messages you have saved in each folder.

For **Multimedia Message**, **My MEdia** and **Games** the displays show the total memory amount, including the amount of memory available and used for storing messages. It also shows the memory amount used for each message folder.

4. When you have finished, press the key.

Section 8: Changing Your Settings

Topics Covered

- Time & Date
- Phone Settings
- Display Settings
- Sound Settings
- Network Settings
- Security Settings
- Resetting Your Phone

This section explains how to customize your settings for your phone.

Time & Date

This menu allows you to change the current time and date displayed.

1. In Idle mode, press the **Menu** soft key to access Menu mode.
2. Select **Settings** and highlight **Time & Date**. Press the **Select** soft key or the key. Select a menu and then change the setting. If the menu has submenus, repeat as necessary.
3. When you have finished, press the key

Set Time

Allows you to enter the current time. You can choose the time format in the **Time format** menu.

Set Date

Allows you to enter the month, day, and year.

Time Format

Allows you to change the time format to **12 hours** or **24 hours**.

Auto Update

Allows you to receive time information from your service provider's network.

- Off: you need to manually set the time and date according to the current time zone using the Set time menu (Menu 9.1.1).
- On: the phone automatically updates the time and date according to the current time zone using the network service.

- Confirm first: the phone asks for a confirmation before the update.

Note: Automatic updates of time and date does not change the time you have set for alarm settings or calendar memos.

Phone Settings

To customize the settings for your phone use the following steps:

1. In Idle mode, press the **Menu** soft key to access Menu mode.
2. Select **Settings** and highlight **Phone Settings**. Press the **Select** soft key or the key.
3. Select a menu and then change the setting. If the menu has submenus, repeat as necessary.
4. When you have finished, press the key

Language

You can select a display or text messaging language. When the language option is set to **Automatic**, the language is automatically selected according to the language of the SIM card used.

Depending on your country, service provider, or the software version of the phone, the Automatic option may not display.

Greeting Message

This menu allows you to set a greeting to be displayed briefly when the phone is switched on.

Extra Settings

You can turn the automatic redial or answer features on or off.

1. From the **Phone Settings** menu, Select **Extra Settings**
2. To turn a feature on, press the **Select** soft key or the key. A check mark displays in front of the option.
3. To turn a feature off, press the **Select** soft key or the key. The check mark no longer displays.

The following options are available:

Note: The interval between call attempts varies.

- Auto redial: when this option is checked, the phone makes up to ten attempts to redial a phone number after an unsuccessful call.
- Anykey answer: when this option is checked, you can answer an incoming call by pressing any key, except the key or the Reject soft key. To reject the call, press the key or the Reject soft key.
- Open to Answer: when this option is checked, you can simply open the phone to answer a call. When it is unchecked, you must open the phone and press a key to answer a call, depending on the setting of the Anykey answer option. See below.

When this option is unchecked, you must press the key or **Accept** soft key to answer a call.

Display Settings

In this menu, you can change various settings for the display or backlight.

1. In Idle mode, press the **Menu** soft key to access Menu mode.
2. Select **Settings** and highlight **Display Settings** and press the **Select** or key.
3. Select a menu and then change the setting. If the menu has submenus, repeat this step.
   For the details of each menu, see the next sections.
4. When you have finished, press the key

Wallpaper

This menu allows you to change the background image or the color of the text to be displayed in Idle mode.

The following options are available:

- Shop Graphics: allows you to access the web site preset by your service provider to download images. Once you have downloaded images, they are saved in the Graphics folder.
- Animations: allows you to choose the multi-media or pictures that appear in your phone's display when you turn it on, turn it off, and while in standby mode (wallpaper)
- Graphics: allows you to select a graphic that appear in your phone's display when you turn it on, turn it off, and while in standby mode.
- Text Position: you can specify the positioning of the text in the display.
- Text Color: you can specify whether or not the phone displays the time and date on the Idle screen.

Skin

This menu allows you to select the menu display style. You can choose either **Pattern 1** or **Pattern 2**.

Back Light Time

You can select the length of time the backlight is on. The backlight turns on when you press a key, when you open the phone or you receive a call or message, and remains on for the specified length of time.

Brightness Control

You can adjust the display brightness to see it better in different lighting conditions.

Press the **Up** or **Down** key or press the **Volume** keys to adjust the brightness.

Main LCD

You can adjust the Main LCD display brightness to see it better in different lighting conditions.

Press the **Up** or **Down** key or press the **Volume** keys to adjust the brightness.

External LCD

You can adjust the external LCD display brightness to see it better in different lighting conditions.

Press the **Up** or **Down** key or press the **Volume** keys to adjust the brightness.

Dialing Font Color

Dialing Font Color adjust the color of the numbers as they are entered into the display.

Press the **Select** soft key to select **Black** or **Rainbow**.

Sound Settings

You can customize the settings related to various sounds for the phone, such as the call ringer, key tone, power on/off tone, slider tone, and so on.

1. In Idle mode, press the **Menu** soft key to access Menu mode.
2. Select **Settings**. Highlight **Sound Settings** and press the **Select** soft key or the key.
3. Select a menu and then change the setting. If the menu has submenus, repeat as necessary.
4. When you have finished, press the key.

Incoming Calls

This menu allows you to specify how you are to be informed of incoming calls.

The following options are available:

- Shop Ringtones: allows you to access the web site preset by your service provider to download melodies. Once you have downloaded melodies, they are saved in the Audio folder.
- Default Ringtones: allows you to use the preloaded ringtones that come with your phone.
- My Audio: allows you to use recorded audio files.
- Ring Volume: allows you to adjust the ring volume to one of 5 levels.
- Alert Type: allows you to specify how you are to be informed of incoming calls. The following options are available:

- Melody: the phone rings using the ring melody selected in the Ring Tone menu.
- Vibration: the phone vibrates but does not ring.
- Vibration then Melody: the phone first vibrates three times and then starts ringing.

Keypad Tone

This menu allows you to select the tone that the phone sounds when you press a key. To turn off the sound, select **Off**.

Message Tone

This menu allows you to set up the ringer for incoming messages, text messages, multimedia messages, and broadcast messages

Text Message

This menu allows you to select how the phone informs you that a new text message has been received.

The following options are available:

- Tone: allows you to use one of several message tones.
- Alert Type: allows you specify how you are informed of any incoming messages.
    - Silent: only the text notification appears; the phone neither rings nor vibrates.
    - Tone: the phone rings using the tone selected under the Tone option.
    - Vibration: the phone vibrates.
    - Vibration Then Tone: the phone vibrate then selected tone sounds.

- Repetition: allows you to specify how often the phone informs you of a new message. The following options are available:
    - Once: the phone alerts you to a new message just once at the time of receipt.
    - Periodic: the phone alerts you to a new message every 2 minutes until you open the message.

Multimedia Message

This menu allows you to select how the phone informs you that a new multimedia message has been received.

The following options are available:

- Tone: allows you to use one of several message tones.
- Alert Type: allows you specify how you are informed of any incoming messages.
    - Silent: only the text notification appears; the phone neither rings nor vibrates.
    - Tone: the phone rings using the tone selected under the Tone option.
    - Vibration: the phone vibrates.
    - Vibration Then Tone: the phone vibrates then selected tone sounds.
- Repetition: allows you to specify how often the phone informs you of a new message. The following options are available:
    - Once: the phone alerts you to a new message just once at the time of receipt.
    - Periodic: the phone alerts you to a new message every 2 minutes until you open the message.

Power On/Off

This menu allows you to select the melody that the phone sounds when it is switched on and off.

To turn off the sound, select **Off**.

Silent Mode

This menu allows you to choose whether or not the phone informs you when you receive a new message or when the time for an alarm comes during a call.

The following options are available:

- Vibration: the phone alerts you with a vibration and displays the corresponding notification.
- Mute: the phone doesn't actively alert you to incoming messages or alarms. It only displays the corresponding notification.

Extra Tone

You can customize additional tones for the phone.

1. To turn a given tone on, press the **Select** soft key or the key. A check mark displays in front of the option.
2. To turn a given tone off, press the **Select** soft key or the key. The check mark no longer displays in front of the option.

Network Services

For more information about Network Services, 'Section 11: Network Services" on page 145

Security Settings

The Security feature enables you to restrict the use of your phone by the others and to restrict the types of calls.

Various codes and passwords are used to protect the features of your phone.

1. In Idle mode, press the **Menu** soft key to access Menu mode.
2. Select **Settings**. Highlight **Security** and press the **Select** soft key or the key.
3. Select a menu and then change the setting. If the menu has submenus, repeat as necessary.
4. When you have finished, press the key.

PIN Check

When the PIN Check feature is enabled, you must enter your PIN each time you switch on the phone. Consequently, any person who does not have your PIN cannot use your phone without your approval.

Note: Before disabling the PIN Check feature, you must enter your PIN.

The following options are available:

- Disable: the phone connects directly to the network when you switch it on.
- Enable: you must enter the PIN each time the phone is switched on.

Change PIN

This feature allows you to change your current PIN, provided that the PIN Check feature is enabled. You must enter the current PIN before you can specify a new one.

Once you have entered a new PIN, you are asked to confirm it by entering it again.

Phone Lock

When the Phone Lock feature is enabled, the phone is locked and you must enter the 4- to 8-digit phone password each time the phone is switched on.

Once the correct password has been entered, you can use the phone until you switch it off.

The following options are available:

- Disable: you are not asked to enter the phone password when you switch on the phone.
- Enable: you are required to enter the phone password when you switch on the phone.

Change Password

The Change Password feature allows you to change your current phone password to a new one. You must enter the current password before you can specify a new one.

Privacy

Using this menu, you can lock your media contents, such as picture messages, Voice messages, Voice list, images, and sounds. Once you have locked the contents, you must enter the phone's password to access the associated menus.

1. To select an item to lock, press the **Up** or **Down** key. To lock all of the contents, select **All**.
2. To place a check mark, press the key.
3. To remove a check mark, press the key.
4. To lock the marked items, press the **OK** soft key.
5. When the phone asks for the password, enter the password and press the **OK** soft key or the key.

SIM Lock

When the SIM Lock feature is enabled, your phone only works with the current SIM. You must enter the SIM lock code to unlock the SIM so you can use a different SIM card. Once you have entered the lock code, you are asked to confirm your entry.

FDN Mode

FDN (Fixed Dial Number) mode, if supported by your SIM card, allows you to restrict your outgoing calls to a limited set of phone numbers.

The following options are available:

- Disable: you can call any number.
- Enable: you can only call phone numbers stored in Phone book. You must enter your PIN2.

Note: Not all SIM cards have a PIN2. If your SIM card does not, this menu does not display.

Change PIN2

The Change PIN2 feature allows you to change your current PIN2 to a new one. You must enter the current

PIN2 before you can specify a new one. Once you have entered a new PIN2, you are asked to confirm it by entering it again.

Note: Not all SIM cards have a PIN2. If your SIM card does not, this menu does not display.

Resetting Your Phone

You can easily reset your phone to its' default settings.

1. In Idle mode, press the **Menu** sot key to access Menu mode.
2. Select **Settings**. Highlight **Reset Settings** and press the **Select** soft key or the key.
3. Select **All** or a specific setting to reset.

- All
- Phone Settings
- Display Settings
- Sound Settings

Press the **Yes** soft key to confirm reset.

Press the **No** soft key to return to **Reset Settings** screen.

4. Enter the 4 to 8-digit password and press the **OK** soft key or the key.

Section 9: WAP

Topics Covered

- Launching the WAP Browser
- Accessing a WAP site
- Navigating the WAP Browser
- Using Favorites
- Downloading Multimedia Files
- Clearing the Cache

Your phone is equipped with a WAP (Wireless Application Protocol) browser which allows you to access Internet specified for mobile phones. This section explains how to access the WAP services of your service provider and navigate the WAP browser.

Launching the WAP Browser

1. In Idle mode, press the key to launch the WAP browser.

   or

   Press the **Menu** soft key to access menu mode and select **MEdia Net** and press the **Select** soft key or the key.

2. Highlight **MEdia Net Home** and press the **Connect** soft key or the key.
   Your phone is connected to the network and loads the homepage of the Wireless Web service provider. The content of the start-up homepage depends on your Wireless Web service provider.

3. To scroll through the screen, use the **Up** and **Down** Navigation keys.

4. To exit the browser at any time, simply press the key.

Access a WAP Site

There are several ways to access a WAP site:

- Selecting a link on the browser
- Using a bookmark item in the Favorites folder; use the Bookmarks option on the browser menu list or Favorites menu.
- Entering a URL address manually; use the Go To URL option on the browser menu list or http:// menu.

Navigating the WAP Browser

1. To scroll through browser items, press the **Up** or **Down** Navigation keys.
2. To select a browser item, press the key or press the **Options** soft key and choose **Select**.
3. To select a numbered item, press the corresponding numeric key.
4. To return to the previous page, press the key, or press the **Options** soft key and choose **Back.**
5. To access the browser menu list, press the **Menu** soft key.
6. To return to the start-up homepage, press and hold the key for more than two seconds, or press the **Menu** soft key and select the **Home** option.

Entering Text in the WAP Browser

When you are prompted to enter text, the currently active text input mode is indicated on the screen. To change the text input mode, press the key one or more times.

The following modes are available:

Upper-Case Alphabet Mode (A)

allows you to enter upper-case characters.

Lower-Case Alphabet Mode (a)

allows you to enter lower-case characters.

Note: You can enter symbols in upper or lower case alphabet mode by pressing the key.

T9 Mode (T9)

allows you to enter characters by pressing one key per letter. In this mode, you can use only the 0+ key to display alternative words. To change case, press the *+ key.

Number Mode (1)

allows you to enter numbers.

Selecting and Using Menu Options

Various menus are available when you are using the WAP Browser to navigate the Wireless Web.

To access a menu option, press the menu soft key. A menu list displays.

Note: The menus may vary, depending on your version of the WAP Browser.

The following options are available:

- Favorite: shows the bookmarks list. You can bookmark the current page or access previously book marked pages.
- Reload: reloads the current page.
- Home: takes you back at any time to the homepage of the Wireless Web service provider.
- Go to URL: allows you to manually enter the URL address of a WAP site. After entering an address, press the OK soft key to go there directly.
- Show URL: displays the URL address of the page to which you are currently connected. It also enables you to set the current site as the startup homepage.

- Cache: deletes the information stored in the cache. The cache stores the most recently accessed pages.
- Inbox: allows you to read messages received from a WAP server.
- Text Messages: allows you to send messages using the WAP server.
- Show Images: shows the image on the current page. Press the Next soft key to view the next images.
- Certificates: shows the security information when you access the Wireless Web with the secured WAP setting activated.

Using Favorites

While navigating the WAP browser, you can bookmark the site to quickly and easily access it at a future time. The URL addresses of the book marked sites are stored in the Favorites folder, wherein you can use the 5-preset URL addresses and store your favorite URL addresses.

Accessing a WAP Site Using Favorites

1. In Idle mode, press the **Menu** soft key to access Menu mode.
2. Highlight **MEdia Net** and press the **Select** soft key or the key.
3. Select **Favorites**.
4. Select a bookmark item from the Favorite list and press the **Select** soft key or the key.
5. Select the option **Go**. You are accessed to the corresponding **WAP** site.

Storing a URL Address

1. In Idle mode, press the **Menu** soft key to access Menu

mode.

2. Highlight **MEdia Net** and press the **Select** soft key or the key.
3. Select **Favorites**.
4. Select an **Empty** location, and press the **Select** soft key or key.
5. Enter the address and press the **OK** soft key or the key.
6. Enter a name for the bookmark and press the **OK** soft key or the key. The bookmark name displays in the selected location.
7. When you have finished, press the key.

Editing a Bookmark

1. From the Favorite list, select the bookmark you want to change.
2. Select **Edit**.
3. Change the address and the name, as you would when storing a new one.
4. When you have finished, press the key.

Deleting a Bookmark

1. From the Favorites list, select the bookmark you want to delete.
2. Select **Delete**.
3. Press the **Yes** soft key or the key to confirm the deletion.
4. When you have finished, press the key.

Downloading Multimedia Files

You can buy a variety of multimedia files, such as ringtones, graphics, applications, Multimedia contents, and so on from the WAP browser and download them to your phone's memory. Your phone has embedded links to the WAP sits providing you with download services, preset by your service provider.

1. In Idle mode, press the **Menu** soft key to access Menu mode.
2. Select **MEdia Mall**. Highlight **Shop Ringtones, Shop Games, Shop Graphics, Shop Multimedia,** or **Shop Applications**, depending on the type of items you want to buy.
   To access homepage of the online shopping mall, select **MEdia Home.**
3. Find the item you want to download and follow the instructions on the screen to purchase it.

Note: This content is delivered to you in Multimedia messages. You can retrieve the messages from the server and then save the items in your phone's memory. you cannot forward these messages to other people or add the saved items to an Multimedia message.

Clearing the Cache

The cache is the phone's temporary memory in which the most recently accessed WAP pages are stored. You can clear the cache at anytime.

1. In Idle mode, press the **Menu** soft key to access Menu mode.

2. Highlight **MEdia Net** and press the **Select** soft key or the key.
3. Select **Clear Cache**.
4. Press the **Yes** soft key or the key to confirm deletion.
5. When you have finished, press the key

Changing the WAP Profiles

You can set up 5 server profiles for the WAP browser.

1. In Idle mode, press the **Menu** soft key to access menu mode and select **MEdia Net** and press the **Select** soft key or the key.
2. Using the **Up** or **Down** Navigation key scroll to **Browser Profiles** and press the **Select** soft key or the key.
3. Scroll to **Profile Settings** and press the **Select** soft key or the key.
4. Select the profile you want.
   For each profile, the following options are available:

- **Profile Name**: enter a name that you wish to assign to the HTTP proxy server.
- **Home URL**: set the address of your startup homepage. When the default homepage displays, you can delete it using the key and enter your own choice.
- **Bearer**: select the bearer to be used for each type of network address accessed: **GPRS First**, **GPRS Only** or **GSM Only**.
- **Proxy Use**: enter the WAP gateway address required to connect to the Internet.

- **GPRS Setting**:
  - Proxy Address: enter the WAP gateway address required to connect to the Internet.
  - Proxy Port: enter the Proxy port required to connect to the Internet.
  - APN: enter the access point name used for the address of the GPRS network gateway.
  - Login ID: enter the Login ID required to connect to the GPRS network.
  - Password: enter the password required to connect to the GPRS network.
- **GSM Setting**:
  - Proxy Address: enter the WAP gateway address required to connect to the Internet.
  - Proxy Port: enter the Proxy port required to connect to the Internet.
  - Dial Number: enter the server phone number.
  - Login ID: enter the Login ID required to connect to the GSM network.
  - Password: enter the password required to connect to the GSM network.
  - Data Call Type: select the data call type: **ISDN** or **Analog**.

Note: The WAP settings may vary depending on the service provider.

Section 10: Personal Organizer

Topics Covered

- Alarms
- Organizer
- Using the Calendar
- Using the To Do List
- Using the Calculator
- Record Audio
- Unit Conversion
- Using the Timer
- Stopwatch
- World Time

The topics covered in this section allow you to schedule appointments, view the calendar, create To-Do lists, set an alarm, and perform simple math calculations.

Alarms

You can set the alarm to ring at a specific time. You can also set the phone to switch on automatically and ring the alarm even if the phone is switched off.

Setting an Alarm

1. In Idle mode, press the **Menu** soft key and select **Games & Applications**.
2. Highlight **Alarm** and press the **Select** soft key or the key.
3. Select an **Alarm Type**
   - Wake-up Call: the alarm rings to wake you up at the specified time.
   - Alarm 1: primary alarm setting.
   - Alarm 2: secondary alarm setting.
   - Auto Power: the alarm rings even when the phone is turned off.
4. Press the **Select** soft key or the key.

Note: Your phone is preset to a 12-hour format.

If you want to use the alarm options, press the **Options** soft key. The following options are available:

- Alarm Day: select the day or days the alarm will sound.
- Alarm Time: select the time the alarm will sound
- Alarm Tone: select the sound of the alarm
- Remove Alarm: removes alarm settings.

5. Highlight **Alarm Day** and press the **Select** soft key.

6. Highlight the days you want the alarm to sound and press the **Select** soft key or the key. Press the **OK** soft key when finish. The **Alarm Time** screen displays.
7. Enter the time for the alarm to sound using the alphanumeric keypad. Press the **OK** soft key or the key.
8. Select **AM** or **PM** and press the **Select** soft key or the key.

   To stop the alarm when it rings, open the phone and press the **Confirm** soft key.

Setting Autopower Alarms

You can set the phone to ring the alarm when the time for an alarm comes, if the phone is switched off.

1. In Idle mode, press the **Menu** soft key to access menu mode.
2. Select **Games & Applications**. Highlight **Alarm** and press the **Select** soft key or the key.
3. Select **Autopower**.
4. Select **On** to activate the Autopower feature. The phone will automatically switch on to ring the alarm when the alarm time comes.

   If the menu option is set to **Off**, and the phone is switched off at the specified time, the alarm does not ring.
5. When you have finished, press the key.

Deactivating Alarms

1. In Idle mode, press the **Menu** soft key to access menu mode.
2. Select **Games & Applications**. Highlight **Alarm** and press the **Select** soft key or the key.
3. Select **Alarm Type** and press the **Select** soft key or the key.
4. Press the **Options** soft key and highlight **Remove Alarm** and press the **Select** soft key or the key.

   A pop-up message displays confirming Alarm Deactivate. Press **Yes** to remove or **No** to exit.
5. When you have finished, press the key.

Using Organizer

Organizer is a suite of PIM (Personal Information Management) applications such as a Calendar, To Do List, and Memo Pad. Schedule events, set reminders, create to do lists, perform calculations, and more with the digital assistant functionality of this useful feature.

1. Press the **Menu** soft key and select **Games & Applications**.
2. Highlight **Organizer** and press the **Select** soft key or the key. The following appear in the display.
   - New Memo: Enter a memo, which can be viewed at any time. Memos do not have an alarm setting.
   - Calendar: Schedule events for any day by indicating each event's start and end time.
   - To Do List: Enter up to 25 tasks and set an alarm for each.

3. Use the Navigation key to highlight an application. Press the **Select** soft key or the to enter the highlighted application's sub menu. The following sections provide a detailed description on each application and its function.

Writing a Memo

Create and store notes in Memo Pad. You can't prioritize or set an alert for stored notes. Return to Memo Pad anytime to review and edit your notes.

1. In Idle mode, press the **Menu** soft key to access menu mode.
2. Select **Games & Applications**. Highlight **Organizer** and press the **Select** soft key or the key.
3. Highlight **New Memo** and press the **Select** soft key or the key.
4. Add a new memo.
5. While entering a memo, press the right soft key **Options** to display a the following text entry modes:

- ABC Mode
- T9 Mode
- Symbolic
- Number
- Add Word
- Language Select

6. Highlight the text mode and press the **Select** soft key or the key.

7. When you're finished entering details for the memo, press the left soft key **OK**. The **Save to** sub menu appear in the display.
8. Highlight **Save to** option and press the **Select** soft key or the key. The calendar displays with today's date highlighted.
9. Using the Navigation key select a date and press the **Select** soft key or the key.
10. Using the keypad enter the **memo time** and press the **OK** soft key or the key.
11. Select **AM** or **PM,** press the **Select** soft key or the key. The **Alarm Time** screen appear in the display.
12. Press the **Yes** soft key to set alarm.

    Press the **No** soft key to save memo.
13. Using the keypad enter the Alarm time and press the **OK** soft key or the key
14. Select **AM** or **PM,** press the **Select** soft key or the key. The Alarm Tone screen displays.
15. Using the Navigation key scroll alarm tones.
16. Select alarm tone using the **Select** soft key or the key.

Using Memo Pad Options

You can access the following options by pressing the **Options** soft key:

- Add: allows you to add a memo.
- Delete: deletes a memo.

- Edit: allows you to edit the content of your memo.
- Move: allows you to move a memo.
- Copy: allows you to copy a memo.

Using the Calendar

1. In Idle mode, press the **Menu** soft key to access menu mode.
2. Select **Games & Applications**. Highlight **Organizer** and press the **Select** soft key or the key.
3. Highlight **Calendar** and press the **Select** soft key or the key. The calendar displays with today's date highlighted.
4. Scroll to a date on the calendar by pressing the Navigation key and the **Select** soft key or the key.

   Alternatively, press the **Options** soft key and select **Go to Date**. You can enter manually a specific date and press the **OK** soft key or the key.

   An empty memo screen displays allowing you to enter your memo.
5. While entering your memo, press the right soft key **Options** to display a pop-up menu with the following text entry modes:
   - ABC Mode
   - T9 Mode
   - Symbolic
   - Number
   - Add Word
   - Language Select

6. Highlight the text mode and press the **Select** soft key or the key.
7. When you’re finished entering details for the memo, press the left soft key **OK**. The **Save to** sub menu appear in the display.
   - Scheduler
   - To Do List
   - Call
   - Anniversary
8. Highlight **Save to** option and press the **Select** soft key or the key.
9. Using the keypad enter the **memo time** and press the **OK** soft key or the key.
10. Select **AM** or **PM,** press the **Select** soft key or the key. The **Alarm Time** screen appear in the display.

    The color of the date on the calendar changes to blue to indicate that a memo exist for that date.
11. If you want an alarm to ring on the chose day press the **Yes** soft key or the key to set alarm. If not, Press the **No** soft key. The memo is saved.
12. Using the keypad enter the Alarm time and press the **OK** soft key or the key
13. Select **AM** or **PM,** and press the **Select** soft key or the key. The **Alarm Tone** screen displays.
14. Using the Navigation key scroll through alarm tones.
15. Select alarm tone using the **Select** soft key or the key.

16. When you have finished, press the key.

Consulting the Calendar

Viewing Memos on the Selected Date

1. In Idle mode, press the **Menu** soft key to access menu mode.
2. Select **Games & Applications**. Highlight **Organizer** and press the **Select** soft key or the key.
3. Highlight **Calendar** and press the **Select** soft key or the key. The calendar displays with today's date highlighted.
4. Select the date you want to view its memo(s).

   If there is more than one memo for that date, the latest memo displays
5. Press the Up or Down key to scroll to the previous or next memo

   If you want to make a new memo for that date, press the **Options** soft key.

- Add Memo: allows you to add new memo.
- Go to Date: allows you to go directly to a specified date. Enter the date using the keypad.
- View All: allows you to view all memos in the calendar.
- Delete Day: allows you to delete the memo for that day.
- Delete All: allows you to delete all memos in the calendar.

6. When you have finished, press the key.

Viewing All of the Memos on the Calendar

1. In Idle mode, press the **Menu** soft key to access menu

mode.

2. Select **Games & Applications**. Highlight **Organizer** and press the **Select** soft key or the key.
3. Highlight **Calendar** and press the **Select** soft key or the key. The calendar displays with today's date highlighted.
4. Press the **Options** soft key and select **View All.** The phone displays the latest memo. You can view all of the memos, starting with the oldest, regardless of the date.
5. To scroll through the memos, press the **Left** or **Right** Navigation key
6. When you have finished, press the key.

Deleting Memos

You can delete memos on the calendar one by one or all at one time.

1. In Idle mode, press the **Menu** soft key to access menu mode.
2. Select **Games & Applications**. Highlight **Organizer** and press the **Select** soft key or the key.
3. Highlight **Calendar** and press the **Select** soft key or the key. The calendar displays with today's date highlighted.
4. Select the date you want to view its memo(s),

   If there is more than one memo for that date, the latest memo displays.
5. Press the **Left** or **Right** Navigation key to scroll to the previous or next memo.

6. Press the **Options** soft key and select **Delete**.
7. Press the **Yes** soft key to confirm deletion.
8. When you have finished, press the key.

Deleting All Memos

1. In Idle mode, press the **Menu** soft key to access menu mode.
2. Select **Games & Applications**. Highlight **Organizer** and press the **Select** soft key or the key.
3. Highlight **Calendar** and press the **Select** soft key or the key. The calendar displays with today's date highlighted.
4. Press the **Options** soft key and select **Delete All**.
5. Press the **Yes** soft key to confirm deletion.
6. When you have finished, press the key.

Using the To Do List

The To Do List allows you to

- enter a list of task to be done
- assign a priority and a deadline to each task
- sort the tasks by priority and status

Creating a To Do List

1. In Idle mode, press the **Menu** soft key to access menu mode.
2. Select **Games & Applications**. Highlight **Organizer** and press the **Select** soft key or the key.

3. Highlight **To Do List** and press the **Select** soft key or the key. You're prompted to add a new memo.
4. While entering a memo, press the right soft key **Options** to display a pop-up menu with the following text entry modes
   - ABC Mode
   - T9 Mode
   - Symbolic
   - Number
   - Add Word
   - Language Select
5. Highlight the text mode and press the **Select** soft key or the key.
6. When you're finished entering details for the memo, press the **OK** soft key. The **Calendar** displays.
7. Using the Navigation key select a date and press the **Select** soft key or the key.
8. Using the keypad enter the **memo time** and press the **OK** soft key or the key.
9. Select **AM** or **PM,** press the **Select** soft key or the key. The **Alarm Time** screen appear in the display.
10. Press the **Yes** soft key to set alarm.

    Press the **No** soft key to save memo.
11. Using the keypad enter the Alarm time and press the **OK** soft key or the key
12. Select **AM** or **PM,** press the **Select** soft key or the key. The Alarm Tone screen displays.

13. Using the navigation key scroll alarm tones.
14. Select alarm tone using the **Select** soft key or the key.

Adding Tasks to the To Do List

1. In Idle mode, press the **Menu** soft key to access menu mode.
2. Select **Games & Applications**. Highlight **Organizer** and press the **Select** soft key or the key.
3. Highlight **To Do List** and press the **Select** soft key or the key.
4. Press the **Options** soft key and Select **Add**. Continue using steps in "Creating a To Do List" on page 133.

Viewing the To Do List

1. In Idle mode, press the **Menu** soft key to access menu mode.
2. Select **Games & Applications**. Highlight **Organizer** and press the **Select** soft key or the key.
3. Highlight **To Do List** and press the **Select** soft key or the key. The tasks displays.
4. You can scroll through the task using the **Up** and **Down** Navigation key, if necessary.
5. When you have finished, press the key.

Using To Do List Options

You can access the following options by pressing the **Options** soft key

- Add: allows you to add a new task

- Mark: allows you to change the status of a task. Select appropriate status (**Done** or **Undo**)
- Edit: allows you to edit a task. You can change the text priority, and/or deadline for the task.
- Move: allows you to move a task.
- Copy: allows you to copy a task.
- Delete: deletes a task.
- Delete All: allows you to delete all tasks.

Using the Calculator

You can use the phone as a calculator. The calculator provides basic arithmetic functions: addition, subtraction, multiplication, and division using your phone.

1. In Idle mode, press the **Menu** soft key to access menu mode.
2. Select **Games & Applications**. Highlight **Calculator** and press the **Select** soft key or the key.
3. Enter the first number in your equation using the keypad.

- Press the to enter a decimal point
- Press the to set the type of calculation you that you wish to perform. Your choices are as follows
  - [+] Addition
  - [-] Subtraction
  - [x] Multiplication
  - [÷] Division
  - [%] Percentage
  - [( ] Open Parenthesis

- [ )] Closed Parenthesis

4. Use the keypad to enter the second number into your equation.
5. Press the **Equal** soft key or the key to perform the operation and view your results in the **Answer** field of the **Calculator** screen.
6. Repeat steps 3 to 5 as many times as required.
7. When you have finished, press the key.

Record Audio

This menu allows you to record a new memo.

1. In Idle mode, press the **Menu** soft key to access menu mode.
2. Select **Games & Applications**. The following sub menu displays.
3. Highlight **Record Audio** and press the **Select** soft key or the key.
4. Highlight **Record** and press the **Select** soft key or the key. The following icons appear in the bottom of the display:
   - Record
   - Stop
   - Play
   - Rewind
   - Fast Forward
5. Press the **Select** soft key or the to start recording.

   Record a memo by speaking into the microphone.

6. When you press the **Select** soft key or the key to stop recording or the time expires. The audio is automatically saved and the play icon is highlighted in red.
7. Press the **Select** soft key or the key to play recording. During playback the following playback options are available.
   - Stop
   - Play
   - Rewind
   - Fast Forward
   - Pause
8. Press the **Options** soft key to display the following

- Send: allows you to send the recorded audio to other people by using the MMS feature. For details about sending a multimedia message, see "Creating and Sending a Multimedia Message" on page 89
- Rename: allows you to rename the recording.
- Delete: deletes the recording.
- Properties: displays detailed information about the recorded audio message such as name, size and format.

9. When you have finished, press the key.

Reviewing a Recorded Audio

1. In Idle mode, press the **Menu** soft key to access menu mode.
2. Select **Games & Applications**. The following sub menu displays.
3. Highlight **Record Audio** and press the **Select** soft key or the key.

4. Highlight **Recorded Audio** and press the **Select** soft key or the key. A list of recorded audios display.
5. Scroll to an audio file. Press the **Select** soft key or the key to play audio.
6. Press the **Options** soft key to display the following.

- Send: allows you to send the recorded audio to other people by using the MMS feature. For details about sending a multimedia message, see "Creating and Sending a Multimedia Message" on page 89
- Rename: allows you to rename the recording.
- Delete: deletes the recording.
- Properties: displays detailed information about the recorded audio message such as name, size and format.

7. When you have finished, press the key.

Deleting Recorded Audios

You can delete your recorded audios one by one or all at one time.

1. Access the **Recorded Audio** menu and select the audio file you want to delete.
2. Press the **Select** soft key or the key.
3. Press the **Options** soft key and then select **Delete**.
4. Press the **Yes** soft key or the key to confirm deletion.
5. When you have finished, press the key.

Delete All Recorded Audios

1. In Idle mode, press the **Menu** soft key to access menu mode.

2. Select **Games & Applications**. Highlight **Record Audio** and press the **Select** soft key or the key.
3. Scroll down using the Navigation key and highlight **Delete All** and press the **Select** soft key or the key.
4. Press the **Yes** soft key or the to confirm **Delete All**.
5. When you have finished, press the key.

Changing Record Audio Settings

You can change the default settings for using Record Audio.

1. In Idle mode, press the **Menu** soft key to access menu mode.
2. Select **Games & Applications**. Highlight **Record Audio** and press the **Select** soft key or the key.
3. Select **Settings** and press the **Select** soft key or the key.

   The following options are available:

- Recording Time: allows you to set recording time.
- Volume: allows you to set the sound volume.
- Default Name: allows you to set a default name for all recorded audio.

4. When you have finished, press the key.

Checking Memory Status

You can check the amount of memory being used and the memory remaining for voice memos.

The display shows you the total, used, and free memory, including the number of memos you stored and the total number of memos you can store.

1. In Idle mode, press the **Menu** soft key to access menu mode.
2. Select **Games & Applications**. Highlight **Record Audio** and press the **Select** soft key or the key.
3. Select **Memory Status**.

   This display show the Total, Used and Free memory amount for My MEdia, Games, and Multimedia Messages.
4. When you have finished, press the key.

Using Unit Conversion

You can use the phone as a unit converter. The unit converter provides basic conversion functions: length, weight, volume, area, and temperature.

1. In Idle mode, press the **Menu** soft key to access menu mode.
2. Select **Games & Applications**. Highlight **Unit Conversion** and press the **Select** soft key or the key. The unit conversion sub menu appear display.
   - Length
   - Weight
   - Volume
   - Area
   - Temperature

3. Use the Navigation key to highlight a conversion option and press the **Select** soft key or ⤧.
4. Enter the amount to convert. Use the Navigation key to select the conversion method.

Using the Timer

Timer allows you to view the amount of time between the current day and any event that you wish to schedule.

1. In Idle mode, press the **Menu** soft key to access menu mode.
2. Select **Games & Applications**. Highlight **Timer** and press the **Select** soft key or the ⤧ key. The **Timer** screen appear in the display.
3. Press the Set soft key to set timer.
4. Using the keypad enter the time and press the **OK** soft key.
5. Press the **Start** soft key to start timer.

   Press the **Stop** soft key to stop timer.

Stopwatch

You can use this menu to set a stop watch. Press the **OK** soft key to start the stopwatch. Press the **Reset** soft key to erase all stop watch times recorded.

World Time

World Time allows you to view the time of day or night in any part of the world.

1. In Idle mode, press the **Menu** soft key to access menu mode.

2. Select **Games & Applications**. Highlight **World Time** and press the **Select** soft key or the key.
3. Use the Navigation key to display the city (or cities), date, and time that you wish to view. The following cities are supported.
   - Chicago
   - New York
   - Caracas
   - Rio
   - GMT
   - London
   - Paris
   - Cairo
   - Moscow
   - Dubai
   - Karachi
   - Delhi
   - Dacca
   - Bangkok
   - Beijing/H.K.
   - Seoul
   - Sydney
   - Noumea
   - Wellington
   - Honolulu
   - Anchorage
   - LA
   - Denver

Section 11: Network Services

Topics Covered

- Network Services
- Call Forwarding
- Call Waiting
- Network Selection
- Caller ID

This section allows set up the network functions supported by your carrier. Some of these services may not be available due to coverage area or service plans. If you have any questions, please contact the Customer Support center.

Network Services

You can customize the settings for network features, such as call forwarding, and call waiting.

1. In Idle mode, press the **Menu** soft key to access Menu mode.
2. Select **Settings** and highlight **Network Services**. Press the **Select** soft key or the key.
3. Select a menu and then change the setting. If the menu has submenus, repeat as necessary.
4. When you have finished, press the key

Call Forwarding

This network service enables incoming calls to be rerouted to the number that you specify.

For example, you may wish to forward your business calls to a colleague while you are on vacation.

1. From the **Network Services** menu screen, select **Call Forwarding** and press the **Select** soft key or the key.
2. Select one of the following call forwarding options.

- Forward Always: all calls are forwarded
- Busy: calls are forwarded when you are already on another call
- No Reply: calls are forwarded when you do not answer the phone.
- Unreachable: calls are forwarded when you are not in an area covered by your service provider or when your phone is switched off.
- Cancel All: all call forwarding options are canceled.

3. Select the type of calls, **Voice Calls** or **Data Calls**. The current status displays. If the option has already been set, the number to which the calls are forwarded displays.
4. Press the **Activate** soft key or the key.
5. Using the keypad enter the forwarding number and press the **OK** soft key or the key.

Call Waiting

This network service informs you when someone is trying to reach you during another call. You can specify individual call waiting options for voice calls and/or data calls.

Setting Call Waiting Options

1. From the Network Services menu screen, select **Call Waiting**.
2. Select the type of calls, **Voice Calls** or **Data Calls**. The screen informs you whether call waiting is activated or deactivated.
3. Press the **Activate** soft key or the key to activate the call waiting feature.
4. The phone sends your settings to the network and the network's acknowledgement displays.

Deactivating Call Waiting Settings

1. From the Network Services menu screen, select **Call Waiting**.
2. Select the type of calls, **Voice Calls** or **Data Calls**. The screen informs you whether call waiting is activated or deactivated.

   Select **Cancel All** to cancel all call waiting options.
3. Press the **Deactivate** soft key or the key.
4. The phone sends your settings to the network and the network's acknowledgement displays.

Network Selection

The Network Selection feature enables you to automatically or manually select the network used when roaming outside of your home area.

Note: You can select a network other than your home network only if there is a valid roaming agreement between the two.

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1. From the Network Services menu screen, select **Network Selection**.
2. Select the options you want.

   If you select **Automatic**, you are connected to the first available network when roaming.

   If you select **Manual**, go to step 3.
3. Select the network you want. The phone will scan for that network and you will be connected.

Caller ID

You can prevent your phone number from being displayed on the phone of the person you are calling.

Note: Some networks do not allow you to change this setting.

The following options are available:

- Default: the default setting provided by the network is used.
- Hide Number: you number does not display on the other person's phone.
- Send Number: your number is sent each time you make a call.

Section 12: Games

Topics Covered

- Shop Games
- My Games
- Settings
- Memory Status

This section outlines the available gaming options and accessories for your phone. For more information, contact your service provider.

Shop Games

Your phone is equipped with a WAP (Wireless Application Protocol) browser to allow you to access and navigate the Wireless Web using your phone. For more information, see 'Section 9: WAP" on page 113

You can download MIDlets (Java applications that run on mobile phones) from various sources using the WAP browser and store them in your phone. When you access the Games menu, the list of default games appears. Once you have downloaded games, they are added to the list.

Note: Java services may not be available, depending on your service plan and phone model.

My Games

My Games stores all downloaded games.

Settings

You can customize the profiles containing the settings for connecting your phone to the network. These settings are also used for the WAP browser or Instant Messenger, or sending Multimedia messages or Emails.

- APN: enter the access point name used for the address of the network.
- Login ID: enter the user ID required to connect to the network.
- Password: enter the password required to connect to the network.
- DNS Settings: enter the DNS (Domain Name System) address.

Memory Status

You can check the amount of memory being used and memory remaining for games, multimedia messages, and My MEdia.

Section 13: Health and Safety Information

Topics Covered

- Health and Safety Information

This section outlines the safety precautions associated with using your phone. These safety precautions should be followed to safety use your phone.

Health and Safety Information

Exposure to Radio Frequency (RF) Signals

Certification Information (SAR)

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the exposure limits for radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. government. These FCC exposure limits are derived from the recommendations of two expert organizations, the National Counsel on Radiation Protection and Measurement (NCRP) and the Institute of Electrical and Electronics Engineers (IEEE). In both cases, the recommendations were developed by scientific and engineering experts drawn from industry, government, and academia after extensive reviews of the scientific literature related to the biological effects of RF energy.

The exposure limit set by the FCC for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR is a measure of the rate of absorption of RF energy by the human body expressed in units of watts per kilogram (W/kg). The FCC requires wireless phones to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg). The FCC exposure limit incorporates a substantial margin of safety to give additional protection to the public and to account for any variations in measurements.

SAR tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC. Tests for each model phone are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC. Body-worn operations are restricted to Samsung-supplied, approved, or non-Samsung designated accessories that have no metal and must provide at least 1.5 cm separation between the device, including its antenna (whether extended or retracted) and the user's body. Non-compliance with the above restrictions may result in violation of FCC RF exposure guidelines.

The FCC has granted an Equipment Authorization for this mobile phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. The maximum SAR values for this model phone as reported to the FCC are :(FCC ID : A3LSGHX497)

- Head: 1.4 W/Kg, Body-worn:1.42 W/Kg in GSM 850.
- Head: 0.510 W/Kg, Body-worn: 0.295 W/Kg in GSM 1900.

SAR information on this and other model phones can be viewed on-line at www.fcc.gov/oet/fccid. To find information that pertains to a particular model phone, this site uses the phone FCC ID number which is usually printed somewhere on the case of the phone. Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular phone. Additional product specific SAR information can also be obtained at www.fcc.gov/cgb/sar.

Consumer Information on Wireless Phones

The U.S. Food and Drug Administration (FDA) has published a series of Questions and Answers for consumers relating to radio frequency (RF) exposure from wireless phones. The FDA publication includes the following information:

What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called "cell," "mobile," or "PCS" phones. These types of wireless phones can expose the user to measurable radio frequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety

agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures well within the FCC's compliance limits.

Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs

or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radio frequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- "Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- "Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- "Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- "National Institute for Occupational Safety and Health
- "Environmental Protection Agency
- "Federal Communications Commission
- "Occupational Safety and Health Administration
- "National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the primary subject of the safety questions discussed in this document.

What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radio frequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in absence of RF exposure. Other studies exposed the animals to RF for up

to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phones RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but ten or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in

measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radio frequency energy (RF).

FDA has been a leading participant in the World Health Organization international Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

What steps can I take to reduce my exposure to radio frequency energy from my wireless phone?

If there is a risk from these products - and at this point we do not know that there is - it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

- "If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

Do hands-free kits for wireless phones reduce risks from exposure to RF emissions?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the absorption of RF energy in the head because the phone, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones marketed in the U.S. are required to meet safety requirements regardless of whether they are used against the head or against the body. Either configuration should result in compliance with the safety limit.

Do wireless phone accessories that claim to shield the head from RF radiation work?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to

believe that accessories that claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone. Studies have shown that these products generally do not work as advertised. Unlike "hand-free" kits, these so-called "shields" may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption. In February 2002, the Federal trade Commission (FTC) charged two companies that sold devices that claimed to protect wireless phone users from radiation with making false and unsubstantiated claims. According to FTC, these defendants lacked a reasonable basis to substantiate their claim.

What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested wireless phones and helped develop a

voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a compatible hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations:

- FCC RF Safety Program:
  http://www.fcc.gov/oet/rfsafety/
- Environmental Protection Agency (EPA):
  http://www.epa.gov/radiation/
- Occupational Safety and Health Administration's (OSHA):
  http://www.osha.slc.gov/SLTC/radiofrequencyradiation/index.html
- National institute for Occupational Safety and Health (NIOSH):
  http://www.cdc.gov/niosh/emfpg.html
- World health Organization (WHO):
  http://www.who.int/peh-emf/
- International Commission on Non-Ionizing Radiation Protection:
  http://www.icnirp.de
- National Radiation Protection Board (UK):
  http://www.nrpb.org.uk

- Updated 4/3/2002: US food and Drug Administration http://www.fda.gov/cellphones

Road Safety

Your wireless phone gives you the powerful ability to communicate by voice, almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless phones, one that every user must uphold.

When driving a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

1. Get to know your wireless phone and its features, such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.
2. When available, use a hands-free device. If possible, add an additional layer of convenience and safety to your wireless phone with one of the many hands free accessories available today.
3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.
4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.

5. Do not take notes or look up phone numbers while driving. Jotting down a "to do" list or flipping through your address book takes attention away from your primary responsibility, driving safely.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.
7. Do not engage in stressful or emotional conversations that may be distracting. Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Dial 9-1-1 or other local emergeny number in the case of fire, traffic accident or medical emergencies. Remember, it is a free call on your wireless phone!
9. Use your wireless phone to help others in emergencies. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special non-emergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no

one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency number.

"The wireless industry reminds you to use your phone safely when driving."

For more information, please call 1-888-901-SAFE, or visit our web-site www.wow-com.com

Provided by the Cellular Telecommunications & Internet Association

Operating Environment

Remember to follow any special regulations in force in any area

and always switch your phone off whenever it is forbidden to use it, or when it may cause interference or danger. When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and

for the safety of personnel, it is recommended that the equipment should only be used in the normal operating position (held to your ear with the antenna pointing over your shoulder).

Using Your Phone Near Other Electronic Devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals

from your wireless phone. Consult the manufacturer to discuss alternatives.

Pacemakers

Pacemaker manufacturers recommend that a minimum distance of 15 cm (6 inches) be maintained between a wireless phone and a pacemaker to avoid potential interference with the pacemaker.

These recommendations are consistent with the independent research and recommendations of Wireless Technology Research.

Persons with pacemakers:

- should always keep the phone more than 15 cm (6 inches) from their pacemaker when the phone is switched on.
- should not carry the phone in a breast pocket.
- should use the ear opposite the pacemaker to minimize potential interference.

If you have any reason to suspect that interference is taking place, switch your phone off immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may wish to consult your hearing aid manufacturer to discuss alternatives.

Other Medical Devices

If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this

information. Switch your phone off in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Switch your phone off in any facility where posted notices require you to do so.

Potentially Explosive Environments

Switch your phone off when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Users are advised to switch the phone off while at a refueling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots

(fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include below deck

on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

Emergency Calls

This phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as user-programmed functions, which cannot guarantee connection in all conditions. Therefore, you should never rely solely on any wireless phone for essential communications (medical emergencies, for example).

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate signal strength. Emergency calls may not be possible on all wireless phone networks or when certain network services and/or phone features are in use. Check with local service providers.

To make an emergency call:

1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
3. Press the key.

If certain features are in use (call barring, for example), you may

first need to deactivate those features before you can make an emergency call. Consult this document and your local cellular service provider.

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

Restricting Children's access to your Phone

Your phone is not a toy. Children should not be allowed to play

with it because they could hurt themselves and others, damage the phone or make calls that increase your phone bill.

FCC Notice and Cautions

FCC Notice

The phone may cause TV or radio interference if used in close proximity to receiving equipment. The FCC can require you to stop using the phone if such interference cannot be eliminated.

Vehicles using liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association, One Batterymarch Park, Quincy, MA 02269, Attn: Publication Sales Division.

Cautions

Any changes or modifications to your phone not expressly approved in this document could void your warranty for this equipment, and void your authority to operate this equipment. Only use approved batteries, antennas and chargers. The use of any unauthorized accessories may be dangerous and void the phone warranty if said accessories cause damage or a defect to the phone.

Although your phone is quite sturdy, it is a complex piece of equipment and can be broken. Avoid dropping, hitting, bending or sitting on it.

Other Important Safety Information

- Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.
- For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.
- Switch your phone off before boarding an aircraft. The use of wireless phone in aircraft is illegal and may be dangerous to the aircraft's operation.

- Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

Product Performance

Getting the Most Out of Your Signal Reception

The quality of each call you make or receive depends on the signal strength in your area. Your phone informs you of the current signal strength by displaying a number of bars next to the signal strength icon. The more bars displayed, the stronger the signal.

If you're inside a building, being near a window may give you better reception.

Understanding the Power Save Feature

If your phone is unable to find a signal after 15 minutes of searching, a Power Save feature is automatically activated. If your phone is active, it periodically rechecks service availability or you can check it yourself by pressing any key.

Anytime the Power Save feature is activated, a message displays on the screen. When a signal is found, your phone returns to standby mode.

Understanding How Your Phone Operates

Your phone is basically a radio transmitter and receiver. When it's turned on, it receives and transmits radio frequency (RF) signals. When you use your phone, the system handling your call controls the power level. This power can range from 0.006 watts to 0.2 watts in digital mode.

Maintaining Your Phone's Peak Performance

For the best care of your phone, only authorized personnel should service your phone and accessories. Faulty service may void the warranty.

There are several simple guidelines to operating your phone properly and maintaining safe, satisfactory service.

- Hold the phone with the antenna raised, fully-extended and over your shoulder.
- Try not to hold, bend or twist the phone's antenna.
- Don't use the phone if the antenna is damaged.
- Speak directly into the phone's receiver.
- Avoid exposing your phone and accessories to rain or liquid spills. If your phone does get wet, immediately turn the power off and remove the battery. If it is inoperable, call Customer Care for service.

Availability of Various Features/Ring Tones

Many services and features are network dependent and may require additional subscription and/or usage charges. Not all features are available for purchase or use in all areas. Downloadable Ring Tones may be available at an additional cost. Other conditions and restrictions may apply. See your service provider for additional information.

Battery Standby and Talk Time

Standby and talk times will vary depending on phone usage patterns and conditions. Battery power

consumption depends on factors such as network configuration, signal strength, operating temperature, features selected, frequency of calls, and voice, data, and other application usage patterns.

Battery Precautions

- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the phone near the network's base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Battery charging time depends on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.
- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and lifetime of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).

- Do not short-circuit the battery. Accidental short- circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and - terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.
- Dispose of used batteries in accordance with local regulations. In some areas, the disposal of batteries in household or business trash may be prohibited. For safe disposal options for Li-ion batteries, contact your nearest Samsung authorized service center. Always recycle. Do not dispose of batteries in a fire.

Care and Maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you fulfill any warranty obligations and allow you to enjoy this product for many years

- Keep the phone and all its parts and accessories out of the reach of small children's.
- Keep the phone dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.
- Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.
- Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.

- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove or a radiator. The phone may explode when overheated.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

Section 14: Warranty Information

Topics Covered

- Standard Limited Warranty

Standard Limited Warranty

What is Covered and For How Long? SAMSUNG TELECOMMUNICATIONS AMERICA, L.P. ("SAMSUNG") warrants to the original purchaser ("Purchaser") that SAMSUNG's Phones and accessories ("Products") are free from defects in material and workmanship under normal use and service for the period commencing upon the date of purchase and continuing for the following specified period of time after that date:

Phone	1 Year
Batteries	1 Year
Leather Case/ Pouch	90 Days
Holster	90 Days
Other Phone Accessories	1 Year

What is Not Covered? This Limited Warranty is conditioned upon proper use of Product by Purchaser. This Limited Warranty does not cover: (a) defects or damage resulting from accident, misuse, abuse, neglect, unusual physical, electrical or electromechanical stress, or modification of any part of Product, including antenna, or cosmetic damage; (b) equipment that has the serial number removed or made illegible; (c) any plastic surfaces or other externally exposed parts that are scratched or damaged due to normal use; (d) malfunctions resulting from the use of Product in conjunction with accessories,

products, or ancillary/peripheral equipment not furnished or approved by SAMSUNG; (e) defects or damage from improper testing, operation, maintenance, installation, or adjustment; (f) installation, maintenance, and service of Product, or (g) Product used or purchased outside the United States or Canada. This Limited Warranty covers batteries only if battery capacity falls below 80% of rated capacity or the battery leaks, and this Limited Warranty does not cover any battery if (i) the battery has been charged by a battery charger not specified or approved by SAMSUNG for charging the battery, (ii) any of the seals on the battery are broken or show evidence of tampering, or (iii) the battery has been used in equipment other than the SAMSUNG phone for which it is specified.

What are SAMSUNG's Obligations? During the applicable warranty period, SAMSUNG will repair or replace, at SAMSUNG's sole option, without charge to Purchaser, any defective component part of Product. To obtain service under this Limited Warranty, Purchaser must return Product to an authorized phone service facility in an adequate container for shipping, accompanied by Purchaser's sales receipt or comparable substitute proof of sale showing the date of purchase, the serial number of Product and the sellers' name and address. To obtain assistance on where to deliver the Product, call Samsung Customer Care at 1-888-987-4357. Upon receipt, SAMSUNG will promptly repair or replace the defective Product. SAMSUNG may, at SAMSUNG's sole option, use rebuilt, reconditioned, or new parts or components when repairing any Product or replace Product with a rebuilt, reconditioned or new Product. Repaired/

replaced leather cases, pouches and holsters will be warranted for a period of ninety (90) days. All other repaired/replaced Product will be warranted for a period equal to the remainder of the original Limited Warranty on the original Product or for 90 days, whichever is longer. All replaced parts, components, boards and equipment shall become the property of SAMSUNG. If SAMSUNG determines that any Product is not covered by this Limited Warranty, Purchaser must pay all parts, shipping, and labor charges for the repair or return of such Product.

WHAT ARE THE LIMITS ON SAMSUNG'S WARRANTY/LIABILITY?

EXCEPT AS SET FORTH IN THE EXPRESS WARRANTY CONTAINED HEREIN, PURCHASER TAKES THE PRODUCT "AS IS," AND SAMSUNG MAKES NO WARRANTY OR REPRESENTATION AND THERE ARE NO CONDITIONS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, OF ANY KIND WHATSOEVER WITH RESPECT TO THE PRODUCT, INCLUDING BUT NOT LIMITED TO:

- "THE MERCHANTABILITY OF THE PRODUCT OR ITS FITNESS FOR ANY PARTICULAR PURPOSE OR USE;
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- "DESIGN, CONDITION, QUALITY, OR PERFORMANCE OF THE PRODUCT;
- "THE WORKMANSHIP OF THE PRODUCT OR THE COMPONENTS CONTAINED THEREIN; OR
- "COMPLIANCE OF THE PRODUCT WITH THE REQUIREMENTS OF ANY LAW, RULE, SPECIFICATION OR CONTRACT PERTAINING THERETO.

NOTHING CONTAINED IN THE INSTRUCTION MANUAL SHALL BE CONSTRUED TO CREATE AN EXPRESS WARRANTY OF ANY KIND WHATSOEVER WITH RESPECT TO THE PRODUCT. ALL IMPLIED WARRANTIES AND CONDITIONS THAT MAY ARISE BY OPERATION OF LAW, INCLUDING IF APPLICABLE THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY LIMITED TO THE SAME DURATION OF TIME AS THE EXPRESS WRITTEN WARRANTY STATED HEREIN. SOME STATES/PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. IN ADDITION, SAMSUNG SHALL NOT BE LIABLE FOR ANY DAMAGES OF ANY KIND

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This Limited Warranty allocates risk of Product failure between Purchaser and SAMSUNG, and SAMSUNG's Product pricing reflects this allocation of risk and the limitations of liability contained in this Limited Warranty. The agents, employees, distributors, and dealers of SAMSUNG are not authorized to make modifications to this Limited Warranty, or make additional warranties binding on SAMSUNG. Accordingly, additional statements such as dealer advertising or presentation, whether oral or written, do not constitute warranties by SAMSUNG and should not be relied upon.

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