Chapter 8

Internet

8.1 Ways of Connecting to the Internet

Your device's networking capabilities allow you to access the Internet or your corporate network at work through one of the following connections:

- Wi-Fi
- GPRS or EDGE
- Dial-up

Note   You can also add and set up the following connections:

- **VPN:** A VPN connection is used to access your corporate network by using an existing Internet connection.
- **Proxy:** A Proxy connection is used to access the Internet using an existing connection to your corporate or WAP network.

Wi-Fi

Wi-Fi provides wireless Internet access over distances of up to 300 feet (100 meters).

To use Wi-Fi on your device, you need access to a wireless access point or "hotspot".

Note   The availability and range of your device's Wi-Fi signal depends on the number, infrastructure, and other objects through which the signal passes.

To turn Wi-Fi on and off

1. On the Home screen, slide to the **Settings** tab.
2. On the Settings screen, tap **Communications** > **Wi-Fi** to enable/disable the wireless function.

   When enabled, the **On** indicator is activated and available wireless networks will be detected.

To connect to a wireless network

After Wi-Fi is turned on, your device scans for available wireless networks in your area.

1. The network names of the detected wireless networks are displayed on a pop-up message window. Tap the desired wireless network, then tap **OK**.

> **Note** When you select an open (unsecured) network, you will be automatically connected to the network after tapping **OK**. You do not need to do steps 2 and 3.
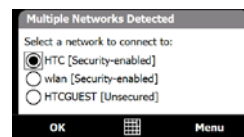
2. On the next pop-up message window, do one of the following:

- Tap **The Internet** if the wireless network connects your device to the Internet.

- Tap **Work** if the wireless network connects your device to a private network.

3. Enter the key and then tap **Connect**.

Next time you use your device to detect wireless networks, you will not see the pop-up message windows again, and you will not be prompted to enter the network key of the previously accessed wireless network (unless you perform a hard reset which will erase custom settings on your device).

Note Wi-Fi networks are self-discoverable, which means no additional steps are required for your device to connect to a Wi-Fi network. It may be necessary to provide a username and password for certain closed wireless networks.

To check wireless network status

You can check the current wireless connection status from any of the following screens of your device:

- **Title bar**.

  When you enable Wi-Fi on your device, the Wi-Fi ON icon ⚑ appears on the title bar.

  After Wi-Fi is turned on, your device scans for available wireless networks and the wireless signal icon ⚑⇄ appears on the title bar. The arrows in this icon move back and forth while your device is scanning for a wireless network signal. Once your device successfully connects to a wireless network, the arrows stop moving.

- **Wireless LAN screen**.

  On the Home screen, slide to the **Settings** tab and then tap **Menu > Wireless Network**. On the **Main** tab, you will see the wireless network that your device is currently connected to.

  The configuration and signal quality of the wireless network are also shown.
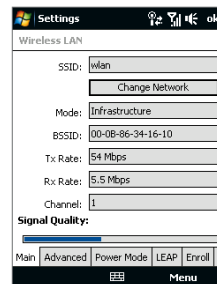
- **Configure Wireless Networks screen**.

  On the Home screen, slide to the **Settings** tab and then tap **All Settings**. In the **Connections** tab, tap **Wi-Fi**. This screen displays the wireless networks currently available.

  To connect to a wireless network in the list, tap and hold on the desired network, then tap **Connect**. Tap a wireless network in the list to view or change its connection settings.

 You can also add new wireless networks, if available, by tapping **Add New**.
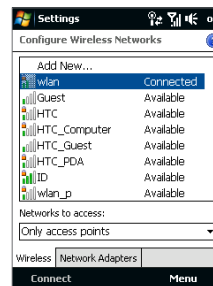
To save battery power while connected to a wireless network
Using Wi-Fi quickly consumes battery power. Turn off Wi-Fi when not in use. You can also enable power saving settings.

1. On the Home screen, slide to the **Settings** tab.

2. On the Settings screen, tap **Menu > Wireless Network > Power Mode** tab.

3. On the **Power Mode** tab, move the **Power Save Mode** slider to a position that optimizes performance with the least power consumption.

    For example, move the slider to the left (Best Performance) to have the optimal wireless network performance; move to the right (Best Battery) to obtain the maximum battery usage.
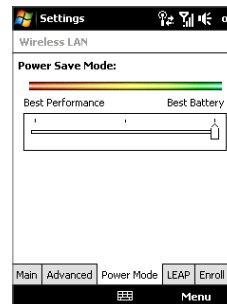
GPRS

Use **GPRS** (or **EDGE**, if available) to connect to the Internet and to send and receive e-mail and picture messages on your device. You will need a data plan to use your wireless service provider's GPRS network. Check with your wireless service provider to find out about GPRS rates.

GPRS settings are already preconfigured on your device, and your device is ready to use your wireless service provider's GPRS services. Do not change the settings as this may cause services to stop working.

To add a new GPRS connection

When you need to add another GPRS connection on your device, obtain the **Access point name** from your wireless service provider. Also, check if the GPRS network requires a user name and password.

1. On the Home screen, slide to the **Settings** tab and then tap **All Settings**.

2. On the **Connections** tab, tap **Connections**.

3. In **My ISP**, tap **Add a new modem connection**.

4. On the Make New Connection screen, enter a name for the connection.

5. In the **Select a modem** list, select **Cellular Line (GPRS)**, then tap **Next**.
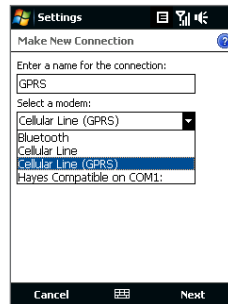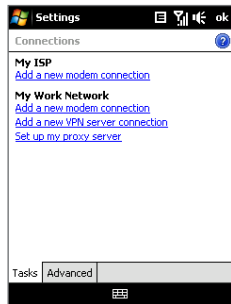
6. Enter the Access point name, then tap **Next**.

7. Enter the user name and password, if required, then tap **Finish**.

Notes • To view help information for any screen, tap the help icon (?).

• To modify your connection settings, tap **Manage existing connections** and then tap **Edit**.

Dial-up

To set up a dial-up connection to your Internet Service Provider (ISP) on your device, you need the same settings that you normally use when you dial up from your computer. This includes the ISP server phone number, your user name and password.

1. On the Home screen, slide to the **Settings** tab and then tap **All Settings**.

2. On the **Connections** tab, tap **Connections**.

3. In **My ISP**, tap **Add a new modem connection**.

4. In the **Select a modem** list, select **Cellular Line**, then tap **Next**.

5. Enter the ISP server phone number, then tap **Next**.

6. Enter your user name, password, and any other information required by your ISP, then tap **Finish**.

8.2 Starting a Data Connection

After setting up a data connection such as GPRS or ISP dial-up on your device, you can now connect your device to the Internet. The connection is started automatically when you begin using a program that accesses the Internet such as Opera Mobile.

To manually start a data connection

If you have set up multiple types of data connections on your device, you can manually start a connection.

1. On the Home screen, slide to the **Settings** tab and then tap **All Settings**.

2. On the **Connections** tab, tap **Connections**.

3. Tap **Manage existing connections**.

4. Tap and hold the name of the desired connection, then tap **Connect**.

To disconnect active data connections

1. Tap **Start > Programs > Comm Manage**r.

2. Tap the **Data Connection** button.

8.3 Using Opera Mobile™

Opera Mobile™ is a full-featured Internet browser, optimized for use on your device.

Note   You can also use Internet Explorer® Mobile to browse the web. To open Internet Explorer Mobile, tap **Start > Internet Explorer**.
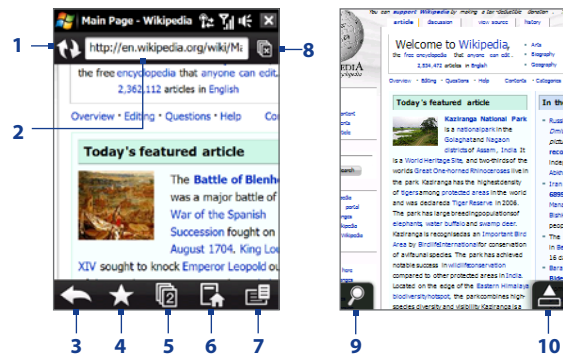
1 **Refresh**. Tap to reload the web page being viewed.

2 **Address bar**. Enter the URL of the web site here.

3 **Back**. Tap to go back to the previous web page viewed.

4 **Bookmarks**. Tap to go to the Bookmarks screen where you can add a bookmark, edit bookmarked web pages, and send the favorite URL link via one of the Messaging accounts.

5 **Tabs**. Tap to add a new browsing tab or switch to another existing browsing tab.

6 **Home**. Tap to go to the Home page.

7 **Menu**. Tap to open a list where you can change Opera Mobile settings, check downloads, view History, and more.

8 **Close tab**. Tap to close the current tab. This is only enabled if you have more than one tab opened.

9 **Zoom**. Tap to open the Zoom bar. See "Zoom in on web pages" for more details.

10 **Exit Full Screen mode**. When browsing the web, Opera Mobile automatically switches to Full screen mode. Tap to show the address and Menu bars again.

To open Opera Mobile

On the Home screen, slide to the **Internet** tab and then tap the globe image on the screen.

To go to a web site

1. On the Opera Mobile screen, tap the address bar.

2. Enter the URL address and tap ▶.
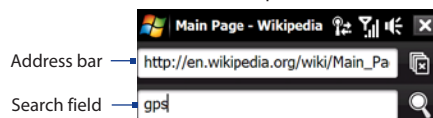
Tip When you tap the address bar, a search field also appears. Quickly search the web by entering the search item and tapping 🔍.

View web pages

While browsing web pages, use finger gestures to pan and zoom on the web page.

Tip   Touch and hold an empty area on a web page to open a shortcut menu that lets you go back to the previous page, reload the page, add the page as a Favorite, and more. You can also tap and hold a link or image on a web page to open a menu with different options.

Zoom in on web pages

Tap [icon] at the bottom-left of the screen while viewing the web page in full screen to open the Zoom bar. Tap and drag the circle on the Zoom bar to the right or left to zoom in or out of the web page.

Tip   You can also tap the screen twice to zoom in. To zoom out, tap the screen twice again.

Opera Mobile menu

On the menu bar, tap to open the menu.

Tap to open the Settings screen where you can set the default home page, change display settings, set privacy settings, and more.

Tap to view items being downloaded. You can also resume or stop current downloads.

Tap to view information about the Web page you are browsing.

Tap to see web pages that you have viewed.

Tap to manage and view web pages that you have saved.

Tap to open the Opera Mobile help file.

Tap to close Opera Mobile completely. Opera Mobile will not run in the background.

Note   For more information about using Opera Mobile, go to:
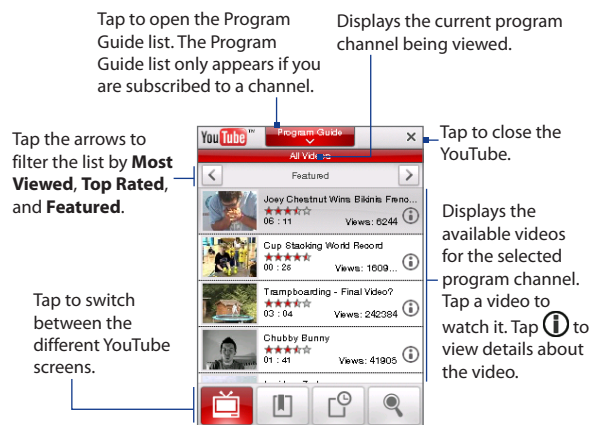http://www.opera.com/products/mobile/

8.4 Using YouTube™

YouTube™ lets you browse, search, and watch video clips from the YouTube server.

Note   You need an active connection to use YouTube. If you are using a GPRS connection, your data connection bill may increase significantly due to large file sizes of the videos.

To open YouTube
Tap **Start > Programs > YouTube**.

Tap to open the Program Guide list. The Program Guide list only appears if you are subscribed to a channel.

Displays the current program channel being viewed.

Tap the arrows to filter the list by **Most Viewed**, **Top Rated**, and **Featured**.

Tap to close the YouTube.

Displays the available videos for the selected program channel. Tap a video to watch it. Tap ⓘ to view details about the video.

Tap to switch between the different YouTube screens.

Browse for videos
The Program Guide list lets you change the program channel so you can browse different types of videos available on the YouTube server.

To add a new program channel into the Program Guide list

1. On the YouTube screen, tap 🔍 .

2. On the **Search** screen, enter the channel you want to add to the Program Guide list.

3. Tap **Search**. YouTube searches for the channel and then displays the available videos from it.

4. Tap [📺] and then on the confirmation screen, tap **OK**. The channel you just subscribed to will now be shown when you tap **Program Guide**.

Tip   You can also add a YouTube user as a program channel. To add, tap ⓘ in any of the YouTube screens and then tap [📺] .

To change the program channel

1. On the **Videos** screen, tap **Program Guide** at the top of the screen.

2. On the Program Guide list, select a channel.

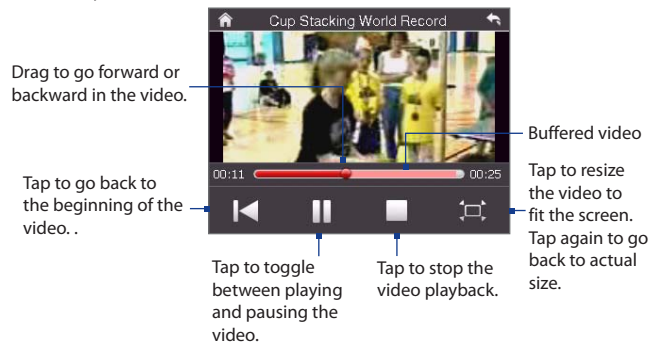3. The video list refreshes to display the available videos for the newly selected channel.

To delete a program channel from the Program Guide list

You can only delete program channels that you have added to the Program Guide list.

1. On the **Videos** screen, tap **Program Guide**.

2. Scroll down to the channel you want to delete and then tap ⊗.

3. On the confirmation screen, tap **Yes**.

Watching videos

On the Videos, Bookmarks, or History screen, tap a video to launch the YouTube Video Player.

Drag to go forward or backward in the video.

Buffered video

Tap to go back to the beginning of the video. .

Tap to resize the video to fit the screen. Tap again to go back to actual size.

Tap to toggle between playing and pausing the video.

Tap to stop the video playback.

Tip   To adjust the volume, press the VOLUME button on the side of the device.

Playback Controls

This control	Does this
ENTER	Toggle between playing and pausing video playback.
NAVIGATION right (Landscape orientation)	Press and hold to go forward in the video.
NAVIGATION left (Landscape orientation)	Press and hold to go back in the video
VOLUME button	Press to adjust the volume.

When you tap **Stop** ( ) or finish watching the entire video, you are presented with options on what you can do next.

Tap to go back to the previous page of related videos.

Tap to send the link to the video you just watched to another person using one of the Messaging accounts.

Tap to go to the next page of related videos. If no action is taken, it automatically goes to the next page after 10 seconds.

Tap to view details about the video you just watched.

Tap to add the video to your Bookmarks.

Tap to play back the video again.

Bookmarks

You can store frequently viewed videos into Bookmarks for quick access.
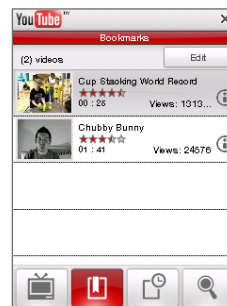
To view Bookmarks

On the YouTube screen, tap   . Tap a video to watch it.

To add a video into Bookmarks

Do one of the following:

- After watching a video, tap   .
- On the list of videos, tap ⓘ on the video you want to add to Bookmarks and then tap   .
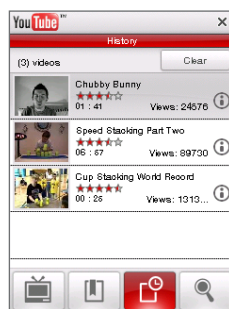
To delete a video from Bookmarks

1. On the **Bookmarks** screen, tap **Edit**.
2. Tap ⊗ on the video you want to remove from Bookmarks.
3. On the confirmation screen, tap **Yes**.
4. Tap **Done**.

History

View recently watched videos on the History screen.

To view History

On the YouTube screen, tap   . Tap a video to watch it.

Note   To clear the History list, tap **Clear**.

8.5 Using Streaming Media

Streaming Media lets you stream live broadcasts or on-demand media content from the web. The media is sent in a continuous stream to your device and is played as it arrives, along with the audio.
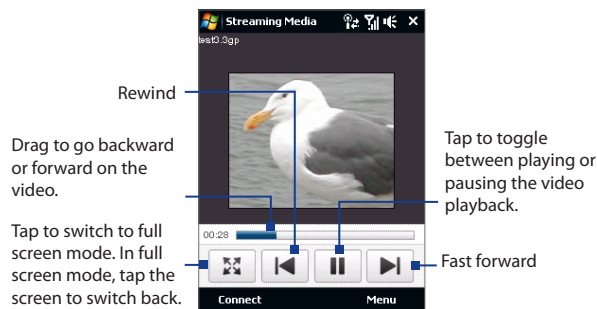
The Streaming Media program allows you to play **3GP** and **MPEG-4** files. It also supports playback of **SDP** (Session Description Protocol) files.

To access streaming content via Opera Mobile
In Opera Mobile, you can open a web page containing RTSP (Real Time Streaming Protocol) links to streaming media content then play the content in the Streaming Media program.

1. On the Home screen, slide to the **Internet** tab and tap **Browser**.

2. In the address bar, enter the URL address of the web page that contains the RTSP link to the desired *.3gp, *.mp4, or *.sdp file.

3. On the web page, tap the RTSP link.

4. Streaming Media then automatically opens and starts playing the file. During playback, use the button controls to play/pause, switch to full screen, rewind, and fast forward.

Rewind

Drag to go backward or forward on the video.

Tap to switch to full screen mode. In full screen mode, tap the screen to switch back.

Tap to toggle between playing or pausing the video playback.

Fast forward

To stream media files directly on the Streaming Media Player

Streaming Media only supports RTSP links when you stream *.3gp and *.mp4 files directly on the program.

Note Before you launch the Streaming Media program, make sure that you are connected to the Internet.

1. Tap **Start > Programs > Streaming Media**.

2. From the program, tap **Connect**.

3. Enter the URL for the web site (rtsp://) and the file name.

4. Tap **Connect**.

5. Streaming Media then starts playing the file. During playback, use the button controls to play/pause, switch to full screen, rewind, and fast forward.

To view streaming video information

Tap **Menu > Properties** to view the properties and general information of a streaming video clip, such as video codec, audio codec, dimension, frames, and duration of the video.

To configure streaming video connection settings

Tap **Menu > Options** to configure the following settings:

- **Playback tab**. Specify the memory space (in terms of duration) to allot for storing video and audio data while streaming media..
- **Networks tab**. Choose the connection to use and specify a range of port numbers to use for streaming.
- **Video tab**. Select the **Use Landscape mode when watching in full screen** check box to automatically switch to landscape mode when watching in full screen..

8.6 Using Windows Live™

Windows Live™ gives you a full Internet experience on your device. Windows Live™ helps you to find information, pursue your interests, and get in touch with friends and family on the Internet easier.

Windows Live™ offers the following key features:

- **Live Search Bar**, which lets you search for information on the web.
- **Live Messenger**, the next generation of MSN Messenger Mobile.
- **Live Mail**, the next generation of Hotmail.
- **Live Contacts**, your address book for storing Live Mail, Live Messenger and Hotmail contacts.

Set up Windows Live™

The first time you use Windows Live™, sign in using your Windows Live™ ID, which is your Windows Live™ Mail or Hotmail address, and password.

To set up Windows Live™ for the first time

1. Tap **Start > Programs > Windows Live** and then tap **Sign in to Windows Live**.

2. Tap the links to read the Windows Live™ Term of Use and the Microsoft Privacy Statement. After reviewing them, tap **Accept**.

3. Enter your Windows Live™ Mail or Hotmail address and password, select the **Save password** checkbox, then tap **Next**.

4. Tap **Next**.

5. Choose what information you want to sync online with your device.

   If you select **Store Windows Live contacts in your mobile phone's contact list**, your Windows Live™ contacts will be added to the contact list and to Windows Live™ Messenger on your device.
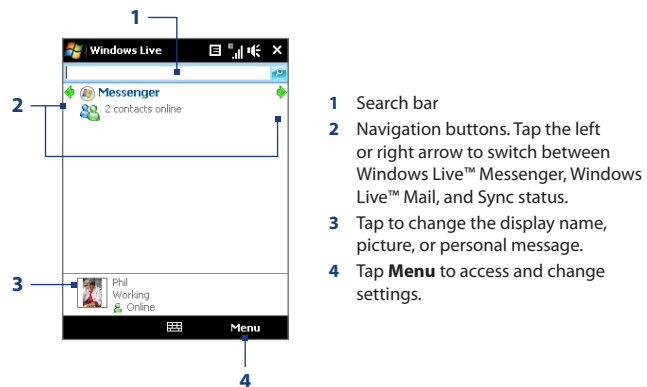
   If you select **Sync e-mail**, your Windows Live™ Mail or Hotmail inbox messages will be downloaded to your device.

6. Tap **Next**.

7. After synchronization is complete, tap **Done**.
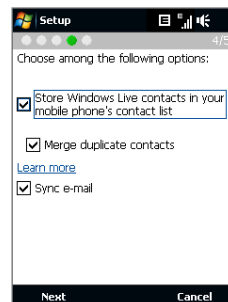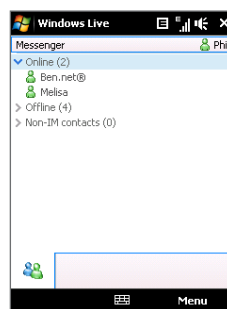
The Windows Live™ interface

On the Windows Live™ main screen, you will see a search bar, navigation buttons, and an area where you can show and customize your profile.

1   Search bar

2   Navigation buttons. Tap the left or right arrow to switch between Windows Live™ Messenger, Windows Live™ Mail, and Sync status.

3   Tap to change the display name, picture, or personal message.

4   Tap **Menu** to access and change settings.

Windows Live™ Messenger

With this mobile version of **Windows Live™ Messenger**, you enjoy many of the same cool features that you get from the desktop version, which include the following:

- Instant messaging via text and voice
- Multiple conversations
- Insert emoticons
- Contact list with presence
- Send and receive files including photos
- Change status/display name
- View contacts by online status, groups, and more
- Send messages even when a contact is offline

Note Before you can use Windows Live™ Messenger, your device must be connected to the Internet. For information about setting up an Internet connection, see "Ways of Connecting to the Internet" in this chapter.

Launch Messenger and sign in

To open Windows Live™ Messenger

Do one of the following:

- Tap **Start > Programs > Messenger**.
- On the Windows Live™ main screen, tap the left or right arrow until you see **Messenger**, then tap it.

To sign in and out

1. Tap **Sign in** on the Messenger screen.

2. If this is your first time to sign in, a message appears to inform you that your messenger contacts will be added to the contact list on your device. Tap **OK** to add them.

   Signing in may take several minutes, depending on your connection speed.

3. To sign out, tap **Menu > Sign Out**.

To start and end conversations

1. In the contact list, select a contact, then tap **Send IM** to open a message screen.
2. Enter your text message in the text entry area of the message screen.
3. To add an emoticon, tap **Menu > Add emoticon** then tap an icon from the list.
4. Tap **Send**.
5. To end a conversation with the current contact, tap **Menu > End conversation**.

Tips
- To send a file, tap **Menu > Send**. You can choose to send a picture, voice clip or any file.
- To invite one or more contacts to the conversation, tap **Menu > Options > Add participant**.
- To send a voice message, tap Voice Clip on a message screen then start talking. After you have recorded a message, tap **Send**.

Add Windows Live™ contacts

You can add new Windows Live™ contacts in Windows Live™ Messenger or in Contacts.

To add a Windows Live™ contact in Live Messenger

1. Tap **Menu > Add new contact**.
2. Enter the e-mail address of the contact, then tap **OK**.

To add a Windows Live™ contact in Contacts

1. On the Home screen, slide to the **People** tab and then tap **All People**.
2. Tap **New**, then tap **Windows Live**.
3. In the **IM** box, enter the e-mail address of the contact, which can be a Windows Live ID or any other e-mail address.

> **Tip** You can fill in other information about the contact, if desired. This is not necessary if you will communicate with the contact only through Windows Live™ Messenger or Live Mail.

4. Tap **OK**.

5. Follow the remaining instructions to add the new contact to your Windows Live™ contact list.

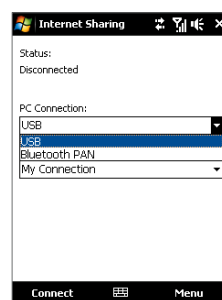## 8.7 Using Your Device as a Modem (Internet Sharing)

Internet Sharing connects your desktop or notebook computer to the Internet by using your device's data connection (GPRS or EDGE). You can choose to connect via USB or Bluetooth.

Notes
- Make sure your device has a SIM card installed, and your device has a GPRS or phone dial-up modem connection. If your device has not been set up with a data connection yet, tap **Menu > Connection Settings** on the Internet Sharing screen. For more information about setting up these connections, see "GPRS" and "Dial-up" in this chapter.
- If you want to use a USB cable connection, you must first install Windows Mobile Device Center or Microsoft ActiveSync version 4.5 or later on the computer.
- If you want to use a Bluetooth connection, make sure your computer has built-in Bluetooth capability. If your computer does not have Bluetooth, you can connect and use a Bluetooth adapter or dongle.

To set up your device as a USB modem

1. Connect your device to the computer using the USB cable.

2. On the device screen, select **Internet Sharing** and then tap **Done**.

3. In the **PC Connection** list, select **USB**.

4. In the **Network Connection** list, select the name of the connection that your device uses to connect to the Internet.

5. Tap **Connect**.

Tip   You can also access Internet Sharing by tapping **Start > Programs > Internet Sharing**.

To use your device as a Bluetooth modem

For the computer to use the Internet connection of your device, activate Internet Sharing on your device, then set up a Bluetooth Personal Area Network (PAN) between the computer and your device.

1. On your device, turn on Bluetooth and set it to visible mode by following the steps in "To turn Bluetooth on and make your device visible" section in Chapter 9.

2. Initiate a Bluetooth partnership from your device by following the steps in "To create a Bluetooth partnership"

3. Tap **Start > Programs > Internet Sharing**.

4. Select **Bluetooth PAN** as the **PC Connection**.

5. From the **Network Connection** list, select the name of the connection that your device uses to connect to the Internet.

6. Tap **Connect**.

7. On your computer, set up a Bluetooth Personal Area Network (PAN) with your device:

For Windows Vista:

a. Click **Start > Control Panel > Network and Internet > Network and Sharing Center**.

b. Click **Manage network connections** and then under **Personal Area Network**, double-click **Bluetooth Network Connection**.

c. In the Bluetooth Personal Area Network Devices dialog box, select your device, then click **Connect**.

For Windows XP:

a. Tap **Start > Control Panel > Network Connections**.

b. Under **Personal Area Network**, click the **Bluetooth Network Connection** icon.

c. Under **Network Tasks**, click **View Bluetooth network devices**.

d. In the Bluetooth Personal Area Network Devices dialog box, select your device, then click **Connect**.

Note If the Bluetooth adapter or dongle on your computer was installed using a third-party provided driver, open the Bluetooth software that came with the Bluetooth adapter/dongle to connect your computer and device via Bluetooth. Refer to the Bluetooth adapter/dongle documentation for more information.

8. On the Internet Sharing screen on your device, check if a connected status message is displayed, which indicates that your computer has been successfully connected to the Internet using your device as a Bluetooth modem.

To end the Internet connection
On the Internet Sharing screen, tap **Disconnect**.

8.8 Using RSS Hub

RSS Hub is an RSS reader that keeps you up-to-date with the latest news from the Internet. It monitors Internet news channels and downloads the most current news updates and podcasts so you are instantly informed of breaking news and events.

For more information and tips on using RSS Hub, see Help on your device.

Note   Make sure you have an active Internet connection (such as EDGE or GPRS) before using RSS Hub.

Subscribe to and organize news channels

You must subscribe to news channels before you can receive RSS feeds.

To subscribe to news channels

1. Tap **Start > Programs > RSS Hub**, then tap **Continue**.

2. In the New Channel Wizard screen, select the **Choose from a list of known Channels** option, then tap **Next**. A list of RSS channels is displayed.
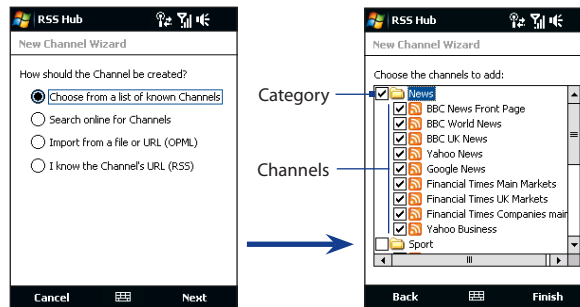
Tap to load pre-selected RSS channels.

Note   If the RSS channel you want to subscribe to is not in the list of known channels, tap Back, then select another option on the New Channel Wizard screen. For more information on these other options, see the Help on your device.

3. Select the checkboxes of the RSS channels you want to subscribe to, then tap **Finish**.

Tip   Channels are grouped by categories. If you want to select all channels in a category, select the category check box.

4. The channel list appears. Tap **Refresh** to update the channels.

Tap to select the channel category to display

Channel list

Channel is updated. Tap it to view the headlines.

Tap to update the channels

Headline count

Tap to cancel channel updating
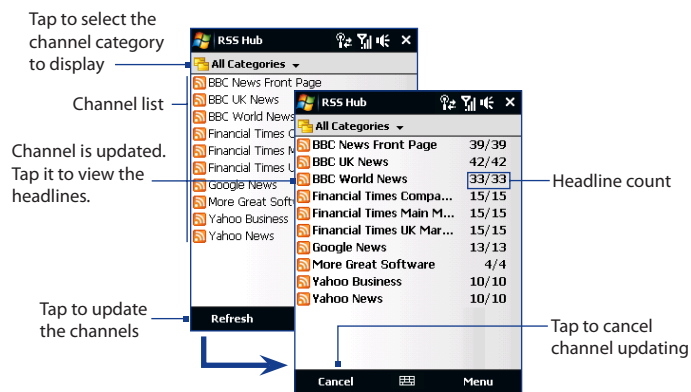
To add new channels

1. In the channel list, tap **Menu > Channel > New** to open the New Channel Wizard screen.

2. Select an option, then follow screen instructions to add new channels. For more information on New Channel Wizard options, see Help on your device.

To filter the channels in the display

In the channel list, tap **Menu > View**, then select:

- **Updated** to display only those channels with unread headlines.

- **All** to display all subscribed channels.

Manage channel categories

To view all the channels in a particular category, tap **All Categories** in the upper left area of the channel list, then tap the category you want to display.

To add a new category, tap **Menu > Categories** in the channel list to display all categories, then tap **Menu > New**.

To rename or delete a category, tap **Menu > Categories** in the channel list to display all categories, select a category, then tap **Menu > Rename** or **Menu > Delete**.

If you want to change the channel category, tap and hold the channel in the channel list, then tap **Change Category**. Select a new category and tap **OK**.

View and organize headlines

Tap a channel in the channel list to display the headlines for that channel.

Headline or news summary contains a keyword

Headline has been read

New or unread headline

Tap to return to the channel list

Tap a headline to open the news summary screen

Audio/Video/Image file attachment is downloading

Tap to download audio/video file attachment
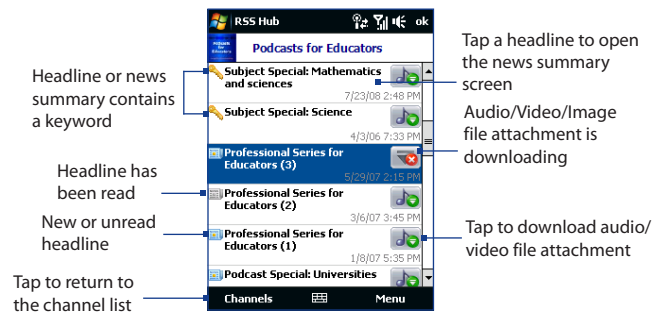
New or unread headlines display in bold and are marked with a blue newspaper icon. Headlines that have been read are marked with a gray newspaper icon.

View the news summary

Tap a headline in the headline list to display the news summary.

Channel name

Headline and read status

News summary

Tap to open the news item in Opera Mobile. See "Using Opera Mobile" in this chapter for details.

Audio/Video/Image file attachment. Tap to download the file.

Tap to return to the headline list

To change view options

In the news summary screen, tap **Menu** to change the text size, fit the text to the screen (text wrap), or enable **ClearType** for better viewing.

To download, play, or save podcasts

1. When you see an audio or video file attachment in the news summary, do one of the following to download the file:

   • Tap **Menu > Podcasts > Start Download**.

   • Tap the **Download audio/Download video** link below the audio/video file icon.

   Tip To cancel the file download, tap **Menu > Podcasts > Cancel Download**, or tap **Cancel download** below the audio/video file icon.
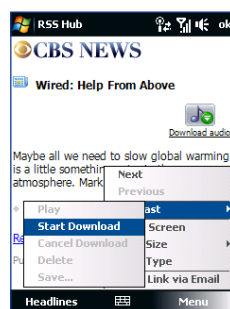
2. After downloading the file, do one of the following:

   • Tap **Menu > Podcasts > Play** or tap **Play audio/Play video** below the audio/video file icon to play back the file.

   • Tap **Menu > Podcast > Save** to save a copy of the file to the device main memory or storage card.

To send the headline link via e-mail

1. In the news summary screen, tap **Menu > Send Link via Email**.

2. Messaging opens and displays the Account Picker screen. Tap the e-mail account you want to use to send the headline link.

   A new e-mail message is then created with the headline link.

3. Specify the e-mail recipients, then send it.

Note For more information on how to compose e-mails, see "Using E-mail" in Chapter 6.

To view the next or previous news summary

In the news summary screen, tap **Menu > Next** or **Menu > Previous**, or press NAVIGATION left or right.

For more information about the features and configuring RSS Hub, refer to the online help. To open the online help, tap **Start > Help** while in RSS Hub.

8.9 Google™ Maps (Available by Country)

Google™ Maps lets you track your current location, view real-time traffic situations, and receive detailed directions to your destination. It also provides a search tool where you can locate places of interest or an address on a vector or a satellite map.

Note   You need an active data connection or Wi-Fi connection to use Google Maps.

Open Google Maps

Tap **Start > Programs > Google Maps**.

Note   The first time you open Google Maps, you will be asked to accept terms and conditions when using Google Maps. You must agree to the terms and conditions for you to be able to run Google Maps.

Your current
location.

Tap to zoom in
on the map.

Tap to zoom
out on the map.

Tap to search for places of
interest and addresses.

Tap to open a menu where you
can view your current location,
get directions, see traffic
information, and more.
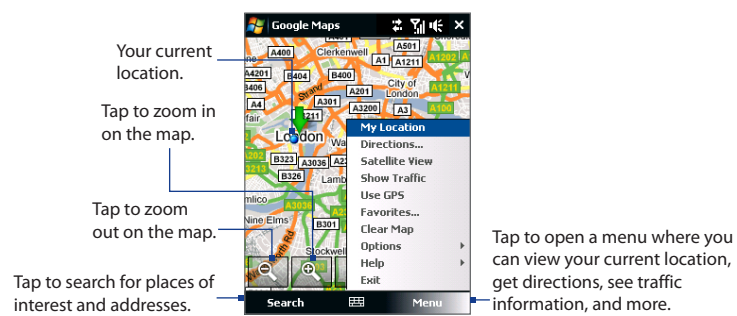
Notes • Currently, traffic information is only available for the U.S.

• Tap **Menu > Options > Reset Google Maps** to reset the Google Map cookies, history of search terms, preferences, and image cache.

Tip Tap **Menu > Help > Tips** to learn more about the program and its many features

Search for a place of interest

You can search and locate a place of interest using Google Maps. Google Maps also shows the contact information and gives directions on how to get to the place of interest from your current location.

Note You can also search for keywords, addresses, and postal codes.

1. On the Google Maps screen, tap **Search**.

2. Enter the place of interest you want to go to (for example, london eye), then tap **Search**.

3. In the search results list, tap an item to view its contact information.
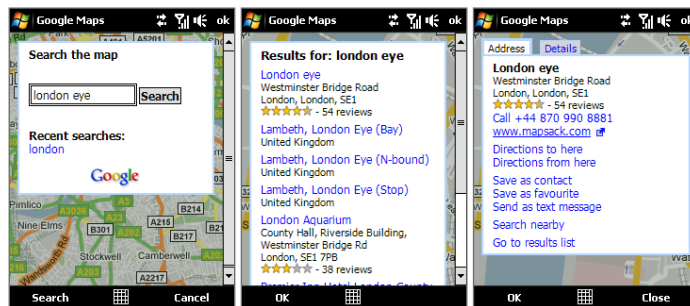
4. On the **Address** tab, you can:

- Tap the web address to go to the web site of the place of interest.

  Note This information only appears when the web site of the place of interest is available.

- Tap the **[phone number]** to call the place of interest that you have selected.

- Tap **Directions to here** or **Directions from here** to get directions on how to get to the place of interest from your current location or vice versa.

- Tap **Search nearby** to search for other places of interest near your current location.

- Tap **Send as text message** to send the contact information via SMS.

For more information about Google Maps, go to http://www.google.com/gmm/index.html.

Chapter 9

Bluetooth

9.1 Bluetooth Modes

Bluetooth is a short-range wireless communications technology. Devices with Bluetooth capabilities can exchange information over a distance of about eight meters without requiring a physical connection.

Bluetooth on your device operates in three different modes:

- **On**. Bluetooth is turned on. Your device can detect other Bluetooth-enabled devices, but not vice versa.
- **Visible**. Bluetooth is turned on, and all other Bluetooth-enabled devices can detect your device.
- **Off**. Bluetooth is turned off. In this mode, you can neither send nor receive information using Bluetooth.

Notes • By default, Bluetooth is turned off. If you turn it on, then turn off your device, Bluetooth also turns off. When you turn on your device again, Bluetooth automatically turns on.

• Turn off Bluetooth when not in use to conserve battery power, or in places where using a wireless device is prohibited, such as on board an aircraft and in hospitals.

To turn Bluetooth on and make your device visible

1. On the Home screen, slide to the **Settings** tab and then tap **Menu > Bluetooth Devices > Mode** tab.

2. Select the **Turn on Bluetooth** and **Make this device visible to other devices** check boxes.

3. Tap **OK**. The Title bar will show to indicate that the device is in Visible mode.

To turn off Bluetooth visibility after a certain period of time

You can automatically turn off Bluetooth visibility after a specified period of time.

1. On the Home screen, slide to the **Settings** tab and then tap **Menu > Bluetooth Devices > Timeout** tab.

2. In **Turn off Visible mode**, select the time before your device's Bluetooth visibility turns off. Tap **OK**.

9.2 Bluetooth Partnerships

A Bluetooth partnership is a relationship that you create between your device and another Bluetooth-enabled device in order to exchange information in a secure manner.

To create a Bluetooth partnership

1. On the Home screen, slide to the **Settings** tab and then tap **Menu > Bluetooth Devices > Devices** tab.

2. Tap **Add new device**. Your device displays the names of other Bluetooth devices within range.

3. Tap the device name in the box, then tap **Next**.

4. Specify a passcode to establish a secure connection. The passcode can be 1 up to 16 characters.

5. Tap **Next**.

6. Wait for the paired device to accept the partnership. The receiving party needs to enter the same passcode that you specified.

7. After the receiving party enters the passcode, a message box appears on your device confirming the partnership.

   Tip Tap **Advanced** to change the paired device name and to set the services you want to use for the paired device. After setting the name and options, tap **Save**.

8. Tap **Done**.

Note Creating a Bluetooth partnership between two devices is a one-time process. Once a partnership is created, the devices can recognize the partnership and exchange information without entering a passcode again.

To accept a Bluetooth partnership

1. Ensure that Bluetooth is turned on and in visible mode.

2. Tap **Yes** when prompted to establish a partnership with the other device.

3. Enter a passcode (the same passcode that is entered on the device requesting the partnership) to establish a secure connection. The passcode must be between 1 and 16 characters.

4. Tap **Next**.

5. Tap **Done**. You can now exchange information with the paired device.

Tips • To rename a Bluetooth partnership, tap and hold the partnership's name on the **Devices** tab of the Bluetooth screen, then tap **Edit**.

• To delete a Bluetooth partnership, tap and hold the partnership's name on the **Devices** tab, then tap **Delete**.

9.3 Connecting a Bluetooth Hands-free or Stereo Headset

For hands-free phone conversations, you can use a Bluetooth hands-free headset such as a car kit with your device. Your device also supports A2DP (Advanced Audio Distribution Profile) which allows you to use a Bluetooth stereo headset for hands-free phone conversations and for listening to stereo music.

To connect a Bluetooth hands-free or stereo headset

1. Make sure that both your device and the Bluetooth headset are turned on and within close range, and that the headset is visible. Refer to the manufacturer's documentation to find out how to set the headset in visible mode.

2. On the Home screen, slide to the **Settings** tab and then tap **Menu > Bluetooth Devices > Devices** tab **> Add new device**.

3. Tap the name of the Bluetooth headset, then tap **Next**. The device will automatically pair the device with the Bluetooth headset.

Windows Mobile will automatically try one of the preconfigured passcodes (0000, 1111, 8888, 1234) to pair the Bluetooth headset with the device. If this fails, you have to enter the passcode delivered with your headset manually.

Note   If the Bluetooth stereo headset becomes disconnected, turn the headset on and repeat step 1 to 2 above. Tap and hold the name of the Bluetooth stereo headset and tap **Set as Wireless Stereo**.

9.4 Beaming Information Using Bluetooth

You can beam information, such as contacts, calendar items, tasks, and files from your device to your computer or to another Bluetooth-enabled device.

Note   If your computer does not have built-in Bluetooth capability, you need to connect and use a Bluetooth adapter or dongle on your computer.

To beam information from your device to a computer

1. Turn on Bluetooth on your device, and make your device visible. For information about this, see "To turn Bluetooth on and make your device visible".

2. Set Bluetooth on your computer to visible mode, create a Bluetooth partnership, then enable your computer to receive Bluetooth beams.

   Note   If the Bluetooth adapter or dongle on your computer was installed using a third-party provided driver, open the Bluetooth software that came with the Bluetooth adapter/dongle and enable the adapter/dongle to be discovered by other devices. Refer to the Bluetooth adapter's documentation for more information.

   If your computer has **Windows Vista** or **Windows XP SP2** and your computer's Bluetooth adapter is supported by your Windows version, do the following steps:

a. On your computer, open **Bluetooth Devices** from the Control Panel, then click the **Options** tab on the **Bluetooth Devices** window.

b. For **Windows Vista**, select **Allow Bluetooth devices to find this computer**.

For **Windows XP**, select **Turn discovery on** and **Allow Bluetooth devices to connect to this computer**.

c. Create a Bluetooth partnership between your device and computer. For information about creating a partnership, see "Bluetooth partnerships".

d. In the **Options** tab of **Bluetooth Devices**, select **Show the Bluetooth icon in the notification area**.

e. To enable your computer to receive Bluetooth beams, right-click the Bluetooth icon in the notification area at the bottom-right corner of your computer screen and select **Receive a File**. You are now ready to beam.

3. On your device, select an item to beam. The item can be an appointment in your calendar, a task, a contact card, or a file.

4. To beam a contact, tap **Menu > Send Contact > Beam**.

To beam other types of information, tap **Menu > Beam [type of item]**.

5. Tap the device name to which you want to send the item.

6. If you beamed a calendar, task, or contact item to your computer and it is not automatically added to Outlook, select **File > Import and Export** in Outlook to import it.

To beam information to a Bluetooth-enabled device such as another Windows Mobile-powered device, follow steps 1 to 5 in the above procedure.

Tips • The default folder on your computer where beamed items are stored may be C:\Documents and Settings\your_username\My Documents in Windows XP or C:\Users\your_username\My Documents in Windows Vista.

• For your device to receive Bluetooth beams, tap **Start > Settings > Connections** tab **> Beam** and make sure the **Receive all incoming beams** check box is selected.

9.5 Bluetooth Explorer and Bluetooth File Sharing

Bluetooth Explorer searches for other Bluetooth devices that have file sharing enabled and lets you access their Bluetooth shared folder. You can copy files from and to their shared folder, and create subfolders in it. When you enable **Bluetooth file sharing** on your device, other Bluetooth-enabled devices will also be able to access your Bluetooth shared folder.

To enable Bluetooth Explorer and Bluetooth file sharing on your device

1. On the Home screen, slide to the **Settings** tab and then tap **Menu > Bluetooth Devices > FTP** tab.

2. Select the **Enable Bluetooth Explorer** check box. This makes the **Bluetooth** device folder visible in File Explorer.

3. Select the **Enable File Sharing** check box.

   You can use the default Bluetooth shared folder, or tap **Browse** to use another folder as your shared folder.

4. Tap **OK**.

To use Bluetooth Explorer

1. Bluetooth Explorer is integrated with the File Explorer program. You can open it by tapping **Start > Programs > Bluetooth Explorer** or by tapping the down arrow (▼) on the upper left of File Explorer screen then tapping **Bluetooth**.

2. Bluetooth Explorer then scans for other Bluetooth devices that have file sharing enabled. From the list, tap to select a Bluetooth device you want to connect to. You may need to enter a passcode in order for you to connect to the selected device.

   If there are files contained in the Bluetooth shared folder on the other device, you will be able to see them on the Bluetooth Explorer screen.
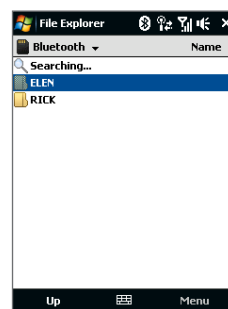
3. Select one or more files, then tap **Menu > Edit** and choose to cut or copy the files.

4. Tap **Up** twice.

5. Navigate to the folder where you want to paste the files on your device, then tap **Menu > Edit > Paste**.

9.6 Printing Files via Bluetooth

Connect your device to a Bluetooth printer to print contact information, appointment details, images, and other file types.

Note   You can print files in the **.txt**, **.jpg**, **.xhtml**, **.vcf**, **.vcs** file formats.

Before you start printing, make sure to turn on the Bluetooth printer and to turn on Bluetooth on your device. To turn on Bluetooth, tap **Start > Programs > Comm Manager**, then tap the **Bluetooth** button.

To print contact information

1. On the Home screen, slide to the **People** tab and then tap **All People**.
2. Select the contact whose information you want to print.
3. Tap **Menu > Print via Bluetooth** > **Menu > Search Devices**. Your device starts to search for Bluetooth devices.
4. Select the Bluetooth printer and tap **Menu > Send File**.
5. Set the printing options you want, then tap **Print**.

To print a calendar appointment

1. Tap **Start > Calendar,** then select (highlight) the appointment whose details you want to print.
2. Follow steps 3 to 5 in the "To print contact information" procedure.

To print a JPEG file

1. In Pictures & Videos, locate the JPEG file you want to print.
2. Tap and hold the JPEG image file and then on the menu, tap **Print via Bluetooth**.
3. Follow steps 3 to 5 in the "To print contact information" procedure:

To print a text file

1. In File Explorer, locate the text file you want to print.
2. Tap and hold the txt file and then on the menu, tap **Print via Bluetooth**.
3. Follow steps 3 to 5 in the "To print contact information" procedure:

178 Bluetooth

Chapter 10

Experiencing Multimedia

10.1 Taking Photos and Videos

Use **Camera** to take photos and record video clips.

To open the Camera screen

On the Home screen, slide to the **Photos and Videos** tab and then tap the camera icon (⬚). The screen orientation automatically switches to landscape mode when you open Camera.

Tip   You can also tap **Start > Programs > Camera** to open the Camera program.

To exit the Camera

Tap the **Exit** icon (✕) on the Camera screen. Tap the screen to show the Camera screen icons.

Capture modes

The camera on your device allows you to capture pictures and video clips by using various built-in modes that provide you flexibility in taking your shots.

To change the capture mode

- Press NAVIGATION left or right (Landscape orientation).

- Tap the middle icon at the bottom of the screen (the icon displayed is based on the current Capture mode.) On the on-screen menu, tap the capture mode you want to use.

Current Capture mode

You can select from the following capture modes:

Icon	Capture Mode
	Photo Captures standard still images.
	Video Captures video clips, with or without accompanying audio.
	Panorama Captures a sequence of still images continuously in one direction, and allows stitching of all the images to create a panoramic view of a scenery.
	MMS Video Captures video clips suitable for sending with MMS messages.
	Contacts Picture Captures a still image and gives you the option to immediately assign it as a Photo ID for a contact.
	Picture Theme Captures still images and places them within frames.

Supported file formats
Using the available capture modes, the camera in your device captures files in the following formats:

Capture mode	Format
Photo / Contacts Picture / Picture Theme / Panorama	JPEG
Video / MMS Video	H.263 (.3gp) ; MPEG-4 (.mp4)

Camera controls

Press the ENTER button to take a photo or to start capturing video.

Notes • In **Video** or **MMS Video** mode, press ENTER again to stop recording.

   • In **Picture Theme** or **Panorama** mode, press ENTER for each shot you need to take.

On-screen controls and indicators

Tap the screen to display the controls and indicators.

Photo, Video, MMS Video, and   When capturing in Video and MMS
Contacts Picture modes   Video modes
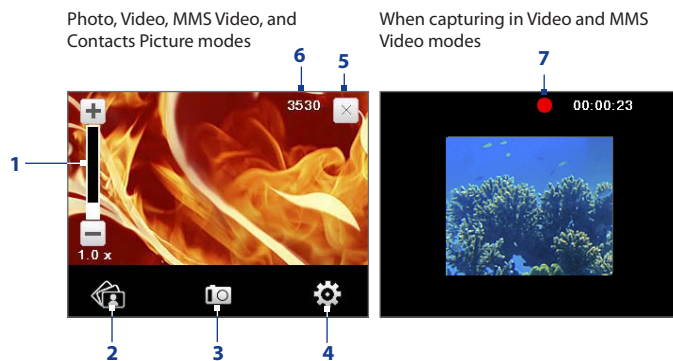
1 **Zoom control**. Tap ➕ to zoom in, or ➖ to zoom out.

   Tip   You can also press NAVIGATION up/down (Landscape orientation) to zoom in or
   out.

2 **Album**. Tap to open Album. See "Viewing Photos and Videos Using Album" for
details.

3 **Capture mode**. Displays the current capture mode. Tap to open an on-screen
menu where you can choose the capture mode.

4 **Menu**. Tap to open the Menu Panel. See "Menu Panel" for details.

5 **Exit**. Tap to exit the Camera program.

6 **Remaining information indicator**. In Photo, Contacts Picture, Picture Theme, and Panorama modes, this shows the remaining/available shots of pictures based on the current settings.

In Video and MMS Video modes, this shows the remaining duration that can be recorded. While recording video, this shows the recorded duration.

7 **Recording indicator**. Flashes when recording a video.

Picture Theme mode
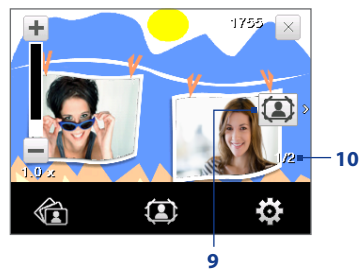
9 **Template Selector icon**. In Picture Theme mode, tap to toggle among different templates.

10 **Progress indicator**. In Picture Theme and Panorama modes, this shows the number of consecutive shots.

Menu Panel

The Menu Panel provides a quick way of adjusting most common camera settings and lets you access more advanced camera settings. On the Camera screen, tap ![icon] to open the Menu Panel. To adjust a setting, keep tapping a button on the panel, for instance, **White Balance**, to cycle through the available settings. To access advanced options, tap ![icon].

Note   The available settings on the panel depend on the selected capture mode.

6

1 ─────

2 ─────

───── **5**

───── **4**

3

1 **Resolution**. Tap to select the resolution to use when taking photos or capturing videos.

2 **Storage**. Select where you want to save your files. You can either save the files to the main memory ( ) or to a storage card (if one is installed..

3 **Self-timer**. Tap to set the self-timer to **2 seconds**, **10 seconds**, or **Off** when in the Photo or Contacts Picture mode. When you press the ENTER button to capture a still image, it starts to count down, then captures a still image after the time expires.

4 **Advanced**. Tap to open the advanced camera settings. See "Advanced Options" for details.

5 **Brightness**. Tap to open the Brightness bar at the bottom of the screen. On the Brightness bar, tap to decrease, or to increase the brightness level. Tap outside the Brightness bar to apply the change.

6 **White Balance**. White balance enables the camera to capture colors more accurately by adjusting to different lighting conditions. White balance settings include: Auto ( ), Daylight ( ), Night ( ), Incandescent ( ), and Fluorescent ( ).

Zooming

Before capturing a photo or a video clip, you can zoom in to make the object in focus move closer, or zoom out to make the object move farther away.

To zoom in

Press NAVIGATION up (Landscape orientation), or tap ➕.

To zoom out

Press NAVIGATION down (Landscape orientation), or tap ➖.

The camera zoom range for a photo or a video clip depends on the capture mode and resolution. Refer to the table for more information.

Capture mode	Resolution	Zoom range
Photo	2M 2M (1600 x 1200)	1.0x to 2.0x
	1M 1M (1280 x 960)	1.0x to 2.0x
	L Large (640 x 480)	1.0x to 2.0x
	M Medium (320 x 240)	1.0x to 4.0x
Video	M Medium (176 x 144)	1x and 2x
	S Small (128 x 96)	1x and 2x
Panorama	L Large (640 x 480)	1x and 2x
	M Medium (320 x 240)	1x, 2x and 4x
MMS Video	M Medium (176 x 144)	1x and 2x
	S Small (128 x 96)	1x and 2x

Capture mode	Resolution	Zoom range
Contacts Picture	M Medium (240 x 320)	1.0x to 4.0x
Picture Theme	Determined by the current template	Depends on the size of the selected template

The Review screen

After capturing, the Review screen lets you view, send, or delete the photo or video clip by tapping an icon at the bottom of the screen.

Review screen icons

Icon	Function
	Back Return to the live Camera screen.
	Delete Delete the captured image or video.
	View View the captured image in the Album program.
	Play Play back the captured video or MMS video in the Album program.
	Send Send the captured image or video via e-mail or MMS.

Icon	Function
	Assign to Contact After capturing in Contacts Picture mode, tap this icon to assign the photo to a selected contact.

Advanced Options

The Advanced Options let you adjust options for your selected capture mode and set Camera program preferences. Access the Advanced Options by tapping **Advanced** on the Menu Panel.

You can either tap on-screen or press NAVIGATION up/down (Landscape orientation) to navigate through the Advanced Options screen.

Tap an item to change the setting.

Tap to go through the different Advanced Camera Settings screens.

Tap to go back to the Camera screen.
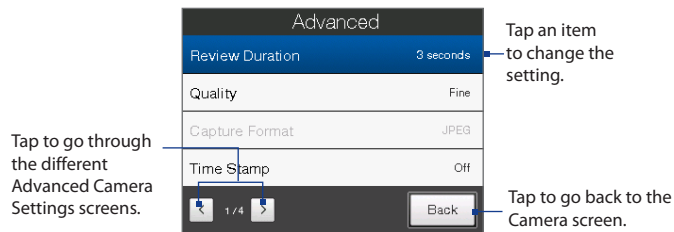
- **Review Duration**. Set a time length for displaying the captured image/video on the Review screen. Select **No Limit** if you do not want to impose a time limit. Select **No Review** to immediately return to the live Camera screen after capturing and saving.

- **Quality**. Select the JPEG image quality level for all captured still images. Choose from **Basic**, **Normal**, **Fine**, and **Super Fine**.

- **Capture Format** (Video and MMS modes). Select the desired file format.

- **Time Stamp** (Photo mode). Choose whether or not to include the shooting date and time on captured photos.

- **Keep Backlight**. Turn the backlight on or off. This overrides your device backlight settings while you are using the camera.

- **Shutter Sound**. Choose whether or not you want the camera to make a shutter sound when you press the ENTER button.

- **Image Properties**. This option lets you adjust the capture properties, such as **Contrast**, **Saturation**, and **Sharpness**.
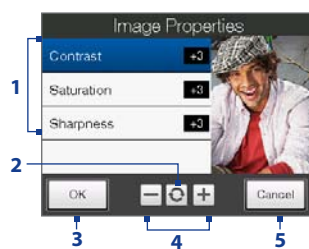
1 Tap a property to adjust.

2 Tap to reset all properties to their default values.

3 Tap to save the settings.

4 Tap ➕ / ➖ or press NAVIGATION left/right (Landscape orientation) to increase/decrease the value.

5 Tap to close the submenu without applying and saving the changes.

- **Effect.** Choose a special effect such as Grayscale, Sepia, or Negative, to apply to your photos or video clips.

- **Direction** (Panorama mode). Choose in what direction images will be stitched in a panorama.

- **Stitch Count** (Panorama mode). Select the number of snapshots to be taken and stitched into a panorama.

- **Metering Mode**. Select a metering mode to allow the camera to measure the amount of light and calculate the best-fit exposure value before capturing. Choose either **Center Area** to measure light using the center area of the subject, or **Average** to measure light using the area around the subject.

- **Prefix**. When **Default** is selected as the prefix, the file name of each new captured file is set to "IMAGE" or "VIDEO" followed by a sequential number, for example: IMAGE_001.jpg. You may also choose to name files using either the current **Date** or **Date & Time** as the prefix.

Note   If you set the Camera to save captured photos to a storage card, the prefix
cannot be selected. Captured photos will be named using the convention
IMAGnnnn.jpg (where 'nnnn' is the counter) which is the DCIM (Digital Camera
Images) naming standard, and will be saved to the \DCIM\100MEDIA folder on
the storage card.

- **Counter**. To reset the file naming counter back to 1, tap **Reset**.

- **Flicker Adjustment**. When taking indoor shots, flicker on the camera screen
may be caused by inconsistencies between the vertical scan rate of the
camera display and the flicker frequency of fluorescent lighting. To reduce
flicker, you can change the flicker adjustment setting to **Auto** or to the proper
frequency (**50Hz** or **60Hz**) of the power in the country where your device is
being used.

- **Grid** (Photo mode). Choose whether or
not to show a grid on the Camera screen.
Showing a grid helps you frame and center
your subject easily and accurately.

- **Record with Audio** (Video and MMS Video
mode). Select **On** to record audio with
the captured video clips, or select **Off** to
capture video without audio.
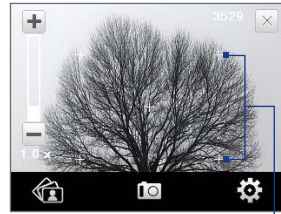
Grid marks

- **Template** (Picture Theme mode). Select a template.

- **Recording Limit** (Video mode). Set the maximum duration or file size for
recording video.

- **Template Folder** (Picture Theme mode). By default, templates are stored
in the **\My Documents\Templates** folder on the device's **Main Memory**. If
you transferred some templates to a storage card (via File Explorer), set this
option to **Main + Card** to specify that templates are located in both the main
memory and the storage card.

- **Show Reminder** (Contacts Picture mode). Select **On** if you want the Camera to always display a message that confirms whether or not to assign the captured picture to a contact.
- **Help**. Tap to open the Camera program help file.
- **About**. Tap to display version and copyright information.

10.2 Viewing Photos and Videos Using Album

Use **Album** to view images and videos in your device. Album offers a host of features that let you rotate images, view your images as a slideshow, use images as contact pictures, and more.

Note Album can only display files in the BMP, GIF, PNG, JPG, Animated GIF, 3GP, MP4, and WMV formats.

To open Album

Do one of the following:

- On the Home screen, slide to the **Photos and Videos** tab and tap **Album**.
- In the Camera program, tap [icon].
- Tap **Start > Programs > Album**.

Note The screen orientation automatically switches to landscape mode when you open Album.

Tap to open the
Camera program.

Select a photo or video to view

1. On the main Album screen, tap **Albums** and then select the album to view. The contents of the album are then displayed on the main Album screen.

2. Browse through the files by sliding your finger upward or downward.

3. Do one of the following:

- Tap an image to view it in full screen mode. See "View an image" for details.

- Tap a video file (files with the icon) to play back the video file. See "Play back video" in this chapter for details.

- Select a still image and then tap **Menu > Slideshow** to view the images in the album as a slideshow. Animated GIF and video files will not be played back in the slideshow. See "To view still images as a slideshow" in this chapter for details.

View an image
While viewing an image in full screen, tap the screen or press ENTER to open the on-screen menu.

Tap to send the image using one of the Messaging accounts.

Tap to start the slideshow.

Tap to go back to the main Album screen, **Photos and Videos** tab, or Camera.

Tap to open a menu where you can save the screen image as a photo for a contact, save the current image as a new file, delete the image, and view file properties.
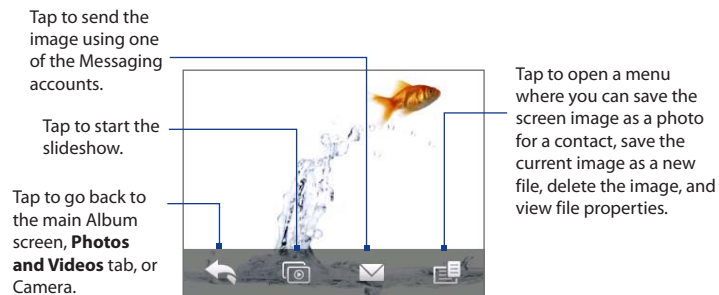
Tip   You can delete multiple files at once by selecting **Menu > Delete Items** on the main Album screen and then selecting the files to delete.

To rotate the image

While viewing an image, make a half circle motion on the screen with your finger.

Slide in this direction to rotate the image
90 degrees counter-clockwise.
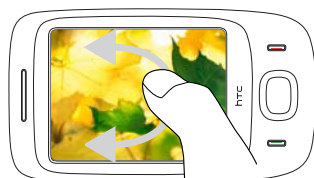
Slide in this direction to rotate the image
90 degrees clockwise.

To view the next or previous image

When viewing images in full screen, go to the next image by swiping your finger across the screen from right to left. Go back to the previous image by swiping your finger from left to right.
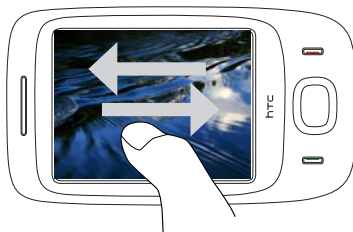
To zoom in or out of an image

While viewing an image, make a full circle motion on the screen with your finger.

Tips • When you zoom in on an image, double-tap the screen to automatically zoom out and fit the image to the screen.

• When you zoom in on an image, tap and hold the screen so you can pan the image.

• When you zoom in on an image, tap the screen to open the on-screen menu. On the on-screen menu, tap ![icon] and then select **Save Screen Image** to save the image on-screen as a new file.

Slide your finger clockwise on an area to zoom in on that area.

Slide your finger counter-clockwise to zoom out.

To view still images as a slideshow

While viewing the slideshow, tap the screen to show playback controls.

Tap to return to the main Album screen or the **Photos and Videos** tab.

Tap to open the slideshow options where you can set the transition effect to use, time per slide, and orientation of the images.

Tap to go back to the previous image.

Tap to play or pause the slideshow playback.

Tap to go to the next image.
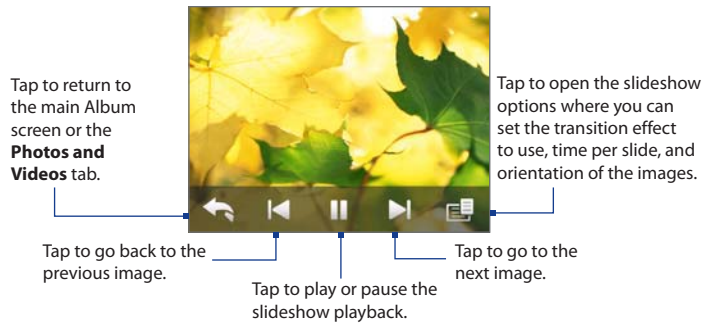
Tip   If the images are in your favorite album, you can start the slideshow from the **Photos and Videos** tab on the Home screen. On the Photos and Video tab, tap **Slideshow**.

Play back video

While playing back video, tap the screen to show the playback controls.

Drag to go forward or backward in the video.

Elapsed time

Total duration

Tap to go back to the beginning of the video.

Tap to stop video playback.

Tap to play or pause video playback.

Tip   If the video is in your favorite album, you can start the video playback from the **Photos and Videos** tab on the Home screen. On the Photos and Video tab, tap **Play**.

Close Album

Close Album by tapping ⊠ on the main Album screen. When viewing files in full screen mode, tap the screen to show the on-screen menu or playback controls and then tap ⬉ to go back to the main Album screen.

10.3 Using Windows Media® Player Mobile

Windows Media® Player Mobile plays digital audio and video files that are stored on your device or on a network, such as on a web site.

Video File Formats Supported	File Extensions
Windows Media Video	.wmv, .asf
MPEG4 Simple Profile	.mp4
H.263	.3gp, .3g2
H.264	.mp4, .3gp, .3g2, .m4v
Motion JPEG	.avi

Audio File Formats Supported	File Extensions
Windows Media Audio	.wma
WAVE	.wav
MP3	.mp3
MIDI and SP MIDI	.mid, .midi, .rmi
AMR Narrow Band	.amr, .3gp
AMR Wide Band	.awb,.3gp
AAC, AAC+, and eAAC+	.aac, .mp4, .m4a, .3gp
MPEG4 audio	.m4a
QCELP	.qcp, .3g2
EVRC	.qcp

To open Windows Media® Player Mobile
Tap **Start > Programs > Windows Media**.

About the controls

Tap and drag to jump to any part of the video or audio

Full screen

Visit WindowsMedia.com

Mute/Unmute

Increase volume

Decrease volume

Skip to the beginning of the current file or to the previous file

Skip to the next file
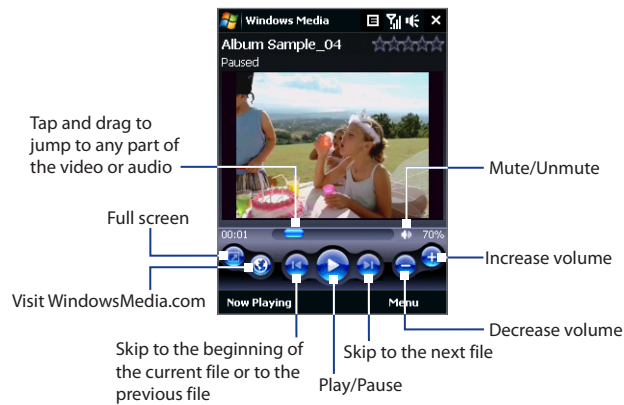
Play/Pause

About the screens and menus

Windows Media® Player Mobile has three primary screens:

- **Playback screen**. The screen that displays the playback controls (such as Play, Pause, Next, Previous, and Volume) and the video window. You can change the appearance of this screen by choosing a different skin.

- **Now Playing screen**. The screen that displays the Now Playing playlist. This special playlist indicates the current file being played and any files that are "queued up" to play next.

- **Library screen**. The screen that lets you quickly find your audio files, video files, and playlists. It contains categories such as My Music, My Videos, My TV, and My Playlists.

At the bottom of each screen, you can open a **Menu**. The commands on this menu vary, depending on which screen you are viewing. For more information about the commands in these menus, see Help on your device.

Synchronize video and audio files

Use the latest version of Windows Media® Player on your computer to synchronize digital media files from your computer to your device. This ensures that protected files and album art (for skins) are copied to your device correctly.

To synchronize content to your device automatically

1. On your computer, open Windows Media® Player, then connect your device to your computer.

2. In the Device Setup Wizard, select **Yes, search my computer now**.

    Note If you have previously opened Windows Media® Player and searched for media on your computer, you will not be prompted to search your computer in Step 2.

3. On the Device Setup dialog box, enter a name for your device and click **Finish**.

    Note If you installed a storage card that has a capacity of more than 4GB and your entire library can fit into the storage card, Windows Media Player will automatically synchronize your music files. The device also needs to be set to **Disk Drive** mode for Windows Media Player to automatically synchronize.

4. On the left panel of Windows Media® Player, right-click the name of your device and click **Set Up Sync**.

    Note To set up media synchronization on a storage card, right-click Storage Card in the left panel of Windows Media® Player, then click **Set Up Sync**.

5. Select the playlist(s) that you want to sync between your computer and device, then click **Add**.

    Note On the Device Setup dialog box, make sure that the **Sync this device automatically** check box is selected.

6. Click **Finish**.

The files will begin synchronizing to your device. The next time you connect your device to your computer while Windows Media® Player is running, synchronization will start automatically.

To synchronize content manually to your device
1. If you have not set up media synchronization between your device and computer, follow steps 1 to 3 in "To synchronize content to your device automatically".

2. Click the **Sync** tab on the Windows Media® Player of your computer. Select a Playlist or a Library on the left panel of the Windows Media® Player.

3. From the Content List, drag the media files that you want to sync to your device and drop them to the Sync List.

Playlists and Library List   Content List   Sync List
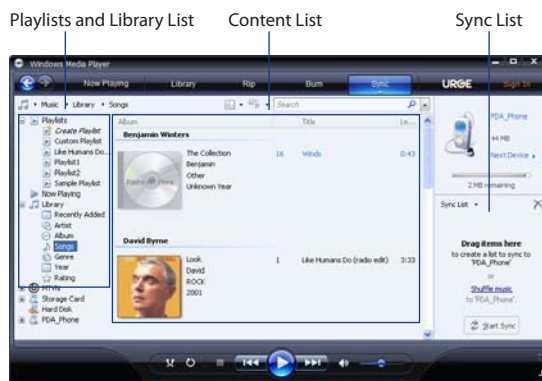
4. Click **Start Sync** to start synchronizing the selected files to your device.

Notes • Use Windows Media® Player 11 or higher on your computer to synchronize media files to your device.

- Audio files copy faster if Windows Media® Player is configured to automatically set the quality level for audio files copied to your device. For more information, see the Windows Media® Player Help.

Play media

Use the Library to find and play songs, videos, and playlists that are stored on your device or an installed storage card.

To update the Library

1. If you are not on the Library screen, tap **Menu > Library**.

2. On the Library screen, tap the Library arrow (near the top of the screen), then tap the media storage that you want use, for example, Storage Card.

3. In most cases, Windows Media® Player Mobile automatically updates the library. However, you can manually update the library to ensure that it contains new files that you recently copied to your device or storage card. Tap **Menu > Update Library** to manually update the library list.

To play video and audio files on your device

1. Select a category (for example, My Music or My Playlists).

2. Tap and hold the item that you want to play (such as a song, album, or artist name), then tap **Play**.

Tips
- To play a media file that is stored on your device but is not in a library, on the Library screen, tap **Menu > Open File**. Tap and hold the item that you want to play (such as a file or a folder), then tap **Play**.

- To play a media file from the Internet or a network server, tap **Menu > Library** then tap **Menu > Open URL**.

Playlists

In Windows Media® Player Mobile, you can create a new playlist by saving the current Now Playing playlist and giving it a new name.

To save a new playlist

1. If you are not on the Library screen, tap **Menu > Library**.

2. Tap to select a category (for example, My Music or My Playlists).

3. Select a media file that you want, then tap **Menu > Queue Up**. This adds the file to the Now Playing list.

   Repeat this step until you have added all desired media files to the Now Playing list.

   Note   You cannot select multiple files simultaneously.

4. After adding the media files, tap **Menu > Now Playing**.

5. On the Now Playing screen, tap **Menu > Save Playlist**.

6. Enter the playlist name, then tap **Done**.

7. To play back the playlist you created, tap My Playlists in the Library, select your playlist, then tap **Play**.

Troubleshooting

If you encounter a problem while using the Windows Media® Player Mobile, see the Troubleshooting Windows Media® Player Mobile page at the Microsoft web site (http://www.microsoft.com/windows/windowsmedia/player/windowsmobile/troubleshooting.aspx).

10.4 Audio Manager

Audio Manager is a music browser and player in one. It gives you access to all the music files on your device, and allows you to easily browse for the music that you want to play by organizing music into categories such as title, artist, album, etc. You can also create playlists of your favorite songs and use the integrated **Music Player** to play them back.

To launch Audio Manager
Tap **Start > Programs > Audio Manager**.

Notes • Audio Manager searches for all music files stored on your device memory and memory card that have the following audio formats: MP3, WMA, AAC, and AAC+. It will search in the following locations:

Device: My Music (including all subfolders)
\My Documents (including all subfolders)
Memory card: \Storage Card (including all subfolders)

• Music files are categorized under **Artists**, **Album**, **Genre**, etc. if such metadata is found in the files.

Library
On the Audio Manager's **Library** screen, an arrow that appears in an item indicates that there is a submenu available. Tap the item name to open the submenu.
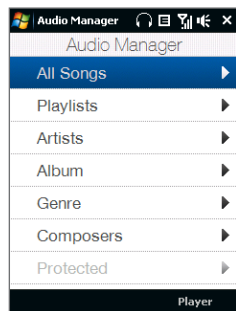
Library: Main screen

Library: All Songs screen

When you tap a category on the Library's Main screen, you will see more submenus which may have deeper levels of menus. For example, when you tap **Artists**, another level of submenus will be listed showing artist names. When you tap an artist name, more submenus showing album names will be displayed. Just keep opening the submenus until you reach the level where song titles can be selected for playback.

Music files that are protected by Digital Rights Management (DRM) will be listed under the **Protected** category. A lock icon shown before song titles indicates that the music files are protected. Select a file then tap **Info** if you want to view file information. A cross-marked lock icon shown before song titles indicates that the rights for the music files have expired, and you will not be able to play them. Tap **Delete** if you want to delete these files.

Note   Audio Manager keeps track of the last submenu that you accessed. When you exit Audio Manager and open it again, it will display the last submenu that you were in. Keep tapping the submenu name at the top of the screen until you reach the Library's Main screen.

Music Player

When you select a music file in the Library, **Music Player** opens and automatically plays it. Use the available buttons to control the playback.

Repeat

Shuffle

Play/Pause

Drag the slider to move forward or backward in a track.

Playback time

Go to next track

Go to previous song

Return to Library screen

Open a menu where you can choose to add the current song to a playlist, set the song as ring tone, and more.

Playlists

The Playlists screen shows the current playlists that are found on the device memory and memory card.

There are two types of playlists that will be shown on the Playlist screen:

- **Windows Media® Player playlists**.
  These are playlists that are in Windows
  Media® Player Mobile's Library (which is
  synchronized with Windows Media® Player
  on your computer), and they are indicated
  by the Windows Media® Player icon (
). They can be played in Audio Manager's
  Music Player but cannot be edited.

- **Custom playlists**. These are playlists that
  are created in Audio Manager and can be
  edited.
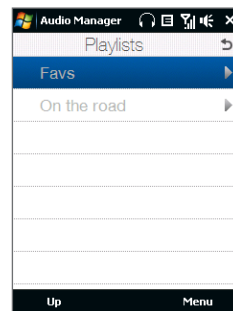
To create a playlist

1. On the Library's Main screen, tap **Playlists**.

2. On the Playlists screen, tap **Menu > New**.

3. Enter a **Playlist name** then tap **OK**.

4. On the Playlists screen, tap the playlist you have just created then tap **Menu > Edit**.

5. Tap **Menu > Add**.

6. Tap the check boxes to select the songs you want to add to the playlist, or tap **Menu > Select All** to choose all the songs.

7. Tap **OK** three times to return to the Playlists screen.

To play back a playlist

1. On the Playlists screen, tap to select a playlist.

2. Tap the first song in the selected playlist. Music Player automatically opens and starts playing the first song. After each song, the next one in the playlist will be played.

Note   The content of playlists is not automatically updated when music files have been deleted from the device memory or memory card.

Set music as ring tone

You can set your favorite music as a ring tone for your device.

1. Use the NAVIGATION CONTROL to select a song in the Library or tap a song to play it in Music Player, then tap **Menu > Set as Ring Tone**.

2. If the selected music is an MP3 file, tap **Trim** if you want to trim it first to make it shorter.

Mark the part of the music that will be used as the ring tone. Drag the left handle to mark the start time, then drag the right handle to mark the end time.

Play/Stop

For more precise marking, you can also tap these controls to step backward/forward one step and mark it.

Confirm trimming the ring tone.

Cancel trimming.
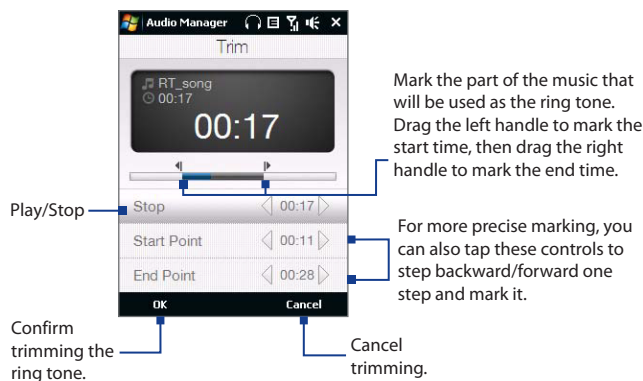
3. Tap **Set as Default Ring Tone**.

   Tip   If you only want to save the song to the ring tone folder for future use, tap **Save to Ring Tone Folder**. Later on, you can tap **Start > Settings > Personal** tab > **Phone** to set it as your ring tone.

4. A confirmation message is then displayed. Tap **OK**.

10.5 Audio Booster

Audio Booster enhances your music experience by providing you with controls for adjusting sound settings while you are listening to music. It adds 3D sound, treble and bass effects, and provides controls for adjusting them. It even has an equalizer with presets as well as a control panel for fine tuning sound.

To access Audio Booster

Tap **Start > Programs > Audio Booster**.

Note   You need to connect a headset to the device to open Audio Booster.
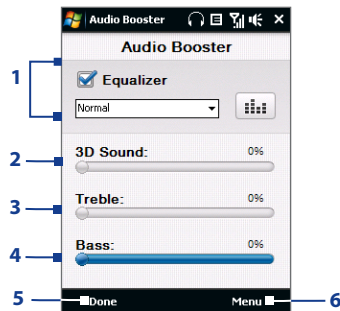
This control		Does this
1	**Equalizer**	Enables or disables the equalizer. Select the check box to enable the equalizer and to fine tune its settings, if desired. See "Equalizer" for more information.
2	**3D Sound**	Adds a three-dimensional effect to sound. Drag the slider to increase or decrease the effect. To disable the 3D effect, adjust the setting to 0%.

This control		Does this
3	Treble	Adds a treble effect to increase the high tones in sound. Drag the slider to increase or decrease the effect. To disable the treble effect, adjust the setting to 0%.
4	Bass	Adds a bass effect to increase the low tones in sound. Drag the slider to increase or decrease the effect. To disable the bass effect, adjust the setting to 0%.
5	Done	Tap to apply the modified settings.
6	Menu	• Tap **Menu > Cancel** to exit Audio Booster without applying the modified settings: • Tap **Menu > Reset** to change back to the default settings.

Equalizer

The **Equalizer** optimizes sound for a better listening experience. It provides preset moods, such as hip hop, jazz, rock, etc., and several enhancement presets that suit different types of music. It also has a 10-band graphic equalizer that lets you adjust the loudness of sound by frequency.

To apply a preset

1. Select the **Equalizer** check box to enable the equalizer.

2. Tap the Equalizer drop-down menu, then select a desired preset.

To create a custom equalizer preset

1. Select the **Equalizer** check box to enable the equalizer.

2. Tap [▥] .

3. Adjust the frequency bands to your desired values by dragging the equalizer controls. The selected values are indicated on top of the sliders.

4. Save your equalizer settings as a preset by tapping **Menu > Save as Preset**.

5. Enter a preset name then tap **Done**.

The preset you created will be added to the list box.
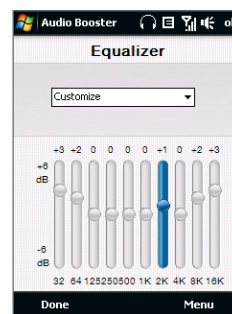
To delete a custom equalizer preset

1. Select the **Equalizer** check box and then tap [▥] .

2. Tap the Equalizer drop-down menu, then select the preset you want to delete.

3. Tap **Menu > Delete Preset**.

Note   You can only delete custom equalizer presets. Equalizer presets that are pre-installed cannot be deleted.

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Chapter 11

Programs

11.1 Programs on your Device

The following are programs you can find on your device or install from the Application disc.

Programs in the Start Menu

Icon	Description
	Office Mobile Use the complete suite of Microsoft® Office applications for your mobile device.
	Excel Mobile Create new workbooks or view and edit Excel workbooks.
	OneNote Mobile Create notes with text, photos, and voice recordings.
	PowerPoint Mobile View PowerPoint slides and presentations.
	Word Mobile Create, view, and edit Word documents.
	Calendar Keep track of your appointments and create meeting requests.
	Contacts Keep track of your friends and colleagues.
	Internet Explorer Mobile Browse web and WAP sites as well as download new programs and files from the Internet.
	Messaging Send and receive e-mail, MMS, and text messages.
	Phone Make and receive calls, switch between calls, and set up conference calling. See Chapter 2 for details.
	Help See Help topics for the current screen or program.

Programs screen

Icon	Description
	Games Play these pre-installed games: **Bubble Breaker** and **Solitaire**.
	ActiveSync Synchronize information between your device and a PC or the Exchange Server. See Chapter 5 and 7 for details.
	Adobe Reader LE View PDF (Portable Document Format) files on your device.
	Album View photos and videos that you captured using the device camera. See Chapter 10 for details.
	Audio Booster Enhances your music experience by providing you with controls for adjusting equalizer, 3D sound, treble, and bass settings. See Chapter 11 for details.
	Audio Manager Browse and play back music files.
	Bluetooth Explorer Search for other Bluetooth devices that have file sharing enabled and access their Bluetooth shared folder. See Chapter 9 for details.
	Calculator Perform basic arithmetic and calculations, such as addition, subtraction, multiplication, and division.
	Camera Take photos and shoot video clips with accompanying audio. See Chapter 10 for details.
	Comm Manager Manage your device's connections (including Internet and Bluetooth), turn the phone on or off, and enable or disable the Direct Push function.
	File Explorer Organize and manage files on your device.
	Getting Started View a list of "how to's" that you can reference to learn basic features and settings of your device.

Icon	Description
	Google Maps (Available by Country) View your current location, search for places of interest and addresses, seek directions, and more. See Chapter 10 for details.
	Internet Sharing Connect your notebook computer to the Internet using your device's data connection. See Chapter 8 for details.
	Java Download and install Java applications, such as games and tools, on your device.
	Messenger This is the mobile version of Windows Live™ Messenger. See Chapter 8 for details.
	Notes Create handwritten or typed notes, drawings, and voice recordings.
	Opera Browser This is the mobile version of the Opera browser. See Chapter 8 for details.
	Pictures & Videos View, organize, and sort pictures, animated GIFs, and video files on your device or a storage card.
	RSS Hub Download and read the latest web feeds from the Internet. See Chapter 8 for details.
	Search Search contacts, data, and other information on your device.
	SIM Manager Manage the contacts that are stored on your SIM card. You can also use this program to copy SIM contents to Contacts on your device.
	Spb GPRS Monitor (Available by Country) Use this program to measure the amount of data transfers that you have made via the GPRS or GSM network connection, and calculate network usage costs. You can install this program from the Application disc.
	Sprite Backup Back up your device's data and files to a specified folder, a storage card, or a computer. You can install this program from the Application disc.

Icon	Description
	Streaming Media Stream live or on-demand video. See Chapter 8 for details.
	Tasks Keep track of your tasks.
	Voice Recorder Record your voice and send it via e-mail, MMS or beaming. You can also set the recorded voice as your ring tone.
	Voice Speed Dial Record voice tags so that you can dial a phone number or launch programs by speaking a word.
	Windows Live Use this mobile version of Windows Live™ to find information on the web. It also lets you sign into your Windows Live account so that you can access your Live Mail messages and send/receive instant messages in Live Messenger. See Chapter 8 for details.
	Windows Media Player Mobile Play back audio and video files. See Chapter 10 for details.
	YouTube™ Search for uploaded videos in YouTube and play them on your device. See Chapter 8 for details.
	ZIP Save memory and free up storage space on your device by compressing files in the conventional ZIP format.
	STK (SIM Tool Kit) Service Access information and other services offered by your wireless service provider.

11.2 Adding and Removing Programs

Additional programs, such as the programs in the Application disc or other programs that you purchase, can be installed and uninstalled on your device. Your device does not allow you to uninstall most of the preinstalled programs.

Note   Before you purchase additional programs for your device, make sure that they are compatible with your device.

To install a program

1. Download the program to your computer (or insert the CD or disk that contains the program into your computer).

   You may see a single ***.exe** file, a ***.zip** file, a **Setup.exe** file, or several versions of files for different device types and processors. Be sure to select only the programs designed for your device.

2. Read any installation instructions or documentation that comes with the program. Many programs provide special installation instructions.

3. Connect your device to the computer.

4. Double-click the installation setup file.

To uninstall a program

1. Tap **Start > Settings > System** tab **> Remove Programs**.

2. In the **Programs in storage memory** list, select the program you want to remove, then tap **Remove**.

11.3 Adobe® Reader® LE

Adobe® Reader® LE is an application for viewing PDF (Portable Document Format) documents on your device. It supports a subset of the features found in the PC versions of Adobe Reader.

To open Adobe Reader LE

Tap **Start > Programs > Adobe Reader LE**.

To open a PDF file on your device

- Open a PDF file in Adobe Reader LE; or

- Open File Explorer, find the PDF file, then tap the file to open it.

To navigate through a PDF document

You can use the controls in the program and finger gestures to navigate a PDF document.

- Tap **Tools > View > Continuous** and then slide your finger up or down the screen to scroll through the pages in the document.

  Tip   You can also drag the scroll bars to scroll through the pages.

- Tap to zoom in or to zoom out. After zooming in, slide your finger on the screen to pan the current page.

- Press NAVIGATION up/down/right/left to move to the desired direction of the page.

- Tap to return to the previous page; tap to move to the next page. Tap to jump to the first page; tap to jump to the last page.

- Tap **Tools > Go To > Page Number** to enter a page number that you want to view.

To search for text in the document

1. Tap **Tools > Find > Text** or tap 🔍 in the toolbar.

2. Type in the text to be searched, then tap **Find**.

   The matched text in the document will be highlighted.

3. To view the next occurrence of the text, tap **Tools > Find > Next**.

Tips
- Adobe Reader LE displays a bookmark pane for the PDF files that contain bookmarks. Tap the bookmarks to go to a specific section/page within the file.
- Adobe Reader LE supports password-protected PDF files with up to 128-bit encryption. When you open a password-protected PDF file, you will be prompted to enter the password before opening it.

11.4 Calendar

Use **Calendar** to create appointments, including meetings and other events. You can also synchronize Calendar appointments between your device and computer.

To open the Calendar screen
- On the TouchFLO Home screen, tap **Calendar** or a displayed appointment; or
- Tap **Start > Calendar**.

Create appointments

To schedule an appointment

1. Open the Calendar screen and then tap **Menu > New Appointment**.

2. Enter a name for the appointment.

3. Do one of the following:
   - If it is a special occasion such as a birthday or a whole-day event, set the **All Day** option to **Yes**.
   - If there is a time frame for the appointment, set the start and end dates and times.

4. Specify the type of category for your appointment, so that it can be grouped with other related appointments. Tap **Categories**, then select a preset category (Business, Holiday, Personal, or Seasonal), or tap **New** to create your own category.

5. When finished, tap **OK** to return to the calendar.

Notes • All-day events do not occupy blocks of time in Calendar; instead, they appear in banners at the top of the calendar.

• To remove an appointment, tap **Menu > Delete Appointment**.

Tip To have the time entered automatically in Day view, tap and drag to select a time slot for the new appointment, and tap **Menu > New Appointment.**

To set the reminder time for new appointments
By default, Calendar has been set to display a reminder alert when you have new upcoming appointments. You can change the reminder time.

1. Open the Calendar screen.

2. Tap **Menu > Tools > Options > Appointments** tab.

3. Make sure the **Set reminders for new items** check box is selected.

4. Set the time when you want the reminder to alert you.

5. Tap **OK** to return to the Calendar screen.

View appointments

By default, Calendar displays appointments in **Agenda** view. You can also look at your appointments in **Day**, **Week**, **Month**, and **Year** views.

The highlighted hours here indicate the time of your appointments.

The red box and arrows indicate that there are conflicting appointments.

Tap to view appointment details.

Tap to switch views.

Agenda view
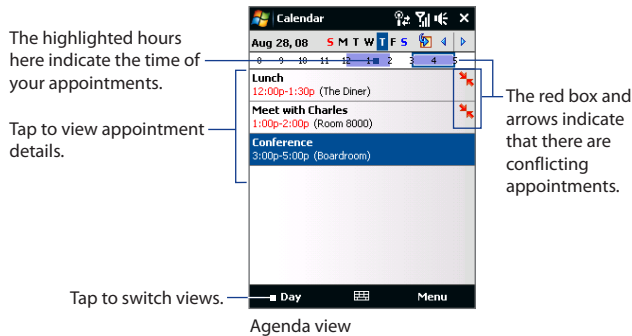
- To see detailed appointment information in any view, tap the appointment.

- To view appointments by category, tap **Menu > Filter**, then select the desired category.

- To change the default view that Calendar uses to display appointments, tap **Menu > Tools > Options > General** tab. Tap the **Start in** box, then choose the calendar view.

- When in Month view, you will see the following indicators:

  - Morning appointment
  - Afternoon or evening appointment
  - Both morning and afternoon/evening appointments
  - All-day event

Send appointments

To send a meeting request

Use Calendar to schedule meetings via e-mail with contacts who use Outlook or Outlook Mobile.

1. Open the Calendar screen.

2. Schedule a new appointment, or open an existing one and tap **Menu > Edit**.

3. Tap **Attendees**, then tap **Add Required Attendee** or **Add Optional Attendee** and add the contacts whom you want to invite.

   Note You can specify if an attendee is required or optional only if your device is connected to a Microsoft Exchange 2007 server. Otherwise, all attendees are designated as required. For more information, see "Managing Meeting Requests" in Chapter 7.

4. When you have finished adding attendees, tap **Done**.

5. Tap **OK** to send.

Tip To choose the e-mail account to use for sending meeting requests, tap **Menu > Tools > Options > Appointments** tab. Tap the **Send meeting requests via** box and choose to send via your Outlook E-mail, POP3/IMAP4 or Windows Live™ account.

Notes • If you're sending the meeting request using your Outlook E-mail account, it will be sent to the attendees the next time you synchronize your device with your computer or Exchange Server.

• When attendees accept your meeting request, the meeting is automatically added to their schedules. When their response is sent back to you, your calendar is updated as well.

To send appointment details as a vCalendar

A vCalendar is a standard file format used for exchanging scheduling and task information. vCalendar files can be exported to Outlook on the computer.

After selecting the appointment to send in the Calendar screen, tap **Menu > Send as vCalendar** to send a vCalendar containing appointment details as a file attachment in an MMS message. For more information, see "MMS" in Chapter 6.

11.5 Contacts

Contacts is your address book and information storage for people and businesses you communicate with. You can add the following types of contacts to your device:

- **Outlook contacts**. Contacts that are stored on your device, which can be created on your device or synchronized with your PC or the Exchange Server.

- **SIM contacts**. Contacts that are stored on the SIM card. Only a name and phone number can be stored for each entry.

- **Windows Live™ contacts**. Contacts that you communicate with using Windows Live™ Messenger or MSN.

   Note   You can only add Windows Live™ contacts after you have set up Windows Live™ on your device. See "Add Windows Live contacts" in Chapter 8 for details.

To open the Contacts screen

Do one of the following:

- On the TouchFLO Home screen, slide to the **People** tab and then tap **All People**; or

- Tap **Start > Contacts**.

Add new contacts

To add a contact on your device

1. Open the Contacts screen.

2. Tap **New**, select **Outlook Contact**, and enter the contact information.

3. In the **File as** field, choose how you want the contact name to appear in the contact list.

4. To add a photo of the contact, tap **Select a picture**, and then select the picture file or tap **Camera** to take a photo of the contact.

5. To assign a ring tone to the contact, tap the **Ring tone** field, scroll through the list of tones, then select a desired tone.

6. When finished, tap **OK**.
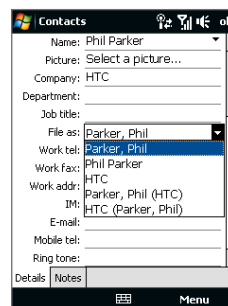
Tips • If a person who is not in your list of contacts called you and you want to save that person's phone number, tap and hold the phone number in the Call History and then tap **Save to Contacts** from the shortcut menu.

• To save a phone number that is contained in a message, open the message, tap the underlined phone number, and then tap **Menu > Save to Contacts**.

• To edit contact information, tap the contact name and then tap **Menu > Edit**.

To add a contact to your SIM card

1. Open the Contacts screen.

2. Tap **New**, then select **SIM Contact**.

3. Enter a contact name and phone number.

4. Tap **OK**.

Tip You can also use the SIM Manager to add and edit contacts on your SIM card. For more information, see "SIM Manager" in this chapter.

Organize and search contacts

To group similar contacts

For easier management, you can group similar contacts by assigning them to categories.

1. Create a new Outlook contact or edit an existing Outlook contact.

2. Tap **Categories**.

3. Select a preset category such as Business or Personal, or tap **New** to create your own category.

4. When finished, tap **OK**.

To find a contact on your device

There are several ways to find a contact when your contact list is long:

- Begin entering a contact name in the provided text box until the contact you want is displayed.

- On the Quick Scroll bar on the right of the Contacts screen, scroll to or tap a letter to go directly to the part of the contacts list where contact names start with that letter.
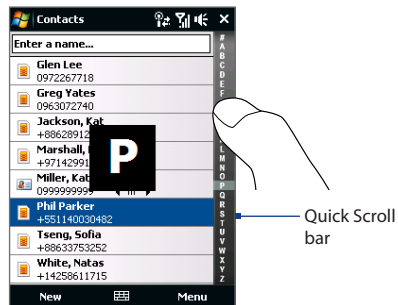
Quick Scroll bar

> **Note**   You can disable the Quick Scroll bar by tapping **Menu > Options** and selecting the **Show alphabetical index** check box. This will show the alphabetical index at the top of the Contacts list.

- Filter the list by categories. In the contact list, tap **Menu > Filter**, then tap a category you've assigned to a contact. To show all contacts again, select **Menu > Filter > All Contacts**.

Share contact information

To beam a contact's details

You can quickly send contact information to another mobile phone or device through Bluetooth beaming.

1. On the Contacts screen, select a contact.
2. Tap **Menu > Send Contact > Beam**, then select a device where to beam the contact to.

> **Note**   Before beaming, make sure Bluetooth is turned on and set to visible mode on your device and the target mobile device. You can also beam contact information to your computer. See Chapter 9 for details.

To send contact information via text messaging

1. On the Contacts screen, select a contact.
2. Tap **Menu > Send Contact > SMS \ MMS**.
3. Select the contact information you want to send, then tap **Done**.
4. In the new text message, enter the mobile phone number of the recipient, then tap **Send**.

To send contact information as a vCard

A vCard (virtual business card) is a standard file format used for exchanging contact information. vCard files can be exported to Outlook on the computer. From your device, you can send a vCard containing contact information as file attachment in an MMS message.

1. On the Contacts screen, select a contact.

2. Tap **Menu > Send as vCard**.

3. A new MMS message is created with the vCard file attached. Enter the mobile phone number or e-mail address of the recipient, then tap **Send**.

For more information, see "MMS" in Chapter 6.

11.6 Comm Manager

Comm Manager is a central location where you can easily turn on and off the communication features of your device such as the phone, Wi-Fi, data connection, Bluetooth, and more.

To access the Comm Manager

Do one of the following:

• On the TouchFLO Home screen, slide to the **Settings** tab and then touch **Communications**.

• Touch **Start > Programs > Comm Manager**.

• Touch **Start > Settings > Connections** tab **> Comm Manager**.
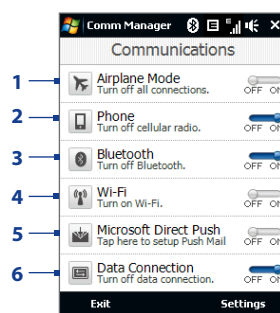
1 Switch Airplane Mode on or off. Turning on Airplane Mode turns off the phone, Wi-Fi and Bluetooth functions. For more information, see "To enable or disable Airplane Mode" in Chapter 2.

2 Switch the phone on or off. Tap **Settings > Phone** to set the ring tone and other phone settings. See Chapter 12 for details.

3 Switch Bluetooth on or off. Tap **Settings > Bluetooth** to configure Bluetooth on your device. See Chapter 9 for details.

4 Switch Wi-Fi on or off. Tap **Settings > Wireless Network** to configure wireless network connection settings. See Chapter 8 for details.

5 Switch between automatically receiving (as items arrive) or manually retrieving Outlook e-mails. See Chapter 7 for details.

6 Connect to or disconnect from data services (e.g. GPRS).

11.7 Microsoft® Office Mobile

Microsoft® Office Mobile consists of the following applications:

- **Microsoft® Office Excel® Mobile** lets you create and edit Excel workbooks and templates on your device.
- **Microsoft® Office OneNote® Mobile** lets you create notes with text, photos, and voice recordings for synchronization later with Microsoft® Office OneNote® 2007 on your computer.
- **Microsoft® Office PowerPoint® Mobile** allows you to view (not create) slide show presentations in ***.ppt** and ***.pps** formats.
- **Microsoft® Office Word Mobile** lets you create and edit documents and templates in Word Mobile and save them as ***.doc**, ***.rtf**, ***.txt**, and ***.dot** files.

To use Microsoft Office Mobile

1. Tap **Start > Office Mobile**.
2. Tap the Office Mobile application that you want to use.

Word Mobile and Excel Mobile do not fully support some features of Microsoft® Office Word and Microsoft® Office Excel®. To see a complete list of features that are not supported in Word Mobile and Excel Mobile, see Help on your device.

Tips
- By default, Word Mobile saves documents in **.docx** format, while Excel Mobile saves workbooks in **.xlsx** format. If you want to open these types of files on a computer that uses Microsoft Office 2000, Office XP, or Office 2003, you need to download and install the **File Format Converter** in your computer. You can find this converter at http://www.microsoft.com/downloads/details. aspx?FamilyId=941B3470-3AE9-4AEE-8F43-C6BB74CD1466&displaylang=en.

- If you want Word Mobile to save documents in **.doc** format, tap **Menu > Tools > Options** (or **Menu > Options** when no document is opened), then change the **Default template** to **Word 97-2003 Document (.doc)**.

- If you want Excel Mobile to save workbooks in a format that is compatible with Microsoft Office 2000, Office XP, or Office 2003, tap **Menu > Options** (with no workbook opened), then change the **Template for new workbook** to **Blank 97-2003 Workbook**.

11.8 Notes

Using **Notes**, you can create handwritten and typed notes, record voice notes, convert handwritten notes to text for easy readability, and more.

To create a note

1. Tap **Start > Programs > Notes**. In the note list, tap **New**.

2. Choose an input method and then enter your text.

   Tip For more information about input methods and entering text, see Chapter 4.

3. When finished, tap **OK** to save and return to the note list.

Notes • To select handwritten text, tap and hold next to the writing. As soon as dots appear, and before they form a complete circle, quickly drag across the writing.

   • If a letter crosses three ruled lines, it is treated as a drawing rather than text.

To draw in a note

1. Create or open a note file.

2. Use the stylus to draw on the screen. A selection box then appears around your drawing.
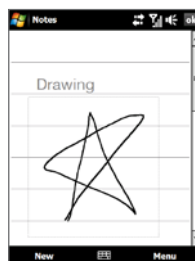
3. Tap **OK** to save.

Note   To select a drawing (for example, to copy or delete it), tap and hold the drawing briefly. When you lift the stylus, the drawing is selected.

To record a voice note
You can create a stand-alone recording (voice note) or you can add a recording to a note.

1. Tap **Start > Programs > Notes**.

2. If you do not see the Recording toolbar, tap **Menu > View Recording Toolbar**.

3. Do one of the following:
   - To add a recording to a note, create or open a note.
   - To create a stand-alone recording, record from the note list.

4. Tap the **Record** icon (⬤) to begin recording your voice. Tap the **Stop** icon (■) when you are finished recording.

Tip   To select the voice recording format, return to the note list and then tap **Menu > Options > Global Input Options** link (at the bottom of the Options screen). On the Input screen, tap the **Options** tab and choose the desired format from the **Voice recording format** list.

11.9 Java

MIDlets are Java applications such as games and tools that can run on mobile devices, while a MIDlet suite is a collection of one or more MIDlets. The **Java** program lets you download, install and manage MIDlets or MIDlet suites on your device. Your device supports Java 2 Micro Edition, J2ME.

To open the Java program
Tap **Start > Programs > Java**.

Install and launch MIDlets/MIDlet suites

There are several ways to install a MIDlet/MIDlet suite.

To download and install via Internet Explorer Mobile

1. Tap **Menu > Install > Browser** to open Internet Explorer Mobile.

2. Locate the MIDlet/MIDlet suite while connected to the Internet.

3. Select the MIDlet/MIDlet suite to download.

4. Information about the MIDlet/MIDlet suite is then displayed. Tap **Continue**.

5. Confirm to start downloading.

6. Select **<root>** or a folder where to install the MIDlet suite to, then tap **OK**.

To install from your device

You can copy MIDlets/MIDlet suites from the computer to your device using the USB sync cable or Bluetooth connection. Copy them to the root folder or any subfolder on your device.

1. Tap **Menu > Install > Local Files**. The program then searches for MIDlets/MIDlet suites on your device and displays them in a list.

2. From the list, tap the MIDlet/MIDlet suite that you want to install.

3. Confirm to start the installation.

4. Select **<root>** or a folder where to install the MIDlet suite to, then tap **OK**.

To run a MIDlet/MIDlet suite

Do one of the following:

- After installation of the MIDlet/MIDlet suite is complete, tap **Yes**.

- On the Java screen, open the folder that contains the MIDlet/MIDlet suite. Select the MIDlet/MIDlet suite, then tap **Launch**.

Manage MIDlets/MIDlet suites

You can organize MIDlets/MIDlet suites into folders for easy identification, renaming, updating, and more. If the device memory is full, uninstall some MIDlets/MIDlet suites to free up memory space.

To create folders

1. On the Java screen, tap **Menu > New Folder**.

2. Enter a folder name, then tap **Create**.

To update a MIDlet/MIDlet suite

Tap and hold a MIDlet/MIDlet suite, then tap **Update**. Alternatively, you can tap **Menu > Actions > Update**.

Java will search for updates for the selected MIDlet/MIDlet suite where it was installed from before.

To uninstall MIDlets

Before you uninstall a MIDlet, make sure that it is not running.

1. Tap and hold the MIDlet, then tap **Uninstall**.

2. Tap **OK** to confirm.

Note   To uninstall all MIDlets and folders from the current folder, tap **Menu > Uninstall All**.

11.10 SIM Manager

SIM Manager allows you to view the contents of your SIM card, transfer contacts from your SIM card to your device or vice versa, and make a call to a SIM contact.

To create a contact on your SIM card

1. Tap **Start > Programs > SIM Manager**.

2. Tap **New** and enter a contact name and phone number.

3. Tap **Save** to save the information on your SIM card.

Tip   To change contact information on your SIM card, tap a SIM contact, edit the information, and then tap **Save**.

To copy SIM contacts to your device

If you have saved contacts on your SIM card, you can copy them into Contacts on your device.

1. On the SIM Manager screen, select the desired contact, or select all SIM contacts by tapping **Menu > Select All**.

2. Tap **Menu > Save to Contacts**.

To copy contacts to the SIM card

Only one phone number per contact name can be stored on a SIM card. When you copy a contact that has several phone numbers to your SIM card, SIM Manager saves each number under a separate name.

To save each number under a different contact name on the SIM card, SIM Manager appends an indicator at the end of each name.

By default, /M, /W and /H are appended to indicate mobile, work and home phone numbers respectively. You can edit this indicator first before you start copying contacts to your SIM card. Indicators of the other types of phone numbers are left empty for you to define them.

1. On the SIM Manager screen, tap **Menu > Tools > Options**.

2. Select the check boxes of the types of phone numbers that you want to be added to the SIM card.

3. Under the **Mark** column, you can change the indicator that will be appended to the SIM contact names for each phone number type. To do so, select a phone type, tap **Edit**, enter your desired indicator, then tap **Save**.

4. After modifying, tap **OK**.

5. Tap **Menu > Contacts to SIM**.

6. Select the check boxes of the contact's phone numbers that you want to copy to your SIM card, then tap **Save**.
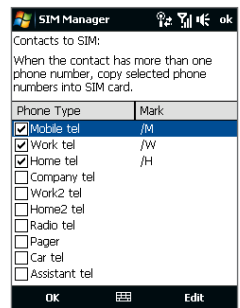
To store your SIM card's phone number

1. On the SIM Manager screen, tap **Menu > Tools > List of Own Numbers**.

2. Tap **Voice Line 1**.

3. Change the name, if desired, then enter your mobile phone number.

4. Tap **Save**.

When your phone number is stored on the SIM card, it will appear on the SIM Manager screen.
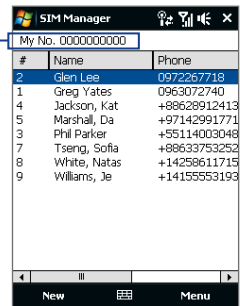
11.11 Spb GPRS Monitor (Available by Country)

Using **Spb GPRS Monitor**, you can monitor how much data you have sent and received on your device, and check the network usage costs by taking into account your service plan details. You can also view connection cost and traffic charts, generate reports of network connection usage, and export reports to CSV files for use with Microsoft® Office Excel® and Access.

Install GPRS Monitor

The GPRS Monitor program is included in the Application disc. To install it onto your device, run the program's installer on your computer. Follow the on-screen instructions on your computer and your device to complete the installation.

The GPRS Monitor icon and pop-up window

You can enable the GPRS Monitor icon to be shown on the title bar. This icon shows the data connection or dial-up connection speed, data traffic, and battery status.

To show the GPRS Monitor icon on the title bar

1. Tap **Start > Programs > Spb GPRS Monitor**.

2. Tap **Tools > Options > Icon** tab.

3. Select the **Show taskbar icon** check box.

By default, the GPRS Monitor icon shows three bars that represent the following status information:

Icon Bar 2: Traffic
(Full bar corresponds to
100%. Each bar is 20%.)

Icon Bar 1: Speed
(Full bar corresponds
to 19KB/sec.)

Icon Bar 3: Battery
(Each bar corresponds to
20% of the total charge.)
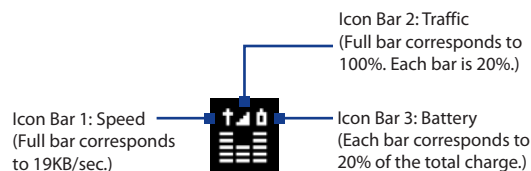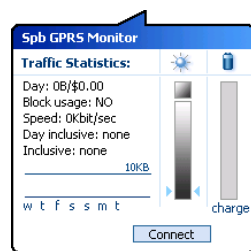
When you tap the GPRS Monitor icon on the title bar, a pop-up window opens and shows you detailed statistics about your data transfers, such as the data size you have just transferred and its cost, the allowable amount of data that you can transfer, and more.

Set up monitoring and notification

To select the connection to be monitored

1. On the GPRS Monitor screen, tap **Tools > Options > Connection** tab.

2. Select the **Enable connection monitoring** check box.

3. In the **Connection** list, select the connection you want to monitor.

To enter your service plan details

Service plan details, or tariffs, determine the price that you pay for your data transfers. The tariff may either be flat rate or time-based, depending on whether you're using GPRS or a phone dial-up connection for data transfers.

Contact your wireless service provider to find out about your tariff, and enter the information in the **Tariff** tab or the **Tariff Details** tab on the Options screen.

Note   The calculation of network usage costs is based on the information that you entered, and is only an estimate. The actual amount billed by your service provider may differ.

To set up traffic limit notifications

You can set up traffic limit notifications if you want to be notified when a traffic limit is reached.

1. On the GPRS Monitor screen, tap **Tools > Options**.

2. Enable the notifications on the **Day Warn** and **Month Warn** tabs. You can specify up to three daily and three monthly limits.

Once traffic reaches one of these limits, you will receive a notification.

View charts and reports

On the GPRS Monitor, you can view network connection cost charts and traffic charts, as well as generate detailed reports of network connection usage during a given period of time. These reports can be exported to CSV files that you can open using Excel, Access, or other similar spreadsheet and database software applications.

To view charts and generate reports

On the GPRS Monitor screen:

- Tap the **Chart** tab to view the network connection cost charts and traffic charts.

- Tap the **Report** tab to generate reports on network traffic and tariff.

For more information about using Spb GPRS Monitor, see Help on your device.

11.12 Sprite Backup

Use **Sprite Backup** to back up data, which includes settings, files, contacts, and all other information, to the device memory, storage card or a computer.

Note   If you are sending your device for repair or performing a hard reset, data from your device will be lost. It is recommended that you use Sprite Backup to back up your files including settings, contacts and other information to your computer or a storage card.

To install Sprite Backup

1. Make sure your device is connected to your computer via a USB cable.

2. Insert the Application disc on your computer's disc drive and start the Sprite Backup installation.

3. Follow the on-screen instructions to install the Sprite Backup PC Manager to your computer and the Sprite Backup program onto your device.

To open Sprite Backup

On your device, tap **Start > Programs > Sprite Backup**.

Before you start to back up or restore files, please check the following:

• Make sure that the device storage memory has at least 15MB of free space. To check, tap **Start > Settings > System** tab **> Memory > Main** tab.

• If you have a storage card installed, make sure that it has at least 100MB of free space. To check, tap **Start > Settings > System** tab **> Memory > Storage Card** tab.

To back up data

1. To back up data remotely to a computer, enable the PC backup feature first. See "To enable remote backup to a computer" for instructions.

2. On the Sprite Backup main screen, tap **Backup**.

3. On the Backup Data Selection screen, you will see a tree view of the data and files on your device. Tap "**+**" on the left of an item to view its sub-items. Use the check boxes to select or exclude items for backup.
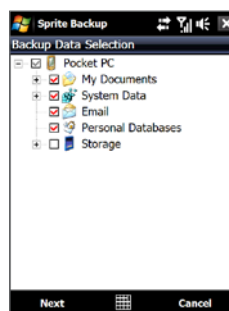
Main screen   Backup Data Selection screen

Notes · It is recommended that you do not back up the File System of your device as this may cause restoration problems. To not back up the File System, expand the **System Data** folder by tapping "+" on its left side and then clearing the **File System** checkbox.

· When File System is not backed up, you will need to reinstall all third party software to your device after you do a hard reset and restored your files.

4. After selecting data items, tap **Next**. The Save As screen then appears.

5. Enter a file name for the backup file.

6. In **Location**, choose whether to save the backup file to **\Storage Card** (if one is installed), **\My Documents** on the device memory, or to a **PC**.

Tip When backing up to a storage card or to \My Documents on the device memory, you can also choose a specific folder where to save the backup file.

7. Tap **Next**.

8. On the Device Reset Required screen, tap **Next** to start the backup.

Note Do not start and use any programs on your device until the backup process is completed.

To restore data

1. On the Sprite Backup main screen, tap **Restore**. Sprite Backup then searches for all available backup files from the device memory and storage card and then displays them on the Open File screen.

    Tip To search for backup files created on your computer, connect your device to your computer and run Sprite Backup PC Manager on your computer. In Sprite Backup's Open File screen on your device, set **Location** to **PC**.

2. Select the backup file you want to restore and then tap **Next**.

3. In the tree view, select the items you want to be restored to your device and then tap **Next**.

    Note If your phone has SIM PIN lock enabled, a screen will appear asking you to set up Sprite Backup SIM Unlock feature. It is recommended that you set up this feature to avoid file restoration errors. To set up, tap **Setup Phone SIM Lock**.

4. On the Device Reset Required screen, tap **Next** to begin restoring data.

Note Sprite Backup soft resets your device first before it begins the backup or restoration process. It soft resets again after the operation is completed.

To enable remote backup to a computer

1. On the Sprite Backup main screen, tap **Options > Networking > PC**.

2. Select the **Enable PC Backup** check box and choose whether to do the remote backup to your computer via ActiveSync or network.

For more information about using Sprite Backup, see the Sprite Backup Help or download the Sprite Backup User Manual from http://www.spritesoftware.com/.

11.13 Tasks

Use **Tasks** to keep track of things you need to do. A task can occur once or repeatedly (recurring).

Your tasks are displayed in a task list. Overdue tasks are displayed in red. A reminder will be displayed when you have new tasks to be completed.

To create a task

1. Tap **Start > Programs > Tasks**.

2. Tap **Menu > New Task**, enter a subject for the task, and fill in information such as start and due dates, priority, and so on.

3. Specify the type of category for your task, so that it can be grouped with other related tasks. Tap **Categories**, then select a preset category (Business, Holiday, Personal, or Seasonal), or tap **New** to create your own category.

4. When finished, tap **OK**.

To change the priority of a task

Before you can sort tasks by priority, you need to specify a priority level for each task.

1. Tap **Start > Programs > Tasks**.

2. Tap the task you want to change the priority for.

3. Tap **Edit**, and tap a priority level in the **Priority** box.

4. Tap **OK** to return to the task list.

Note   All new tasks are assigned a Normal priority by default.

To show start and due dates in the task list

1. Tap **Start > Programs > Tasks**.

2. Tap **Menu > Options**.

3. Select the **Show start and due dates** check box, then tap **OK**.

To send task information as a vCalendar

After selecting the task to send in the Task screen, tap **Menu > Send as vCalendar** to send a vCalendar containing task details as a file attachment in an MMS message. For more information, see "MMS" in Chapter 6.

11.14 Voice Recorder

Voice Recorder lets you record your voice and quickly send it as an MMS or e-mail attachment, beam it via Bluetooth, or set the recorded voice as your ring tone.

Note   Voice Recorder saves voice recordings in AMR-NB (Adaptive Multi-Rate Narrowband) format only. This is a common speech audio format used in mobile devices.

To record your voice

1. Tap **Start > Programs > Voice Recorder**.

2. Hold the device's microphone close to your mouth.

3. Touch **Record** or ● to start recording. Tap **Stop** or ■ to end the recording.

To select or create a folder where to save voice recordings

By default, all recordings are saved in the **My Voices** folder of the device. You can choose another folder or create a new folder to save your voice recordings.

Note   If a storage card is installed before you open Voice Recorder, the recordings are saved in the **My Voices** folder on the storage card by default.

1. Tap the arrow beside the folder name on the top-left of the screen.

2. In the menu that opens, choose an existing folder or touch **Add/Delete** to create a new folder.

To play back a voice recording

On the Voice Recorder screen, touch a voice recording, or navigate to a voice recording and then tap **Play** (▶).

Tip   If you need to adjust the sound volume, touch any of the status icons on the title bar and then touch the **Volume** icon (🔊) to open the System Volume screen where you can adjust the volume.

To send a voice recording through MMS

Select a voice recording, then tap **Menu > Send via MMS**. A new MMS message is then created with the voice recording automatically inserted as an audio clip.

See "MMS" in Chapter 6 to learn how to compose and send MMS messages.

To send a voice recording via e-mail

Select a voice recording, tap **Menu > Send**, and then select an e-mail account. This creates a new e-mail message with the voice recording inserted as a file attachment.

See "Using E-mail" in Chapter 6 to learn how to send e-mails.

To beam a voice recording via Bluetooth

1. Select the voice recording you want to beam, then tap **Menu > Beam File**.

   Tip   To select multiple recordings, tap and drag over the desired recordings or tap **Menu > Select All**.

2. Tap the device you want to send the voice recording to.

3. On the other device, accept the file transfer to receive the file.

To set a voice recording as ring tone

Select the voice recording, then tap **Menu > Set as Ringtone**.

To rename or move a recording

1. Select the voice recording, then tap **Menu > Rename/Move**.

   Tip   To select multiple recordings, tap and drag over the desired recordings or tap **Menu > Select All**. Note that you can move multiple files, but you cannot rename multiple files simultaneously.

2. In **Name**, enter the new voice recording name.

3. To move the voice recording, select the new destination **Folder** and **Location**. Tap **OK**.

11.15 Voice Speed Dial

You can record voice tags so that you can dial a phone number or launch programs simply by speaking a word.

To create a voice tag for a phone number

1. On the TouchFLO Home screen, slide to the **People** tab and then touch **All People** to open the Contacts screen.

    Tip   You can also touch **Start > Contacts** to open the Contacts screen.

2. Do one of the following:

    • Scroll to the desired contact, then touch **Menu > Add Voice Tag**.

    • Touch the desired contact to open the contact card and then touch **Menu > Add Voice Tag**.

    • Use the stylus to tap and hold the desired contact, then tap **Add Voice Tag**.

3. Select the phone number that you want to create a voice tag for, then touch **Record** (●).

    Tip   To ensure voice recognition accuracy, record your voice in a quiet place.

4. When completed, a **Voice Tag** icon is displayed on the right of the item.

Select the
desired
phone
number.

Touch the **Record** icon to start recording.
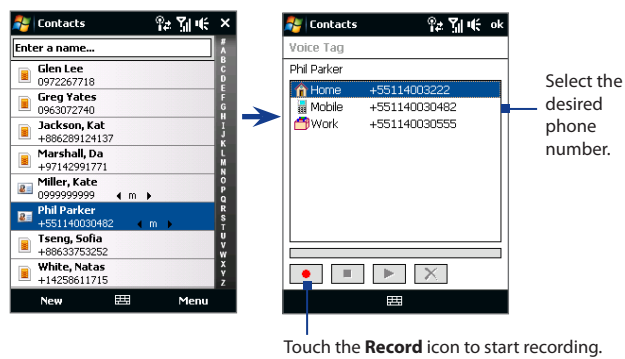
To create a voice tag for a program
Touch **Start > Settings > Personal** tab **> Voice Speed Dial > Application** tab.

The **Application** tab displays a list of all installed programs on your device. The procedure for creating a voice tag for a program is the same as the procedure for creating a voice tag for a phone number.

To make a call or launch programs using a voice tag
1. Touch **Start > Programs > Voice Speed Dial**.

2. After the beep, say the recorded voice tag that you have assigned to the phone number you want to call or the program you want to launch. The system will repeat the voice tag, then dial out or launch the program automatically.

Note   If the system cannot recognize your voice tag, move to a quiet place, then try again while speaking clearly.

To view and test the voice tags you have created

1. Touch **Start > Settings > Personal** tab **> Voice Speed Dial**.

2. The **Voice Tag** tab displays a list that contains all the voice tags you have created. Select an item in the list, then do one of the following.

   • Touch the **Record** button (●) to rebuild the voice tag.

   • Touch the **Play** button (▶) to play the voice tag.

   • Touch the **Delete** button (✕) to delete the voice tag.

11.16 ZIP

The **ZIP** program increases the storage capacity of your device by allowing you to compress files in the conventional ZIP format. It also allows you to extract files from a zip file.

To start ZIP on your device

Tap **Start > Programs > ZIP**.

Each time you start ZIP, it searches for files that have the .zip file extension, and displays these files on the Archive List screen.

To open a ZIP file and extract files

1. Touch a zip file to open it, or navigate to a zip file and then touch **File > Open Archive**.

   Note   You cannot select multiple ZIP files.

2. From the zip file, select files by doing one of the following:

   • Touch a file to select it.

   • To select several files, touch **Menu > Action** and make sure **Multi-Select Mode** is selected. Select files by touching each file. (Touch a selected file to deselect it).

   • To select all files, touch **Menu > Action > Select All**.

3. Touch **Menu > Action > Extract**.

4. Choose a folder where the files will be extracted to, then touch **Extract**.

5. Touch **Menu > File > Close Archive** to close the zip file.

To create a new zip archive

1. Touch **File > New Archive**.

2. On the Save As screen, enter the zip file name and choose a folder where you want to save it. You can also choose whether to save the zip file on the device's main memory or a storage card.

3. Touch **Save**.

4. Touch **Menu > Action > Add**.

5. Navigate to the folder that contains the files you want to archive.

6. Select files to add by doing one of the following:

   - Touch a file to select it.
   - To select several consecutive files, drag over the files.
   - To select several non-contiguous files, use the stylus to tap and hold on the screen and then select **Multi-Select Mode**. Select files by tapping each file. (Tap a selected file to deselect it).
   - To select all files, use the stylus to tap and hold on the screen and then tap **Select All**.

7. Touch **Add**.

8. Touch **Menu > File > Close Archive** to save and close the zip file.

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Chapter 12

Managing Your Device

12.1 Copying and Managing Files

You can copy files between your device and computer, or copy files to a storage card installed on your device. You can also efficiently manage your files and folders using File Explorer.

To copy files using Windows Mobile Device Center or ActiveSync

1. Connect your device to the computer.

2. Click **File Management > Browse the contents of your device** in Windows Mobile Device Center on your computer, or click **Explore** in ActiveSync on your computer. This opens Windows Explorer on your computer and displays the contents of your device.

3. To copy a file from your device to your computer:

   a. Browse the contents of your device, right-click the file you want to copy, then click **Copy**.

   b. Right-click a folder on your computer, then click **Paste**.

4. To copy a file from your computer to your device:

   a. Browse the folders on your computer, right-click the file you want to copy, then click **Copy**.

   b. Right-click a folder on your device, then click **Paste**.

To manage files on your device using File Explorer
File Explorer lets you browse and manage the contents of your device. The root folder on the device is named **My Device**, and contains the following folders: My Documents, Program Files, Windows, and more.

1. Tap **Start > Programs > File Explorer**.

2. Tap a folder or file to open it.

3. To return to an upper level folder, tap **Up** and select the folder.

4. To quickly delete, rename, or copy a file, tap and hold the file, then choose

the desired operation on the shortcut menu. To copy or delete multiple files, tap and drag over the desired files to select, tap and hold the selection, then choose the desired operation on the shortcut menu.

To copy files to a storage card

1. Make sure that the storage card is properly installed on your device.

2. Tap **Start > Programs > File Explorer** and navigate to the appropriate folder.

3. Tap and hold the file you want to copy, then tap **Copy**.

4. Tap the down arrow (⬇), then tap **Storage Card** in the list.

5. Tap and hold an empty area on the screen and then select **Paste** on the menu.

Tip   You can configure programs such as Word Mobile and Excel Mobile to directly save edited files onto a storage card. In the program's file list, tap **Menu > Options**, then select the **Storage Card** in the **Save to** box.

12.2 Settings on your Device

You can adjust the device settings to suit the way you work. To see all available settings, slide to the **Settings** tab on the Home screen and tap **All Settings**.

Personal tab

Icon	Description
	Buttons Assign a program or function to a hardware button. You can also set the behavior when you press and hold the END key.
	Input Set options for each of the input methods.
	Lock Set a password for your device.

Icon	Description
	Menus Set which programs will appear in the Start menu.
	Owner Information Enter your personal information on your device.
	Phone Customize phone settings such as ring tone, set a PIN number for your SIM card, and more.
	Sounds & Notifications Enable sounds for events, notifications, and more, and set the type of notification for different events.
	Today Customize the appearance and the information to be displayed on the Home screen.
	Voice Speed Dial Create voice tags for voice dialing contacts and SIM contacts as well as for launching programs.

System tab

Icon	Description
	About This is where you can see basic information such as the Windows Mobile® version and type of processor used on your device. You can also specify a name for your device.
	Certificates See information about certificates that are installed on your device.
	Clear Storage Reset your device to factory default settings.
	Clock & Alarms Set the device clock to the date and time of your locale or to a visiting time zone when you're traveling. Alarms can also be set at specified days and times of a week.

Icon	Description
	Customer Feedback Set your device to automatically send information about how you use Windows Mobile. By default, this option is disabled.
	Device Information See information about the firmware version, hardware, identity, and the duration of calls made on your device.
	Encryption Encrypt files on your storage card. Encrypted files will only be readable on your device.
	Error Reporting Enable or disable the device's error reporting function. When this function is enabled and a program error occurs, technical data about the state of the program and your computer will be logged in a text file and delivered to Microsoft's technical support if you choose to send it.
	External GPS Set the appropriate GPS communication ports, if required. You may need to do this when there are programs on your device that access GPS data or you have connected a GPS receiver to your device. See Help for details.
	Managed Programs Displays the programs that were installed on your device using System Center Mobile Device Manager.
	Memory Check the device memory allocation status and storage card information.
	Microphone AGC Adjust the volume of your voice automatically when you are recording.
	Power Check the remaining battery power. You can also set the brightness of the backlight and timeout for turning off the display (switching device to Sleep mode) to conserve battery power.
	Regional Settings Set the regional configuration to use, including the format for displaying numbers, currency, date, and time on your device.
	Remove Programs Remove programs that you installed on your device.

Icon	Description
	Screen Recalibrate the screen, apply ClearType, and change the screen text size.
	Task Manager Stop running programs and set the (⊠) button to end programs immediately when you tap the button. For more information, see "Using Task Manager" in this chapter.
	TouchFLO You can enable or mute the finger scrolling and panning sound. You can also enable or disable the large Start menu, and choose to show or hide the System Status screen when title bar icons are tapped.
	Windows Update Link to Microsoft's web site and update Windows Mobile® on your device with the latest security patches or fixes, if they are available.

Connections tab

Icon	Description
	Advanced Network Set the line type to use when making circuit switch data (CSD) connection, set the GPRS authentication method, and set the SMS service preference.
	Beam Set your device to receive incoming Bluetooth beams.
	Bluetooth Turn Bluetooth on, set your device to visible mode, and scan for other Bluetooth devices.
	Comm Manager Manage your device's connections (including GPRS, Wi-Fi, and Bluetooth), turn the phone on or off, and enable or disable the Direct Push function.
	Connection Setup Configure your device's data connections, such as GPRS, WAP, and MMS, based on the detected or selected network operator. See "Using Connection Setup" in this chapter for details.

Icon	Description
	Connections Set up one or more types of modem connections for your device, such as phone dial-up, GPRS, and more, so that your device can connect to the Internet or a private local network.
	Domain Enroll Enroll your device in your company's domain to let System Center Mobile Device Manager to manage the device. Please ask your Server Administrator for more details.
	USB to PC Set a USB serial connection between your device and PC when there are problems connecting with ActiveSync.
	Wi-Fi Scan for available wireless networks.
	Wireless LAN See information about the active wireless network, and customize Wi-Fi settings.

12.3 Changing Basic Settings

Date and time

To set the date and time

1. On the Home screen **Home** tab, tap the time display and then tap the **Time** tab.

    Tip Tap the **More** tab and select the **Display the clock on the title bar in all programs** option to show the clock on all screens.

2. Select the correct time zone and change the date or time.

Note During synchronization, the time on your device is updated with the time on your computer.

To set the date and time for a different location

If you visit or communicate with someone in a particular time zone often, you can select it as your visiting time zone.

1. On the Home screen **Home** tab, tap the time display and then tap the **Time** tab.

2. Tap **Visiting**.

3. Select the correct time zone and change the date or time.

Regional settings

The style in which numbers, currency, dates, and times are displayed is specified in regional settings.

1. On the Home screen, slide to the **Settings** tab and then tap **All Settings**.

2. On the **System** tab, tap **Regional Settings > Region** tab and then select your region from the list.

    Note   This does not change the language of your device's operating system.

    The region you select determines which options will be available on the other tabs.

3. To customize regional settings further, tap the appropriate tabs and set the desired options.

Display settings

To adjust the screen brightness

1. On the Home screen, slide to the **Settings** tab and then tap **All Settings**.

2. On the **System** tab, tap **Power > Backlight** tab.

3. Adjust the brightness by dragging the slider under **On battery power** and **On external power**.

To set the backlight to dim after a time delay

1. On the Home screen, slide to the **Settings** tab and then tap **All Settings**.

2. On the **System** tab, tap **Power > Advanced** tab.

3. In **On battery power** and **On external power**, select the **Turn off backlight if device is not used for** check box, then specify the time delay.

To increase or decrease the size of text on the screen

1. On the Home screen, slide to the **Settings** tab and then tap **All Settings**.

2. On the **System** tab, tap **Screen > Text Size** tab.

3. Move the slider to increase or decrease the text size.

Device name

The device name is used to identify your device in the following situations:

- Synchronizing with a computer
- Connecting to a network
- Restoring information from a backup

Note   If you synchronize multiple devices with the same computer, each device must have a unique name.

To change the device name

1. On the Home screen, slide to the **Settings** tab and then tap **All Settings**.

2. On the **System** tab, tap **About > Device ID** tab.

3. Enter the device name.

Notes   • The device name must begin with a letter, consist of letters from **A** to **Z**, numbers from **0** to **9**, and cannot contain spaces. Use the underscore character to separate words.

   • If you enroll your device to your company's domain, the device name will be changed to be the same as the one used to enroll the device.

Ringer settings

To change the ring type and ring tone

1. On the Home screen, tap **Start > Settings > Personal** tab **> Sounds & Notifications > Notifications** tab.

2. In **Event**, select **Phone: Incoming call**.

3. Select the **Ring type** and **Ring tone** you want to use and then tap **OK**.

Tips
- You can use ***.wav**, ***.mid**, ***.mp3**, ***.wma**, or other types of sound files that you downloaded from the Internet or copied from your computer as ring tones. To quickly set the music file as a ring tone, tap and hold the music file and then select **Set As Ringtone**. For a complete list of supported audio file formats for ring tones, see "Specifications" in the Appendix.
- To use your sound files as ring tones, copy them first to the **/My Documents/My Ringtones** folder on your device, then select the sound from the **Ring tone** list of your device. For more information about copying files, see "Copying and Managing Files" in this chapter.

Alarms and notifications

To set an alarm

1. On the Home screen **Home** tab, tap the time display and then tap the **Alarms** tab.

2. Tap **<Description>** and enter a name for the alarm.

3. Tap the day of the week for the alarm. Select multiple days by tapping each desired day. Tap again to deselect the day.

4. Tap the time to open a clock and set the time for the alarm.

   Tip   You can drag the hour and minute hands of the clock to set the time.

5. Tap the alarm icon (🔔) to specify the type of alarm you want. You can choose a flashing light, a single sound, a repeating sound, or vibration.

6. If you choose to play a sound, tap the list next to the **Play sound** check box and tap the sound you want.

To choose how to be notified about events or actions

1. On the Home screen, slide to the **Settings** tab and then tap **Sound > Advanced**.

2. On the **Sounds** tab, choose how you want to be notified by selecting the appropriate check boxes.

3. On the **Notifications** tab, in **Event**, tap an event name and choose how you want to be notified by selecting the appropriate check boxes. You can choose from several options, such as a special sound, a message, a flashing light, or vibrate.

   Tip   Turning off sounds and flashing light notifications helps conserve battery power.

Phone services

Your device can directly link to the mobile phone network, and enable you to access and change the settings of various phone services for your device. Phone services may include Call Forwarding, Call Waiting, Voicemail, and more. Contact your wireless service provider to find out about the availability of phone services for your device.

To access and change settings of phone services

1. On the Home screen, slide to the **Settings** tab and then tap **All Settings**.

2. On the **Personal** tab, tap **Phone > Services** tab.

3. Select the service you want to use, then tap **Get Settings**.

4. Choose your desired options, then tap **OK**.

For more information about customizing settings of phone services, see Help on your device.

12.4 Using Connection Setup

Connection Setup configures your device's data connections, such as GPRS, WAP, and MMS, for you so that you do not need to enter the settings manually onto your device. All you need to do is to select your network operator, then Connection Setup does all the configuration for you.

To automatically configure the device's data connections

The first time you power on your device, or when you insert a new SIM card and then power on your device, Connection Setup will display a notification message to inform you that it will automatically configure your device's connection settings.
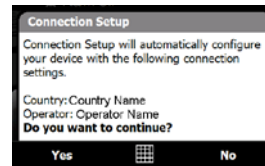
1. Tap **Yes** on the notification message.

   Note   If your SIM card supports multiple network operator profiles, the next message that appears will display network profile choices. Select the profile you want to use and tap **OK**.

2. When prompted to automatically configure your device to the proper network settings, tap **Yes**.

   Connection Setup configures your device's data connection settings.

3. After the Connection Setup completes the configuration, tap **Restart**.

To manually select the network operator to use for data connections

You can also manually select your network operator from Connection Setup's settings screen. Connection Setup will then reconfigure your device's data connections settings based on the operator that you selected.

1. On the Home screen, slide to the **Settings** tab and then tap **All Settings**.

2. On the **Connections** tab, tap **Connection Setup**.

3. Select the network **Country** and **Operator** you want to use, then tap **OK**.

Note   If you choose a **Country** and/or **Operator** that is different from the installed SIM card network operator, you may not be able to access network services.

4. When prompted to confirm whether you want to configure the data connection settings based on the selected network, tap **Yes**.

   Connection Setup configures the data connection settings.

5. After the Connection Setup completes the configuration, tap **Restart**.

12.5 Using Task Manager

Task Manager lets you view and stop running programs, configure the ![X] button, and enable the Quick Menu on the Home screen.

To open Task Manager
- Tap the **Quick Menu** button on the top right corner of the Home screen to open the Quick Menu, then tap ![icon].
- On the Home screen, slide to the **Settings** tab and then tap **All Settings**. On the **System** tab, tap **Task Manager**.

To switch back to a running program
- Tap the program name in the Quick Menu.
- On the Task Manager screen, tap and hold the program name on the **Running** tab, then tap **Activate**.

To configure the Exit (![X]) button
You can configure the **Exit** button to shut down running programs when the button is tapped, or to just temporarily close the program screen but keep the program running.

1. On the Task Manager screen, tap the **Button** tab.

2. Select the **Enable the "X" button to end running programs** check box.

> **Note**   When the **Enable the "X" button to end running programs** check box is not
> selected, tapping the **Exit** button will only close a program screen. The program
> is not ended and continues to run in the background.

3. Choose the action for shutting down programs (by tapping the ❌ button, or
by tapping and holding the ❌ button).

4. Tap **OK**.

To close running programs from the Task Manager

1. On the Task Manager screen, tap the **Running** tab.

2. Do one of the following:

- Select the check box of the programs that you want to close, then tap
Stop Selected.

- Tap **Stop All** to close all programs in the list.

- Tap **Menu > Stop All but Selected** to close all programs except those
which check boxes are selected.

> **Tip**   You can also close running programs from the Quick Menu on the Home screen. See
> "Quick Menu" in Chapter 1 for details.

To add a running program to the exclusive list

If you add a running program to the **Exclusive Programs List**, it will not be closed
when you tap **Stop Selected** or **Stop All** and will not be listed in the Quick Menu
on the Home Screen.

1. On the Task Manager screen, tap the **Running** tab.

2. Tap and hold the program name, then tap **Add Exclusive**.

> **Tip**   To remove a program from the exclusive list, tap the **Exclusive** tab, select the check
> box of the program, then tap **Remove**.

To set the sorting preference and program icon size in the Quick Menu

1. On the Task Manager screen, tap the **Others** tab.

2. In **Sort programs in Quick Menu by**, choose whether to sort according to **Program name** or **Memory usage**. The list will be sorted in ascending order.

3. In **Program icon size in Quick Menu**, choose whether to use **Small size** or **Large size**.

12.6 Protecting Your Device

Protect your SIM card with a PIN

You can protect your SIM card from unauthorized use by assigning a PIN (personal identification number). The default SIM card PIN is provided by your wireless service provider.

To enable the SIM card PIN

1. On the Home screen, slide to the **Settings** tab and then tap **All Settings**.

2. On the **Personal** tab, tap **Phone > Security** tab.

3. Select the **Require PIN when phone is used** check box.

4. Enter the PIN number and then tap **OK**. To change the PIN at any time, tap **Change PIN**.

Tip   Emergency calls can be placed at any time, without requiring a PIN.

Protect your device with a password

You can help keep your data more secure by requiring a password every time the device is turned on.

To set a device password

1. On the Home screen, slide to the **Settings** tab and then tap **All Settings**.

2. On the **Personal** tab, tap **Lock**.

3. Select the **Prompt if device unused for** check box, then specify the idle time before the device requires a password.

4. In the **Password type** box, select the type of password you would like to use.

   Tip If your device is configured to connect to a network, use an alphanumeric password for increased security.

5. Enter the password in both the **Password** and **Confirm** boxes.

6. Tap **OK**. The next time the device is turned on, you will be prompted to enter your password.

Notes • To ensure that you can always make emergency calls, do not begin your password with the digits of your local emergency number.

   • If you entered a hint, the hint will be displayed after the wrong password is entered five times.

   • Each time a wrong password is entered, the device response time gets longer until the device appears to be not responding.

   • If you forget your password, you can hard reset or clear the device memory. Before you do this, make sure you back up your data and files so that you can restore them back to your device. For more information about hard resetting the device and clearing the memory, see "Resetting Your Device" in this chapter.

Encrypt files on your storage card

You can set your device to encrypt files as they are saved on the storage card.

1. On the Home screen, slide to the **Settings** tab and then tap **All Settings**.

2. On the **System** tab, tap **Encryption**.

3. Select **Encrypt files when placed on a storage card**.

Notes • Encrypted files can only be read on the device that encrypted them.

   • Encrypted files are opened just like other files, provided you are using the device that encrypted them. There is no separate step for you to take to read these files.

Important If **Encrypt files when placed on a storage card** is enabled, backup all files from the storage card **before** using Clear Storage, hard reset, or updating the ROM

system software. Otherwise you will no longer be able to access the encrypted files on the storage card. Use ActiveSync or Windows Mobile Device Center to transfer files between your storage card and computer. After the procedure, copy your files back to the storage card.

12.7 Managing Memory

To see how much memory is available for use

1. On the Home screen, slide to the **Settings** tab and then tap **All Settings**.

2. On the **System** tab, tap **Memory** > **Main** tab. The amount of memory allocated to data storage versus program storage is displayed, as well as the amount of memory in use versus the available memory.

To see the available space of the storage card

1. On the Home screen, slide to the **Settings** tab and then tap **All Settings**.

2. On the **System** tab, tap **Memory > Storage Card** tab.

If your device is running low on memory, try the following to free memory on your device:

- Close programs which are not in use.

- Install a storage card and then move files and e-mail attachments to the storage card.

- Delete unnecessary files. Tap **Start > Programs > File Explorer**. Tap and hold the file, and tap **Delete**.

- Delete large files. To find large files on your device, tap **Start > Programs > Search**. In the **Type** list, tap **Larger than 64 KB**, and tap **Search**.

- In Opera Mobile or Internet Explorer Mobile, delete temporary Internet files and clear history information.

- Remove programs you no longer use.

- Reset your device.

12.8 Resetting Your Device

Soft reset

Occasionally, you may need to reset your device. A soft (or normal) reset of your device clears all active program memory and shuts down all active programs. This can be useful when your device is running slower than normal, or a program is not performing properly. A soft reset is also necessary after the installation of some programs. If a soft reset is performed when programs are running, unsaved work will be lost.

To perform a soft reset

1. Pull out the stylus.

2. Remove the back cover.

3. Use the stylus tip to press the red RESET button located at the top, back of the device.

   Your device restarts and displays the Home screen.
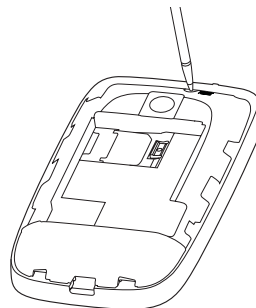
Hard reset

You can also perform a hard reset (also known as a full reset). A hard reset should only be performed if a normal reset does not solve a system problem. After a hard reset, the device is restored to its default settings—the way it was when you first purchased it and turned it on. Any programs you installed, data you entered, and settings you customized on your device will be lost. Only Windows Mobile® software and other pre-installed programs will remain.

Warning!   Your device will be set back to factory default settings. Make sure that any additional installed programs and/or user data have been backed up before you perform a hard reset.

Important   If **Encrypt files when placed on a storage card** is enabled, backup all files from the storage card **before** using Clear Storage, hard reset, or updating the ROM system software. Otherwise you will no longer be able to access the encrypted files on the storage card. Use ActiveSync or Windows Mobile Device Center to transfer files between your storage card and computer. After the procedure, copy your files back to the storage card.

To perform a hard reset

1. Remove the back cover and then pull out the stylus.

2. With the device turned on, press and hold the TALK/SEND and END buttons, then press the RESET button with the stylus tip.

3. Release the RESET button, but continue pressing the TALK/SEND and END buttons until you see this message on the screen:

```
This operation will delete
all your personal data,
and reset all settings
to manufacturer default.
Press Send to restore
manufacturer default, or
press other keys to cancel.
```

4. Release the TALK/SEND and END buttons, then press the TALK/SEND button to perform the hard reset, or press any other button to cancel the reset.

Clear Storage

You can also use Clear Storage to reset your device back to factory default settings.

1. On the Home screen, slide to the **Settings** tab and then tap **All Settings**.

2. On the **System** tab, tap **Clear Storage**.

3. Enter "**1234**" and then tap **Yes**.

12.9 Windows Update

You can update Windows Mobile® on your device with the latest updates, security patches or fixes, if these are available.

To set up Windows Update
The first time you run Windows Update, you need to set up how you want Windows Update to check for patches on the Microsoft web site.

1. On the Home screen, slide to the **Settings** tab and then tap **All Settings**.

2. On the **System** tab, tap **Windows Update**.

3. On the Update Setup screen, tap **Next**.

4. Choose how you want to check for updates, **Manual** or **Automatic**, then tap **Next**.

   Note If you select **Automatic**, you will be asked if you want to use your current data plan to check for updates. Select or clear the **Use my data plan to check for and download updates** check box and tap **Next**.

5. Tap **Finish**.

To check for updates
1. On the Home screen, slide to the **Settings** tab and then tap **All Settings**.

2. On the **System** tab, tap **Windows Update**.

3. Tap **Check Now**.

Note Windows Mobile® updates may not be available at all times. Check the Windows Mobile® web site for update information.

To change Windows Update options
1. On the Home screen, slide to the **Settings** tab and then tap **All Settings**.

2. On the **System** tab, tap **Windows Update**.

3. Tap **Menu** and select the option you want to change.

- Tap **Connections** to change how the device connects to the Internet when checking for updates.
- Tap **Change Schedule** to change how Windows Update checks for Windows Mobile® updates**.**
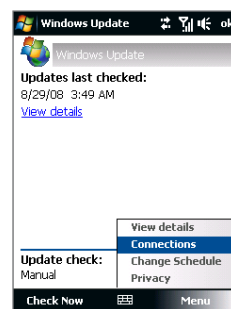
12.10 Battery Saving Tips

How long your battery power lasts depends on the battery type and how you use your device. Try the following to help conserve battery life:

- When the device is not in use, press POWER to switch off the display.
- On the Home screen, slide to the **Settings** tab and then tap **All Settings**. On the **System** tab, tap **Power > Advanced** tab of the Power settings screen. Here, you can specify the time before your device automatically turns off the display and backlight to conserve battery power. For optimum conservation, specify 3 minutes or less.
- On the Home screen, slide to the **Settings** tab and then tap **All Settings**. On the **System** tab, tap **Power > Backlight** tab to adjust the backlight brightness settings.
- Use the AC adapter to plug your device into an external power outlet whenever possible, especially when using a storage card or when using a modem or other peripherals.

- Turn Bluetooth off when you are not using it. Make your device visible to other devices only when you are trying to establish a Bluetooth partnership. For more information about Bluetooth, see Chapter 9.

- Lower the volume.

- Close battery-intensive programs, such as the Camera, when you are done using them. Make sure the programs are ended and are not continuously running in the background. Refer to "Using Task Manager" in this chapter for information on closing programs.

Appendix

A.1 Specifications

Processor	TI's OMAP™ 850 201 MHz
Operating System	Windows Mobile® 6.1 Professional
Memory	• ROM : 256 MB • RAM : 128 MB **Note:** Figures are the total ROM and RAM memory available for use and storage. Since the memory is shared by the operating system, applications, and data, the actual available memory is less than what is specified.
Dimensions	104.5 mm (L) X 59 mm (W) X 15.75 mm (T)
Weight	110 g (with battery)
Display	2.8-inch TFT-LCD flat touch-sensitive screen
Network	Quad-band GSM/GPRS/EDGE: • 850/900/1800/1900 MHz (Band frequency is operator dependent.)
Device Control	• TouchFLO™ • 4-Way navigation control with Enter button
Connectivity	• Bluetooth® 2.0 with EDR • Wi-Fi® (IEEE 802.11 b/g) • HTC ExtUSB™ (11-pin mini-USB 2.0 and audio jack in one)
Audio	Built-in microphone and speaker Ring tone supported formats: • Supports eAAC+, AAC+, AAC, AMR-NB, AMR-WB, QCP, MIDI, MP3, MPEG4-Audio, WMA, WAV formats • 40 polyphonic and standard MIDI format 0 and 1 (SMF) / SP MIDI
Battery	• Rechargeable Lithium-ion battery • Capacity: 1100 mAh • Standy time: Up to 270 hours • Talk time: Up to 480 minutes (The above are subject to network and phone usage.)
Expansion Slot	microSD™ (SD 2.0 compatible)
AC Adapter	Voltage range/frequency: 100 - 240V AC, 50/60 Hz DC output: 5V and 1A

A.2 Regulatory Notices

Regulatory Agency Identifications

For regulatory identification purposes, your product is assigned a model number of **OPAL100**.

To ensure continued reliable and safe operation of your device, use only the accessories listed below with your **OPAL100**.

The Battery Pack has been assigned a model number of **PHAR160**.

Note   This product is intended for use with a certified Class 2 Limited Power Source, rated 5 Volts DC, maximum 1 Amp power supply unit.

Federal Communications Commission Notice

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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 HTC Corporation may void the user's authority to operate the equipment.

Safety precautions for RF exposure

• Use only original manufacturer-approved accessories, or accessories that do not contain any metal.

• Use of non-original manufacturer-approved accessories may violate your local RF exposure guidelines and should be avoided.

FCC RF Radiation Exposure Statement

• This Transmitter has been demonstrated co-location compliance requirements with Bluetooth / Model No:OPAL and WiFi / Model No:OPAL100 series. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

• This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

Exposure to Radio Frequency (RF) Signals

Your device contains a radio transmitter and receiver. The radiated output power is far below the international radio frequency exposure limits. 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 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 standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in usage.

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 device has an internal antenna. Use only the supplied integral antenna. Use of unauthorized or modified antennas may impair call quality and damage the phone, causing loss of performance and SAR levels exceeding the recommended limits as well as result in non-compliance with local regulatory requirements in your country.

To assure optimal phone performance and ensure human exposure to RF energy is within the guidelines set forth in the relevant standards; always use your device only in its normal-use position. Do not touch or hold the antenna area unnecessarily when placing or receiving a phone call. Contact with the antenna area may impair call quality and cause your device to operate at a higher power level than needed. Avoiding contact with the antenna area when the phone is IN USE optimizes the antenna performance and the battery life.

Cautions

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards. Use only the supplied or an approved antenna. Unauthorized antennas, modifications,

or attachments could impair call quality, damage the phone, or result in violation of FCC regulations. Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

Body-worn operation
This device was tested for typical body-worn operations with the back of the phone kept 1.5 cm from the body. To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that maintain a 1.5 cm separation distance between the user's body and the back of the phone, including the antenna. The use of belt-clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

SAR Information
1.370 w/kg@1g

Telecommunications & Internet Association (TIA) Safety Information
Pacemakers
The Health Industry Manufacturers Association recommends that a minimum separation of six inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers:

- Should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON.
- Should not carry the phone in a breast pocket.

- Should use the ear opposite the pacemaker to minimize the potential for interference. If you have any reason to suspect that interference is taking place, turn the phone OFF immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider, or call the customer service line to discuss alternatives.

Other Medical Devices

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

Turn the 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.

WEEE Notice

The Directive on Waste Electrical and Electronic Equipment (WEEE), which entered into force as European law on 13th February 2003, resulted in a major change in the treatment of electrical equipment at end-of-life.

The purpose of this Directive is, as a first priority, the prevention of WEEE, and in addition, to promote the reuse, recycling and other forms of recovery of such wastes so as to reduce disposal.

The WEEE logo (shown at the left) on the product or on its box indicates that this product must not be disposed of or dumped with your other household waste. You are liable to dispose of all your electronic or electrical waste equipment by relocating over to the specified collection point for recycling of such hazardous waste. Isolated collection and proper recovery of your electronic and electrical waste equipment at the time of disposal will allow us to help conserving natural resources. Moreover, proper recycling of the electronic and electrical waste equipment will ensure safety of human health and environment. For more information about electronic and electrical waste equipment disposal, recovery, and collection points, please contact your local city center, household waste disposal service, shop from where you purchased the equipment, or manufacturer of the equipment.

RoHS Compliance

This product is in compliance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) and its amendments.

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