list of options is selected.

Change

This option is available when configuring a particular MS Profile setting. It opens a window where you can change the currently highlighted item. Note that for items that only allow On/Off settings, pressing Change will toggle the setting instead of opening a window.

Apply to All Profiles

This causes the setting of the currently highlighted item to be applied to all MS Profiles. For example, if the currently highlighted item is Volume and it is set to 4, then by pressing Apply to All Profiles, all MS Profiles will be set to have a Volume of 4. The only exception to this is the Profile Name setting – pressing Apply to All Profiles has no effect for this setting, since it doesn't make sense to have all MS Profiles with the same name.

Register Now

Opens a registration window where Trial or Full license codes can be entered for both Mobile Speak and Mobile Magnifier (see Section 2.4 License). If more than one voice is installed on the phone, you will then need to select the voice which you wish to license. Note that if you already have a full license, a message "Already Registered" will be displayed and the registration window will not be opened.

Restore Defaults

This option will have a different function depending upon where it is pressed. If it is pressed while customizing an MS Profile, then all the settings for the MS Profile being customized will be restored to their defaults. However if this option is pressed from the initial Configure Mobile Speak window (i.e. the window with the list of MS Profiles displayed), then all of Mobile Speak's factory default settings will be restored and the phone will be restarted (Note: In Symbian 9, the phone will not restart). In both of these cases, a prompt will first be issued which will require the user to accept in order to proceed.

Braille submenu: Configure Devices

The Configure Devices menu item displays the braille device manager, which presents a list of the currently-configured braille devices. You can add additional devices to this list, delete a device, view information about a device, or connect to the currently selected device.

To add a braille device to the list, select "Add new device" from the Options menu. Mobile Speak will present you with a list of supported devices; select your device from the list and the device manager will perform a Bluetooth search to establish a connection. Once the

device has been configured, you may connect and disconnect it by selecting "Connect" from the options menu, or by using the Edit + Dial key shortcut.

To delete, show information, or connect to a device, select the corresponding entry from the device manager list, and select the appropriate command from the Options menu.

Braille submenu: Turn braille on/off

This menu item performs the same function as the Edit + Dial key combination, which is to connect to the currently configured braille device, or disconnect from the device if a connection is active.

Help

A description of all the Function Shortcuts is provided inside the Help menu.

About

Information about the date and version of Mobile Speak, as well as the status of licenses (for every TTS installed on the phone) and copyright information will be spoken.

Activate

This option is available from the initial Configure Mobile Speak window, and also when pressing the Enter key while currently focused on one of the MS Profiles. It sets the currently focused MS Profile to be the active MS Profile, which means that Mobile Speak will function according to the settings of the active MS Profile.

Customize

This option is available from the initial Configure Mobile Speak window, and also when pressing the Enter key while currently focused on one of the MS Profiles. It opens the configuration window for the currently focused MS Profile, allowing the user to change settings for this profile.

3.4   Start Mobile Magnifier

This application will be installed in the Mobile Speak folder when Mobile Speak is installed. Press it to start Mobile Magnifier. Once Mobile Magnifier has started, it will keep running until Stop Mobile Magnifier is pressed (even if the phone is restarted), unless the Auto Start Magnifier option is deactivated. Pressing Start Mobile Magnifier when it is already running will have no effect.

3.5   Stop Mobile MAgnifier

This application will be installed in the Mobile Speak folder when Mobile Speak is installed. Press it to stop Mobile Magnifier. Once Mobile Magnifier is stopped, nothing will be magnified. Press Start Mobile Magnifier to re-start the program.

3.6   Keyboard Help Mode

Mobile Speak includes a built-in help mode, which describes the names and functions of keys and key combinations as they are pressed. For example, if the 3 key is pressed, Mobile Speak will say the name "three key". If the Edit key is pressed followed by the 3 key, Mobile Speak will say the name and description of the corresponding command shortcut, or "edit plus three, volume up",

To activate the keyboard help mode, press and hold the edit key for at least three seconds from any application. Mobile Speak will announce that help mode has been activated, and then wait for further keys to be pressed. To deactivate, press and hold the edit key again for at least three seconds, and Mobile Speak will return to the normal mode. If no keys are pressed for at least ten seconds during help mode, Mobile Speak will also return to normal mode.

3.7   Mobile Speak Function Shortcuts

3.7.1   Overview of Mobile Speak Function Shortcuts

The following combination of keys can be used at any time when Mobile Speak or Mobile Magnifier are running. Below is a list of them and their corresponding description.

Mobile Speak Function Shortcuts are found by first pressing and releasing the Edit Key and then pressing any of the following function keys (within 2 seconds of pressing the edit key).

Edit + 1: Spell word under the cursor
Edit + 2: Volume down
Edit + 3: Volume up
Edit + 4: Speed down
Edit + 5: Speed up
Edit + 6: Toggle verbosity
Edit + 7: Toggle punctuation
Edit + 8: Toggle keyboard echo
Edit + 9: Speak time and date
Edit + 0: Toggle mute
Edit + Left Soft key: Battery and signal level status and network operator
Edit + Right Soft key: Launch Mobile Speak configuration window
Edit + #: Reads the current screen
Edit + *: Reads the last word or phrase spoken (up to 5 items)
Edit + Enter: Reads current soft key assignment
Edit + Joystick Right: Moves the cursor and speaks the next word in the text
Edit + Joystick Left: Moves the cursor and speaks the previous word in the text
Edit + Joystick Up: Moves the cursor and speaks the previous line in the text
Edit + Joystick Down: Moves the cursor and speaks the next line in the text
Edit + Clear: Toggle Active MS Profile
Edit + Dial key: Connect to, or disconnect from, default braille device

Note that, if you repeat pressing the same function key, it is not necessary to keep pressing the edit key each time (e.g. Edit key + 3 + 3 will increase the volume by 2). But you must not wait longer than 2 seconds in between pressing keys – otherwise you will have to press the edit key again. There are also groups of function keys that work together like this – e.g.

inside an editor, the joystick left, right, up, down and key 1 (spell current word) all work together like this. So, for example, to speak an SMS word-by-word and also character-by-character you can press: Edit key+ right joystick + 1 + right joystick + 1 + right joystick + 1 + right joystick + 1 ... and the message will be spoken word-by-word and character-by-character.

Note also that several function keys are directly linked to a setting item inside Configure Mobile Speak (e.g. Volume, Verbosity). In these cases, changes made using the function keys will be seen when you enter the Configure Mobile Speak application.

3.7.2   Spell word under the cursor (Edit + 1)

This function key is useful when editing or reading text. It spells the word that is currently under the cursor. If Speak Deleted Character is set to On, then any capital letters will be preceded by the word "Caps".

3.7.3   Volume up/Volume down (Edit + 2 / Edit + 3)

This function key changes the volume of the speech output, on a range from 1 to 10. Note that the volume can't be lowered to zero. If you wish to mute the phone, use the "Mute" function key described below instead.

3.7.4   Speed up/Speed down (Edit + 4 / Edit + 5)

This function key increases or decreases the speed of the speech, on a range from -10 to 10.

3.7.5   Toggle Verbosity (Edit + 6)

This function key changes the current verbosity level. Each verbosity level behaves differently when reading the contents of the screen. Possible values are: High, Normal, Low and Custom. When set to Custom, all the current MS Profile's Custom Verbosity settings will be activated.

3.7.6   Toggle Punctuation (Edit + 7)

This function key change the way Mobile Speak reads punctuation symbols. Possible values are: All, Most and None.

3.7.7   Toggle keyboard echo (Edit + 8)

This function key changes the way characters and words are spoken while editing text. There are 4 options:

- **None:** No speech feedback is provided while editing text.
- **Characters:** As the text is being typed each character is spoken.
- **Words:** As the text is being typed characters are not spoken, but as soon as a space is typed, the previous word is spoken.
- **Characters and words:** Both characters and words are spoken while editing text.

3.7.8   Speak date and time (Edit + 9)

This function key reads the system date and time.

3.7.9   Toggle mute (Edit + 0)

This function key toggles the mute state of Mobile Speak. When "Mute" is on, Mobile Speak doesn't speak until the "Mute" is turned off again.

The mute function is especially useful when there are conflicts with Mobile Speak and another application that is playing audio. For example, when moving through the list of melodies in the Profiles application, there could be audio conflicts. It is recommended that in such situations that the user makes use of the Toggle Mute function key.

Please note that the "Mute" state is not persistent. If Mobile Speak is muted and the phone is restarted Mobile Speak will start speaking again.

The "Mute" key can serve an additional purpose while making a call. If the user has set Silent On Calls to On, Mobile Speak will not speak during the call. However, by pressing the "Mute" key combination, Mobile Speak will begin to speak while on the call. This is convenient for users who generally do not want Mobile Speak to speak while on a call, but who occasionally would like to reactivate Mobile Speak when on a particular call.

3.7.10   Battery and signal level status (Edit + Left Soft key)

This function key reads the current battery and signal levels and the network operator. The level is spoken as "bars", as it is displayed on the phone's screen (with a range of 1-7). Note that if the battery is currently charging, the battery level will speak "Charging" instead of speaking the number of bars. To check the current battery level in this case, simply disconnect the power source and read the battery level again. Once the battery has finished charging, the battery level (in Bars) will again be spoken. This function also reports the following additional information:
- Bluetooth enabled/disabled
- Infrared active/inactive
- GPRS active/inactive
- Presence of new missed calls in the call log
- Presence of unread messages in the Inbox

3.7.11   Go to the Mobile Speak configuration window (Edit + Right Soft key)

This function key automatically starts the Mobile Speak configuration screen.

3.7.12   Reading of current screen (Edit + #)

This function key reads the content of the whole screen.

3.7.13   Reading of last text which was spoken (Edit + *)

This function key repeats the last words or phrases that were spoken by Mobile Speak. Up to 5 phrases will be stored. Keep pressing (edit key + *) to loop through this list. This can be very useful when items were not heard properly and something has been spoken since then. The user can in this case press the (edit key + *) function more than one time to repeat these things, e.g. alarm information. Words that were missed due to audio conflicts may now also be repeated using (edit key + *) e.g. call summary at the end of a call.

3.7.14 Reads the current soft key assignment (Edit + Enter)

This function key reads the current assignment of the soft keys (known as button 1 and button 2).

3.7.15 Moves to Previous/Next word (Edit + Joystick Left/Right)

While editing text or reading it (for example when reading a received SMS message) these function keys allow you to easily navigate through the text word-by-word. The cursor is moved to the end of the word being spoken.

3.7.16 Moves to Previous/Next line (Edit + Joystick Up/Down)

While editing text or reading it (for example when reading a received SMS message) these function keys allow you to easily navigate through the text line-by-line. The cursor is moved to the start of the line being spoken.

3.7.17 Toggle Active MS Profile (Edit + Clear)

This function changes the currently active MS Profile. The name of the new active profile will be spoken when the active MS Profile has been changed. Note that if this also requires a change in the voice, the phone may take a couple of seconds to resume speaking, since this time is necessary to unload the old TTS and reload the new one.

3.7.18 Connect/Disconnect Braille Device (Edit + Dial Key)

If a default braille device has already been configured via the braille device manager within Configure Mobile Speak, pressing Edit + Dial will automatically reconnect to this device, or disconnect if a connection is currently active.

3.8 Mobile Magnifier Function Shortcuts

Mobile Magnifier function shortcuts operate in a similar way to those of Mobile Speak (described in the previous section). The difference is that these shortcuts are accessed by pressing and releasing the edit key two times. We refer to this as an Edit2 key press. After the Edit2 key press, you have 2 seconds to press any following function keys.

Edit2 + 0 : Toggle magnifier On/Off.
Edit2 + 2 : Focus the magnifier on the screen title.
Edit2 + 3 : Open Mobile Speak Configuration screen.
Edit2 + 4 : Toggle Border On/Off.
Edit2 + 5 : Toggle Auto Zoom On/Off.
Edit2 + 6 : Cycle through Mobile Magnifier Color Schemes (7 choices).
Edit2 + 8 : Switch focus between the left and right soft keys.
Edit2 + 9 : Toggle font smoothing On/Off.
Edit2 + up: Increase zoom level.
Edit2 + down: Decrease zoom level.
Edit2 + right: Change layout type.

There are also several useful shortcuts that are not accessed via the edit2 key. These are described here:

- Left / right / up / down pressed during 1 second: Start panning the focus area left / right / up / down.
- Left Soft Key pressed during half second: Status shortcut 1. Show battery level, network status and time.
- Right Soft Key pressed during half second: Status shortcut 2. Show inbox status, missed calls and date.

Note that, if you repeat pressing the same function key, it is not necessary to keep pressing the edit key each time (e.g. Edit2 key + up + up will increase the zoom level by 2). But you must not wait longer than 2 seconds in between pressing keys – otherwise you will have to press the edit2 key again.

Note also that several function keys are directly linked to a setting item inside Configure Mobile Speak (e.g. Border, Zoom level). In these cases, changes made using the function keys will be seen when you enter the Configure Mobile Speak application.

3.9 Web Browser

Mobile Speak works with the standard web browser application (sometimes called "Services") included with many Symbian Series 60 phones, speaking the contents of the web page and guiding you through the navigation of the links and controls on the page.

The web browser application is generally located in the main menu of the phone, although in some models (such as the Nokia N-Gage) it may be located in a separate folder, such as "Media".

To use the web browser to access the internet, you must first configure your mobile phone with an "access point". An access point is a collection of settings which are dependent both on the model of mobile phone and your network operator. For details about configuring your phone with an internet access point, consult your network operator. (NOTE: for most Nokia phones, an internet configuration wizard is also available on the Nokia website (www.nokia.com) under the Support section.)

Once the browser is configured, you may load one of the previously saved bookmarks or enter a new web address (URL). The browser application will load the page, and Mobile Speak will announce the page title and the first portion of the content. To move up and down in the page, simply use the up and down arrow keys; Mobile Speak will continue to speak the page contents as you move from navigable element to navigable element within the page. (Navigable elements within a typical web page include links, buttons, edit controls, list boxes, etc.). The normal shortcut keys, such as volume up/down, speech pitch/speed, read screen contents, etc. should work as normal within the web browser application.

Most elements within a page, such as links and buttons, can be selected using the Enter key. If an edit control is selected, pressing the Enter key will open a dialog window, allowing you to enter the text that you would like to place in the edit control.

The application menu for the web browser provides access to common functions, such as saving and opening bookmarks, getting page information, etc.

The speaking of certain items within the web browser can be controlled through the Mobile Speak verbosity level, especially the custom verbosity level. See the "custom verbosity" section above for more details.

4. Other features of the software

4.1 Caller ID

When receiving a call you can read the phone number of the incoming call by pressing the right soft key, known as button 2.

Note that the following limitations apply to the Caller-Id function:

Caller-Id doesn't work if the current profile is Silent (the call will be rejected if you press the right soft key)
Caller-Id doesn't work if the current Ringing Type is set to either "Silent" or "Beep Once".

You can personalise profiles by using to the "Profiles" application in the phone's menu. Please check your device manual for more information.

4.2 Silence Button

The silence button is used to stop the current text that Mobile Speak is speaking. To use the silence button press the Edit Key for one second and then release it.

4.3 Bluetooth Headset

In order for Mobile Speak to work through a Bluetooth Hands-free Headset the setting "Ear phone" must be selected from the Audio Profile section of the currently active MS Profile of Mobile Speak.

5. Tools Package (Not Applicable to Symbian 9)

Mobile Speak is a software package that contains different free bundled software: Code Factory's accessible calculator, Code Factory's accessible sound recorder, a minesweeper game, FExplorer file browser software and an MP3 Player.

5.1 Accessible calculator:

In order to access the calculator, select the calculator in the phone's main menu. You can introduce the numbers by using the telephone keyboard. The Hash key stands for the decimal separator. Left and Right menu key allow you to store and restore numbers. With the star key you can move between plus, minus, divided by, times, square root, to the power of and percent operations.

With the Edit Key you select positive and negative (+/-) and with the delete key you can delete the numbers on the screen. To compute an operation the action key must be pressed.

To exit the calculator, press the left joystick key.

5.2 Sound recorder:

When opening the sound recorder you will find two options. The first one is "New". With this option you make a new recording. Just select "New" and the recording will automatically

start. After finishing the recording, the program offers you the options New, Open, Play and Save. If you decide to save the file you will have to enter a file name.

The second option when you open the sound recorder is "Open". If you select that option you can open files previously recorded. By selecting a file and pressing the delete key you can remove a file.

To exit the sound recorder press the left joystick key.

5.3 Minesweeper game

To start the minesweeper game, select Mines in the main menu and press the action key.

Description:
Typical game where the player must find all the mines placed within the game area.

In the start page menu you can select between three different levels:
Easy: 7 x 7 .... 5 mines
Medium: 10 x 10 .... 10 mines
Expert: 12 x 12 .... 15 mines
If you press the left soft key you will start the game; if you press the right soft key you will exit the game.
To navigate, use the joystick of the phone. Each time you go to a square, the parameters are announced. To uncover a square, press the joystick. Once a square is uncovered it will tell you if there is a mine, if the square is empty (a beep will sound) or the number of adjacent squares which contain a mine. Once you trap all mines by deactivating (marking) them with the left soft key the game is over. To unmark a square, use the left soft key again. To gain the main menu, press the right soft key.

5.4 FExplorer

FExplorer is a utility for browsing the directories of your phone, so that you can easily find files. The software is very easy to use: the left menu key is used for Options, the right one to exit the program. You can move up and down the list with the joystick. To move up one folder level press the left menu key; to enter a folder press the action key or move the joystick to the right. You can also use FExplorer for various other functions, such as transferring files via Bluetooth or Infrared, or for viewing a list of currently running processes on the phone.

5.5 MP3 Player Software

Pushing the action key to the right and to the left you can switch between Song Mode and List Mode. To load a song from your inbox into the MP3 Player, open it and change to list mode. The list mode will then show you the loaded song. Pushing the action key when in list mode plays the song.
To pause the song, press the right menu key when the song is playing.

Volume: To increase the volume push the action key up; to decrease the volume push the action key down.

To move (forward) in a song press the edit key and move the action key to the right or the left.

Options: Press the left menu key for options. In options you can switch directly to the next song.

From Settings you can chose which songs are shown in the list (all songs, selected songs). You can also specify whether after finishing a song the MP3 Player should stop, play the next song, or play a random song.

You can choose as well if a song should be repeated, whether to use a Bluetooth headset, etc.

To exit the MP3 Player Software press the menu key.

6. Description of Supported Mobile Phones

6.1 Symbian 6 / 7 / 8 phones:

6.1.1 Nokia 3230:

The 3230 has a simple rectangular layout that makes it easy to navigate. The power key is located on the top of the phone, in a recessed groove. The joystick is located in the centre of the phone, just beneath the screen. The function keys are all grouped around the joystick, with the menu key on the leftmost side (and larger than the rest), followed by the left soft key and the dial key, one on top of the other and just to the left of the joystick. Just to the right of the joystick are the right soft key and the hang up key, with one on top of the other. Finally, on the rightmost side are the clear key and the edit key, also arranged with one above the other. The numeric keypad is a standard layout with raised keys and a tactile marker on the 5 key.

6.1.2 Nokia 3650:

On the top of the 3650 there is the power key. Below the screen there are the left and right soft keys. The keypad of the 3650 is built in a circle: 1 is on the top left, 9 on the top right. On the top left of one there are the dial and the edit keys, on the right there are the hang up and the delete keys. In the middle of the circle on top there is the cursor key. On the lower left there is the *(+) key, and on the right the # key. Below this is the menu key.

6.1.3 Nokia 6260

On the upper part of the phone, below the display on the left you will find the left soft key button on the right you will find the right soft key. Below there is the edit key and in the middle between the edit and the left soft key there is the menu key. On the right there is the c key. In the middle of all there is the action key. Above the display there is the switch off key.

On the lower part of the phone there are the numeric keys from 1 to 9. In the last row on the left there is the * key, in the middle 0 and on the right the # key.

6.1.4 Nokia 6600:

Below the display on the left there is the left soft key. In the middle you can find the cursor key, and on the right the right soft key. Below are the numbers from 1 to 9. In the line

below on the left there is the *(+) key, in the middle 0 and on the right the # key. On the left of the keyboard there is the dial key. Below this is the menu key and further below it, the edit key. On the right of the keyboard there is the hang up key. Below it is the right soft key and further below it, the delete (c) key.

6.1.5   Nokia 6630

Below the display on the left there is the left soft key button. In the middle there is the action key and on the right there is the right soft key button. Below there are the numeric keys from 1 to 9, in the last row there is the * key, 0 and the # key.

On the side of the phone on the left there is the dial key and below there is the menu key. On the right side there is the hang up key, the delete key c and the edit key.

6.1.6   Nokia 6670

Below the display on the left there is the left soft key button. In the middle there is the action key and on the right there is the right soft key button. Below there are the numeric keys from 1 to 9, in the last row there is the * key, 0 and the # key.

On the side of the phone on the left there is the dial key and below there is the menu key. On the right side there is the hang up key, the delete key c and the edit key.

6.1.7   Nokia 6680/6681/6682

The 6680, 6681, and 6682 are almost identical in design, with the main difference being the additional camera on the front of the 6680. Both models have the power switch on the right edge of the phone, just above a small door which provides easy access to the memory card.

The keyboard layout is fairly standard, with raised keys in a slightly curving layout. The joystick is a circular pad underneath the screen, with the left and right soft keys to either side of it, and the numeric keypad underneath. The remaining function keys are arranged vertically down the sides of the numeric keypad; the dial and menu keys are stacked along the left side, while the hang up, clear and edit keys are on the right side. The clear and edit keys are roughly half the size of the rest of the special keys.

6.1.8   Nokia 7610

Below of the screen there are the left and right soft keys known as button 1 and button 2 respectively. On the left of the left soft key there is the dial button and on the right of the right soft key there is the hang up button. Below the dial key there is the edit key and below the right soft key there is the delete (c) key. Below the left key there is the menu button. In the middle there is the cursor with the action key. Below of the action key there is the first number key, number one, to its right number two and then number three. Below the one there is the four, to the right five and then six. Below- left of button four there is the seven key, then the eight next to it and then the nine. Below left of seven there is the asterisk key, to the right of it 0 and then the hash key.

6.1.9   Nokia 7650:

The 7650 is built in an easy-to-use way. On the top right part of the phone there is the power key to switch the phone on and off. Below the screen you can find the left and right

soft keys. Below these two buttons there is the cursor (joystick). On the left of the cursor key is the menu key.

On the lower part of the phone (the part that can be extended) the first key on the left is the edit (ABC) key. In the middle there is the call key. The left part is for calling, the right for hanging up. The right key is the key for deleting (C key). Below there are the numbers from 1 to 9 (For writing SMS messages: 2=abc, 3= def, 4=ghi, 5=jkl, 6=mno, 7=pqrs, 8=tuv, 9=wxyz). In the last row there are the * (+) key, 0 and the # key.

6.1.10   Nokia N70 / N72:

The N70 and N72 are candybar-shaped phones with a rectangular layout. The power button is located on the top of the phone, and is a small recessed button. Directly under the screen is a rectangular directional pad/joystick. On the left hand side of the joystick are the left soft key (above) and the dial key (below); on the right hand side are the right soft key (above) and the hangup key (below). The numeric keys are located in a rectangular block directly below the joystick, with two tall, thin buttons on each side. The thin buttons on the left hand side are the menu key (top) and the edit key (bottom); on the right hand side are a user-defined "multimedia" key (top) and the clear key (bottom).

6.1.11   Nokia N90:

The N90 is a flip phone with a twistable top portion designed for photos and video. The power switch is located on the top of the phone when closed, on one of the sections which swivels when open. It has two separate joysticks: one on the front of the lower section of the phone, just above the numeric keypad, and another on the right-hand side at approximately the same latitude. Likewise there are two sets of soft keys: one on either side of the joystick, and one on the top of the display, which is used primarily when the display is twisted into photo/video mode. To the left of the front joystick are the left soft key and the dial key (above and below); to the right are the right soft key and the hangup key (above and below). The edit button is located to the bottom left of the joystick, under the dial key, and the clear key is located to the bottom right, underneath the hangup key. The menu key is located between them, directly under the joystick. The numeric keypad is in the standard layout, located below the special keys on the lower part of the phone.

6.1.12   Nokia N Gage:

On the top left of the screen there is the dial key. Below this is the cursor, and further below this are the melody, radio and the menu keys. Below them are the delete (C) key and the left soft key.

On the top right side of the screen there is the hang up button. Below it there are the keyboard numbers from 1 to 9. Below this are the *, the 0 and the # keys. Below there are the right soft key and the edit key.

6.1.13   Panasonic X700

The X700 is a flip phone, with the screen in the top half of the phone and all keys in the bottom half. The power button is a small button at the bottom right of the phone, just opposite from a special key at the bottom left which can be used to launch internet applications.

The joystick is a circular disc at the top of the lower half of the phone, with the enter button in the centre. The left and right soft keys are located above the joystick to the left and right, while the edit and clear keys are located below and to the left and right, respectively. Below this group of keys is a horizontal band of three buttons: the dial, menu and hang up keys. The numeric keypad is slightly raised, and has a mostly rectangular layout, tapering slightly narrower toward the bottom.

Access to the memory card on the X700 is through a small removable door at the top of the phone.

6.1.14   Samsung SGH-D720

The D720 is a "slider"-type phone, with the numeric keypad sliding out from beneath the rest of the phone. The power button on the D720 is shared with the hang up key, located at the bottom right of the upper portion of the phone.

The joystick is located in the centre, just below the screen on the upper portion of the phone. The clear key is small and located in the centre, just below the joystick. The remainder of the function keys are lined up symmetrically along the sides of the joystick; from top to bottom on the left side are the left soft key, edit key and dial key, while on the right are the right soft key, menu key, and hang up key.

The numeric keypad is a standard layout with non-raised keys. Each key does have a slight ridge to help locate it, and the 5 key does have tactile indicators.

On each side of the phone are two additional special keys for functions such as volume and launching specific applications.

6.1.15   Siemens SX1

On the left of the screen you can find the keys 1-5. Below the five is the star key. On the right of the screen are the number keys 6-9, 0 and below the hash key.

Below the screen there are the left and right soft keys. In the middle there is the cursor key and below the menu key. Below, on the left, there are the dial and the hang up key. Below that you can find the edit and the delete key.

6.2   Symbian 9 phones:

6.2.1   Nokia 3250:

The 3250 is designed specifically for playing music. By twisting the bottom part of the phone 90 degrees to either the left or to the right, the phone's camera is activated (note that the camera lens is located on the lower left side of the phone). By twisting the bottom part of the phone 180 degrees, the music player is activated and the four buttons (rewind, play, stop and fast forward from left to right) can be used to control the music player. The power key is located on the top of the phone. The joystick is located in the centre of the phone, just beneath the screen. The function keys are all grouped around the joystick, with the menu key on the leftmost side, followed by the left soft key and the dial key, one on top of the other and just to the left of the joystick. Just to the right of the joystick are the right soft key and the hang up key, with one on top of the other. Finally, on the rightmost side are the clear key and the edit key, also arranged with one above the other. The numeric keypad is a standard layout with raised keys and a tactile marker on the 5 key.

6.2.2   Nokia 5500 Sport:

The 5500 is a light and compact phone with a textured keypad. The power key is located on the top of the phone, and has a textured notch. The joystick is located in the centre of the phone, just beneath the screen. The function keys are all grouped around the joystick. On the left side of the joystick, just below the screen is the left soft key. The dial key is directly below this, and sticks out slightly from its surrounding keys, while the menu key is directly below. On the right side of the joystick, just below the screen is the right soft key. The hang up key is directly below this, and sticks out slightly from its surrounding keys, while the clear key is directly below. The edit key is located on the lower right side of the phone. The numeric keypad is a standard layout with raised keys and a tactile marker on the 5 key. The camera lens is located on the back of the phone.

6.2.3   Nokia E50:

The E50 is the smallest and lightest of the E series phones. The power key is located on the top right of the phone, and has a textured notch. The joystick is located in the centre of the phone, just beneath the screen. The function keys are all grouped around the joystick. On the left side of the joystick, just below the screen is the left soft key. The menu key is to the lower right of the left soft key, and is a smaller key. The dial key is directly below. On the right side of the joystick, just below the screen is the right soft key. The clear key is to the lower left of the left soft key, and is a smaller key, while the hang up key is directly below. The edit key is located on the right side of the phone, beside the screen. The numeric keypad is a standard layout with raised keys and a tactile marker on the 5 key. The camera lens is located on the back of the phone.

6.2.4   Nokia E60:

The E60 is a compact E series phone with a candy-bar shape. The power key is located on the top of the phone. The joystick is located in the centre of the phone, just beneath the screen. The function keys are all grouped around the joystick. On the left side of the joystick, just below the screen is the left soft key. The dial key is directly below, and the edit key is below it. On the right side of the joystick, just below the screen is the right soft key, while the hang up key is directly below, and then the clear key. The menu key is located directly below the joystick. The numeric keypad is a standard layout with raised keys and a tactile marker on the 5 key.

6.2.5   Nokia E61 / E61i / E62:

These phones are in the style of a blackberry, with a full QWERTY keyboard. The power key is located on the upper right corner of the phone. The joystick is located in the centre of the phone, just beneath the screen. The function keys are all grouped around the joystick. On the far left side of the joystick, just below the screen is the left soft key. The dial key is directly below it, while the menu key is located to their right, in between these two keys and the joystick. On the far right side of the joystick, just below the screen is the right soft key. The hang up key is directly below it, while the mail key is located to their left, in between these two keys and the joystick. Below all these keys there is an array of keys grouped into 4 rows and 10 columns. These keys have a standard QWERTY layout. The top three rows contain the alphabetic characters, with the numeric keys being the central 4 keys in each of these rows. The clear key is the rightmost key on the second row. There are two edit keys – one is the second key from the left on the bottom row, and the other is the second key from the right on the bottom row. The larger key in the centre of the bottom row is the space bar.

The bottom left key changed input modes, while the bottom right key brings up the symbol table when inside an editor. The E61i has a camera on the back of the phone, and also has extra hotkeys to access mail and multimedia, on the left and right of the joystick respectively.

6.2.6   Nokia E65:

The E65 is a compact slider phone. The power key is located on the top right of the phone. The joystick is located in the centre of the phone, just beneath the screen. Immediately to the left and right of the joystick are four hotkey buttons (two each side) which give access to the phonebook and multimedia applications. Surrounding all these keys is a thin, circular group of keys with the following functions: On the top-left side, just below the screen is the left soft key, while the right soft key is located on the top-right side. On the left side and below the left soft key is the send key, while on the right side and below the right soft key is the hang up key. Below the joystick and to the left is the menu key, and to its right if the clear key. The numeric keypad is found by sliding out the lower part of the phone. It is a standard layout with raised keys and a tactile marker on the 5 key. The camera lens is located on the back of the phone.

6.2.7   Nokia E70:

The E70 has a movable keyboard which allows it to operate in two modes. When closed, it acts as a standard phone keypad. However when opened up, it transforms into a full QWERTY keyboard, with half of the characters to the left of the screen and half to the right. The power key is located on the upper right side of the phone, just above the screen. The camera is located on the back of the phone.

6.2.8   Nokia N71:

The N71 is a flip phone. The power key is located on the top of the phone. The joystick is located in the centre of the phone, just beneath the screen. On the left side of the joystick, just below the screen is the left soft key. The dial key is directly below. On the right side of the joystick, just below the screen is the right soft key, while the hang up key is directly below. Below these keys are 3 horizontal keys which are, from left to right, the edit key, the menu key and the clear key. The numeric keypad is a standard layout with raised keys and a tactile marker on the 5 key.

6.2.9   Nokia N73:

The N73 is a compact phone with a candy-bar shape. The power key is located on the top of the phone. The joystick is located in the centre of the phone, just beneath the screen. On the left side of the joystick, just below the screen is the left soft key. The dial key is directly below. On the right side of the joystick, just below the screen is the right soft key, while the hang up key is directly below. To the left of the left soft key is the tall and narrow menu key, and below it is the edit key. Two symmetrically opposite keys exist on the right side: the multimedia key and below it the clear key. The numeric keypad is a standard layout with raised keys and a tactile marker on the 5 key.

6.2.10   Nokia N75:

The N75 is a compact flip phone. The power key is located on the top of the phone. On the outside front cover there are 3 keys for playing music (rewind, play and fast forward). The joystick is located in the centre of the phone, just beneath the screen. Immediately to the

left of the joystick is the menu key, and immediately to the right is the multimedia key. Surrounding all these keys is a thin, circular group of keys with the following functions: On the top-left side, just below the screen is the left soft key, while the right soft key is located on the top-right side. On the left side and below the left soft key is the send key, while on the right side and below the right soft key is the hang up key. Below the joystick and to the left is the edit key, and to its right if the clear key. The numeric keypad has large keys and is a standard layout with raised keys and a tactile marker on the 5 key.

6.2.11   Nokia N80:

The N80 is a slider phone. The power key is located on the top of the phone. The joystick is located in the centre of the phone, just beneath the screen. On the left side of the joystick, just below the screen is the left soft key. The dial key is directly below. On the right side of the joystick, just below the screen is the right soft key, while the hang up key is directly below. Below these keys are 4 horizontal keys which are, from left to right, the edit key, the menu key, the multimedia key and the clear key. The numeric keypad is found by sliding out the lower part of the phone. It is a standard layout with raised keys and a tactile marker on the 5 key.

6.2.12   Nokia N91:

The N91 is slider-phone designed for playing music. The power key is located on the top left of the phone, and the keyboard lock key is a slider switch located to its right. When closed, the slider is a music controller, with play, stop, rewind and fast forward keys. The joystick is located in the centre of the phone, just beneath the screen. On the left side of the joystick, just below the screen is the left soft key. The dial key is directly below. On the right side of the joystick, just below the screen is the right soft key, while the hang up key is directly below. By opening the slider, the other phone keys are revealed. The numeric keypad is a standard layout with raised keys and a tactile marker on the 5 key. The edit key is located to the left of the 1 and 4 keys, and the clear key is located to the right of the 3 and 6 keys. The menu key is located on the right side of the phone, beside the screen.

6.2.13   Nokia N92:

The N92 is a flip phone with a twistable top portion designed for photos and video. The power switch is located on the top of the phone when closed, on one of the sections which swivels when open. The joystick is located in the centre of the phone, just beneath the screen. Immediately surrounding the joystick are the keys for controlling music and video (play, stop, rewind and fast forward), positioned in a circular formation. To the top left and top right of these keys are the left and right soft keys respectively, while to the bottom left and bottom right are the dial key and hang up key. To the lower right of the dial key is the menu key, while to the lower left of the hang up key is the clear key. The numeric keypad is located below these, with raised keys and a tactile marker on the 5 key. Keys 1-9 are standard, but on the bottom row there are 4 keys: the leftmost one is used as the left soft key when the screen is twisted, while the other keys are the standard *, 0 and # keys. When the screen is twisted, the keys 1-9 change to match the phone's new orientation, while the left and right soft keys also change position to be located below the newly positioned screen.

6.2.14   Nokia N93:

The N93 is a flip phone with a twistable top portion designed for photos and video. The power switch is located on the top of the phone when closed, on one of the sections which swivels when open. The joystick is located in the centre of the phone, just beneath the

screen. The function keys are all grouped around the joystick. On the left side of the joystick, just below the screen is the left soft key. The dial key is directly below. On the right side of the joystick, just below the screen is the right soft key, while the hang up key is directly below. Below these keys are 4 horizontal keys which are, from left to right, the edit key, the menu key, the multimedia key and the clear key. The numeric keypad is a standard layout with raised keys and a tactile marker on the 5 key.

6.2.15 Nokia N93i:

The N93i is similar in appearance to the N93. It is a flip phone with a twistable top portion designed for photos and video. The power switch is located on the top of the phone when closed, on one of the sections which swivels when open. The joystick is located in the centre of the phone, just beneath the screen. The function keys are all grouped around the joystick, in a U shape. On the left side of the joystick, just below the screen is the left soft key. The menu key is below it, and the dial key is directly below. On the upper right side of the joystick is the right soft key, while the multimedia key below it and the hang up key further below. In between the dial key and the hang up key are two keys: the edit key and, to its right, the clear key. The numeric keypad is a standard layout with a tactile marker on the 5 key.

7. User License Agreement

If a user wants to test the software he/she should ask for a trial license. Under no circumstances will the purchase price of licenses be returned.

Each licence granted allows you only 1 installation. If you want to install Mobile Speak in several devices, you must purchase a quantity of licences equal to the number of cell phones you have.

The user declares that he/she has read the content of the web page www.codefactory.es and, therefore, has knowledge of the features of the software. He declares that he/she has read the user manual before using the software and, consequently, knows how to use it.

8. Legal Information

8.1 Emergency Calls

Mobile Speak operates using radio signals, wireless, and landline networks as well as user-programmed functions. Because of this, connections in all conditions cannot be guaranteed. Therefore you should never rely solely upon any wireless phone for essential communications (for example, medical emergencies).

Emergency calls may not be possible on all wireless phone networks or when certain network services and/or phone features are in use. Check with local service providers.

To make an emergency call:

1. If the phone is not on, switch it on. Check for adequate signal strength. Some networks may require that a valid SIM card is properly inserted in the phone.

2. Press the Hang Up Key as many times as needed (for example, to exit a call, to exit a menu, etc.) to clear the display and ready the phone for calls.

3. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.

4. Press the Dial Key.

If certain features are in use, you may first need to turn those features off before you can make an emergency call. Consult this user guide and your local cellular service provider.

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your wireless phone may be the only means of communication at the scene of an accident – do not end the call until given permission to do so.

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