

## 8.3 Using Tasks

A task is a personal or work-related project, assignment, or errand to track through to completion. A task can occur once, or it can recur. A recurring task can repeat at regular intervals or repeat based on the date you mark the task complete. For example, you might want to pay a bill on the last Friday of every month, or get a haircut when one month has passed since your last haircut.

### The task list

The task list is your "things to do" list. When you create or edit tasks with Outlook on your PC and then synchronize with your phone, additional task information may display.

A task that has been marked as high priority is preceded by an exclamation mark, and one marked as low priority by a downward-pointing arrow. On color devices, overdue tasks are displayed bold and red.

Note that if you synchronize tasks with your PC, completed tasks are removed from your phone during synchronization. They are then displayed in gray with a strikethrough on your PC.

### To create a new task:

- Select **Tasks** from the Start Menu. “Enter new task here” is displayed. Press the Up navigational button to move the focus to that field, then enter the task name and press the **Action** button.

### To mark a task as Complete:

- Select **Tasks** from the Start Menu. Select the desired task in the list (one whose checkbox is not checked) and then press the Left Softkey (“Complete”).

### To change a completed task to Incomplete:

- Select **Tasks** from the Start Menu. Select the desired task in the list (one that has already been marked as Complete with a checked checkbox) and then press the Left Softkey (“Activate”).

### To delete a task from the task list:

- Select **Tasks** from the Start Menu. Select the desired task in the list and then select **Delete** from the menu.

## 8.4 Using Voice Notes

You can use Voice Notes to create and play short voice recordings. Voice Notes are included in the All Notes list and are named consecutively (Recording1, Recording2, and so on).

### To create a voice note:

1. Select **Voice Notes** from the Start menu. The *All Notes* screen displays.
2. Press the Left Softkey (“Record”), or select **Record** from the menu. Right after you do this, the recording process begins, so be ready to start speaking into the phone microphone immediately. A counter displays the number of seconds elapsed during recording.
3. Press the Left Softkey (“Stop”) to stop recording a voice note. The voice note is saved (to **\Storage\My Documents\Notes**), and appears in the *All Notes* list of Voice Notes. By default, the first recording is named Recording1.

### To rename, play, or delete a voice note:

- Select the desired Voice Note file, then select either **Rename**, **Play**, or **Delete** from the menu.

If you delete a voice note that has a default name, such as Recording1, this name becomes available for a new voice note that you create.

### NOTES:

- Voice Note files will be shown as thumbnails in the Album (Camera Wizard) application, and you can play them as you would any other audio file while in Album mode.
- You can also record a new voice note using the Album application. While in Thumbnail View mode, select **New > Voice Note** from the menu.

## 8.5 Using Windows Media Player

Using Windows Media Player 7.0 or later, you can play Windows Media audio and video files and MP3 audio files on your phone. You can also copy digital music and video directly from your PC to your phone by using either Windows Media Player or Microsoft ActiveSync. For more information about copying files using Windows Media Player, see Media Player Help on your PC. For more information about copying files using ActiveSync, see ActiveSync Help on your PC.

### Invoking Media Player and playing a file

When in the Home screen, open the Start menu and select **Windows Media**. The initial Media Player screen will display a Playlist. The figure below lists some sample MP3 audio files.



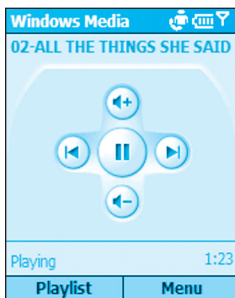
By default, files of the supported filetypes residing locally in the phone are listed. Select the file you want to play, then press the Action button or the Left Softkey (“Play”). Or, open the menu to display a “Favorites” list, open a URL, view data about the selected file, customize settings, or delete the file (see table on next page).

When playback of an audio or video file is in progress, the menu contains the following options:

Option	Function
<b>Play/Pause</b>	Play or pause playback of the current file.
<b>Next</b>	Skip to the next file in the current play list and start playing it. This command is not available if the last file is the current selection.
<b>Previous</b>	Skip to the previous file in the play list. If a file is currently being played, it will start re-playing from the beginning.
<b>Full Screen</b>	If the file currently being played is a video file, this option utilizes the entire phone screen to display the video. This command is not available during audio file playback.
<b>Open URL</b>	Play a streaming media file on a network (for example, content streamed from an Internet radio station.)
<b>Properties</b>	Displays information about the selected file, such as file name, duration, location, bit rate, and audio codec.
<b>Settings</b>	Opens the Settings screen, in which you can adjust the volume and specify various playback options.
<b>Add to Favorites</b>	Adds the file that is playing to your Favorites playlist.

Selecting **Settings** on the menu opens a screen that lets you:

- Adjust the volume. Press the **Right** navigational button to increase the volume, up to a maximum of 10. Press the **Left** button to decrease volume; 0 is silent.
- Specify whether or not to utilize the full phone screen during playback of video files using Media Player.
- Select **Repeat** if you want Media Player to automatically repeat playback of a file as soon as it finishes playing.
- Select **Shuffle** if you want Media Player to randomly select the next file to play from the current playlist.
- Select **Background Play** if you want files to continue playing while you use another program.



As shown in the figure above, the amount of time elapsed during playback is displayed. In this screen, you can press the **Up** navigational button to increase volume, or press the **Down** to decrease volume. Press the **Right** navigational button to start playing the next sequential file, or press **Left** to play the previous file. Press the **Action** button to **Pause** or **Play**.

To play a streaming media file on a network, open the menu in the Windows Media Player screen, then select **Open URL**. In the Open URL screen, enter the desired Web page address. Press the Left Softkey (“Play”) to play.

To add a streaming media file to Favorites, simply open the menu while it is playing, and select **Add to Favorites**.

To access your Favorites list, select **Favorites** from the menu in the Media Player window. To delete a file from Favorites, select the file and then select **Delete** from the menu. To play a file, select **Play**.

## Supported file formats

Windows Media Player supports the MP3 (.mp3) file format, as well as Windows Media files with the following extensions: **.asf, .asx, .wax, .wm, .wma, .wmv, .wmx, .wvx**.

## Supported audio and video codecs

Media Player can play files that have been compressed by using any of the following audio and video codecs.

### 1 Audio codecs:

- a. Microsoft Windows Media Audio codec version 2.0, 7.0, 8.0, and 9.0.
- b. Fraunhofer IIS-A MPEG-1 Audio Layer-3 codec.

### 2 Video codecs:

- a. Microsoft Windows Media Video codec version 7.0, 8.0, and 9.0.
- b. Microsoft MPEG-4 video codec version 3.0.
- c. ISO MPEG-4 video codec version 1.0.

## Understanding licenses

Some digital media content from the Internet, CD tracks, and videos have associated licenses that protect them from being unlawfully distributed or shared.

Licenses are managed and created using digital rights management (DRM), which is the technology for securing content and managing the rights for its access. Some licenses prevent you from playing content that is copied to your phone.

To ensure that the license is copied with the content, use the **Portable Device** (or **Copy to CD or Device**) feature in Windows Media Player 7.0 or later on your PC to copy content to your phone. For more information about copying content to your phone and other portable devices, see the Windows Media Player Help on your PC.



## 8.6 Using Calculator

Calculator performs basic arithmetic, such as addition, subtraction, multiplication, and division.

### To perform a calculation:

1. When in the Home screen, select **Accessories** from the Start menu.
2. Select **Calculator**.
3. Enter the first number of the formula using the keypad.
4. Press the Right Softkey ("Options"). From the menu select the type of calculation to perform: **Add**, **Subtract**, **Multiply**, **Divide**, or **Decimal Point**.

### NOTES:

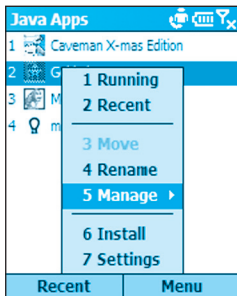
- A decimal point can also be inserted conveniently by pressing the asterisk (\*) key on your keypad.
  - In addition, you can scroll through the available mathematical symbols by pressing the # key until the symbol you want is displayed (instead of selecting from the menu).
  - Or, you can use the navigation pad to select a mathematical symbol as follows: Press the Up button for the plus sign (+); Down for the minus sign (-); Left for the division sign (/); and Right for the multiplication sign (X).
5. Enter the second number of the formula using the keypad.
  6. Open the **Options** menu again and select **Equals**, or press the Action button.

**To clear a displayed number or calculation**, press the **Left** softkey ("Clear").

**To clear the last digit entered**, press your phone's **Back** button.

## 8.7 Using Java MIDlet Manager

Your phone supports Java 2 Edition, J2ME. The Java MIDlet Manager (JMM) allows you to download Java applications such as games and tools specifically designed for mobile phones. You will find that some Java applications and games may have already been installed on your phone. When you select MIDlet Manager from the Start menu in the Home screen, a screen similar to the example shown below will appear. This figure also shows the main menu.



The Java MIDlet Manager gives you the flexibility of installing and managing additional J2ME applications from the Internet.

## Downloading Java games and utilities

To install, run, and manage MIDlet programs (MIDlets) on your phone, you have to first download the MIDlet directly to your device from your desktop or notebook PC.

### To download and install MIDlets directly from the Internet:

1. Connect to the Internet and select a MIDlet you wish to download. (Download both the **.jad** file and related **.jar** file.)
2. Confirm that you wish to download the relevant files before the download begins. Once the download is complete, the Java MIDlet Manager automatically starts and prompts you to install your new MIDlet.

### To download MIDlets from the Internet on your PC:

1. Make sure that your phone is synchronized to your PC. Using your Internet Explorer, go to **www.midlet.org** or any site that provides MIDlets for download.
2. Choose the game or utility you want to install, download it, and save it to your hard drive.
3. Click on the file and move it to your phone, to Mobile Device\phone\Storage\My Documents.

### To install MIDlets on your phone from your PC:

1. Click on **Install** in the **MIDlet Manager** menu.
2. Choose a MIDlet available from the Install screen. Select a MIDlet by moving up/down using the navigation pad, or by pressing the related number on the keypad.

## Uninstalling and re-installing MIDlets

### To Uninstall

In the *Java Apps* screen (an example was shown in the previous figure), use the navigation pad to highlight the MIDlet you want to uninstall, then select **Manage** from the menu. Select **Uninstall** from the Manage submenu. You will be asked to confirm your selection.

### To Re-install:

In the *Java Apps* screen, select **Install** from the menu to access the *Install* screen. Use the navigation pad to highlight the MIDlet you want to re-install, then select **Install** from the menu in the *Install* screen.

## Running MIDlets

To run a MIDlet, go to the **Java Apps** screen and select the required MIDlet using the navigation pad or the related number on the keypad. Consult the content provider on how to use the game or utility you have installed. Some MIDlets have an Exit or Stop command within their menu structure. The content providers determine the location of this command.

## Other menus and commands

Some of the other functions available include:

### Settings

Select **Settings** from the menu to access these options:

**Display Options** — Allows you to adapt the way the MIDlet manager displays information. **Sort Options** allows you to choose whether you view your MIDlets in groups or as a list. **View Options** allows you to determine how lists of MIDlets are ordered.

**System Info** — Displays information about the total storage space for MIDlets, the amount currently used and the amount currently available.

**About Java MIDlet Manager** — Displays version information.

**Choose Network Type** — Opens the *Select Service* screen and enables you to choose your connection.

### Rename

Select the MIDlet you want to rename, then enter the new name for that MIDlet in the dialog box.

### Running

Lists the MIDlet(s) currently running on your phone.

### Recent

Lists the most recently run MIDlets (maximum of nine can be listed).

### Move

Lets you move the selected item into a different group.

**Manage > Upgrade**

You may be able to upgrade certain MIDlets using a network connection. The availability of this feature is determined by MIDlet manufacturers/distributors and their licensing arrangements. You must be connected to an appropriate network for this feature to be available, for example a corporate intranet or the Internet.

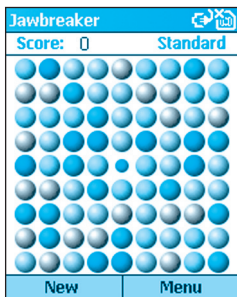
**Manage > Uninstall**

Deletes the selected MIDlet from your phone's memory. Ensure that the MIDlet you want to select is not running. Also note that you cannot uninstall a MIDlet individually from a MIDlet suite. You must uninstall the complete MIDlet suite.

## 8.8 Games

### Jawbreaker

The object of Jawbreaker is to clear out all the balls. The rule is that you may only clear out adjacent same-colored balls. The score depends on the number of the balls you clear out at every move.



**To start a game of Jawbreaker**, select **Games** from the Start menu, then select **Jawbreaker**. To start a new game, press the Left Softkey, or select **New Game** from the menu. The menu also lets you view **Statistics** or set **Options**.

**To score**, navigate to the ball you want to clear and press the Action button.

Score equation:  $S = B * (B-1)$

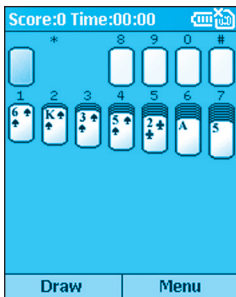
S: Score per move

B: Number of balls you clear out

For example, you score 30 points for clearing out 6 balls at one move.

## Solitaire

The object of Solitaire is to use all the cards in the deck to build up the four suit stacks in ascending order, beginning with the aces. You win the game when all cards are on the suit stacks.



**To start a game of Solitaire**, select **Games** from the Start menu, then select **Solitaire**. To start a new game, select **New Game** from the menu.

### To play Solitaire:

- Move any aces on the seven stacks to the four card spaces at the top of the screen, and then make any other available plays.
- When you have made all available plays, press the **Draw** soft key to turn over cards.

The card that is face up on the deck is always available for play.



**To move cards:**

A number or character is displayed above each card stack. On the keypad, press the number or character of the card to move, and then press the number or character of the stack to which you want to move the card.

Pressing the Up navigational button moves a card to one of the four stacks in the upper right corner of the screen if it belongs there. For example, if an ace appears in one of the lower stacks, press the number above it, and then press the Up navigational button.

# Chapter 9

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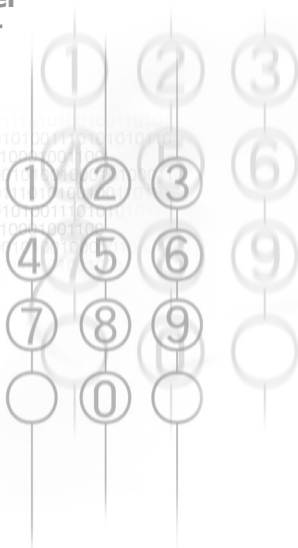
## Maintaining Your Phone

**9.1 Adding and removing programs**

**9.2 File Manager**

**9.3 Task Manager**

**9.4 Space Maker**



## 9.1 Adding and removing programs

You can use **Add/Remove Programs** on the Tools Menu of Microsoft ActiveSync to add and remove programs. If you are connected via ActiveSync (see Chapter 7), and the program you want to install has an installer file that can be executed from the PC, installation will be performed automatically when you invoke the Installer file on your PC.

If the program installation is done via a CAB file, copy the CAB file to the \Storage\My Documents folder of your phone. Then select it in File Manager (explained on the next page) and press the Action button; it will then install automatically.

If you do install additional programs into your phone, and then want to remove one or more of those programs, another way to do so (besides Add/Remove Programs in ActiveSync) is to select **Settings** from the Start Menu, and then **Remove Programs**. All of the programs you've installed yourself will be listed in the *Remove Programs* screen. Select the program you want to delete, then press the Right Softkey to open the menu and select **Remove**.

**NOTE:** When you use the **Clear Storage** utility to reset all of your phone settings back to the manufacturer default values, this will also erase all of your data.

## 9.2 File Manager

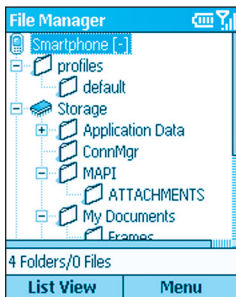
**File Manager** provides many easy-to-use features for file and folder management. It operates in either of two major views, with a separate menu of commands for each view.

**Tree View** displays the entire file structure in the phone's memory. The functions in Tree View primarily focus on folder management.

**List View** displays the details of the selected folder (its sub-folders and files). The functions in List View are basically file-oriented.

### Tree view

When initially invoked, File Manager is in Tree View by default. An example is illustrated below.



## Menu Commands in Tree View

### Folder

Selecting **Folder** opens a submenu that lets you create a **New Folder** which will be a subfolder under the current folder; or **Rename**, **Copy**, or **Move** the currently selected folder.

### Find

This command lets you search for files according to filename and/or text content. First select the folder where you want the search to be executed, then select **Find**. The Find screen will open. In it, enter part or all of a filename (if you wish to search by name), and/or enter a text string (if you wish to search for all files containing that string). You can also specify the folder to be searched. If any matches are found, the Find Result screen will open.

### Go To

Allows you to switch to other folders conveniently. Shortcut: press **G** (the 4 key on the phone keypad) when the menu is not open.

### Delete

Allows you to delete an entire folder and all of its contents. Shortcut: press **D** (the 3 key on the phone keypad) when the menu is not open. To delete individual files, use **Delete** on the menu when in List View.

### Refresh

Re-paints the Tree View to reflect the actual current contents in memory. You can also press the asterisk (\*) shortcut key to update the screen.

### Properties

Displays data related to the selected folder. (If you wish to view information about an individual file, use the Properties command in List View.)

## Options

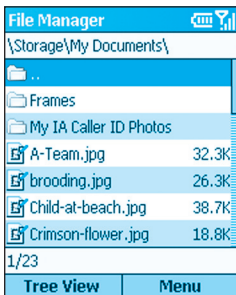
The Options screen contains several checkboxes that allow you to customize certain behaviors of File Manager. For example, you can choose to use a small font, show or hide file extensions, show or hide files in ROM, etc. Select *Reset Default* (on the menu in the Options screen) if you ever want to reset all options to the default behavior.

## System Info

The System Info screen displays useful information about Battery power, Memory usage, Flash and Device data.

## List view

If in Tree View, press the Left Softkey to switch to List View. If the currently selected folder in Tree View contains no subfolders, pressing the Action button will also switch to List View. (If the selected folder in Tree View *does* have subfolders, pressing the Action button expands or collapses the tree for that folder.)



## Menu Commands in List View

You can perform many additional file management functions using the commands on the menu when in List View, as follows:

### File

Selecting **File** opens a submenu that lets you create a **New Folder** which will be a subfolder under the current folder; or **Rename**, **Copy**, **Move**, or **Duplicate** the currently selected file(s).

Selecting **Associate** on the File submenu allows you to associate all files that have the same extension as the selected file with a specific application program. Then whenever you select a file of the associated filetype, it will open using the application you specified.

Even if a particular filetype is already associated with a particular application, you can perform a one-time override of that default association using the **Open With** command on the File submenu. It allows you to select a file, and then individually select the application that you want to open the file with.

**Create Shortcut** on the File submenu enables you to create a shortcut for a file and place it in any folder. First select the file for which you want to create a shortcut, then select **Create Shortcut** and select the folder where you want it to be placed.

### Zip Extraction

This command lets you “unzip” (extract) ZIP files that you may have received into your phone via ActiveSync, infrared beaming, E-mail, etc. First, select the desired file (filename must have an extension of **.zip**). Then select **Zip Extraction**. This opens a submenu containing the **Contents** and **Extract Here** commands.

Select **Extract Here** from the submenu if you just want to extract all the files immediately and place them in the current folder.

Selecting **Contents** from the submenu will list all the files contained in the selected ZIP file. In the screen listing the individual files, you can open a menu containing several options. Among them are

**Extract To** — If you don't want all files in the list to be extracted, you can first select only the files you want. Then select the folder/subfolder where you want to place the extracted files and press the Left Softkey ("Extract").

**Integrity Test** — This command checks to see if the data contained in all of the individual files (contained in the current ZIP file) is correct.

**View** — This command is available when only one individual file or one folder is selected. If an individual file within the ZIP file is selected, then the **View** command invokes the application associated with that filetype and displays the file. If the ZIP file contains folders, and one of the folders within the ZIP file is selected, then the **View** command will open the folder and display a list of the files within it. A "plus sign" (+) will be shown in front of encrypted items in a ZIP file.

## Selection

The next command on the main menu in List View (after the Zip Extraction command) is **Selection**. It opens a submenu that lets you **Go to Top**, **Go to End**, **Select All**, **Select None**, **Invert Select**, or enable **Select Multiple** if you want to select more than one item in the list. In the *Select Multiple* screen, the menu offers additional options to select only the folders in the list, or only the files in the list.

## Sort By

Lets you sort the items in the list by **Name**, **Size**, or **Date**, in either **Ascending** or **Descending** order.



## Send

This command opens a submenu containing two commands:

**Send via E-mail** — Only one file can be E-mailed at a time. (If multiple files are selected, this command will be disabled.) First, select the file you want to E-mail, then select this command. The *Compose New* screen will open with the selected file already attached.

**Send via Infrared** — First, select one or more files that you want to send, or an entire folder, then select this command. In the *Send Data* screen that opens, press the Left Softkey (“Beam”) to start beaming. After the files have finished being sent, you can beam them again to another device, if desired, by pressing the Left Softkey again (“Restart”).

## Run

If the currently selected file is an executable program file, selecting **Run** will invoke that application. Or, if you have used the **Associate** command on the *File* submenu to associate a particular filetype with a particular application, selecting **Run** (when a file of that filetype is selected) will start the associated application. The Action button is the shortcut key for this command.

## Delete

Select the file or folder you want to delete, then select **Delete** on the menu (or press **D** on your phone’s keypad when the menu is not open).

## Refresh

When you select **Refresh** from the menu, or press the asterisk (\*) shortcut key on your keypad when the menu is closed, the contents of the List View will be re-painted to reflect the actual current contents in memory.

### Properties

If a file or folder is selected in the list at the time you select **Properties** from the main List View menu, the Properties screen will display related information. Also, in the bottom portion of the screen, you can change some attributes of the file or folder, and view others. (This command is disabled if multiple files/folders are disabled.)

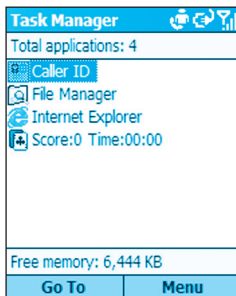
### Options

The Options screen is the same one you can access from the menu in Tree View. It contains several checkboxes that allow you to customize certain behaviors of File Manager. For example, you can choose to use a small font, show or hide file extensions, show or hide files in ROM, etc. Select *Reset Default* (on the menu in the Options screen) if you ever want to reset all options to the default behavior.

## 9.3 Task Manager

**Task Manager** lists all the tasks/applications currently running on your phone. You can then easily switch to and activate any currently running task, terminate any tasks, and view free memory/battery information.

When Task Manager is initially invoked, it lists all tasks/applications that are currently running in the memory of your phone. An example is illustrated below.



### Menu Commands

#### Go To

This command activates the selected application/task. First, select the application in the list that you want to use. Then select **Go To** from the menu, or press the Action button, to switch to that application and make it the active task. (You can also use the Left Softkey to activate a task if the menu is not open.)

#### Refresh

Selecting the **Refresh** command, or pressing the asterisk (\*) key on the phone keypad, will update and repaint the list of currently running tasks.

## Stop

The **Stop** command (or the **7** key on the phone keypad if the menu is not open) stops the selected application. If for any reason the task cannot be terminated, a message will inform you of such. After you have stopped an application, the amount of Free Memory (shown near the bottom of the screen) is updated.

## Stop All

Selecting **Stop All**, (or pressing the **2** key if the menu is not open), tells Task Manager to try to stop *all* the listed applications. A message will ask you to confirm that you want to terminate all currently running applications. Press the Left Softkey (“OK”) to confirm.

## Stop All But Selected

First select the one task in the list that you do not want to stop. Then select **Stop All But Selected**. All other running tasks will then be terminated, except the one you selected.

## System Info

Select **System Info** to view details concerning your Power/Battery, Memory, Flash, and Device information. The illustration below shows the upper half of a sample *System Info* screen.

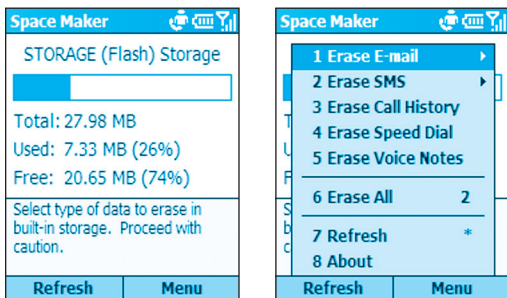
System Info	
<b>Power Status</b>	
Main Battery:	Charging (87%)
Backup Battery:	Unknown
<b>Memory Information</b>	
Total Memory:	23.14 MB
Storage Memory:	2.85 MB
Used:	525.83 KB
Free:	2.34 MB
Program Memory:	20.29 MB
Used:	13.84 MB
Free:	6.45 MB
<b>OK</b>	

## 9.4 Space Maker

Your phone has a built-in, unremovable default storage card. The nomenclature of the card is hardware-dependent (in some phones it is known as “Flash” Storage). The phone uses this card to store certain data, such as the data in your Contacts, Tasks, Appointments (Calendar), and E-mail items. There are times when free storage space might become low, at which time you might want to delete any less-needed items in order to free up space.

**Space Maker** makes it easy for you to delete specific categories of any unwanted data in Flash storage as you see fit, thereby letting you control the amount of space available.

The main Space Maker screen, shown below on the left, displays the total amount of space available in your particular built-in storage, the amount of space currently being occupied by your data on the card (and percentage) and the amount of space currently not being used (and percentage).



**Keypad shortcuts:** When the menu is not open, you can press the **2** key to invoke the Erase All command, or press the asterisk (\*) key to update the storage usage data to reflect the current “Used” and “Free” amounts.

## Menu Commands

### Erase E-mail

Selecting **Erase E-mail** will open a submenu that gives you the flexibility to delete all E-mail; or only the E-mail marked as “Read;” or only the E-mail in these individual folders: Deleted Items, Drafts, Inbox, Outbox, or Sent Items.

**Deleting All E-mail** — Select **All** to delete all E-mail in all folders. All attachments will also be deleted. Note that SMS and MMS messages will not be deleted. (If you wish to delete SMS messages in your Inbox, use the **Erase SMS** command described on the next page.)

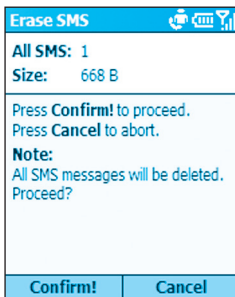
After you select **All** from the submenu, a confirmation screen will appear. It displays the number of E-mailings that will be deleted, and the amount of space currently being used by those E-mailings which will be “freed up” in your Flash storage after the command has executed. Press the Left Softkey to **Confirm**, or the Right Softkey to Cancel.

After the “Delete All E-mail” operation has finished, all E-mail will be deleted from the phone. Therefore, the next time you synchronize after deleting, your E-mail will be out-of-sync, since it will be gone from the phone but will still exist on your PC. If you want E-mail to be synchronized on both phone and PC, first delete your current partnership and then create a new partnership.

**Deleting Individual Categories of E-mail** — Likewise, you can select one of the following commands from the submenu to delete only the E-mail in those categories: **Read** (deletes all E-mail marked as “Read”); **Deleted Items**; **Drafts**; **Inbox**; **Outbox**; and/or **Sent Items**. In each case, a screen will open which displays the number of items in that category, and the total space being used by those items (similar to the example illustrated on the next page).

### Erase SMS

The **Erase SMS** command opens a submenu that gives you a choice of deleting all SMS (Short Message Service) messages, or only the messages marked as “Read.” Whether you select **All** or **Read** from the submenu, a confirmation screen will appear and display the number of SMS messages that will be deleted, as well as the amount of space being used by those SMS messages. An example is shown below. Press the Left Softkey (“Confirm”) to delete. You will then be returned to the main Space Maker screen illustrated earlier, and the new total “Used” and “Free” storage amounts will be displayed.



### Erase Call History

To delete all Call History data, select **Erase Call History** on the menu. A confirmation screen will display the number of Call History records that will be deleted, and the amount of space currently being used by those records (similar to the screen shown above). Press the Left Softkey to Confirm that you want to delete all **Call History** records, or the Right Softkey to Cancel.

### Erase Speed Dial

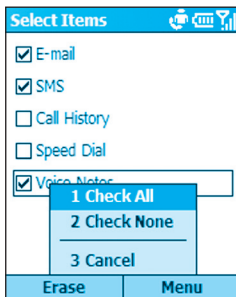
To delete all Speed Dial entries, select **Erase Speed Dial** on the menu. A confirmation screen will display the number of Speed Dial records that will be deleted, and the amount of space currently being used by that data. Press the Left Softkey to delete, or the Right Softkey to cancel.

### Erase Voice Notes

This command deletes all voice recordings you have created and stored in Flash storage, using your phone's **Voice Notes** function. In the confirmation screen, press the Left Softkey to delete.

### Erase All

When you select the **Erase All** command from the menu (or press **2** on your phone's keypad when the menu is not open), the screen shown below opens. It allows you to conveniently select multiple categories of data that you want to delete (rather than deleting categories of data one-by-one using the individual commands on the main menu).



After checking the desired checkboxes, press the Left Softkey to begin the **Erase** process. You will still be given an opportunity to confirm the deletion of each category individually.



### **Refresh**

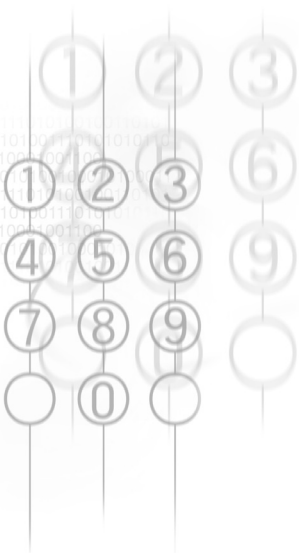
Selecting **Refresh** on the menu, or pressing the asterisk (\*) shortcut key, or the Left Softkey in the main screen, updates and re-displays the amounts of **Used Storage** and **Free Storage**.

Whenever you use any of the “**Erase**” commands on the menu, the **Refresh** operation will be performed automatically to show you the new storage amounts resulting from the deletion.

# Appendix

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**Regulatory Notices**  
**Troubleshooting**  
**Specifications**  
**Index**



## Regulatory Notices

### Agency Identification Numbers

For regulatory identification purposes, your product is assigned a model number of ST20A. The Battery Pack has been assigned a model number of ST26A.

To ensure continued reliable and safe operation of your phone, use only the accessories listed below with your ST20A.

NOTE: This product is intended to be used with a certified class 2 limited power source, rated 5 volts DC, minimum 1A power supply unit.

### European Union Notice

Products with CE marking comply with the R&TTE Directive (99/5/EC), the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms (in brackets are the equivalent international standards):

- EN 60950 (IEC 60950) - Safety of Information Technology Equipment.
- ETSI EN 301 489-7 - Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS).

- ETSI EN 301 511 – Global System for Mobile communications (GSM); Harmonized standard for mobile stations in the GSM 900 and DCS 1800 bands covering essential requirements under article 3.2 of the R&TTE directive (1999/5/EC).
- ANSI/IEEE C.95.1-1992- specific absorption rate in mobile phone emission condition for body health.
- FCC part 15 - Radio Frequency Devices and part 24 – Personal Communications Services.
- EN 50360 - 2001– Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300 MHz – 3 GHz).
- SAR: FCC: (1g) 1900MHZ: Body 0.513 mW/g; Head 0.241 mW/g. CE: (10g) 900MHZ: Body 0.503 mW/g; Head 0.183 mW/g. 1800MHZ: Body 0.619 mW/g; Head 0.297 mW/g.
- ETSI EN 301 489-1 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements.
- ETSI EN 301 489-17 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment.
- ETSI EN 300 328 Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; data transmission equipment operating in the 2.4 GHz ISM band and using spread spectrum modulation techniques.

## Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or TV reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- **Reorient or relocate the receiving antenna.**
- **Increase the separation between the equipment and receiver.**
- **Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.**
- **Consult the dealer or an experienced radio or television technician for help.**

## Modifications

The FCC requires the user to be notified that any changes or modifications made to the device that are not expressly approved by High Tech Computer Corporation may void the user's authority to operate the equipment.

## Important Safety Information

Retain and follow all product safety and operating instructions. Observe all warnings on the product and in the operating instructions.

To reduce the risk of bodily injury, electric shock, fire, and damage to the equipment, observe the following precautions.

## Safety Precautions for RF Exposure

Tests for SAR are conducted using standard operating positions specified by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operation can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output. Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (for example, at the ear and worn on the body) as required by the FCC for each model. (Body-worn measurements may differ among phone models, depending upon available accessories and FCC requirements). For body worn operation, to maintain compliance with FCC RF exposure guidelines, use only original manufacturer approved accessories. When carrying the phone while it is on, use the specific original manufacturer supplied or approved carrying case, holster, or other body-worn accessory.

**Use only original manufacturer-approved accessories, or accessories that do not contain any metal:** Use of non-original manufacturer-approved accessories may violate FCC RF exposure guidelines and should be avoided.

**Heed service markings:** Except as explained elsewhere in the Operating or Service documentation, do not service any product yourself. Service needed on components inside these compartments should be done by an authorized service technician or provider.

**Damage requiring service:** Unplug the product from the electrical outlet and refer servicing to an authorized service technician or provider under the following conditions:

- **Liquid has been spilled or an object has fallen into the product.**
- **The product has been exposed to rain or water.**
- **The product has been dropped or damaged.**
- **There are noticeable signs of overheating.**
- **The product does not operate normally when you follow the operating instructions.**

**Avoid hot areas:** The product should be placed away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

**Avoid wet areas:** Never use the product in a wet location.

**Avoid pushing objects into product:** Never push objects of any kind into cabinet slots or other openings in the product. Slots and openings are provided for ventilation. These openings must not be blocked or covered.

**Mounting Accessories:** Do not use the product on an unstable table, cart, stand, tripod, or bracket. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

**Avoid unstable mounting:** Do not place the product with an unstable base.

**Use product with approved equipment:** This product should be used only with personal computers and options identified as suitable for use with your equipment.

**Adjust the volume:** Turn down the volume before using headphones or other audio devices.

**Cleaning:** Unplug the product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a slightly damp cloth for cleaning, but NEVER use water to clean an LCD screen.

## Safety Precautions for Power Supply Unit

**Use the correct external power source:** A product should be operated only from the type of power source indicated on the electrical ratings label. If you are not sure of the type of power source required, consult your authorized service provider or local power company. For a product that operates from battery power or other sources, refer to the operating instructions that are included with the product.

**Handle battery packs carefully: This product contains a Lithium ion battery.** There is a risk of fire and burns if the battery pack is handled improperly. Do not attempt to open or service the battery pack. Do not disassemble, crush, puncture, short external contacts or circuits, dispose of in fire or water, or expose a battery pack to temperatures higher than 60°C (140°F).



## Exposure to Radio Frequency (RF) Signals

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on the safety standards previously set by both U.S. and international standards bodies:

- American National Standards Institute (ANSI) IEEE. C95.1-1992
- National Council on Radiation Protection and Measurement (NCRP). Report 86. 1986
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1996
- Ministry of Health (Canada), Safety Code 6. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the **Specific Absorption Rate**, or SAR. The SAR limit set by the FCC is 1.6W/kg.

In the U.S. and Canada, the SAR limit for mobile phones used by the public is 1.6 Watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in usage. Normal conditions only ensure the radiative performance and safety of the interference. As with other mobile radio transmitting equipment, users are advised that for satisfactory operation of the equipment and for the safety of personnel, it is recommended that no part of the human body be allowed to come too close to the antenna during operation of the equipment.



Your phone contains a lithium-ion battery pack. There is a risk of fire and burns if the battery pack is handled improperly. Do not disassemble, crush, puncture, short external contacts, or dispose of in fire or water. Do not attempt to open or service the battery pack. Replace only with the battery pack designated for this product. Recycle or dispose of batteries properly. Do not discard with your regular trash.

### Safety Precautions

**SAFETY IN AIRCRAFT:** This product can cause interference to an aircraft's navigation system and network. In most countries it is against the law to use this product on board an airplane.

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**ENVIRONMENTAL SAFETY:** Do not use this product in gas stations, fuel stores, chemical plants and locations containing explosives.

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**ROAD SAFETY:** Vehicle drivers in motion are not permitted to use handheld telephony services, except in emergency. In some countries, using hands-free devices as an alternative is allowed.

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**MEDICAL EQUIPMENT SAFETY:** This product may cause medical equipment malfunction. In most hospitals or medical centers use of this product is forbidden.

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## Other tips and cautions

- Avoid using the product near metal structures (for example, the steel frame of a building).
- Avoid using the product near strong electromagnetic sources, such as microwave ovens, sound speakers, TV and radio.
- Avoid using this product after a dramatic change in temperature.

## Troubleshooting

If you encounter a problem with your phone, please review the list below to try and find your problem. If still having problems, please contact Technical Support or your dealer.

Problem	Solution
<ul style="list-style-type: none"><li>■ My phone's screen is blank.</li></ul>	<ul style="list-style-type: none"><li>• Your phone is designed by default to switch to a screen saver. To turn it on, press any key.</li><li>• Your battery may be run down. Charge the battery immediately.</li></ul>
<ul style="list-style-type: none"><li>■ My phone does not make any sound or vibrate when the phone rings or alarms occur.</li></ul>	<ul style="list-style-type: none"><li>• Check the Sounds settings by selecting <b>Settings &gt; Sounds</b> from the Start menu.</li><li>• Select <b>Calendar</b> from the Start menu and then select <b>Options</b> from the Calendar menu to see if <b>Set Reminders</b> is activated.</li></ul>
<ul style="list-style-type: none"><li>■ My phone operation has become very slow.</li></ul>	You may have opened too many programs. To release the operation load, you can terminate unneeded programs using the <b>Task Manager</b> utility (see Chapter 9).
<ul style="list-style-type: none"><li>■ A "battery low" warning message pops up on the screen.</li></ul>	Plug the AC power into your phone to charge it.

## Problem

## Solution

- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>■ Viewing my incoming messages.</li></ul>  | <p>Select <b>Messaging</b> from the Start menu, then select either <b>Media Messages</b> (for MMS), <b>Text Messages</b> (for SMS), or <b>Outlook E-Mail</b>.</p>  |
| <ul style="list-style-type: none"><li>■ A warning message about “Running out of memory” pops up on the screen.</li></ul> | <p>Some ways to create space on your phone are:</p> <ul style="list-style-type: none"><li>• Delete any unnecessary files such as old e-mail, image files, or large video files.</li><li>• Delete unneeded programs by selecting <b>Settings</b> from the Start menu and then <b>Remove Programs</b>.</li><li>• Use <b>Task Manager</b> to terminate unneeded tasks (see Chapter 9).</li><li>• Use <b>Space Maker</b> to delete misc. unneeded items (see Chapter 9).</li></ul> |
| <ul style="list-style-type: none"><li>■ I cannot open an image or video file.</li></ul>                                  | <p>The filetype of the image or video may not be supported. See Chapter 3 for a list of all supported image/video file formats.</p>  |
| <ul style="list-style-type: none"><li>■ The image appears dark when using the camera.</li></ul>                          | <p>When in the Camera screen, you can adjust for different lighting conditions by selecting <b>Ambience</b> from the menu and then selecting an effect, and/or <b>Adjust View</b> properties.</p>  |

## ActiveSync Problems

Problem	Solution
■ ActiveSync operation cannot be performed or connected.	<ul style="list-style-type: none"><li data-bbox="472 254 934 329">• Make sure the ActiveSync cradle/cable is connected securely.</li><li data-bbox="472 379 934 530">• Make sure you have installed the ActiveSync software found on the Companion CD that came with your phone.</li><li data-bbox="472 580 934 783">• Make sure the settings are correct in <b>File Menu &gt; Connection Settings...</b> in the Microsoft ActiveSync window on your desktop computer.</li><li data-bbox="472 833 934 1031">• Chapter 7 discusses ActiveSync. If still not working, try to remove the ActiveSync software (using Control Panel on your desktop computer) and then re-install.</li></ul>

## Problem

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- ActiveSync is connected, but data or information cannot be transferred.

## Solution

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Check **Tools Menu > Options...** in the Microsoft ActiveSync window on your desktop computer to see if the information type you want has been selected for synchronizing. See more details about ActiveSync in Chapter 7.

- I cannot perform over-the-air synchronization.

Ensure that Microsoft Mobile Information Server has been installed.

## Connection Problems

Problem	Solution
<ul style="list-style-type: none"><li>■ Unable to use Infrared (IR) to transfer information.</li></ul>	<p>Try the following:</p> <ul style="list-style-type: none"><li>• Transfer only one file, or no more than 25 contact cards, at a time.</li><li>• Line up the IR ports so that they are unobstructed and within close range.</li><li>• Make sure nothing is between the two IR ports.</li><li>• Adjust the room lighting. Some types of light interfere with IR connections. Try moving to a different location or turning off some lights. Do not try to use infrared beaming in the sunlight.</li></ul>
<ul style="list-style-type: none"><li>■ Cannot connect to the Internet.</li></ul>	<p>Try the following:</p> <ul style="list-style-type: none"><li>• Ensure that you have set up and connected to an Internet Service Provider.</li><li>• Ensure that the wireless connection to your mobile Service Provider is switched on and that the signal is unobstructed.</li><li>• Verify with your Internet Service Provider that your user name and password are correct.</li></ul>



**Problem**

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**Solution**

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- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>■ Cannot end a Bluetooth connection.</li></ul> | <p>If another device leaves its link On when it is pairing with your phone, the only way to disconnect is by deactivating the Bluetooth link. Select <b>Settings</b> &gt; <b>Bluetooth</b> from the Start menu, then set the <i>Bluetooth</i> field to <b>Off</b>.</p>   |
| <ul style="list-style-type: none"><li>■ Cannot find a particular device.</li></ul>   | <ul style="list-style-type: none"><li>• Ensure that the other device is activated.</li><br/><li>• Ensure that you are within 10 meters of each other, and that there are no obstructions.</li><br/><li>• Ensure that the other device is not in “Hidden” mode.</li></ul> |

# Specifications

## System Information

<b>Processor</b>	TI OMAP, 200 MHz
<b>Memory</b> — ROM	64 MB (Standard)
— RAM	32 MB (Standard) SDRAM
<b>Operating System</b>	Windows Mobile™ Smartphone 2003 Ozone Update, Second Edition

## Display

<b>Type</b>	Transflective 2.2 inch TFT-LCD
<b>Resolution</b>	176 x 220 at 64K colors

## GSM/GPRS Tri-Band Module

<b>GSM900</b>	880 ~ 915, 925 ~ 960 MHz
<b>DCS1800</b>	1710 ~ 1785, 1805 ~ 1880 MHz
<b>DCS1900</b>	1850 ~ 1910, 1930 ~ 1990 MHz

## Camera Module

<b>Type</b>	Color CMOS
<b>Resolution</b>	VGA with JPEG encoder

## Expansion Slots

<b>SD / MMC Slot</b>	Mini-SD memory card
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## Connection

<b>Infrared</b>	IrDA SIR
<b>I/O port</b>	Standard 5-pin mini-USB port for signals (for USB and power)
<b>Audio</b>	Stereo headphone jack
<b>Bluetooth</b>	Class 2 transmit power

## Controls and Lights

<b>Navigation</b>	5-way navigation pad
<b>Buttons</b>	2 Softkeys Back Home Camera 2 phone function : Call, End Volume control button (up, down) Record Audio (hold Vol. Down 3 sec.) Power on / off One dialing keypad
<b>Lights</b>	Event notification Charge status GSM/GPRS signals Bluetooth connection

## Audio

<b>Microphone/Speaker</b>	Built-in microphone and 3-in-1 speaker
<b>Headphone</b>	MP3 stereo

## Power Supply

<b>Battery</b>	1050mAh (typical) Lithium ion removable, rechargeable battery
<b>AC adapter</b>	
- AC input / Frequency	100 ~ 240 VAC / 50 ~ 60Hz
- Rated Output	5V / 1A DC (typical)

\* Contents subject to change without notice.

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