

User Manual

Pocket
Pointe
PC

Please Read Before Proceeding

THE BATTERY IS NOT CHARGED WHEN YOU TAKE IT OUT OF THE BOX.

DO NOT REMOVE THE BATTERY PACK WHEN THE DEVICE IS CHARGING.




YOUR WARRANTY IS INVALIDATED IF YOU OPEN OR TAMPER WITH THE DEVICE'S OUTER CASING.

PRIVACY RESTRICTIONS

Some countries require full disclosure of recorded telephone conversations, and stipulate that you must inform the person with whom you are speaking that the conversation is being recorded. Always obey the relevant laws and regulations of your country when using the recording feature of your Pocket PC Phone.

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Important Health Information and Safety Precautions

When using this product, the safety precautions below must be taken to avoid possible legal liabilities and damages.

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

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

ELECTRICAL SAFETY

This product is intended for use when supplied with power from the designated battery or power supply unit. Other usage may be dangerous and will invalidate any approval given to this product.

SAFETY PRECAUTIONS FOR PROPER GROUNDING INSTALLATION

CAUTION: Connecting to an improperly grounded equipment can result in an electric shock to your device.

This product is equipped with a USB cable for connecting the product to a desktop or notebook computer. Be sure your computer is properly grounded (earthed) before connecting the product to the computer. The power supply cord of a desktop or notebook computer has an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet which is properly installed and grounded in accordance with all local codes and ordinances.

SAFETY PRECAUTIONS FOR POWER SUPPLY UNIT

- **Use the correct external power source**

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

- **Handle battery packs carefully**

This product contains a Li-ion Polymer battery. There is a risk of fire and burns if the battery pack is handled improperly. Do not attempt to open or service the battery pack. Do not disassemble, crush,

puncture, short external contacts or circuits, dispose of in fire or water, or expose a battery pack to temperatures higher than 60°C (140°F).



WARNING: Danger of explosion if battery is incorrectly replaced. To reduce risk of fire or burns, do not disassemble, crush, puncture, short external contacts, expose to temperature above 60°C (140°F), or dispose of in fire or water. Replace only with specified batteries. Recycle or dispose of used batteries according to the local regulations or reference guide supplied with your product.



SAFETY PRECAUTIONS FOR DIRECT SUNLIGHT

Keep this product away from excessive moisture and extreme temperatures. Do not leave the product or its battery inside a vehicle or in places where the temperature may exceed 60°C (140°F), such as on a car dashboard, window sill, or behind a glass that is exposed to direct sunlight or strong ultraviolet light for extended periods of time. This may damage the product, overheat the battery, or pose a risk to the vehicle.

PREVENTION OF HEARING LOSS



CAUTION: Permanent hearing loss may occur if earphones or headphones are used at high volume for prolonged periods of time.

NOTE: For France, Headphones, Earphones, and Wired Remote Controller (listed below) for this device have been tested to comply with the Sound Pressure Level requirement laid down in the applicable NF EN 50332-1:2000 and/or NF EN 50332-2:2003 standards as required by French Article L. 5232-1.

1. Earphone, manufactured by Merry, Model EMC220.
2. Wired Remote Controller, manufactured by HTC, Model RC W100.

SAFETY IN AIRCRAFTS

Due to the possible interference caused by this product to an aircraft's navigation system and its communications network, using this device's phone function on board an airplane is against the law in most countries. If you want to use this device when on board an aircraft, remember to turn off the phone by switching to Flight Mode.

ENVIRONMENT RESTRICTIONS

Do not use this product in gas stations, fuel depots, chemical plants or where blasting operations are in progress, or in potentially explosive atmospheres such as fuelling areas, fuel storehouses, below deck on boats, fuel or chemical transfer or storage facilities, and areas where the air contains chemicals or particles, such as grain, dust, or metal powders. Please be aware that sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

EXPLOSIVE ATMOSPHERES

When in any area with a potentially explosive atmosphere or where flammable materials exist, the product should be turned off and the user should obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Users are advised not to use the equipment at refueling points such as service or gas stations, and are reminded of the need to observe restrictions on the use of radio equipment in fuel depots, chemical plants, or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, clearly marked. These include fueling areas, below deck on boats, fuel or chemical transfer or storage facilities, and areas where the air contains chemicals or particles, such as grain, dust, or metal powders.

ROAD SAFETY

Vehicle drivers in motion are not permitted to use telephony services with handheld devices, except in the case of emergency. In some countries, using hands-free devices as an alternative is allowed.

SAFETY PRECAUTIONS FOR RF EXPOSURE

- Avoid using your device near metal structures (for example, the steel frame of a building).
- Avoid using your device near strong electromagnetic sources, such as microwave ovens, sound speakers, TV and radio.

- 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.

INTERFERENCE WITH MEDICAL EQUIPMENT FUNCTIONS

This product may cause medical equipment to malfunction. The use of this device is forbidden in most hospitals and medical clinics.

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

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.

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.

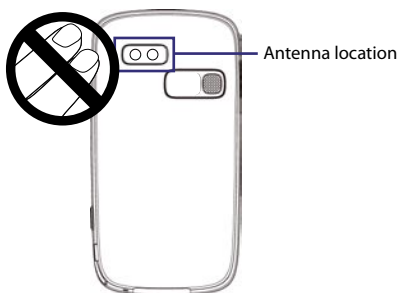
NONIONIZING RADIATION

Your device has an internal antenna. This product should be operated in its normal-use position to ensure the radiative performance and safety of the interference. As with other mobile radio transmitting equipment, users are advised that for satisfactory operation of the equipment and for the safety of personnel, it is recommended that no part of the human body be allowed to come too close to the antenna during operation of the equipment.

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.



GENERAL PRECAUTIONS

- **Heed service markings**

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

- **Damage requiring service**

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

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

- **Avoid hot areas**

The product should be placed away from heat sources such as

radiators, heat registers, stoves, or other products (including, but limited to, amplifiers) that produce heat.

- **Avoid wet areas**

Never use the product in a wet location.

- **Avoid using your device after a dramatic change in temperature**

When you move your device between environments with very different temperature and/or humidity ranges, condensation may form on or within the device. To avoid damaging the device, allow sufficient time for the moisture to evaporate before using the device.

NOTICE: When taking the device from low-temperature conditions into a warmer environment or from high-temperature conditions into a cooler environment, allow the device to acclimate to room temperature before turning on power.

- **Avoid pushing objects into product**

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

- **Mounting accessories**

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

- **Avoid unstable mounting**

Do not place the product with an unstable base.

- **Use product with approved equipment**

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

- **Adjust the volume**

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

- **Cleaning**

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

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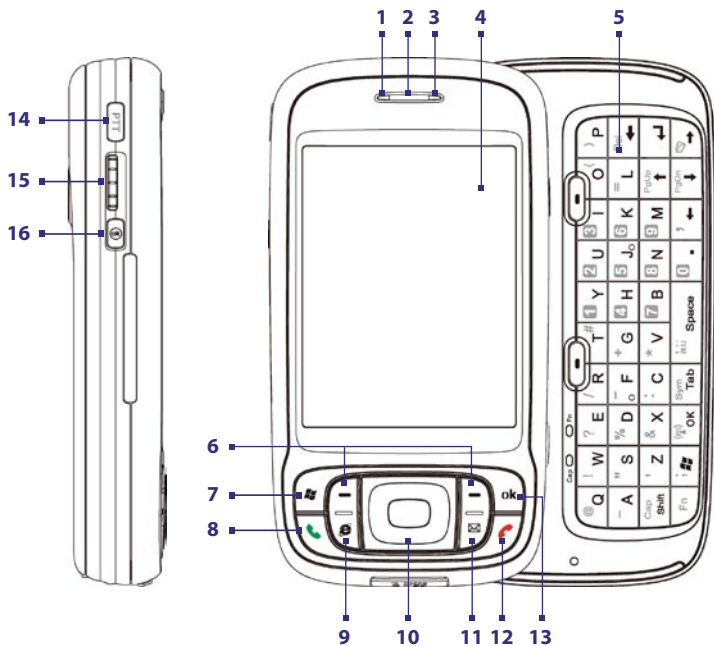
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Chapter 1

Getting Started

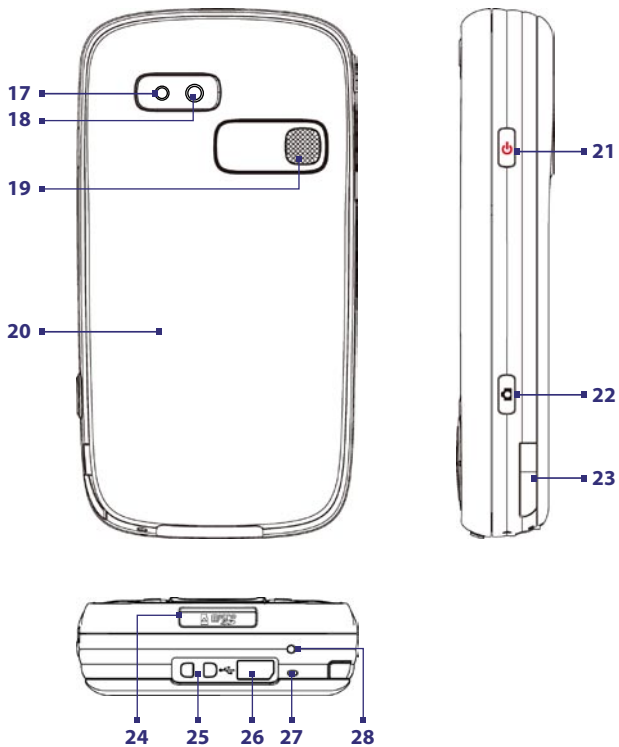
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1.1 Getting to Know Your Device and Its Accessories



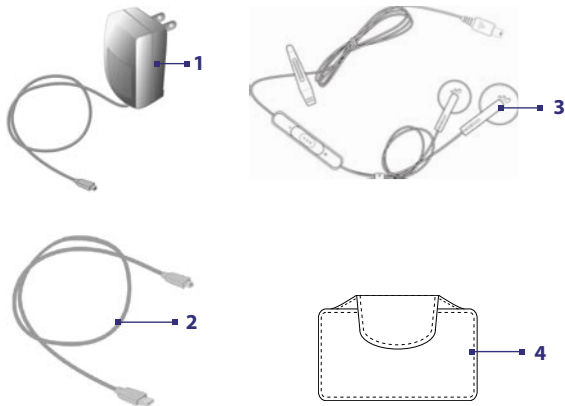
No.	Item	Function
1	Notification LED 1	This bi-color LED shows Green and Amber lights for UMTS/GSM standby, message, network status, notification, and battery charging status.
2	Earpiece	Listen to a phone call from here.
3	Notification LED 2	This tri-color LED shows a blinking Blue light for Bluetooth system notification of powered-up and ready to transmit Bluetooth signal, or a blinking Green light for Wi-Fi status (when both Bluetooth and Wi-Fi are enabled, the Blue and Green lights blink alternately). The Amber light indicates GPS notification.
4	Touch Screen	Tap the screen with the stylus to write, draw, or make a selection.
5	Hardware Keyboard	See Chapter 2 for details.
6	Left/Right SOFT KEYS	Press to execute the command shown in the label above the button.
7	START Button	Press to open the Start menu.
8	TALK Button	Press to answer an incoming call or dial a number.
9	IE Button	Press to launch Internet Explorer.
10	NAVIGATION Control/ENTER	Press this multi-directional control up, down, left, or right to move through menus and program instructions; carry out the selection by pressing the center button.
11	MESSAGING Button	Press to access Messaging.
12	END Button	Press to end a call or to return to the Today screen.
13	OK Button	Press to confirm your data entries, or to exit the program in use.
14	PTT Button	Press to launch Push-to-Talk (PTT) feature.
15	Trackwheel	When in the Today screen or using applications, scroll up or down to navigate through menus, program instructions; press the trackwheel to carry out selection. During a call or playing music, scroll up or down to adjust the sound volume. When receiving an incoming call, scroll down to silence the audio notification.
16	OK Button	Press to confirm your data entries, or to exit the program in use.

18 Getting Started



No.	Item	Function
17	Car Antenna Connector	Connect to the car antenna while in a car to have better reception quality. Simply peel off the rubber cap and connect the antenna jack. Replace the rubber cap if unused.
18	GPS Antenna Connector	If you need better GPS signal reception, you can connect an external GPS antenna. Simply peel off the rubber cap and connect the antenna jack. Replace the rubber cap if unused.
19	Speaker	Listen to audio media from here.
20	Back Cover	This covers the battery compartment.
21	POWER Button	Press and hold to turn on the device. When the device is turned on, press to turn off the display temporarily. This switches your device to Sleep mode, and you can still receive calls and messages. Press and hold (for about 5 seconds) to turn off the power completely. All functions including the phone will be unavailable for use.
22	CAMERA Button	Press to launch the Camera; press again to take a photo or video clip, depending on the specified capture mode.
23	Stylus	Use the stylus to write, draw, or select items on the touch screen.
24	microSD Card Slot	Insert a storage card (microSD card) for storing data.
25	Strap Holder	Attach a strap for carrying your device.
26	Sync Connector/ Earphone Jack	Use this connector to synchronize data by connecting the provided USB Sync cable or to recharge the battery via the provided AC adapter. You can also connect the provided USB stereo headset for hands-free conversation or for listening to audio media.
27	Microphone	Speak into the microphone when receiving or making a phone call or voice recording.
28	RESET Button	With the stylus, press the RESET button to soft-reset your device.

Accessories



No.	Accessory	Function
1	AC adapter	Recharges the battery.
2	USB Sync cable	Connects your device to a PC and synchronizes data.
3	Stereo headset	Provides a volume control slider and a Send/End button. Press the Send/End button to pick up a call or put a call on hold; press and hold the button to end the call.
4	Pouch	Acts as a protective carrying case for your device.

1.2 Installing the SIM Card and Battery

The SIM card contains your phone number, service details, and phonebook/message memory. Your device supports both 1.8V and 3V SIM cards. Some legacy SIM cards will not function with your device. You should consult with your service provider for a replacement SIM card. There may be fees for this service.

Your device contains a rechargeable Li-ion polymer battery. This device is designed to use only manufacturer-specified original batteries and accessories. Battery performance depends on many factors, including your wireless service provider's network configuration, signal strength, the temperature of the environment in which you operate your device, the features and/or settings you select and use, items attached to connecting ports, and your voice, data, and other program usage patterns.

Battery life estimates (approximations):

- Standby time: Up to **220 - 325** hours for GSM;
Up to **205 - 350** hours for UMTS;
Up to **24** hours for VoIP standby (Wi-Fi is on and associated with an access point).
- Talk time: Up to **4 - 6.9** hours for GSM;
Up to **2 - 4.8** hours for UMTS;
Up to **1.5 - 2.5** hours for video call (video telephony);
Up to **4** hours for VoIP call (PTT talk time).
- Media playback time: Up to **8** hours for WMV;
Up to **12** hours for WMA.

Warning!

To reduce risk of fire or burns:

- Do not attempt to open, disassemble, or service the battery pack.
- Do not crush, puncture, short external contacts, or dispose of in fire or water.
- Do not expose to temperatures above 60°C (140°F).
- Replace only with the battery pack designated for this product.
- Recycle or dispose of used battery as stipulated by local regulation.

To install the SIM card

1. Make sure your device is powered off.
2. Slide out the QWERTY keyboard and locate the SIM card slot on the back side of the QWERTY keyboard.
3. Unlock the SIM card cover by sliding the latch leftwards.
4. Lift up the SIM card cover, and then insert the SIM card into the slot with its gold contacts facing down and its cut-off corner facing toward outside of the slot.

Tip You can identify the correct orientation according to the illustration printed on the SIM card cover.

5. After inserting the SIM card, close the SIM card cover and push back the latch to lock the SIM card cover. The SIM card cover is locked when you hear a “click” sound.

Notes

- The phone will not turn on if the SIM Card cover is not locked.
- Opening the SIM Card cover while the phone is turned on will turn off the phone. DO NOT open the SIM Card cover while the phone is turned on.

To install the battery

1. Slide the battery cover down to remove it.
2. Install the battery by inserting it with its exposed copper part aligned with the protruding copper conductor on the upper right side of the battery compartment. Insert the right side of the battery first, then gently push the battery into place.
3. Replace the back cover.


To remove the battery and SIM card


1. Make sure your device is powered off.
2. Slide the back cover upwards to remove it. To remove the battery, lift it up from the left side.
3. To remove the SIM card, unlock the SIM card cover first by sliding the SIM card latch leftwards, then lift up the SIM card cover. Slide the SIM card outwards to remove it.

Charge the battery

New batteries are shipped partially charged. Before you start using your device, it is recommended that you install and charge the battery. Some batteries perform best after several full charge/discharge cycles. You can charge the battery in two ways:

- Charging the device's battery by using the power adapter.
- Connecting your device to a PC via the provided USB Sync cable.

When your device is turned off, charging is indicated by a solid amber light on the left LED indicator. When your device is turned on, you will also see a charging icon () on the Today screen.

After the battery has been fully charged, the LED indicator becomes green and a full battery icon () appears on the Today screen.

- Warning!**
- Do not remove the battery from the device while you are charging it using the AC or car adapter.
 - As a safety precaution, the battery stops charging when it overheats.

1.3 Starting Up

After inserting your SIM card and battery and charging the battery, you can now power on and start using your device.

Turn your device on and off

- To turn on your device, press and hold the POWER button. When you turn on your device for the first time, a Quick Start Wizard will guide you through the calibration process and the setup of regional settings, date and time, and password. For more information about touch screen calibration, see “Calibrate the device”.
- To turn off your device, press and hold the POWER button for a few seconds. A message will then be displayed, prompting you whether or not to turn off the device completely.

Switch your device to Sleep mode

Quickly pressing the POWER button turns off the display temporarily and switches your device to **Sleep mode**. Sleep mode suspends your device to a low power state while the display is off in order to save battery power.

Your device also automatically goes into Sleep mode when you leave the device idle after a certain amount of time.

To specify the timeout period before your device goes into Sleep mode

1. Tap **Start > Settings > System tab > Power > Advanced** tab.
2. Under **On battery power**, make sure the **Turn off device if not used for** check box is selected.
3. Select the battery timeout period, then tap **OK**.

You will still be able to receive messages and calls while your device is in Sleep mode. Pressing the POWER button again or new incoming calls/messages will wake up your device.

Calibrate the device

Calibrating the device screen involves tapping the center of a cross with the stylus as the cross moves around the screen. This process ensures that when you tap the screen with your stylus, the tapped item is activated.

If your device does not accurately respond to screen taps, follow these steps to re-calibrate it:

1. Tap **Start > Settings > System tab > Screen**.
2. On the **General** tab, tap **Align Screen**, then follow the on-screen instructions to complete the calibration.

Manage screen settings


The device's display has two orientation modes: **Portrait** and **Landscape**. Portrait mode allows you to get a better view or a better operation of certain programs, while Landscape mode may be optimal for viewing lengthy files.

- To change the orientation, tap **Start > Settings > System tab > Screen**, and select the orientation you want.
- To smooth the edges of screen fonts for many programs, on the **ClearType** tab, select the **Enable ClearType** check box.

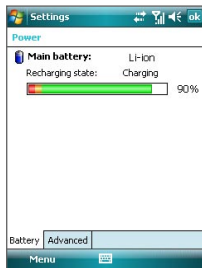
- To increase the readability or to see more content on the screen, on the **Text Size** tab, adjust the text size by moving the slider.

Check battery power

Do one of the following:

- Tap the battery level icon () on the Today screen.
- Alternatively, tap **Start > Settings > Systems tab > Power**.

When the low-battery warning appears, immediately save your data by synchronizing with your PC, or save your data on a storage card, and then turn off your device. Do not attempt to restart your device until you have connected it with the power adapter.



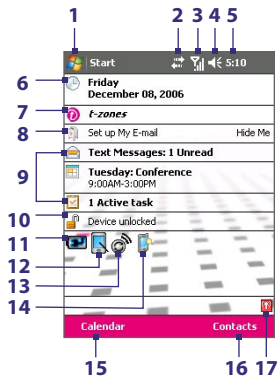
Battery power information



To find out ways on saving battery power, see “Battery Saving Tips” in Chapter 12.

1.4 The Today Screen

The Today screen displays important information, such as upcoming appointments and status indicators. You can tap a section on the screen to open the associated program.

- To access the Today screen, tap **Start > Today**.
- To customize the Today screen display, including the background image, tap **Start > Settings > Personal tab > Today**.


























- 1 Tap to open the Start menu.
- 2 Tap to view connectivity status.
- 3 Indicates the radio signal strength. Tap to configure the phone settings.
- 4 Tap to adjust device/ringer volume.
- 5 Displays the current time. Tap to check the current date and upcoming appointments. Tap and hold to change the clock mode to Analog or Digital.
- 6 Displays the current date. Tap to set up date, time, alarm, and more.
- 7 Tap to visit T-Mobile's T-zones web site.
- 8 Tap to create a "My E-Mail" e-mail account or manage an existing account. A data rate plan is required to set up My E-Mail. Please contact T-Mobile for details.
- 9 Your day at a glance with reminders. Tap to view or edit the following information: messages, appointments, and tasks.
- 10 Tap  to lock the device. The icon changes to . Tap **Unlock** on the Today screen to unlock again.
- 11 Indicates the battery status. Tap to open the Power Settings screen.
- 12 Tap to toggle the screen between portrait and landscape orientation.
- 13 Tap to open Comm Manager.
- 14 Tap to open the Backlight Settings screen.
- 15 Tap to open Calendar.
- 16 Tap to open Contacts.
- 17 Appears in green when Wi-Fi is on, red when Wi-Fi is off. Tapping this icon also opens Comm Manager.

1.5 Status Icons

The following are some of the status icons that you may see on the device.

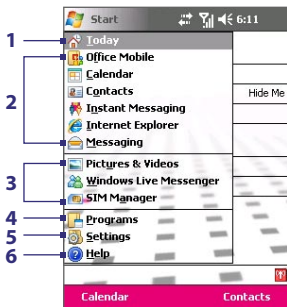
Icon	Description
	New text messages; SMS notification of voice mail.
	New multimedia (MMS) message.
	New Windows Live message.
	There are more notifications. Tap the icon to view all.
	Voice call in progress.
	Call on hold.
	Calls are forwarded.
	Missed call.
	Dialing while no SIM card is inserted.
	Speakerphone on.
	Maximum signal strength.
	No signal.
	Phone is turned off.
	No phone service.
	Searching for phone service.
	GPRS available.
	GPRS connecting.
	GPRS in use.
	EDGE available.
	EDGE connecting.
	EDGE in use.
	Roaming.
	Connection is active.

Icon	Description
	Connection is not active.
	Synchronization in progress.
	ActiveSync notification.
	Synchronization error.
	Wi-Fi function enabled, but device not connected to a wireless network yet.
	Wireless network(s) detected.
	Connecting to wireless network (arrows moving); connected to wireless network.
	Synchronizing via Wi-Fi.
	Battery is fully charged.
	Battery power is very low.
	Battery charging.
	Sound on.
	Sound off.
	Vibration mode.
	Alarm.
	No SIM card inserted.
	Device is locked.
	Device is unlocked.
	Bluetooth headset detected.
	GPRS Monitor currently active.
	Sprite Backup notification.
	Serial USB connection active.

Note The USB to PC () icon appears on the Today Screen when your device is connected to your computer and you enable a serial USB connection between them. For more information about USB to PC, see “Device Settings” later in this chapter.

1.6 The Start menu

The Start menu, located at the top left corner of the Today screen, displays a list of programs. You can start a program by scrolling through the programs list and then pressing ENTER, or by tapping a program with the stylus.













- 1 Tap to switch to the Today screen.
- 2 Tap to start a program. The items displayed in the Start menu can be customized by tapping **Start > Settings > Personal tab > Menus**.
- 3 Tap to start a recently-used program.
- 4 Tap to view and select more programs that are installed on your device.
- 5 Tap to change device settings.
- 6 Tap to see a Help topic for the current screen.

1.7 Programs










The following are some of the programs that are already installed on your device.

Programs in the Start Menu

Icon	Description
	Office Mobile Provides the complete suite of Microsoft Office applications for your mobile device.
	Excel Mobile Creates new workbooks or lets you view and edit Excel workbooks.
	PowerPoint Mobile Lets you view PowerPoint slides and presentations.
	Word Mobile Lets you create, view, and edit Word documents.
	Calendar Allows you to keep track of your appointments and create meeting requests.
	Contacts Allows you to keep track of your friends and colleagues.
	Internet Explorer Mobile Allows you to browse Web and WAP sites as well as download new programs and files from the Internet.
	Messaging Allows you to send and receive e-mail, MMS, and text messages.
	myFaves is a paid subscription service from T-Mobile that lets you choose up to five phone numbers that you can call at a lower cost.
	Help Enables you to see Help topics for the current screen or program.

Programs screen










Icon	Description
	Games Lets you play two pre-installed games: Bubble Breaker and Solitaire .
	ActiveSync Synchronizes information between your device and a PC or the Exchange Server.
	Adobe Reader LE Enables you to view PDF (Portable Document Format) files on your device.
	Bluetooth Explorer Searches for other Bluetooth devices that have file sharing enabled and allows you to access their Bluetooth shared folder.
	Calculator Lets you perform basic arithmetic and calculations, such as addition, subtraction, multiplication, and division.
	Camera Snaps photos or shoots video clips with accompanying audio.
	File Explorer Enables you to organize and manage files on your device.
	Handango InHand Features an extensive catalog of mobile software that you can purchase, download and install on your device. Tap Menu > Update Catalog to download the latest catalog.
	Hotspot Login Lets you see if you are in the T-Mobile HotSpot coverage area. You need to be subscribed to the T-Mobile HotSpot service for you to be able to log in to its wireless network.
	Instant Messaging Lets you send and receive instant messages using popular instant messaging programs such as AOL®, ICQ® and Yahoo®.
	Internet Sharing Connects your notebook computer to the Internet using your device's data connection.
	Java Enables you to download and install Java applications, such as games and tools, on your device.
	My E-mail Provides you unlimited access to your work and personal e-mail accounts through T-Mobile's My E-mail service. You need to have a subscription to T-MobileWeb before you can access your e-mail accounts.
	Notes Allows you to create handwritten or typed notes, drawings, and voice recordings.

Icon	Description
	Phone Lets you make and receive calls, switch between calls, and set up conference calling.
	Pictures & Videos Lets you view, organize, and sort pictures, animated GIFs, and video files on your device or a storage card. Photos that are taken using the camera are stored in the My Pictures folder, and recorded video clips are saved in the My Videos folder of your device.
	Search Enables you to search contacts, data, and other information on your device.
	SIM Manager Allows you to 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.
	Tasks Allows you to keep track of your tasks.
	T-zones Opens a WAP browser that takes you to T-Mobile's T-zones web site where you can purchase ring tones, wallpaper, or games to personalize your device.
	Voice Notes Allows you to record your voice, play it back, then send it via e-mail, MMS or beaming. You can also set the recorded voice as your device's ring tone.
	Windows Live Messenger Mobile This is the next generation of MSN Messenger Mobile. You can sign in using your Hotmail or Windows Live Mail address, add emoticons when sending instant messages, transfer files, and more.
	Windows Live Mobile This is the mobile version of Windows Live. It provides the following key features: Windows Live Search Mobile, Windows Live Contacts, Windows Live Messenger Mobile, and Windows Live Mail Mobile.
	Windows Media Player Mobile Lets you play back audio and video files.
	Windows Update Links you to Microsoft's web site and updates Windows Mobile on your device with the latest security patches or fixes.
	ZIP Enables you to save memory and free up storage space on your device by compressing files in the conventional ZIP format.
	STK (SIM Tool Kit) Service Allows you to access information and other services offered by your wireless service provider.

1.8 Settings






You can adjust the device settings to suit the way you work. To see all available settings, tap **Start > Settings**, then tap the **Personal**, **System**, and **Connections** tabs located at the bottom of the screen.

Personal tab








Icon	Description
	Buttons Assigns a program or function to a hardware button.
	Input Sets options for each of the input methods.
	Keyboard Sliding Sound Allows you to select a slide-in and slide-out sound for the hardware keyboard.
	Lock Sets a password for your device.
	Menus Sets what programs will appear in the Start menu.
	Owner Information Allows you to enter your personal information on your device.
	Phone Allows you to customize phone settings such as ring tone, set a PIN number for your SIM card, and more.
	Sounds & Notifications Enables sounds for events, notifications, and more, and allows you to set the type of notification for different events.
	Today Allows you to customize the appearance and the information to be displayed on the Today screen.





System tab

Icon	Description
	About Allows you to specify a name for your device. Also shows the Windows Mobile version and copyright information.
	Backlight Sets the backlight timeout and brightness.
	Certificates Shows information about certificates that are installed on your device.
	Clear Storage Removes all your data and files from the memory and resets your device to factory default settings.
	Clock & Alarms Switches 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.
	Customer Feedback Enables your device to automatically send information about how you use Windows Mobile. By default, this option is disabled.
	Device Information Shows information about the firmware version, hardware, identity, and the duration of calls made on your device.
	Encryption Allows files on your storage card to be encrypted. Encrypted files will be readable only on your device.
	Error Reporting Enables or disables 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.
	Key Lock Locks the buttons on your device except for the POWER button when the device is in Sleep mode. This ensures you will not switch the device on by accident and consume unnecessary power.
	Memory Shows the device memory allocation status and memory card information. Also allows you to stop currently running programs.
	Microphone AGC Adjusts the volume of your voice automatically when you are recording.

Icon	Description
	Power Shows the current battery level. Also allows you to set the timeout for turning off the display (switching device to Sleep mode) to conserve battery power.
	Regional Settings Sets the regional configuration to use, including the format for displaying numbers, currency, date, and time on your device.
	Remove Programs Lets you remove programs that you installed on your device.
	Screen Allows you to change the screen orientation, re-calibrate the screen, and change the screen text size.
	Task Manager Allows you to configure the Exit button (X) to end programs and free up the memory that's occupied by them.

Connections tab

Icon	Description
	Beam Enables your device to receive incoming Bluetooth beams.
	Bluetooth Turns Bluetooth on, sets your device to visible mode, and allows you to scan for other Bluetooth devices.
	Comm Manager Allows you to manage the device's connection (including Wi-Fi, Bluetooth, and ActiveSync), disconnect data services (such as GPRS), turn the phone on or off, switch to ringer/vibration mode, and enable or disable the Direct Push function.
	Connections Sets up one or more types of modem connections for your device, such as phone dial-up, GPRS, Bluetooth, and more, so that your device can connect to the Internet or a private local network.
	CSD Line Type Sets the line type to use when making a circuit switch data (CSD) connection. Normally, you do not need to change the setting unless you encounter a problem on establishing a connection.
	GPRS Setting Sets the GPRS authentication method. Consult your wireless service provider first before changing this setting.
	SMS Service Enables sending of SMS text messages via a data connection, such as GPRS or a circuit-switched connection. This can be used only if your wireless service provider supports this service.

Icon	Description
	T-Mobile Hotspot Connects you to T-Mobile's high-speed wireless broadband Internet service. Enter your login name and password for accessing its wireless network.
	USB to PC Sets the USB connection between your device and PC, and helps with problems connecting ActiveSync.
	Wi-Fi Allows your device to scan for available wireless networks.
	Wi-Fi Status Shows information about the active wireless network, and allows you to customize Wi-Fi settings.

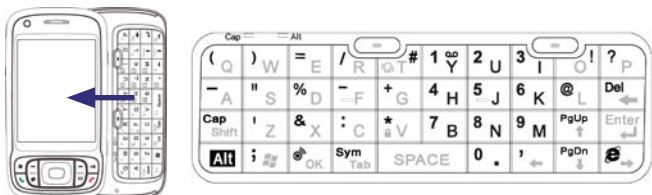
Chapter 2

Entering and Searching Information

- 2.1 Using the Hardware Keyboard**
- 2.2 Entering Information**
- 2.3 Using the On-screen Keyboard**
- 2.4 Using Letter Recognizer**
- 2.5 Using Block Recognizer**
- 2.6 Using Transcriber**
- 2.7 Using Symbol Pad**
- 2.8 Using Notes to Draw, Write and Record Voice Notes**
- 2.9 Searching Information**




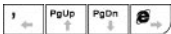
2.1 Using the Hardware Keyboard

Your device provides you with a **QWERTY** keyboard, which is similar to a standard keyboard on your PC. To use the QWERTY keyboard, slide the screen panel to the left to reveal the keyboard.



Keystrokes for entering text

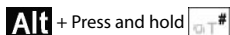
When entering text, do the following:

- To type lowercase letters, press the keys using your thumbs or fingers.
- To use all uppercase letters, press **Alt** first, then press **Cap Shift**. To change back to all lowercase letters, press these buttons again.
- To use a single uppercase letter, press **Cap Shift** and then press the corresponding key.
- To enter a number or symbol (labeled at the upper left of each key), press **Alt** and then press the corresponding key.
- To open the Symbol Pad, press **Alt** and then press **Sym Tab**.
- Press the Left/Right SOFT KEY () to perform the command shown in the label above the key.
- Press  to verify your data entries or exit the program in use.
- Press  to open the Start menu.
- Press the arrow keys  for directional movement.
- To type accented characters (like á, ã, ç, ê, í, ó, ü, etc), press the letter key first and then, hold **Alt** and at the same time press the space bar **SPACE** several times until you find the correct character you need.

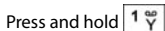
Keyboard shortcuts

The QWERTY keyboard has shortcuts to certain programs and functions.

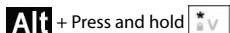
Vibrate/Ringer mode



Voicemail



Device lock



Start menu



OK



Comm Manager



Internet Explorer Mobile

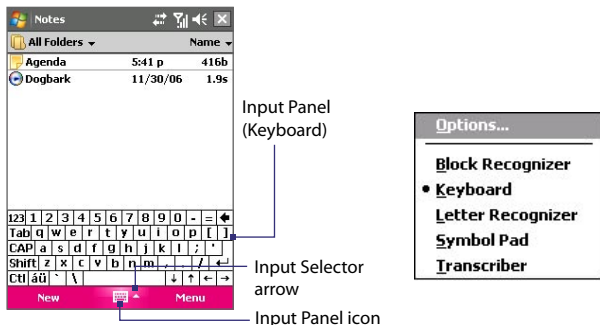


Tip The QWERTY keyboard also has shortcuts to messaging functions. See Chapter 7 for more information.

2.2 Entering Information

When you start a program or select a field that requires text or numbers, the **Input Panel** icon becomes available on the menu bar.

Tap the **Input Selector** arrow (that appears next to the **Input Panel** icon) to open a menu where you can select a text input method and customize input options. After selecting a text input method, the corresponding **Input Panel** is then displayed and you can use it to enter text. To toggle between showing and hiding the Input Panel, simply tap the **Input Panel** icon.



Icon	Input method
	On-screen keyboard
	Letter Recognizer or Block Recognizer
	Symbol Pad
	Transcriber

Note Some text input methods may not be available in certain language versions of the device.

2.3 Using the On-screen Keyboard

The on-screen **Keyboard** is available when text entry is possible. You can enter text by tapping keys on the keyboard that are displayed on the screen.

To enter text using the on-screen Keyboard

1. In a program, tap the **Input Selector** arrow, and tap **Keyboard**.
2. Enter text by tapping keys on the on-screen Keyboard.

To enlarge the on-screen Keyboard

1. Tap the **Input Selector** arrow, then tap **Options**.
2. In the **Input method** list, select **Keyboard**.
3. Tap **Large keys**.

2.4 Using Letter Recognizer

With **Letter Recognizer**, you can write individual letters, numbers, and punctuation, which are then converted into typed text.

To use Letter Recognizer

1. From a program, tap the **Input Selector** arrow, and tap **Letter Recognizer**.
2. Write characters, numbers, and symbols in the designated writing area.
 - Enter capital letters by writing in the **ABC** (left) area of the box.
 - Enter lower case letters by writing in the **abc** (middle) area of the box.
 - Enter numbers by writing in the **123** (right) area of the box.
 - Enter punctuation and symbols by tapping in either area of the box and then writing the desired character.

Note **Letter Recognizer** is available when text entry is possible.

Tip For help with writing characters, tap the question mark near the writing area.

2.5 Using Block Recognizer

With **Block Recognizer**, you use a single stroke to write letters, numbers, symbols, and punctuation, which are then converted into typed text.

To use Block Recognizer

1. From a program, tap the **Input Selector** arrow, and tap **Block Recognizer**.
2. Write characters, numbers, and symbols in the designated writing area.
 - Enter letters by writing in the **abc** (left) area of the box.
 - Enter numbers by writing in the **123** (right) area of the box.
 - Enter symbols and punctuation by tapping in either area of the box and then writing the desired character.

Note **Block Recognizer** is available when text entry is possible.

Tip For help with writing characters with **Block Recognizer**, tap the question mark near the writing area.

2.6 Using Transcriber

Transcriber is a handwriting recognition program that allows you to write in cursive, print, or a combination of both. Transcriber works transparently in the background of programs, recognizing words with its integrated dictionary. When Transcriber is turned on, it interprets stylus movement anywhere on the screen as handwriting input. For more information about using Transcriber, see Help on your device.

To start Transcriber

1. Start a program that accepts user input, such as Word Mobile.
2. Tap the **Input Selector** arrow, and tap **Transcriber**. The Transcriber introductory screen appears.

To write using Transcriber


1. In a program, position the cursor where you want text to appear.
2. Use the stylus to write anywhere on the screen. The handwriting will be converted to text shortly after you lift the stylus from the screen.

To enter punctuation and symbols

Transcriber comes with an on-screen keyboard that provides an easy way to add punctuation or a special symbol to existing text.

- From a program, tap  on the Transcriber toolbar.

The keyboard remains visible until you tap the button again.

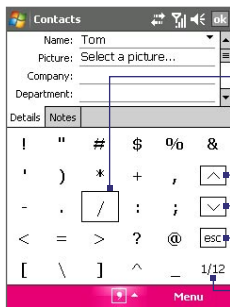
- Tips**
- To reposition the keyboard, tap and hold the title bar, then drag to the desired location.
 - When no text is selected, you can also open the keyboard by doing the  gesture. For more information about using Transcriber gestures, see Help on your device.

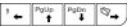
To edit text

1. In a program, draw a line across the text you want to edit.
2. After you lift the stylus from the screen, the line will disappear and the selected text will be highlighted.
3. Do either of the following:
 - Rewrite the text.
 - Use gestures to capitalize letters, insert a space, and so on. For information about using Transcriber gestures, see Help on your device.




2.7 Using Symbol Pad

Symbol Pad provides a comprehensive list of common symbols such as parentheses, braces, currency signs, and more, as well as punctuation marks and special characters.



- Tap a symbol to select it. Use the Navigation Control or press the arrow keys  on the hardware keyboard to navigate through the available symbols, then press ENTER to select a symbol.
- Tap to display the previous page of symbols.
- Tap to display the next page of symbols.
- Tap to close the Symbol Pad without selecting any symbol.
- This indicates the current page and the total number of symbol pages.

To open the Symbol Pad and select a symbol

1. Create or open a document, such as a Word document.
2. To open the Symbol Pad:
 - Tap the **Input Selector** arrow, then tap **Symbol Pad**; or
 - Using the hardware keyboard, press **Alt** and then press .
3. To browse through the pages of symbols, tap  /  on the Symbol Pad screen.
4. Tap a symbol to select it and close the Symbol Pad. The selected symbol will then be inserted in your document.

2.8 Using Notes to Draw, Write and Record Voice Notes

Using **Notes**, you can draw directly on the screen, or write on the screen and save notes in your own handwriting. You can also create a stand-alone recording (voice note) or you can add a recording to a note.

For more information on what you can do with Notes, please see “Notes” in Chapter 7.

2.9 Searching Information

You can search for files and other items stored in My Documents folder or on an installed storage card of your device. You can search by file name or by words located in the item. For example, you can search in e-mail messages, notes, appointments, contacts, and tasks, as well as in online Help.

To search for a file or an item

1. Tap **Start > Programs > Search**.
2. In the **Search for** field, you can:
 - Enter the file name, word, or other information you want to search for.
 - Tap the down arrow icon (▼), and from the list, select one item that you have looked for before.
3. In the **Type** field, you can tap the down arrow icon (▼) and select a data type from the list to help narrow your search.
4. Tap **Search**. The system then starts searching the matched files in the **My Documents** folder and subfolders.
5. In the **Results** list, tap the item you want to open.

Note The storage card symbol  is displayed next to the names of files saved on a storage card.

Chapter 3

Using Phone Features

3.1 Using the Phone

3.2 Making a Call

3.3 Receiving a Call

3.4 Smart Dialing

3.5 In-call Options

3.6 Additional Dialing Information

**3.7 Setting Up Bluetooth SIM Access
for Car Kit Phones**




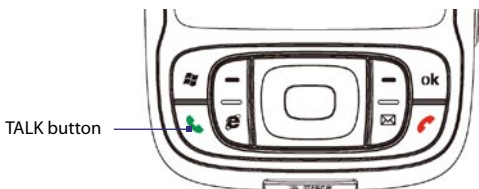
3.1 Using the Phone

Like a standard mobile phone, you can use your device to make, receive, and keep track of calls and send SMS/MMS messages. You can also dial directly from Contacts, and easily copy phonebook entries from your SIM card to Contacts on your device.

The Phone screen

From the Phone screen, you can access Call History, Speed Dial, and Phone settings. To open the Phone screen, do one of the following:

- Tap **Start > Programs > Phone**; or
- Press the TALK button ().



Enter your PIN

Most SIM cards are preset with a PIN (personal identification number) that is provided by your wireless service provider.


1. Enter the preset PIN assigned by your wireless service provider.
2. Tap **Enter**.

Note If your PIN is entered incorrectly three times, the SIM card will be blocked. If this happens, you can unblock it with the PUK (PIN Unblocking Key) obtained from your wireless service provider.


Turn the phone function on and off

In many countries, you are required by law to turn off the phone while on board an aircraft.

To turn off the phone function

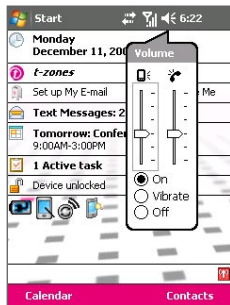
1. Tap the **Comm Manager** icon (📶) on the Today screen.
2. On the Comm Manager screen, tap the **Phone** button to turn off the phone function. The  icon indicates the phone function is turned off.

To resume call function

- Turn on the phone function by tapping the **Phone** button again on the Comm Manager screen. The  icon indicates the phone function is turned on.

Adjust the device volume

1. Tap the **Speaker** icon (🔊).
2. Under **Volume**, do the following:
 - Adjust the phone volume (📞) or device volume (📱) by moving the slider to the desired volume level.
 - Tap **On**, **Vibrate**, or **Off** to change both the system and ringer volume settings.




Volume adjustment

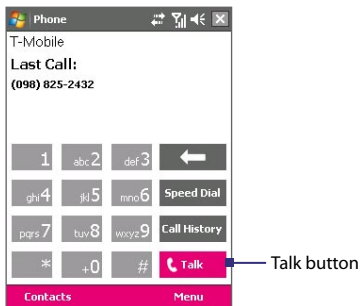
- Notes**
- To adjust the conversation phone volume, you must do it during a call. Adjusting the volume at another time will affect the ring, notification, and MP3 sound levels.
 - When you activate Vibrate mode, sound will automatically be muted and your device will vibrate when an incoming call is received. The Vibrate icon (📱) will appear in the title bar to indicate that Vibrate mode is activated.


3.2 Making a Call

With your device, you can make a call from **Phone**, **Contacts**, **Speed Dial**, **Call History**, and **SIM Manager**.

Make a call from Phone

1. Tap **Start** > **Programs** > **Phone** or press the TALK button ().
2. On the Phone screen, tap the desired phone number, then tap **Talk**.



Tip If you tap a wrong number, tap the Back arrow () to erase each subsequent digit of a number. To erase the entire number, tap and hold the Back arrow.

Make a call from Contacts

Tap **Contacts** on the Today screen or tap **Start** > **Contacts**, then do one of the following:

- Press NAVIGATION up or down to select a contact, and press TALK twice (once to send the number to the Phone keypad, and once to dial the number).
- Tap the desired contact in the contacts list, and tap the phone number that you want to call.
- Tap and hold the desired contact, and on the shortcut menu, tap **Call Work**, **Call Home**, or **Call Mobile**.

To choose one of the numbers of a contact to dial


By default, the mobile phone number (m) of a contact is dialed when you make a call from Contacts. However, you can specify that a different phone number is dialed instead.

1. Tap **Contacts** on the Today screen or tap **Start > Contacts**.
2. Press NAVIGATION up or down to select the contact.
3. Press NAVIGATION left or right. The letters representing the number will change as you scroll through them.

Make a call from Call History

1. On the Phone screen, tap **Call History**.
2. You can either scroll through all calls in Call History, or tap **Menu > Filter** and select from a category of call types.
3. Scroll to the desired contact or phone number, and tap **Call**.

One-touch Speed Dial

Use **Speed Dial** to call frequently-used numbers with a single tap. For example, if you assign a contact to the location **2** in Speed Dial, you can simply tap and hold  on the Phone screen to dial the contact's number. Before you can create a Speed Dial entry, the number must already exist in Contacts.

To create a Speed Dial entry

1. On the Phone screen, tap **Speed Dial**.
2. Tap **Menu > New**.
3. Tap a contact. Select the phone number that you want to add to Speed Dial.
4. In the **Location** box, select an available location for the new Speed Dial entry.

Note Location **1** is generally reserved for your voice mail, and Speed Dial will designate the next available location by default. If you want to place a phone number in a position that is already occupied, the new number will replace the number that is already there.

- Tips**
- To create a Speed Dial entry from Contacts, tap and hold the contact name, tap **Add to Speed Dial**, then select the phone number for which to create a Speed Dial and an available location for the new Speed Dial entry.
 - To delete a Speed Dial entry, in the **Speed Dial** list, tap and hold the desired entry, and tap **Delete**.

Make a call from SIM Manager

SIM Manager allows you to view the contents of your SIM card, transfer SIM phonebook entries to Contacts on your device, and make a call from your SIM card.

To call a SIM contact

1. Tap **Start > Programs > SIM Manager**. Wait for your SIM card contents to load.
2. Tap and hold the name or phone number of the person you want to call, and tap **Call**.

3.3 Receiving a Call

When you receive a phone call, a message will appear, giving you the option to either answer or ignore the incoming call.

To answer or reject an incoming call

- To answer the call, tap **Answer**, or press TALK on the device.
- To reject the call, tap **Ignore**, or press END on the device.

To end a call


Once an incoming or outgoing call is in progress, you can tap **End** or press END on the device to hang up.

3.4 Smart Dialing

Smart Dialing is a program that makes it easy for you to dial a phone number. When you start entering numbers or characters, Smart Dialing will automatically search and sort the contact entries on the SIM card, in Contacts, and the phone numbers in Call History (including incoming, outgoing, and missed calls). You can then select the desired number or contact from the filtered list to dial.

Start Smart Dialing

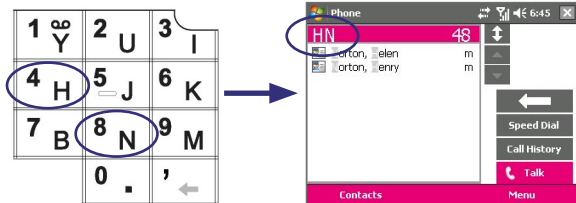
Open the Phone screen, then tap the keys on the Phone keypad that correspond to the phone number or contact you want to call.

When you start entering a number or letter, the Smart Dialing panel will appear automatically on the Phone screen. You can change the panel size according to your needs by tapping the arrow icon .



Smart Dialing panel

Note When you use the hardware keyboard to dial a number, the digits entered will be displayed on the right side of the entry box and the equivalent letters will appear on the left side. Whereas tapping the Phone keypad will display only the digits in the entry box.



Tips on using Smart Dialing

Smart Dialing starts looking for numbers or contacts that match the sequence you have entered. Below are some tips on how to use Smart Dialing to quickly find a desired phone number or contact.

To find a phone number



- Simply enter the first one or two digits to find a phone number in Call History.
- Enter the first three digits or more if you want to find a phone number from the saved contacts on your device and SIM card.

To find a contact name


You can just enter the first letter of a contact's first name or surname. Smart Dialing will search for the letter starting from the first character of a contact name as well as from the character that appears after a space, dash, or underscore in a contact name. For example, if you tap number "2" which is associated with [a, b, c] on the Phone keypad, contact names such as the following will be considered matches: "Ben Miller", "George Adams", "John-Carter", "Carter, Ellen", "Dixon, Allan", "Thomas_Clark", "JaneCampbell".

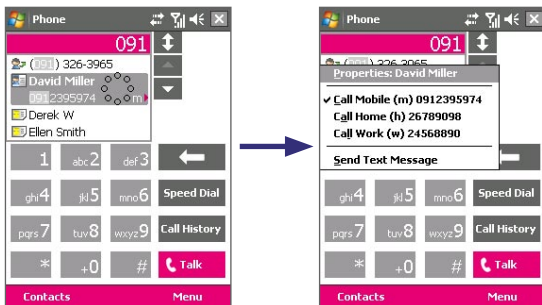
If the matching list is long and you want to narrow down the search further, enter another letter. Using the same example above, if you continue to tap "3" which is associated with [d, e, f], the matching list will be narrowed down to the following names: "Ben Miller", "George Adams", "Carter, Ellen", "Dixon, Allan".

Make a call or send a text message using Smart Dialing

1. Begin entering the first few numbers or characters.
2. In the Smart Dialing panel, browse the list by tapping the arrows ( / ) or pressing NAVIGATION up or down to select the desired contact or phone number. When a contact is selected, it expands to also show the corresponding phone number.
3. The highlighted item will move one line when you press NAVIGATION up or down; the highlighted item will scroll one page when you tap the arrows.

4. Do one of the following:

- When the correct contact is selected, tap **Talk** or press the TALK button () to make a voice call.
- To send a text message to the selected contact, tap and hold the contact, and tap **Send Text Message**.
- To call a different phone number associated with the selected contact, tap and hold the selected contact, and tap the phone number you want to call.





Tap and hold the contact to pop up the shortcut menu.

Tip To view or edit information associated with the selected contact, tap the contact's name on the shortcut menu (applies only to entries stored in Contacts on your device).

Set up Smart Dialing

1. On the Phone screen, tap **Menu > Smart Dialing Options**.
2. On the **Options** tab, select the **Enable Smart Dialing** check box.
 - Select the **Automatically expand selected contact** check box to enable a contact's name and phone number to be displayed when the contact is selected in the matching list.
 - Select the **Enable drag-scroll** check box to scroll in the matched list by dragging.

- Select the **Enable double-click for dialing** check box to make a voice call by double-tapping the item in the matched list.
- Select the **Expand panel when using hardware keyboard** check box to automatically expand the Smart Dialing panel when you are using the hardware keyboard to input.
- In **Scroll unit**, you can set the amount of scrolling when tapping the arrows ( / ).

3.5 In-call Options

To put a call on hold

Your device notifies you when you have another incoming call, and gives you the choice of rejecting or accepting the call. If you are already on a call and accept the new call, you can choose to switch between the two callers, or set up a conference call between all three parties.

1. Tap **Answer** to take the second call, and put the first one on hold.
2. To end the second call and return to the first call, tap **End** or press END on the device.

To switch between two calls

- Tap **Swap**.


To set up a conference call

1. Either put a call on hold, and dial a second number; or, accept a second incoming call when you already have one in progress.
2. Tap **Conference**.

Note Not all service providers support conference calling. Contact your service provider for details.

To turn on and off the Speakerphone

The built-in Speakerphone on your device allows you to talk hands-free or lets other people listen to the conversation.


- During a call, tap **Speaker On**, or press and hold TALK until the speakerphone turns on. The speakerphone icon () appears in the title bar.

- To turn off the speakerphone, tap **Speaker Off**, or press and hold TALK again until the speakerphone turns off.

Warning! To avoid damage to your hearing, do not hold your device against your ear when the Speakerphone is turned on.

To mute a call

You can turn off the microphone during a call, so that you can hear the caller but the caller cannot hear you.

- During a call, tap **Mute**.
- When the microphone is turned off, the mute icon () appears on the screen. Tap **Unmute** to turn on the microphone again.


3.6 Additional Dialing Information

Make an emergency call

- Enter the international emergency number for your locale, and tap **Talk**.

Tip Additional emergency numbers may be included in your SIM card. Contact your service provider for details.

Make an international call

1. Tap and hold  on the Phone keypad until the + sign appears. The + replaces the international prefix of the country that you are calling.
2. Enter the full phone number you want to dial, and tap **Talk**. The full phone number includes country code, area code (without the leading zero, if any) and phone number.

3.7 Setting Up Bluetooth SIM Access for Car Kit Phones

Car kit phones that support the SIM Access Profile (SAP) can connect to your device and access its SIM card via Bluetooth. Once a SAP connection has been established, you can download SIM contacts from your device to the car kit phone. You can also use the car kit phone to answer and make calls using your device's SIM card.

Notes

- To enable downloading contacts onto the car kit, ensure that all contacts on the device are stored in the SIM card and not in the device memory. Configure the car kit to download contacts only from the SIM card.

- Contact your wireless service provider to find out which car kit phone models are compatible with your device.

1. On your device, make sure that Bluetooth is turned on and set to visible mode. For information about turning on Bluetooth and enabling visible mode, see “Bluetooth modes” in Chapter 6.
2. Tap **Start > Programs > SAPSettings**.
3. On the BT Remote SIM Access screen, select the **Remote SIM Access** check box then tap **Done**.
4. Connect the car kit phone to your device via Bluetooth. To learn how to connect, consult your car kit phone's manual.
5. If this is the first time you are pairing the car kit phone with your device, enter the car kit's passcode on your device.
6. A pop-up message should appear on your device saying that a connection has been established between your device and car kit phone. Tap **OK**.
7. On the BT Remote SIM Access screen, tap **Done**.

Note You will not be able to make/receive calls, send/receive messages or perform related activities on your device when the SIM Access Profile connection is active. You'll be able to do all these from the car kit phone during this time. After the connection is disconnected, you will be able to use your device as before.

Chapter 4

Setting Up Your Pocket PC Phone

4.1 Personalizing the Today screen

4.2 Customizing Phone Settings and Services

4.3 Customizing Personal and System Settings

4.4 Protecting Your Pocket PC Phone



4.1 Personalizing the Today screen

The Today screen shows your upcoming appointments, active tasks, and information about incoming messages. You can customize what to display on the Today screen.

To customize the Today screen

1. Tap **Start > Settings > Personal tab > Today**.
2. On the **Appearance** tab, select the desired theme for the background of the Today screen.
3. On the **Items** tab, select the items you want to appear on the Today screen.

Tip To change the order of items displayed on the Today screen, tap the item, and tap **Move Up** or **Move Down**.

To use a custom background image

You can use one of your own pictures as the background image on the Today screen. Be aware that pictures can affect the readability of text on the Today screen.

1. Tap **Start > Settings > Personal tab > Today**.
2. Select the **Use this picture as the background** check box, and tap **Browse** to view a list of your picture files.
3. Tap the file name of the picture you want to use.
4. Tap **OK**.

To set options for displaying appointments on the Today screen

Calendar appointments can be created on your device or synchronized with your PC or the Exchange Server at your work. If you have a large number of appointments created and synchronized on your device, you may want to specify the kind of appointments that are displayed on the Today screen.

1. Tap **Start > Settings > Personal tab > Today**.
2. Tap the **Items** tab.
3. Select **Calendar** and tap **Options**.
4. Do any of the following:

- Select **Next appointment** to show only the next appointment in your schedule, or **Upcoming appointments** to show multiple appointments.
- Clear the **Display all day events** check box if you do not want to display all-day events.

For more information about creating calendar appointments on your device, see “Calendar” in Chapter 6. See Chapter 5 for details on synchronizing with the computer and Chapter 10 on synchronizing with the Exchange Server.

To set options for displaying tasks on the Today screen

Just like calendar appointments, tasks can also be created on your device or synchronized with your PC or the Exchange Server at your work. If you have a large number of tasks created or synchronized on your device, you may want to specify the kind of tasks that are displayed on the Today screen.

1. Tap **Start > Settings > Personal tab > Today**.
2. Tap the **Items** tab.
3. Select **Tasks** and tap **Options**.
4. Do any of the following:
 - Under **Display number of**, select the type of tasks you want to appear on the Today screen.
 - In the **Category** list, select whether to display only tasks assigned to a specific category or to display all tasks.

For more information about creating tasks on your device, see “Tasks” in Chapter 6. See Chapter 5 for details on synchronizing with the computer and Chapter 10 on synchronizing with the Exchange Server.

Customize the Start menu

You can choose which items appear in the **Start** menu.

1. Tap **Start > Settings > Personal tab > Menus**.
2. Select the check boxes of the items you want to appear in the **Start** menu. You can select up to seven items.

Tip You can also create folders and shortcuts to appear on the Start menu. In ActiveSync on your PC, click **Explore**. In the Mobile Device window, double-click **My Windows Mobile-Based Device > Windows > Start Menu**, then create the folders and shortcuts that you want. You will see the added items after you synchronize.

4.2 Customizing Phone Settings and Services

You can customize phone settings, such as the ring type and ring tone to be used for incoming calls, and the keypad tone to be used when entering phone numbers. You can also set up your device to use phone services such as Call Waiting, Call Forwarding, and more.

To access these phone settings and services, tap **Menu > Options** on the Phone screen or tap **Start > Settings > Phone**.

Ring tone and ring type

To change the ring tone

1. On the Phone screen, tap **Menu > Options > Phone** tab.
2. In the **Ring tone** list, tap the sound you want to use.

Tip To use custom ***.wav**, ***.mid**, ***.mp3**, or ***.wma** files as ring tones, use ActiveSync on your PC to copy the files to the **/Windows/Rings** folder on your device. Next, select the sound from the Ring tone list. For more information about copying files to your device, see ActiveSync Help on your PC.

To change the ring type

You can change the way that you are notified of incoming calls. For example, you can choose to be notified by a ring, a vibration, or a combination of both.

1. On the Phone screen, tap **Menu > Options > Phone** tab.
2. In the **Ring type** list, tap the desired option.

Keypad tone

You can change the tone you hear when entering a phone number on the keypad. If set to Long tones, the tone is heard continuously for as long as the number on the keypad is pressed. Use this setting if you are having trouble accomplishing tasks that rely on tones from your device such as accessing messages from an answering machine. If set to Short tones, the tone is heard only for one or two seconds. If set to Off, no tone will be heard.

1. From the Phone keypad, tap **Menu > Options > Phone** tab.
2. In the **Keypad** list, tap the option you want.

Phone services

Your device can directly link to the mobile phone network, and allow 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. To find out about the availability of phone services for your device, contact your wireless service provider.

To access and customize settings of phone services

1. Tap **Start > Settings > Personal** tab > **Phone > Services** tab.
2. Select the service you want to use, then tap **Get Settings**.
3. Choose your desired options, then tap **OK**.

Networks

You can view available mobile phone networks, and specify whether you want to change networks manually or automatically.

To change phone network settings

1. Tap **Start > Settings > Personal** tab > **Phone > Network** tab.
2. By default, your device displays the current network as offered by your service provider. You can customize to set your preferred network.

For more information about network settings, see Help on your device.

4.3 Customizing Personal and System Settings

Device name

Why is the device name important?

The device name is used to identify the device in the following situations:

- Synchronizing with a PC
- Connecting to a network
- Restoring information from a backup

Note If you synchronize multiple devices with the same PC, each device must have a unique name.

To change the device name

1. Tap **Start > Settings > System tab > About**.
2. Tap the **Device ID** tab.
3. Enter a name.

Note 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.

Date / Time / Regional options

You can set up the correct date, time, and regional settings according to your use.

To set the time and date

1. Tap **Start > Settings > System tab > Clock & Alarms > Time** tab.
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 PC.

To set the time and date 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. Tap **Start > Settings > System tab > Clock & Alarms > Time** tab.
2. Tap **Visiting**.
3. Select the correct time zone and change the time or date.

To set an alarm

1. Tap **Start > Settings > System** tab > **Clock & Alarms > Alarms** tab.
2. Tap **<Description>** and enter a name for the alarm.
3. Tap the day of the week for the alarm. You can select multiple days by tapping each desired day.
4. Tap the time to open a clock and set the time for the alarm.
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 change regional settings

The style in which numbers, currency, dates, and times are displayed is specified in regional settings.


1. Tap **Start > Settings > System** tab > **Regional Settings**.
2. On the **Region** tab, select your region from the list.

Note This does not change the Operating System language of your device.


3. The region you select determines which options will be available on the other tabs.
4. To customize settings further, tap the appropriate tabs and select the desired options.

Display settings

To adjust screen brightness

1. Tap the **Backlight** icon () on the Today screen.
2. On the **Brightness** tab, move the slider right to increase the brightness, or left to decrease the brightness.

To set the backlight to dim after a time delay


1. Tap the **Backlight** icon () on the Today screen.
2. Tap the **Battery power** tab, or the **External power** tab.
3. Select the **Turn off backlight if device is not used for** check box, and specify the time delay.


To increase or decrease the size of text on the screen

1. Tap **Start > Settings > System tab > Screen > Text Size** tab.
2. Move the slider to increase or decrease the text size.

Button settings

To configure the button using Task Manager

You can configure the  button to shut down running programs and free up the memory space that's occupied by them.

1. Tap **Start > Settings > System tab > Task Manager**.
2. Select the **Enable the "X" button to end running programs** check box.
3. Choose the action for shutting down programs (by tapping the  button, tapping and holding the button, or both).
4. Tap **OK**.

Note When the **Enable the "X" button to end running programs** check box is not selected, tapping the "X" button will only close a program screen. The program is not ended and continues to run in the background.

To reassign programs or shortcuts to program buttons

Your device may come with programs already assigned to hardware buttons. You can customize these buttons to open the programs you use most, or to perform certain shortcuts such as changing the screen orientation, opening the Today screen, or opening Input Panel.

1. Tap **Start > Settings > Personal tab > Buttons**.
2. A list of buttons and their current assignments are displayed on the **Program Buttons** tab.
3. Tap the button you want to reassign. To help you identify the buttons, there are numbers and icons representing the original function of the button.
4. In the **Assign a program** box, tap the program or shortcut you want to assign.
5. Tap **OK**.

Keyboard settings

To customize word completion options

Word completion helps you enter text faster by suggesting words as you enter letters using the on-screen keyboard or the handwriting recognition methods. You can set the number of suggested words to display, when to show the word list, and more.

1. Tap **Start > Settings > Personal tab > Input > Word Completion** tab.
2. Make sure the **Suggest words when entering text** check box is selected.
3. By default, the suggested word list appears whenever you enter a space. To make the word list appear after letters are entered, select the number of letters that you want to be entered before displaying the word list.
4. The suggested word list shows up to four words by default. You can change the number of words to display in the suggested list.
5. Make sure the **Enable Auto Correct** check box is selected if you want mistyped words to be corrected automatically.

Tip The word database learns and adds more words as you enter new words during text entry. To delete the added words and reset the database back to the default, tap **Clear Stored Entries**.

To set a keyboard sliding sound

You can set your device to produce a sliding sound when you slide the hardware keyboard in or out.

1. Tap **Start > Settings > Personal tab > Keyboard Sliding Sound**.
2. Select the **Sliding sound** check box to enable the sound.
3. Tap the Down Arrow icon (▼) and select a style of sound from the list. Each style contains two sounds, one for sliding in and another for sliding out the keyboard.
4. You can preview the sound effect of the selected style by tapping the **Play** button (▶). It plays the slide-out sound first, and then the slide-in sound. To stop playback, tap the **Stop** button (■).

Sounds and notifications

To choose how to be notified about events or actions

1. Tap **Start > Settings > Personal tab > Sounds & Notifications**.
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, or a flashing light.

Tip • Turning off sounds and the flashing light helps conserve battery power.

4.4 Protecting Your Pocket PC Phone

There are two kinds of protection that you can set for your device:

- You can protect your SIM card from unauthorized use by assigning a PIN (personal identification number). Your first PIN will be given to you by your wireless service provider; you can change the PIN later.
- Additionally, you can prevent unauthorized access to any part of the device by using password protection. You can help keep your data more secure by requiring a password every time the device is turned on. You create your own password when you begin using your device.

To protect your SIM card with a PIN

1. On the Phone screen, tap **Menu > Options > Phone** tab.
2. Select the **Require PIN when phone is used** check box.
3. To change the PIN at any time, tap **Change PIN**.

Tip Emergency calls can be placed at any time, without requiring a PIN.

To protect your device with a password

1. Tap **Start > Settings > Personal tab > Lock**.
2. Select the **Prompt if device unused for** check box, and in the box to the right, select how long your device must be idle before a password is required. In the **Password type** box, select the type of password

you would like to use. Enter the password and, if necessary, confirm the password.

If your device is configured to connect to a network, use an alphanumeric password for increased security for your device.

3. On the **Hint** tab, enter a phrase that will help you remember your password, but does not allow others to guess your password. The hint will be displayed after the wrong password is entered four times.
4. Tap **OK**. The next time the device is turned on, you will be prompted to enter your password.

- Notes**
- 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 must follow the instructions in this user manual to clear the memory before you can access your device.

To change your password

1. Tap **Start > Settings > Personal tab > Lock**. You will be prompted to enter your current password.
2. In the **Password** box, enter your new password.
3. On the **Hint** tab, enter a phrase that will help you remember your new password, but does not allow others to guess your password. The hint will be displayed after the wrong password is entered four times.
4. Tap **OK**.

To display owner information on the 'my info' screen

Having your contact information displayed on the 'my info' screen on startup allows for easy identification of the device in case it is lost.

1. Tap **Start > Settings > Personal tab > Owner Information**.
2. On the **Options** tab, select the **Identification information** check box.
3. If you want additional text displayed, tap the **Notes** tab and enter the text (for instance: Reward if found).
4. On the **Options** tab, select the **Notes** check box.
5. Tap **OK**.

Tip To display owner information on the Today screen, tap **Start > Settings > Personal tab > Today**. On the **Items** tab, select the **Owner Info** check box.

Chapter 5

Synchronizing Information with Your Computer

5.1 About Synchronization

**5.2 Installing and Using Microsoft Windows
Mobile® Device Center on Windows Vista**

**5.3 Installing and Using Microsoft ActiveSync®
on Windows XP**

5.4 Synchronizing with Your Computer

5.5 Synchronizing via Bluetooth

5.6 Synchronizing Music and Video

5.1 About Synchronization

You can take information from your computer wherever you go by synchronizing them to your device. The following types of information can be synchronized between your computer and your device:

- **Microsoft Outlook® information**, which include Outlook e-mail, contacts, calendar, tasks, and notes
- **Media**, such as pictures, music and video
- **Favorites**, which are the bookmarked links to your favorite web sites
- **Files**, such as documents and other files

Before you can synchronize, you need to install first the synchronization software to your computer. Install **Microsoft Windows Mobile® Device Center** from the Getting Started Disc if you have Windows Vista™ on your computer. If you are using Windows XP®, you need to install **Microsoft ActiveSync® 4.5** from the Getting Started Disc. For more information on installing and using these software on your computer, see “Installing and Using Windows Mobile Device Center” and “Installing and Using ActiveSync” in this chapter.

Ways to synchronize

After you have installed the synchronization software to your computer, connect and synchronize your device with your computer by using one of the following methods:

- Connect and synchronize using the supplied USB sync cable. Upon connecting the sync cable to your device and your computer, the synchronization process starts automatically.
- Connect and synchronize using Bluetooth. You must first set up a Bluetooth partnership between your device and your computer before you can synchronize information between them using Bluetooth. For more information about setting up a Bluetooth partnership, see Chapter 6. For information about synchronizing through Bluetooth, see “Synchronizing via Bluetooth” later in this chapter.

Try to synchronize frequently in order to keep information up-to-date in both your device and your computer.

Note You can also synchronize Outlook e-mail, contacts, calendar, and tasks on your device with the Exchange Server at your work. For more information about setting up your device to synchronize with the Exchange Server, see Chapter 8.

5.2 Installing and Using Microsoft Windows Mobile® Device Center on Windows Vista

Microsoft Windows Mobile® Device Center is the replacement for Microsoft® ActiveSync® on Windows Vista™. Improved features include the following:

- **Streamlined setup.** A simplified setup wizard that makes setting up synchronization partnerships much easier.
- **Photo management.** New photos stored on your Windows Mobile powered device can be detected. The picture acquisition wizard lets you easily tag and transfer photos from your device to the Photo Gallery on Windows Vista.
- **Media synchronization.** The desktop Microsoft® Windows Media™ Player allows you to synchronize and shuffle music files on your device.
- **File browsing.** Enhanced device browsing experience allows you to browse and open documents on your device directly from your PC.
- **Enhanced user interface.** A more intuitive user interface helps you to quickly configure device settings.

Install Windows Mobile Device Center

Follow the steps below to install Windows Mobile Device Center on Windows Vista.

1. Insert the Getting Started Disc into the CD drive on your PC. The installation wizard checks your PC and automatically launches the Windows Mobile Device Center installer if your PC has Windows Vista.
2. Windows Mobile Device Center is available in English and several other languages. Select the desired language then click **Next**.
3. Click **Setup and Installation** then click **Next**.

4. Select the **Windows Mobile Device Center** check box. If you also want the electronic file of the user manual (PDF format) copied to your PC, select the **Windows Mobile Device Handbook** check box.
5. Click **Install**.
6. On the license agreement screen, click **Accept**.
7. When installation is complete, click **Done**.

Note To install other programs from the Getting Started Disc, click **Additional Tools** and follow the on-screen instructions to complete the installation.

5.3 Installing and Using Microsoft ActiveSync® on Windows XP

Follow the steps below to install and set up ActiveSync 4.5 on Windows XP or other compatible Windows systems. To see a complete list of the desktop Windows systems that are compatible with ActiveSync, see “PC Requirement to Run ActiveSync” in the Appendix.

Install and set up ActiveSync

1. Insert the Getting Started Disc into the CD drive on your PC. The installation wizard checks your PC and automatically launches the ActiveSync installer if your PC has Windows XP or other compatible Windows system.
2. Follow the on-screen instructions to install ActiveSync.
3. After installation is completed, connect your device to your PC using the supplied USB cable or via Bluetooth.
4. The Synchronization Setup Wizard automatically starts and guides you to create a synchronization relationship. Click **Next** to proceed.
5. To synchronize your device with your computer, clear the **Synchronize directly with a server running Microsoft Exchange Server** check box then click **Next**.
6. Select the information types that you want to synchronize then click **Next**.
7. Click **Finish**.

When you finish the wizard, ActiveSync synchronizes your device automatically. Notice that Outlook e-mails and other information will appear on your device after synchronization. Once synchronization completes, you can disconnect your device from your PC.

5.4 Synchronizing with Your Computer

When you connect your device to the PC using a USB cable or a Bluetooth connection, ActiveSync will automatically synchronize. While your device is connected, ActiveSync synchronizes every time you make a change on either the PC or your device.

You can also manually start and stop synchronization any time.

To manually start and stop synchronization

1. After connecting your device to your PC, tap **Start > Programs > ActiveSync** on your device.
2. Tap **Sync** to start synchronization.
To end synchronization before it completes, tap **Stop**.

To change which information is synchronized

You can add or reduce the types of information to synchronize between your device and PC.

1. Before changing synchronization settings on your device, disconnect your device from your PC.
2. On your device, tap **Start > Programs > ActiveSync**.
3. Tap **Menu > Options**.
4. Do one or both of the following:
 - Select the check box for any items you want to synchronize. If you cannot select a check box, you might have to clear the check box for the same information type elsewhere in the list.
 - Clear the check box for any items you want to stop synchronizing.
5. To customize settings for an item, tap that item then tap **Settings**. Settings are not available for all items.

Note The check boxes of the Favorites, Files and Media items are always grayed out in ActiveSync Options on your device. You can only select or clear these items from Windows Mobile Device Center or ActiveSync on your computer.

To synchronize with more than one computer

You can set up your device to synchronize with more than one PC or with a combination of one or more PCs and Exchange Server. When synchronizing with multiple computers, the items that you synchronize will appear on all of the computers with which they are synchronized.


For example, if you have set up synchronization with two PCs (PC1 and PC2), which have different items, and you synchronize Contacts and Calendar on your device with both computers, the result is as follows:

Location	New state
PC1	All Outlook contacts and calendar appointments that were on PC2 are now also on PC1.
PC2	All Outlook contacts and calendar appointments that were on PC1 are now also on PC2.
Pocket PC Phone	All Outlook contacts and calendar appointments from both PC1 and PC2 are on your device.

- Notes**
- Outlook e-mail can be synchronized with only one computer.
 - To stop synchronizing with one PC completely, tap **Menu > Options**, tap the computer name, then tap **Delete**.

To resolve ActiveSync connection problem

The desktop Microsoft ActiveSync 4.0 and later versions utilize a network type of connection with Windows Mobile powered devices, since this allows faster data transfer than a serial USB connection. When the PC is connected to the Internet or a local network, in some cases, the PC may disconnect the ActiveSync connection with your device in favor of the Internet or network connection. If this happens, tap **Start > Settings > Connections** tab > **USB to PC**, then clear the **Enable advanced network functionality** check box. This makes ActiveSync utilize a serial USB connection with your device.

The **USB to PC** () icon appears on the Today Screen when serial USB connection is used.

5.5 Synchronizing via Bluetooth

You can connect and synchronize your device with the PC using Bluetooth.

To synchronize with a computer via Bluetooth

1. Set up the synchronization software (Windows Mobile Device Center or ActiveSync) on your computer to use a Bluetooth connection. For more information, see the software Help on your computer.
2. On your device, tap **Start > Programs > ActiveSync**.
3. Make sure that Bluetooth on both your device and the computer are turned on and set to visible mode. For more information, see “Using Bluetooth” in Chapter 6.
4. Tap **Menu > Connect via Bluetooth**.
5. If this is the first time you have connected to this computer via Bluetooth, you must first complete the Bluetooth wizard on your device and set up a Bluetooth partnership between your device and the computer. For more information about creating a Bluetooth partnership, see “Bluetooth partnerships” in Chapter 6.

- Notes**
- To preserve battery power, turn off Bluetooth when not in use.
 - To connect and synchronize your device with a computer via Bluetooth, your computer must have built-in Bluetooth or installed with a Bluetooth adapter or dongle.

5.6 Synchronizing Music and Video

If you want to carry your music or other digital media along with you while you travel, set up Microsoft Windows Media Player on your computer to synchronize music and video with your device.

Other than selecting the media information type in ActiveSync to be synchronized, all media synchronization settings must be set in Windows Media Player. Before media can be synchronized, you must do the following:

- Install Windows Media Player Version 10 on the PC. (Windows Media Player 10 works only in Windows XP or later versions).
- Connect your device to the PC with a USB cable. If your device is currently connected using Bluetooth, you must end that connection before media can be synchronized.

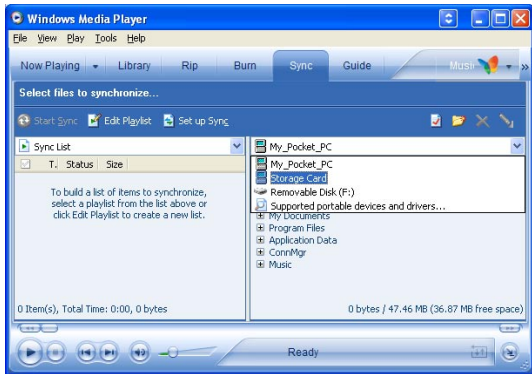
- Insert a storage card into your device (32MB or larger is recommended).
- Set up a sync partnership between the storage card and Windows Media Player.

Change Media synchronization settings

Once you select the Media information type in ActiveSync to be synchronized, any of your favorite music and video files in Windows Media Player playlists can be synchronized. All you have to do is set up synchronization in Windows Media Player for those media files.

To set up a sync relationship with a storage card

1. On the computer, open Windows Media Player.
2. Click the **Sync** tab.
3. Select the storage card.



4. Click **Set up Sync**.
5. Choose whether to synchronize automatically or manually.

For more information about Windows Media Player on your device, see “Using Windows Media Player” in Chapter 11.

Chapter 6

Adding and Organizing Information

6.1 Contacts

6.2 SIM Manager

6.3 Calendar

6.4 Tasks

6.5 Notes

6.6 Voice Notes

6.1 Contacts

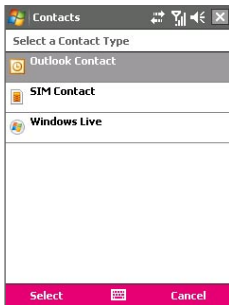
Contacts is your address book and information storage for the people and businesses you communicate with. There are three types of contacts that you can create on your device:

- **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. For each contact, you can store phone numbers, e-mail addresses, instant messaging (IM) names, company and home addresses, and information such as a job title, birthday, and a lot more. You can also add a picture and assign a ring tone to an Outlook contact.
- **SIM contacts.** Contacts that are stored on the SIM card. Only the name and a phone number can be stored for each entry.
- **Windows Live contacts.** Contacts that you communicate with using Windows Live Messenger or MSN. Just like Outlook contacts, you can also enter complete information for a Windows Live contact. For more information about adding Windows Live contacts on your device, see “Add Windows Live contacts” in Chapter 9.

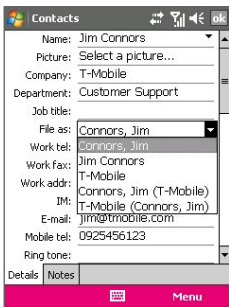
Add and edit contacts

To add a contact on your device

1. Tap **Start > Contacts**.
2. Tap **New**, select **Outlook Contact**, and enter the contact information.



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



- To add a photo of the contact, tap **Select a picture**, then select the picture file or tap **Camera** to take a photo of the contact. This photo appears on the Phone screen when you receive a call from the contact.
- To assign a ring tone to the contact, tap the **Ring tone** field, scroll through the list of tones, then select a desired tone.
- When finished, tap **OK**.

- Tips**
- If someone who is not in your list of contacts calls you, you can create a contact from Call History by tapping and holding a phone number and then tapping **Save to Contacts** from the shortcut menu.
 - To save a phone number that is contained in a message, tap the phone number, then tap **Menu > Save to Contacts**.

To add a contact to your SIM card

- Tap **Start > Contacts**.
- Tap **New** then select **SIM Contact**.
- Enter a contact name and phone number.
- Tap **OK**.

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

To change contact information

1. Tap **Start > Contacts**.
2. Tap the contact.
3. Tap **Menu > Edit** and enter the changes.
4. When finished, tap **OK**.

Organize and search

To group similar contacts

You can group similar contacts for easier management by assigning them to categories.

1. Create a new contact, or select an existing contact to edit.
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 view contacts by category, tap **Menu > Filter** then select the desired category.

Note If your contact list has been filtered by a category, that category is automatically assigned when you create a new contact.

To work with the contact list

There are several ways to use and customize the contact list. Here are a few tips:

1. Tap **Start > Contacts**.
2. In the contact list, do any of the following:
 - In Name view, you can search for a contact by entering a name or number, or by using the alphabetical index. To switch to Name view, tap **Menu > View By > Name**.
 - To see a summary of information about a contact, tap the contact. From there you can also make a call or send a message.
 - To see a list of available actions for a contact, tap and hold the contact.

- To see a list of contacts employed by a specific company, tap **Menu > View By > Company**, then tap the company name.

To find a contact on your device

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

1. Tap **Start > Contacts**.
2. If you are not in Name view, tap **Menu > View By > Name**.
3. Do one of the following:
 - Begin entering a name or phone number in the provided text box until the contact you want is displayed. To show all contacts again, tap the text box and clear the text, or tap the arrow to the right of the text box.
 - Use the alphabetical index displayed at the top of the contact 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 **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. Tap **Start > Contacts**, then select a contact.
2. Tap **Menu > Send Contact > Beam**.
3. Select a device where to beam the contact to.

Note Before you can beam, make sure Bluetooth is turned on and set to discoverable mode on your device and the target mobile device. You can also beam contact information to your PC. For more information, see "Using Bluetooth" in Chapter 8.

To send contact information via text messaging

1. Tap **Start > Contacts**, then select a contact.
2. Tap **Menu > Send Contact > Text Messages**.
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 PC. From your device, you can send a vcard containing contact information as a file attachment in an MMS message.

1. Tap **Start > Contacts**, then 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 about sending MMS messages, see “Using MMS” in Chapter 7.

6.2 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 and edit it. After modifying, 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.

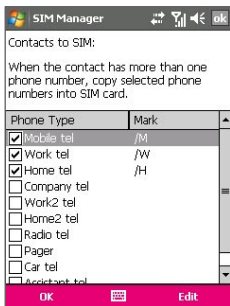
1. Tap **Start > Programs > SIM Manager**.
2. Select the desired item, or select all SIM contacts by tapping **Menu > Select All**.
3. Tap **Menu > Save to Contacts**.

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. Tap **Start > Programs > SIM Manager**, then tap **Menu > Tools > Options**.
2. On the Options screen, 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 the 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 show on the SIM Manager screen.

When your phone number is stored on the SIM card, it will appear on the SIM Manager screen.

#	Name	Phone
8	Ben(3Gphone)	0988252494
1	Ben(3Gphone)	0988252494
12	David Miller	0912395974
5	Derek W	0915577643
4	Ellen Smith	0912865038
19	Jane Jackson	0912091400
22	Jane Smith	886229876745
9	Jasmine (3G)	0988252427
3	John Smith	0933218913

6.3 Calendar

Use **Calendar** to schedule appointments, including meetings and other events. Your appointments for the day can be displayed on the Today screen. If you use Outlook on your PC, you can synchronize appointments between your device and PC. You can also set Calendar to remind you of appointments with a sound or flashing light, for example.

Create appointments

To schedule an appointment

1. Tap **Start > Calendar**.
2. Tap **Menu > New Appointment**.
3. Enter a name for the appointment.
4. 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, select the start and end dates and time.
5. 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.
6. 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 cancel an appointment, tap the appointment and tap **Menu > Delete Appointment**.

- Tips**
- To have the time entered automatically in Day view, tap the time slot for the new appointment, and tap **Menu > New Appointment**.

To set a default reminder for all new appointments

You can have a reminder automatically turned on for all new appointments you schedule.

1. Tap **Start > Calendar**.
2. Tap **Menu > Options > Appointments** tab.
3. Select the **Set reminders for new items** check box.
4. Set the time when you want the reminder to alert you.
5. Tap **OK** to return to the calendar.

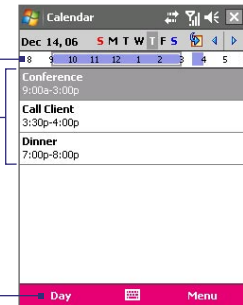
View appointments

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.

Tap to view appointment details.

Tap to switch views.



Agenda view

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

- 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.

Send appointments

To send a meeting request

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

1. Tap **Start > Calendar**.
2. Schedule a new appointment, or open an existing one and tap **Edit**.
3. Tap **Attendees** then 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 Chapter 10.

4. Tap the name of the contact you want to invite.
5. To invite each additional attendee, tap **Add** and tap the name.
6. 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 PC 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 PC.

Tap **Menu > Send as vCalendar** to send a vCalendar containing appointment details as a file attachment in an MMS message. For more information about sending MMS messages, see “Using MMS” in Chapter 7.

6.4 Tasks

Use **Tasks** to keep track of things you need to do. A task can occur once or repeatedly (recurring). You can set reminders for your tasks and you can organize them using categories.

Your tasks are displayed in a task list. Overdue tasks are displayed in red.

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**.

Tip You can easily create a short, to-do type task. Simply tap the **Tap here to add a new task box**, enter a subject, and tap the Enter button on the on-screen keyboard. If the task entry box is not available, tap **Menu > Options** and select the **Show Tasks entry bar** check box.

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 in the **Priority** box, tap a priority level.

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

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

To set a default reminder for all new tasks

You can have a reminder automatically turned on for all new tasks you create.

1. Tap **Start > Programs > Tasks**.
2. Tap **Menu > Options**.
3. Select the **Set reminders for new items** check box.
4. Tap **OK** to return to the task list.

Note The new tasks must have due dates set in order for the reminder to take effect.

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.
4. Tap **OK**.

To locate a task

When your list of tasks is long, you can display a subset of the tasks or sort the list to quickly find a specific task.

1. Tap **Start > Programs > Tasks**.
2. In the task list, do one of the following:
 - Sort the list. Tap **Menu > Sort By**, and tap a sort option.
 - Filter the list by category. Tap **Menu > Filter**, and tap the category you want displayed.

Tip To filter your tasks further, tap **Menu > Filter > Active Tasks** or **Completed Tasks**.

To send task information as a vCalendar

Tap **Menu > Send as vCalendar** to send a vCalendar containing task details as a file attachment in an MMS message. For more information about sending MMS messages, see “Using MMS” in Chapter 7.

6.5 Notes

Notes helps you to quickly capture thoughts, questions, reminders, to-do lists, and meeting notes. You can create handwritten and typed notes, record voice notes, convert handwritten notes to text for easy readability, and send notes to others.

Enter information in Notes

There are several ways to enter information in a note. You can enter typed text by using the on-screen keyboard or handwriting recognition software. You can use the stylus to write or draw directly on the screen.

To set the default input mode for Notes

If you frequently add drawings to your notes, you may find it helpful to set **Writing** as the default input mode. If you prefer typed text, select **Typing**.

1. Tap **Start > Programs > Notes**.
2. In the note list, tap **Menu > Options**.
3. In the **Default mode** box, tap one of the following:
 - **Writing** if you want to draw or enter handwritten text in a note.
 - **Typing** if you want to create a typed note.
4. Tap **OK**.

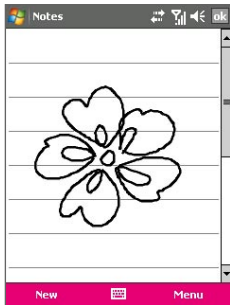
To create a note

1. Tap **Start > Programs > Notes**. In the note list, tap **New**.
2. Tap the **Input Selector** arrow next to the **Input Method** icon on the menu bar, tap the input method you want, and enter your text.
3. If the **Input Selector** arrow is not displayed, tap the **Input Method** icon.
4. When finished, tap **OK** to 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. Tap **Start > Programs > Notes**.
2. In the note list, tap **New**.
3. To draw on the screen, use the stylus like a pen.



Drawing on the screen

4. A selection box appears around your drawing.
5. When finished, tap **OK** to return to the note list.



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.

Record a voice note

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

To create a voice note

1. Tap **Start > Programs > Notes**.
2. Do one of the following:
 - To create a stand-alone recording, record from the note list.
 - To add a recording to a note, create or open a note.

3. If you do not see the Recording toolbar, tap **Menu > View Recording Toolbar**.
4. Tap the **Record** icon () to begin recording.
5. Hold your device's microphone near your mouth or other source of sound.
6. Tap the **Stop** icon () when finished recording.
7. If you are adding a recording to a note, tap **OK** to return to the note list when finished.
8. If you are recording in an open note, an icon will appear in the note.
9. If you are creating a stand-alone recording, the recording will appear in the note list.

Tip To quickly create a recording, press and hold the VOICE COMMAND button, then you can begin to record after a beep sound. Release the button when you are finished.

To change recording formats

1. Tap **Start > Settings > Personal tab > Input**.
2. Tap the **Options** tab, and select the desired format you want in the **Voice recording format** list.
3. Tap **OK**.


Note You can also change recording formats from within Notes. In the note list, tap **Menu > Options > Global Input Options** link (at the bottom of the page), then tap the **Options** tab.

6.6 Voice Notes

Voice Notes lets you record your voice and then quickly send it via MMS or e-mail, beam it or set the recorded voice as your ringtone.


Note Voice Notes 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. On the Today screen, tap **Start > Programs > Voice Recorder**.
2. Hold the device's microphone near your mouth.
3. Tap **Record** or  to start recording a voice clip. You can tap **Pause** to temporarily stop recording. When you want to continue recording, tap **Resume**.
4. Tap **Stop** to stop recording.

All recordings are saved in the **My Voices** folder by default. You can choose another folder to save voice recordings by tapping beside the folder name on the top-left of the screen and then in the menu, choose the folder where to save future recordings.

To play back a voice recording

1. On the Voice Recorder screen, select the voice recording you want to play back.
2. Tap . You can also double-tap the voice recording to play it back.

Notes

- Tap  to increase the volume; Tap  to decrease the volume.
- Tap  to toggle between muting and unmuting the volume.

To send the voice recording via MMS

1. On the Voice Recorder screen, select the voice recording you want to send via MMS.
2. Tap **Menu > Send via MMS**. This automatically opens the MMS program with the voice recording automatically inserted as the audio file for the MMS message.

See “MMS Messages” in Chapter 7 to learn how to compose and send MMS messages.

To send the voice recording via e-mail

1. On the Voice Recorder screen, select the voice recording you want to send via e-mail.
2. Tap **Menu > Send > Outlook E-mail**. This automatically opens the Outlook E-mail with the voice recording automatically inserted as an attachment for the e-mail.

See “Send and receive messages” in Chapter 7 to learn how to compose and send e-mails.

To beam the voice recording

1. On the Voice Recorder screen, select the voice recording(s) you want to beam.
2. Tap **Menu > Beam File**.
3. Tap the device you want to send the voice recording(s) to.
4. On the other device, accept the file transfer to receive the file.

To set the voice recording as a ring tone

1. On the Voice Recorder screen, select the voice recording you want to set as your device’s ring tone.
2. Tap **Menu > Set as Ringtone**.

To rename or move a recording

1. On the Voice Recorder screen, select the voice recording you want to rename or move to another location.
2. Tap **Menu > Rename/Move**.
3. Enter the new **Name** for the voice recording.
4. To move the voice recording, select the new destination **Folder** and **Location**.
5. Tap **OK**.

Tip If multiple voice recordings are selected, you can only move the files but not rename them.

Chapter 7

Exchanging Messages

7.1 Messaging

7.2 Text Messages

7.3 MMS Messages

7.4 Setting Up E-mail Accounts

7.6 Using E-mail

7.1 Messaging

Messaging is where your text messages (SMS), multimedia messages (MMS), and e-mails are located. To read new incoming messages, tap the messaging account on the Today screen that shows you have new messages.

The Account Picker screen

To access all your messaging accounts, tap **Start > Messaging**. The Account Picker screen then appears where you can select an account.



Account Picker screen

While you are in a message list of a certain account, for example Text Messages, tap **Menu > Go To** when you want to switch to other types of messaging accounts.

To access and change messaging settings

Tap **Menu > Options** on the Account Picker screen, or tap **Menu > Tools > Options** while you're in a message list.

7.2 Text Messages

Send short text messages up to 160 characters long to other mobile phones. For quicker and easier typing, use the sliding keyboard to enter your message.

Send text messages

To compose and send a text message

1. On the Account Picker screen, tap **Text Messages**.
2. Tap **New**.
3. Enter the mobile phone number of one or more recipients, separating them with a semicolon. To access mobile phone numbers from Contacts, tap **To**.
4. Enter your message.
 - To quickly add common messages, tap **Menu > My Text** and tap a desired message.
 - To check the spelling, tap **Menu > Spell Check**.
5. Tap **Send**.

- Tips**
- To enter symbols, tap **Shift** using the on-screen keyboard then tap a symbol, or use the Symbol Pad. For more information about entering text and symbols, see Chapter 2.
 - If you want to know when a text message is received, before sending the message that you are composing, tap **Menu > Message Options** then select the **Request message delivery notification** check box.
To always receive a delivery notification, tap **Menu > Tools > Options** in the text message list, tap **Text Messages**, then select the same check box.

Receive text messages

Text messages are automatically received when the phone function is turned on. When the phone is turned off, text messages are held by your wireless service provider until the next time the phone is turned on.



Copy text messages from and to the SIM card

1. Tap **Start > Messaging**.
2. Tap **Menu > Go To > Text Messages**.
3. In the message list, select the text message you want to copy.
4. Do one of the following:
 - To copy a text message to the SIM card, tap **Menu > Copy to SIM**.
 - To copy a text message from the SIM card to your device, tap **Menu > Copy to Inbox**.

Note Text messages stored on your SIM card are automatically displayed in the Inbox folder. Copying them to your device results in duplicate messages in the Inbox folder when your SIM card is in use.

7.3 MMS Messages

Creating and sharing multimedia messages (**MMS**) with your friends and family are easy with your device. You can attach pictures or video, and an audio clip in an MMS. You can even use the device camera to capture photos and video clips while composing a new MMS message, and send them along with your message.

- Notes**
- Please note that MMS is a charged service. In order to use MMS successfully, this has to be provisioned on your mobile account. Please contact the wireless service provider to have this provisioned as part of your calling plan.
 - Please ensure the size of the MMS is within the limits of the wireless service provider if sending to another mobile phone user or sending to an e-mail address.

To access MMS

1. Tap **Start > Messaging**.
2. Tap **Menu > Go To > MMS**.

Change MMS settings

When you send an MMS message, an SMS notification message will first be sent to the recipient, while your MMS message will be temporarily stored on an MMS server of your wireless service provider. When others send you

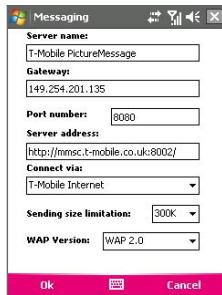
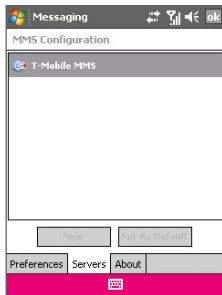
an MMS message, similarly, the MMS message will be stored on the MMS server until you retrieve it. Hence, your device must be configured with the location of the MMS server for you to be able to send and receive MMS messages on your device.

When you purchase your device, it is already preset with your wireless service provider's MMS server settings. If you accidentally lost the preset settings, follow the steps below to configure MMS settings.

To configure MMS settings

1. Tap **Start > Messaging**.
2. Tap **Menu > Tools > Options**.
3. Tap **MMS** in the accounts list to configure settings. The MMS Configuration screen appears.
4. In the **Preferences** tab, select or clear the provided check boxes according to your needs. You can choose to keep track of your MMS messages, retrieve messages immediately, accept or reject messages, and request a delivery or read receipt. You can also specify a resolution for images you send and message delivery attempts.
5. Tap the **Servers** tab and check if your device is preset with MMS server settings.

If there are no preset settings, tap **New** and enter the following information, which you can get from your wireless service provider:



- **Server name.** A descriptive name, such as your wireless service provider name.
 - **Gateway.** Location of the MMS server, which is usually in the form of an IP address.
 - **Port number.** HTTP port number used for connecting to the MMS server and for file transfer.
 - **Server address.** URL address of the MMS server.
 - **Connect via.** Select the connection that your device uses for MMS.
 - **Sending size limitation.** Select the maximum MMS message size allowed by your wireless service provider.
 - **WAP version.** Select either **WAP 1.2** or **WAP 2.0**, depending on which one is being used by your wireless service provider.
6. Tap **OK**. The MMS server settings will then be added as an entry on the MMS Configuration screen.

Note If you add several MMS service providers to the MMS Configuration screen, you can choose one as your default MMS provider. Select the MMS provider's name in the list then tap **Set As Default**.

Create and send MMS messages

After configuring the required settings, you can start to compose and send MMS messages.

To compose an MMS message

You can compose MMS messages in a combination of various slides, where each slide can consist of a photo, audio or video clip, and/or text.





1. On the MMS screen, tap **New**.
2. When you see the Choose a MMS screen, tap a preset template, or tap **Custom** to open a blank MMS message.

Note If you prefer to always use a blank MMS message, select the **Always choose custom** check box.




3. In **To**, enter the recipient's phone number or e-mail address directly, or tap **To**, **Cc**, or **Bcc** to choose a phone number or an e-mail address from Contacts.
4. Enter a subject for your message.

5. Tap the **Insert** icon () to select and insert a photo or video clip.

When selecting a photo or video clip, you can:

- Tap  to view it first, then tap **Select** to use the selected photo or video clip and insert it into the MMS message you are composing.
 - Tap  to take a photo and insert it into the MMS message.
 - Tap  to record an MMS video clip and insert it into the MMS message.
 - Tap the **Exit** icon to quit selection and return to the MMS message.
6. Enter text and insert audio clips by tapping the respective areas. See “To add text to an MMS message” and “To add an audio clip to an MMS message” for details.
7. To add more slides, tap  or tap **Menu > Slides > Insert Slide**. Repeat steps 5 and 6 to insert a photo/video, text, and audio into each slide that you added.

While on a slide, you can:

- Tap  to preview the slide.
 - Tap  to go to the previous slide.
 - Tap  to go to the next slide.
8. While composing an MMS message, you can also do the following:
- Tap **Menu > Options > Background** to choose a background color from the list.
 - Tap **Menu > Options > Text Layout**, then choose whether to place the text above, below, to the left or right of the photo/video.
 - Tap **Menu > Options > Send Options** to specify the sending time, validity, priority, class, and other settings for a message.
 - Tap **Menu > Attachment** to include a contacts card, calendar appointment, or any file as an attachment.
9. Tap **Send** to send the MMS message.

Notes You can also send an MMS message directly from the Pictures & Videos or Camera program. Do one of the following:

- In Pictures & Videos, select a picture from My Pictures, and tap **Menu > Send**. In **Select an account**, tap **MMS**.
- Capture a photo or an MMS video clip using the camera, and tap the **Send** icon (). In the Send File dialog box, tap **Send via MMS**.




To create an MMS message from a template

- While on an MMS message, tap **Menu > Template > New from Template** to compose a message using a predefined template.

Note To save a message as a template, open the message and tap **Menu > Template > Save as Template**.

To add text to an MMS message

When entering text into an MMS message, you can do the following:


- Tap inside the text box and enter your own text.
- Choose from common words or phrases. Tap  to add a text string from the My Text list.
- Tap  to add an emoticon.
- You can easily include a Web page link. Tap  then select a Web page address from the Internet Favorites list on your device.

Tip To edit or delete a phrase on the My Text list, tap and hold a string, then tap **Edit** or **Delete** from the shortcut menu. To create and add a new phrase to the list, tap **New**.

To add an audio clip to an MMS message




You can add audio clips to your MMS message. However, you can add only one audio clip per slide.

1. Tap **Insert audio**.

By default, My Documents will be shown. Tap My Music or another folder that contains audio files. When navigating folders, tap the Down arrow () to return to the upper folder.




2. Select an audio file. When selected, you can:

- Tap  to play the audio clip.

- Tap  to pause, or tap  to stop playback.
- Tap **Select** to insert it into your MMS message.
- Tap the **Exit** icon to quit selection and return to your MMS message.
- To record a new audio clip and add it to your MMS message, tap . The Record pop-up window then opens. Tap **Record** to start recording, and **Stop** to end the recording. Tap **Play** to listen to the recorded audio clip, then tap **Done**. The new audio clip is automatically inserted into your MMS message.

View and reply MMS messages

To view an MMS message

- Use the playback controls , , and .
- Tap **Objects** to see a list of files included in the message. On the Message Objects screen, you can do the following:
 - To save a file, select it, and tap **Menu > Save**.
 - To save the contents of a text file to the My Text list, tap **Menu > Save into "My Text"**.
 - To associate a photo to one of your contacts, tap **Menu > Assign to Contact**.

To reply to an MMS message

- Tap **Menu > Reply** to reply to the sender of the message, or tap **Menu > Reply All** to reply to all persons listed in To, Cc, and Bcc of the message.

7.4 Setting Up E-mail Accounts

Before you can send and receive e-mail, you need to set up your e-mail account on your device. There are several ways how you can set up and access e-mail accounts on your device:

- To set up your personal and work e-mail accounts, use **T-Mobile's My E-mail** service if you are subscribed to this service. For more information, see "T-Mobile My E-mail" in this chapter.

Another way is to use **Windows Mobile's E-mail Setup Wizard**. For more information, see "Using E-mail Setup Wizard" in this chapter.

- Use Windows Live Mail to access your hotmail account. For more information, see Chapter 9.
- Connect your device with your PC and synchronize Outlook e-mail. For more information, see Chapter 5.
- Synchronize wirelessly with a Microsoft Exchange Server, if the server is set up for wireless synchronization. For more information, see Chapter 10.

T-Mobile My E-Mail

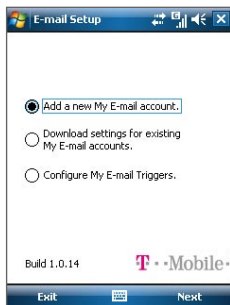
T-Mobile My E-Mail service provides you unlimited access to your work and personal e-mail from your device. Send and receive e-mail messages from AOL®, Yahoo!® Mail Plus, EarthLink™, Comcast®, Microsoft® Exchange, Lotus Notes®/Domino®, and many more, including any POP3 or IMAP4 accounts.

Note Restrictions may apply. Contact your e-mail provider for additional information.

Requirement You need to have a subscription to T-MobileWeb. To sign up for T-MobileWeb, tap **t-zones** on the Today screen and navigate to the **Web & Applications** page.

To set up e-mail accounts using T-Mobile My E-mail

1. Tap **Set up My E-Mail** on the Today screen, or tap **Start > Programs > My E-mail**.
2. On the E-mail Setup screen, select **Add a new My E-mail account** and tap **Next**.



T-Mobile's Set Up My E-mail screen

- Tips**
- If you select **Download settings for existing My E-mail accounts**, you will be taken to a screen where you can download e-mail settings from your existing account(s).
 - If you select **Configure My E-mail Triggers**, you will be taken to a screen where you can enable or disable e-mail updates. Follow the on-screen instructions to learn more about updates.

3. Type your e-mail address and password.

4. Tap **Next**.

After you have added an e-mail account, you will see it on Windows Mobile's Account Picker screen. (See "The Account Picker screen" earlier in this chapter.) You are now ready to send and receive messages with this account.

If you have more e-mail accounts, perform the above procedure again to add them to your device.

- Notes**
- If you turn off the Alerts feature at www.my.t-mobile.com, you will not receive automatic e-mail updates and My E-mail alerts on your device.
 - If you want to access My E-mail on your computer, you will need to register for an account on <http://my.t-mobile.com>.

E-mail Setup Wizard

Another way you can set up e-mail accounts on your device is to use **Windows Mobile's E-mail Setup Wizard**. The wizard lets you easily add your company Outlook e-mail, POP3, and IMAP4 accounts, as well as any web-based accounts such as Gmail®, Yahoo!® Mail Plus, AOL®, and more.

To set up e-mail accounts using E-mail Setup Wizard

1. Tap **Start > Messaging**.
2. Tap **New E-mail Account**.
3. From the **Your e-mail source** list, select the type of e-mail account you want to set up.
4. The E-mail Setup Wizard guides you step-by-step through the setup process.



E-mail Setup Wizard

Note For more information about setting up your company Outlook e-mail account, see Chapter 10.

To set up your POP3 or IMAP4 e-mail account

Set up a POP3 or IMAP4 e-mail account on your device if you have an e-mail account with an Internet service provider (ISP) or a work account that you access using a VPN server connection.

1. Tap **Start > Messaging**.
2. Tap **New E-mail Account** to use the E-mail Setup Wizard to set up your POP3 or IMAP4 e-mail account.

3. Select **Other** in the **Your e-mail source** list, then tap **Next**.
4. Select **Other (POP/IMAP)** in the **Your e-mail provider** list, then tap **Next**.
5. Enter your e-mail address. To allow Auto configuration to download e-mail server settings automatically (if possible), make sure the **Try to get e-mail server settings from the Internet** check box is selected.
6. Tap **Next**. Auto configuration then attempts to download necessary e-mail server settings so that you do not need to enter them manually.
7. Once Auto configuration has finished, tap **Next**.
8. If Auto configuration was successful, the **User name** field automatically gets populated. Enter your display name (the name you want displayed when you send e-mail) and password. Select **Save password** so you do not need to enter it each time you connect to your e-mail server.

If Auto configuration was not successful, contact your ISP or network administrator for the settings and enter them manually.

9. Tap **Next**
10. Review your account information, make any necessary changes, then tap **Next**.
11. Review the server information (incoming mail server and outgoing mail server names), and make changes if necessary.
Note The domain name is not required for an account with an ISP but may be required for a work account.
12. Tap **Options** to select download options, set the e-mail format as HTML or plain text, and more. For more information, see “To customize download and format settings”.
13. Tap **Finish**.
14. A message then appears, prompting whether or not you want to download messages to your device. Tap **Yes** or **No** according to your preference.

To customize download and format settings

Before you tap **Finish** when setting up your POP3 or IMAP4 e-mail account, you can tap **Options** to choose download options, message format, and other settings.

Options	Description
Connect automatically and check for messages	You can select a time interval for connecting to the Internet automatically to send and receive messages. This may result in higher connection charges. To save costs, you can select never to connect automatically.
Use above setting when roaming	This allows your device to data roam when there is a time interval for connecting to the Internet automatically. Since this may result in higher connection costs, you may want to leave the check box cleared.
Send/receive when I click Send	By default, messages are immediately delivered when you tap Send . If you prefer to save outgoing messages to the Outbox folder first, clear the check box. (In this case, you will need to manually send messages by tapping Menu > Send/Receive .)
Connection	Select the T-Mobile service or data connection to use for connecting to the Internet.
Only display messages from the last ___ days	Set the number of days of messages that you want to be downloaded to your device.
Incoming mail server requires SSL authentication	Select this to ensure you always receive e-mail for this account using SSL authentication. This enables you to receive personal information more securely. Please note that if you select this and your ISP does not support an SSL connection, you will not be able to connect to receive e-mail.
Outgoing mail requires authentication	Select this if your outgoing e-mail server (SMTP) requires authentication.
Use separate settings	If your outgoing e-mail server requires a different user name and password than the ones you entered before, select this check box then tap Outgoing Settings to enter the required settings.

Options	Description
	<p>Outgoing Server Settings: Enter your user name, password and domain for the outgoing e-mail server. Select the Require SSL for outgoing mail check box to ensure you always send e-mail from this account using an SSL connection. This enables you to send personal information more securely. Note that if you select this and your ISP does not support an SSL connection, you will not be able to send e-mail.</p>
Message format	Select HTML or Plain Text.
Download size limit	Select the e-mail download size. If you have large volumes of e-mail, use a lower size or select to download headers only.

7.6 Using E-mail

After setting up e-mail accounts on your device, you can start sending and receiving e-mail messages.

Create and send messages

To compose and send a message

1. Tap **Start > Messaging** then select an e-mail account.
2. Tap **Menu > New**.
3. Enter the e-mail address of one or more recipients, separating them with a semicolon. To access e-mail addresses stored in Contacts, tap **To**.
4. Enter a subject and compose your message. To quickly add common messages, tap **Menu > My Text** and tap a desired message.
5. To check the spelling, tap **Menu > Spell Check**.
6. Tap **Send**.

- Tips**
- To enter symbols, tap **Shift** using the on-screen keyboard then tap a symbol, or use the Symbol Pad. For more information about entering text and symbols, see Chapter 2.
 - To set the priority, tap **Menu > Message Options**.

- If you are working offline, e-mail messages are moved to the Outbox folder and will be sent the next time you connect.

To add an attachment to a message

1. In the message that you are composing, tap **Menu > Insert** and tap the item you want to attach: **Picture**, **Voice Note**, or **File**.
2. Select the file you want to attach, or record a voice note.

View and reply to messages

To read an incoming message

By default, only the first few kilobytes of a message are shown when you open and read an incoming message. To read the whole message, do one of the following:

- Scroll down to the end of the message and tap **Get the rest of this message**; or
- Tap **Menu > Download Message**.

The message will be downloaded the next time you tap **Menu > Send/Receive** to send and receive e-mail.

- Notes**
- If your company is running Microsoft Exchange Server 2007, the message downloads immediately, without waiting until the next time you synchronize. For more information about working with company e-mails, see Chapter 10.
 - The size column in the message list displays the local size and server size of a message. Even when an entire message has been downloaded, these numbers may differ because the size of a message can vary between the server and the device.

To download an attachment

An attachment appears below the subject of the message. Tapping the attachment opens the attachment if it has been fully downloaded or marks it for download the next time you send and receive e-mail.

- Notes**
- If there are multiple attachments in the message, all attachments are downloaded.
 - For information about setting your device to automatically download file attachments, see "Customize e-mail settings".
 - If your company is running Microsoft Exchange Server 2007, the attachment downloads immediately, without waiting until the next time

you synchronize. For more information about working with company e-mails, see Chapter 10.

To reply to or forward a message

1. Open the message and tap **Menu > Reply, Menu > Reply All**, or **Menu > Forward**.
2. Enter your response. To quickly add common messages, tap **Menu > My Text** and tap a desired message.
3. To check the spelling, tap **Menu > Spell Check**.
4. Tap **Send**.

- Tips**
- To see more header information, scroll up.
 - To always include the original message, from the list view, tap **Menu > Tools > Options > Message** tab, and select the **When replying to e-mail, include body** check box.
 - In the Outlook E-mail account, you will send less data if you do not edit the original message. This may reduce data transfer costs based on your rate plan.

To view and reply to HTML e-mails

You can receive, view and reply to HTML e-mails from any type of e-mail account. The HTML format is retained, without layout shifting or resizing.

Note HTML e-mail support in Outlook Mobile is available only if your company is using Microsoft Exchange Server 2007.

1. Set the message format to HTML. To find out how to set the message format, see “Customize e-mail settings”.
2. Tap **Start > Messaging**, select your e-mail account, and open an HTML e-mail that you received.
3. Tap the **Tap to scroll right** option to be able to scroll sideways and get a complete horizontal view of the message.
4. Tap **Get the rest of this message** that’s shown at the bottom of the message to download and view the whole message.
5. If the e-mail does not download immediately, tap **Menu > Send/Receive**.

6. If images do not immediately appear on the message, tap **Internet pictures blocked** then tap **Download Internet pictures**.
7. Tap **Menu** and choose whether to reply to the sender(s) or forward the message.
8. Enter your response then tap **Send**.

Tip E-mail can contain hyperlinks to web pages.

Download messages

The manner in which you download messages depends on the type of e-mail account you have.

To send and receive e-mail for an Outlook account

1. Tap **Start > Programs > ActiveSync**.
2. Connect your device to your PC using the USB cable or Bluetooth. Otherwise, connect wirelessly if you are synchronizing Outlook e-mail with the Exchange Server. For more information, see Chapter 9.
3. Synchronization automatically begins, and your device sends and receives Outlook e-mail.

Tip You can also manually synchronize anytime by tapping **Sync** in ActiveSync or **Menu > Send/Receive** in Outlook Mobile.

To send and receive e-mail for a POP3/IMAP4 account

If you have an e-mail account with an ISP or a work account that you access using a VPN server connection, you send and receive messages through a remote e-mail server. Before sending and downloading messages, you first need to connect to the Internet or your corporate network.

1. Tap **Start > Messaging** and tap your POP3 or IMAP4 e-mail account.
2. Tap **Menu > Send/Receive**. The messages on your device and e-mail server are synchronized: new messages are downloaded to the device Inbox folder, messages in the device Outbox folder are sent, and messages that have been deleted from the server are removed from the device Inbox folder.

Customize e-mail settings

To change the download size and format for Outlook e-mail

1. Disconnect your device from the computer.
2. Tap **Start > Programs > ActiveSync**.
3. Tap **Menu > Options**, select **E-mail**, then tap **Settings**.
4. On the E-mail Sync Options screen:
 - Under **Download size limit**, select the desired email size.
 - Under **Message format**, select HTML or Plain text.
5. Close ActiveSync and reconnect your device to the computer.

To change the download size and format for POP3/IMAP4 e-mail

1. Tap **Menu > Options** on the Account Picker screen, or tap **Menu > Tools > Options** while you're in a message list.
2. Tap your e-mail account.
3. Keep tapping **Next** until you reach **Server information**.
4. Tap **Options** then tap **Next** twice.
5. Under **Download size limit**, select the desired email size.
6. Under **Message format**, select HTML or Plain text.
7. Tap **Finish**.

To exclude your e-mail address when replying to all

When you reply to all the recipients of an Outlook e-mail, your own e-mail address will also be added to the recipient list. Customize ActiveSync so that your e-mail address will be excluded from the recipient list.

1. In ActiveSync on your device, tap **Menu > Options**.
2. Select the **E-mail** information type and tap **Settings**.
3. Tap **Advanced**.
4. In the **My e-mail addresses** text box, enter your e-mail address.
5. Tap **OK**.

To automatically receive attachments on Outlook e-mails

1. Tap **Start > ActiveSync**.
2. Tap **Menu > Options**.
3. Tap **E-mail > Settings**, then select **Include file attachments**.

To automatically receive attachments on IMAP4 e-mails

1. Tap **Start > Messaging**.
2. Tap **Menu > Options**.
3. Tap the name of your IMAP4 account.
4. Tap **Next** until you reach **Server information**, then tap **Options**.
5. Tap **Next** twice, then select a download size from the Download attachments smaller than list box.

To store attachments on a storage card

1. Tap **Menu > Tools > Options > Storage** tab.
2. Select the **Store attachments on storage card** check box.

Chapter 8

Getting Connected

8.1 Connecting to the Internet

8.2 Internet Explorer Mobile

8.3 Using Comm Manager

8.4 Using Bluetooth

8.5 Using Wi-Fi

8.6 Using Internet Sharing



8.1 Connecting to the Internet

Your device is equipped with powerful networking functions that enable you to connect to the Internet or your company's network through wireless and conventional connections. You can set up your device to establish a connection via Wi-Fi, GPRS, Dial-up, Bluetooth, Virtual Private Network (VPN), or a Proxy connection.

Requirement To use Wi-Fi, GPRS and EDGE, you need to purchase an Internet/Data plan from T-Mobile.

Your device has two groups of connection settings: **T-Mobile Data** and **My Work Network**. T-Mobile Data settings are used to connect to the Internet, while My Work Network settings can be used to connect to any private, corporate network.

Wi-Fi

The easiest way to access the Internet is to use Wi-Fi. Use Wi-Fi to connect to **T-Mobile Hotspot**, if you have this service added to your data plan, or other available wireless networks. For more information about setting up a Wi-Fi connection on your device, see "Using Wi-Fi" later in this chapter.

GPRS/EDGE

GPRS/EDGE is a non-voice value-added service that allows information to be sent and received across a mobile telephone network. Use GPRS/EDGE to connect to the Internet and to send and receive multimedia messages on your device.

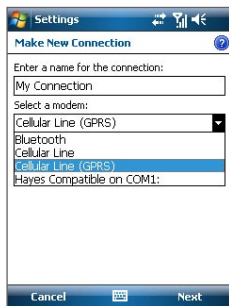
You will be billed per KB (Kilobyte) when you use GPRS/EDGE. Check with T-Mobile to find out about GPRS/EDGE rates.

GPRS/EDGE settings are already preconfigured on your device, and your device is ready to use T-Mobile GPRS/EDGE services. Please do not change the settings as this may cause services to stop working.

To add a new GPRS/EDGE connection

In times when you need to add another GPRS/EDGE connection on your device, obtain the **Access point name** from your wireless service provider. Also, check if a user name and password are required.

1. Tap **Start > Settings > Connections** tab > **Connections**.
2. Under **T-Mobile Data**, tap **Add a new modem connection**.
3. On the Make New Connection screen, enter a name for the connection.
4. In the **Select a modem** list, select **Cellular Line (GPRS)**, then tap **Next**.



5. Enter the Access point name, then tap **Next**.



6. Enter the user name and password, only if required.

7. Tap **Finish**.

- Notes**
- To view help information for any screen, tap the help icon (?).
 - To modify your connection settings, tap **Manage existing connections** on the Connections screen, and complete the connection wizard.

Dial-up

When you use your device to dial up to your Internet Service Provider (ISP) and connect to the Internet, you will be billed by the number of minutes that you use.

To set up a dial-up connection to your ISP

To establish a dial-up connection 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. Tap **Start > Settings > Connections** tab > **Connections**.
2. Under **T-Mobile Data**, tap **Add a new modem connection**.
3. On the Make New Connection screen, enter a name for the 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.
7. Tap **Finish**.

Work network connections

A Virtual Private Network (VPN) connection allows you to access your company network through your device's Internet connection. Whereas a proxy connection lets you access the Internet using an existing connection to your corporate or WAP network.

To set up work network connections

1. Obtain the following information from your network administrator:
 - Server phone number
 - User name

- Password
 - Domain (and other required settings, such as IP address)
2. Tap **Start > Settings > Connections** tab > **Connections**.
 3. In **My Work Network**, follow the instructions for each type of connection.
 4. Complete the connection wizard, then tap **Finish**.

Start a data connection

After setting up a data connection such as GPRS/EDGE 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 Internet Explorer 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. Tap **Start > Settings > Connections** tab > **Connections**.
2. Tap **Manage existing connections**.
3. Tap and hold the name of the desired connection, then tap **Connect**.

To disconnect active data connections

- Tap the Comm Manager icon () on the Today screen, then tap the **Data Connection** button ().


8.2 Internet Explorer Mobile

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

To start Internet Explorer Mobile

- Tap **Start > Internet Explorer**.

To set a Home page

1. In the address bar on top of the Internet Explorer Mobile screen, enter the desired Web page address. Tap  to open the Web page.
2. Tap **Menu > Tools > Options > General** tab.
3. Do one of the following:
 - To use the displayed page as the Home page, tap **Use Current**.
 - To use the default Home page, tap **Use Default**.

Tip To go to your Home page, tap **Menu > Home**.

To transfer favorites from your PC

You can transfer the favorites you have stored on your PC to your device by synchronizing the Internet Explorer favorites on your PC with your device.

1. In ActiveSync on your PC, on the **Tools** menu, click **Options**, and select **Favorites**.
2. In Internet Explorer on your PC, click **Favorites > Add to Favorites** and save or move favorite links to the Mobile Favorites subfolder in the Favorites list.
3. Connect your device to your PC. If synchronization does not start automatically, click **Sync**.

To add a favorite

1. In Internet Explorer Mobile, go to the page you want to add.
2. Tap and hold the page, and tap **Add to Favorites**.
3. Confirm or change the name, and select a folder for storing the favorite.
4. Tap **Add**.

To delete a favorite or folder

1. In Internet Explorer Mobile, tap **Menu > Favorites > Add/Delete** tab.
2. Select the item you want to delete, and tap **Delete**.

To change the size of text on Web pages

- In Internet Explorer Mobile, tap **Menu > Zoom**, and tap the size you want.

To change how Web pages fill the screen

1. In Internet Explorer Mobile, tap **Menu > View**.
2. Tap one of the following:
 - **One Column.** Arranges the content into one column that is as wide as the screen. This means that you will rarely have to scroll horizontally.
 - **Default.** Maintains a layout similar to what you see on a desktop computer, but it makes items smaller and arranges the content so that you can see most of it without having to scroll horizontally.
 - **Desktop.** Keeps the same layout and size as on a desktop computer, which will require both horizontal and vertical scrolling.

To clear the History list

1. In Internet Explorer Mobile, tap **Menu > Tools > Options > Memory** tab.
2. Tap **Clear History**.

To save a picture from a Web page

1. In Internet Explorer Mobile, tap and hold the picture, and tap **Save Image**.
2. Do one of the following:
 - To save the picture in **My Pictures** on your device, tap **Yes**.
 - To save the picture in another location, such as a storage card, tap **Save As**.

To delete temporary Internet files

Your device temporarily stores Web pages that you frequently visit or have visited recently to speed up the display of these Web pages when you access them. You may want to delete these files to free storage space.

1. In Internet Explorer Mobile, tap **Menu > Tools > Options > Memory** tab.
2. Tap **Delete Files**. All pages stored on your device, including offline favorites content, will be deleted.

To set up Internet security settings

Cookies are small files containing information about your identity and preferences so that a page can tailor information to your needs. The page sends the file, and it is stored on your device.

1. In Internet Explorer Mobile, tap **Menu > Tools > Options > Security** tab.
2. To prevent Internet Explorer Mobile from accepting any cookies, clear the **Allow cookies** check box.
3. Select the check boxes for the other security options you want, and tap **OK**.

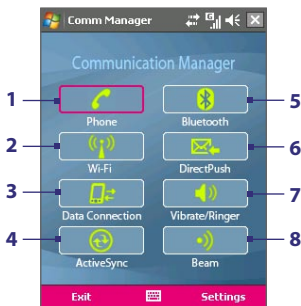
8.3 Using Comm Manager

Comm Manager acts like a central switcher that lets you enable or disable phone features as well as manage your data connections easily.

To open Comm Manager

- Tap the **Comm Manager** icon (📶) on the Today screen; or
- Press the Comm Manager button on the right side of the device.

Simply tap the corresponding button to enable or disable a feature.



- 1 Tap to toggle between enabling or disabling the phone. Tap **Settings > Phone** to set the ring tone and other phone settings. For more information about customizing phone settings, see Chapter 5.
- 2 Tap to toggle between turning on or off Wi-Fi. Tap **Settings > Wi-Fi** to configure Wi-Fi on your device. See "Using Wi-Fi" for details.
- 3 Tap to disconnect active data connections (e.g. GPRS/EDGE). You cannot reconnect a data connection in Comm Manager.
- 4 Tap to open ActiveSync so you can synchronize the device and computer. For more information about the configuration settings for ActiveSync, see Chapter 4.
- 5 Tap to toggle between turning on or off Bluetooth. Tap **Settings > Bluetooth** to configure Bluetooth on your device. See "Using Bluetooth" for details.
- 6 Tap to toggle between automatically retrieving (as items arrive) or manually retrieving Outlook e-mails. For more information, see "Schedule synchronization with Exchange Server" in Chapter 4.
- 7 Tap to toggle between turning on the phone's ringer or setting the phone to vibration/mute mode.
- 8 Tap to toggle between enabling or disabling your device to receive beamed information.

8.4 Using Bluetooth

Bluetooth is a short-range wireless communications technology. Devices with Bluetooth capabilities can exchange information within a distance of about 10 meters without requiring a physical connection. You can even beam information to a device in a different room, as long as it is within the Bluetooth signal coverage range.

Bluetooth can be used in the following ways:

- Beam information, such as files, appointments, tasks, and contact cards, between devices that have Bluetooth capabilities.
- Synchronize information between your device and computer via Bluetooth.
- Use a Bluetooth-enabled headset (or other Bluetooth-enabled hands-free device such as a car kit) with your device for hands-free phone conversations.
- Use a Bluetooth service. Once you connect to another device or computer using Bluetooth, you can locate and use any of the services available on that device.
- Create a connection between your device and another Bluetooth-enabled phone to use that phone as a modem.

Note Normally, you will need another phone as a modem only if your Pocket PC device has no integrated phone capability.

Bluetooth modes

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.
- **Off.** Bluetooth is turned off. In this mode, you can neither send nor receive information using Bluetooth. You might want to turn Bluetooth off at times in order to conserve battery power, or in situations where using a wireless device is prohibited, such as on board an aircraft and in hospitals.
- **Visible.** Bluetooth is turned on, and all other Bluetooth-enabled devices can detect your device.

Note 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.

To turn Bluetooth on and make your device visible

1. On your device, tap **Start > Settings > Connections** tab > **Bluetooth > Mode** tab.
2. Select the **Turn on Bluetooth** and **Make this device visible to other devices** check boxes.
3. Tap **OK**.

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. Creating a partnership between two devices involves entering the same Bluetooth passcode on both devices.

Creating a 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. Make sure that on the two devices, Bluetooth is turned on and in visible mode.

To create a Bluetooth partnership

1. On your device, tap **Start > Settings > Connections** tab > **Bluetooth**.
2. On the **Devices** tab, tap **Add new device**. Your device searches for other Bluetooth devices and displays them in the box.
3. Tap the desired device name in the box.
4. Tap **Next**.
5. Specify a passcode to establish a secure connection. The passcode can be 1 up to 16 characters.
6. Tap **Next**.
7. Wait for the paired device to accept the partnership. The receiving party needs to enter the same passcode that you specified.
8. The name of the paired device is then displayed. You may edit and enter a new name for that device.
9. Select the check boxes of services that you want to use from the paired device.
10. Tap **Finish**.

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 **Finish**. You can now exchange information with the paired device.

To rename a Bluetooth partnership

1. Tap **Start > Settings > Connections tab > Bluetooth**.
2. Tap and hold the partnership on the **Devices** tab.
3. On the shortcut menu, tap **Edit**.
4. Enter a new name for the partnership.
5. Tap **Save**.

To delete a Bluetooth partnership

1. Tap **Start > Settings > Connections tab > Bluetooth**.
2. Tap and hold the partnership on the **Devices** tab.
3. Tap **Delete**.

Connect 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 is for stereo audio over Bluetooth. This means that you can use a Bluetooth stereo headset with your device for hands-free phone conversations as well as for listening to stereo music. Make sure that your stereo headset also supports A2DP.

Just like when connecting to any Bluetooth device, you also need to enter a passcode when connecting to a Bluetooth hands-free or stereo headset. The passcode is fixed and cannot be changed on a Bluetooth headset.

Before you connect it to your device, check for the proper passcode in the manufacturer's documentation.


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. Tap **Start > Settings > Connections** tab.
3. Tap **Bluetooth > Devices** tab > **Add new device**. Your device searches for other Bluetooth-enabled devices and displays them in the list.
4. Tap the name of the Bluetooth headset, then tap **Next**.
5. Enter the passcode of the Bluetooth headset, then tap **Next**.
6. Make sure the **Hands Free** check box is selected.

If you have a Bluetooth stereo headset, also make sure the **Wireless Stereo** check box is selected.



7. Tap **Finish**.

While the Bluetooth headset is connected, the **Headset** icon () will appear on the title bar.

Note If the Bluetooth stereo headset becomes disconnected, turn the headset on and repeat steps 1 to 3 above. Tap and hold the name of the Bluetooth stereo headset and tap **Set as Wireless Stereo**.

Beam information using Bluetooth

You can beam information, such as contacts, calendar items, and tasks, as well as 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. You also need to set Bluetooth on your computer to visible mode. Do one of the following:
 - If your computer has Windows XP SP2 and your computer’s built-in or external Bluetooth adapter is supported by Windows XP SP2, open **Bluetooth Devices** from the Control Panel. Click the **Options** tab, then select the **Turn discovery on** and the **Allow Bluetooth devices to connect to this computer** options.
 - If the Bluetooth adapter on your computer was installed using a third-party provided driver, open the Bluetooth software that came with the Bluetooth adapter. This software varies by manufacturer, but in most cases, you will find a **Bluetooth Configuration** utility which you can open from the Control Panel. After Bluetooth Configuration opens, click the **Accessibility** tab, then select **Let other Bluetooth devices to discover this computer**. Refer to the Bluetooth adapter’s documentation for more information.
3. Create a Bluetooth partnership between the two devices. For information about creating a partnership, see “Bluetooth partnerships”.

After a partnership has been created successfully, your computer is ready to receive Bluetooth beams.

4. On your device, tap and hold an item to beam. The item can be an appointment in your calendar, a task, a contact card, or a file.
5. To beam a contact, tap **Menu > Send Contact > Beam**.
To beam other types of information, tap **Menu > Beam [type of item]**.
6. Tap the device name to which you want to send the beam.
7. If you beamed an Outlook item 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 Pocket PC, follow steps 3 to 6 in the above procedure.

Note If the computer or device you want to beam to does not appear in your device's Bluetooth list, make sure that its Bluetooth is turned on and set to visible mode.

To receive a Bluetooth beam

Your device will not detect and notify you of incoming Bluetooth beams unless you set it up to do this.

1. Tap **Start > Settings > Connections tab > Beam**.
2. Select the **Receive all incoming beams** check box.
3. Make sure your device is turned on, visible, and within close range of the device that is beaming the information.
4. When prompted to receive an incoming beam, tap **Yes** to receive the beamed information.

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. Tap **Start > Settings > Connections tab > Bluetooth > FTP tab**.
2. Select the **Enable Bluetooth Explorer** check box. This makes the **\Bluetooth** device folder visible in the 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.

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 Down arrow (▼) on the upper left of File Explorer 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.



3. 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. 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**.

Use the device as a Bluetooth modem

You can connect your device to a notebook or desktop computer through Bluetooth and use the device as a modem for the computer.

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.

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

Alternatively, you can initiate a Bluetooth partnership from the computer by following these steps (based on Windows XP SP2):

- a. In the Control Panel or System Tray, double-click the **Bluetooth Devices** icon.
 - b. In the Bluetooth Devices window, click **Add**.
 - c. The Add Bluetooth Device Wizard opens. Select the **My device is set up and ready to be found** check box, then click **Next**.
 - d. The wizard then detects your device and displays its name in the dialog box. Select the device name, then click **Next**.
 - e. Select **Let me choose my own passkey**, then enter a passcode (1 up to 16 digits) that will serve as an identification number for establishing a secure connection between your device and the computer. Click **Next**.
 - f. A confirmation message then appears on your device. Tap **Yes** to accept the connection, enter the same passcode, then tap **Next**.
 - g. On the computer, click **Finish** to exit the wizard.
 - h. On your device’s Partnership Settings screen, you can change the display name for the computer, then tap **Finish**.
3. Now, open the Internet Sharing program on your device. 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:
 - 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**.
8. On the Internet Sharing screen on your device, check if a connected status is displayed, which indicates that your computer has been successfully connected to the Internet using your device as a Bluetooth modem.

Use another Bluetooth phone as a modem

You can use another phone that has Bluetooth as a modem for your device to browse the Internet or to transfer other information.

To do this, create a Bluetooth modem connection on your device and then send information to the phone by using Bluetooth. The phone relays the information over the mobile phone network and then sends back to your device any information that you had requested over the connection.

Once you create a modem connection to the Bluetooth phone, you can reuse it whenever you want to use the phone as a modem. Make sure that Bluetooth is turned on and visible mode is enabled on both your device and the phone, and that the two are within close range.

Note Normally, you will need another phone as a modem only if your Pocket PC device has no integrated phone capability.

To use a Bluetooth phone as a modem for your device

1. On your device, tap **Start > Settings > Connections** tab > **Connections**.
2. Tap **Add a new modem connection**.

3. Enter a name for the connection.
4. In the **Select a modem** list, tap **Bluetooth**.
5. Tap **Next**.
6. If the phone appears in the **My Connections** list, skip to step 11.
7. If the phone does not appear in the **My Connections** list, tap **Add new device**, and follow the remaining steps.
8. Select the phone from the list and tap **Next**.
9. Enter a passcode and tap **Next**.
10. Enter the same passcode on the phone and tap **Finish**.
11. In the **My Connections** list on your device, select the phone and tap **Next**.
12. Enter the phone number to dial for this connection and tap **Next**.
13. Enter the required logon information for this connection and tap **Finish**.

8.5 Using Wi-Fi

Wi-Fi provides wireless Internet access over distances of up to 100 meters. To use Wi-Fi on your device, you need access to a wireless access point or “hotspot”.

T-Mobile HotSpot gives you wireless access to the Internet over the T-Mobile Wi-Fi network in convenient locations across the U.S., such as airports, coffeehouses, bookstores, universities, and more. It is great for e-mail, Web browsing, and other high-bandwidth applications. Contact T-Mobile to add T-Mobile Hotspot service to your data plan.

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.

Turn Wi-Fi on and off

1. Open the **Comm Manager**.
2. Tap the **WLAN** button to turn on/off the wireless function. The WLAN icon indicates the wireless status.



: Wi-Fi is turned on.



: Wi-Fi is turned off.

3. Available wireless networks will be detected. For more information about connecting to T-Mobile Hotspot or other wireless networks, refer to the procedures below.

Connect to T-Mobile Hotspot

You can set up your device to automatically log into T-Mobile's wireless network whenever you connect to T-Mobile Hotspot.

1. Tap **Start > Settings > Connections** tab > **T-Mobile Hotspot**.
2. Enter your username and password.



3. Select the **Automatic login** checkbox.
4. If you also want to be logged off automatically when you turn off Wi-Fi, select the **Automatic logoff** checkbox.
5. Tap **OK**.
6. Open the **Comm Manager** and turn on Wi-Fi.

- Your device scans for available wireless networks and then lists them on a pop-up message window. Select **T-Mobile** then tap **OK**.
- Tap **Connect**.

Connect to other wireless networks

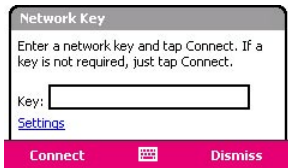
- Open the **Comm Manager** and turn on Wi-Fi.
- Your device then scans for available wireless networks in your area. The network names of the detected wireless networks will be displayed on a pop-up message window. Tap the desired wireless LAN, then tap **OK**.



- On the next pop-up message window, tap **The Internet** if the wireless LAN connects your device to the Internet. Otherwise, tap **Work** if the wireless LAN connects your device to a private network.



- If the wireless LAN is secured by a network key, enter this key, 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).

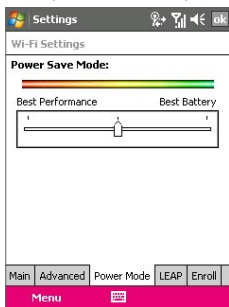
Note Wi-Fi networks are self-discoverable, which means no additional steps are required for your device to connect to a Wi-Fi network. It may be necessary to provide a username and password for certain closed wireless networks, however.

Battery power saving when using Wi-Fi

Using Wi-Fi consumes battery power fast. Turn off Wi-Fi when not in use. You can also enable power saving settings.

To save battery power while connected to a wireless network


1. Tap **Start > Settings > Connections** tab > **Wi-Fi Status** to open the Wi-Fi Settings screen.
2. On the **Power Mode** tab of the Wi-Fi Settings screen, 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 WLAN performance; move to the right (Best Battery) to obtain the maximum battery usage.

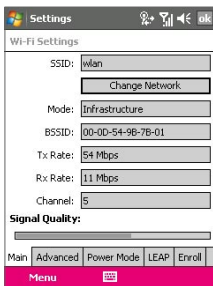
Check wireless LAN status

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

- **Title bar.** When you enable Wi-Fi on your device, the Wi-Fi ON icon () will appear on the title bar of the Today screen.

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 will move back and forth while your device is scanning for a wireless LAN signal. Once your device successfully connects to a wireless LAN, the arrows stop moving.

- **Wi-Fi Settings screen** (the Main tab). Here, it shows the name of the wireless network that your device is currently connected to. The configuration and signal quality of the wireless network are also shown.

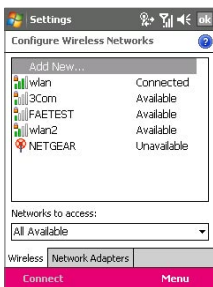


- **Configure Wireless Networks screen.** Tap **Start > Settings > Connections** tab > **Wi-Fi > Wireless** tab. This screen displays the wireless networks currently available.

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**.



8.6 Using Internet Sharing

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

Follow the procedure in this section to set up your device as a USB modem. To learn how to set up your device as a Bluetooth modem, see "Use the device as a Bluetooth modem" in this chapter.

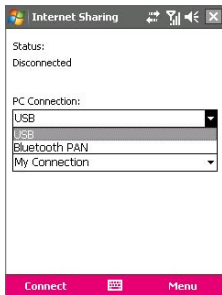
- Notes**
- Make sure your device has a SIM card installed, and you have set up a GPRS/EDGE or phone dial-up modem connection on your device. If your device has not been set up with a data connection yet, tap **Menu** > **Connection Settings** on the Internet Sharing screen. For more information about setting up a GPRS connection, see "To set up a GPRS connection to the Internet". For more information about setting up a phone dial-up connection, see "To set up a dial-up connection to your ISP".
 - If you want to use a USB cable connection, you must first install Microsoft ActiveSync version 4.2 or later on the computer.
 - Before using Internet Sharing, disable ActiveSync on your computer.

To set up your device as a USB modem

1. On your device, tap **Start** > **Programs** > **Internet Sharing**.
2. In the **PC Connection** list, select **USB**.
3. In the **Network Connection** list, select the name of the connection that your device uses to connect to the Internet.
4. Plug in the USB cable between your device and the computer.
5. Tap **Connect**.

To end the Internet connection

- On the Internet Sharing screen, tap **Disconnect**.



Chapter 9

Using Windows Live

9.1 Windows Live Mobile

9.2 Windows Live Search

9.3 Windows Live Messenger Mobile

9.4 Sending Photos to Your Windows Live Space



9.1 Windows Live Mobile

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

Windows Live Mobile offers the following key features:

- **Windows Live Search**, which is Windows Live's search engine for finding information on the web.
- **Windows Live Contacts**, your address book for storing Windows Live Mail, Windows Live Messaging, and Hotmail contacts.
- **Windows Live Messenger Mobile**, the next generation of MSN Messenger Mobile.
- **Windows Live Mail**, the next generation of Hotmail.

Set up Windows Live Mobile

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

To set up Windows Live Mobile for the first time

1. Tap **Start > Programs > Windows Live**.
2. Tap **Sign in to Windows Live**.
3. On the next screen, tap the links to read the Windows Live Term of Use and the Microsoft Privacy Statement. After reviewing them, tap **Accept**.
4. Enter your Windows Live Mail or Hotmail address and password, select the **Save password** checkbox, then tap **Next**.
5. Choose whether or not to show Windows Live's search bar and applications on the Today screen then tap **Next**.



6. Choose what information you want to synchronize online with your device.

If you choose to synchronize **Contacts and Messenger**, your online contacts will be added to the contact list and to Windows Live Messenger Mobile on your device.

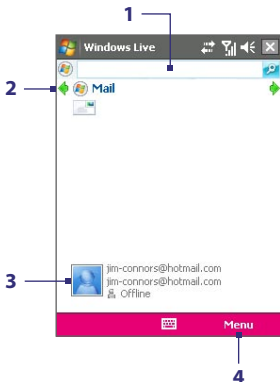
If you choose to synchronize **E-mail**, your Windows Live Mail or Hotmail inbox messages will be downloaded to your device.

7. Tap **Next**.
8. After synchronization is complete, tap **Done**.



The Windows Live Mobile interface

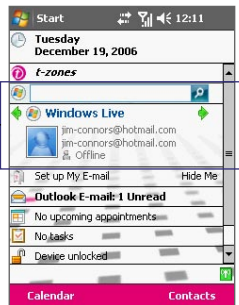
On the main interface of Windows Live Mobile, you will see a search bar, navigation bar, and an area where you can customize to show your picture.



- 1 This is Windows Live Search. See "Windows Live Search" in this chapter for details.
- 2 Tap the Left or Right arrow to switch among Live Mail, Messenger, and Sync status.
- 3 Tap to access Windows Live Messenger. See "Windows Live Messenger" in this chapter for details.
- 4 Tap **Menu** to access and change settings.

If you chose to display the search bar and Windows Live applications on the Today screen when you were setting up Windows Live, you'll see them on the Today screen:

Search bar and
Windows Live applications




To show or hide them, open Windows Live and tap **Menu > Options > Today screen content**.

9.2 Windows Live Search

Windows Live Search allows you to easily find information on the Internet. It is integrated in the Windows Live Mobile interface, and appears as a search bar.

To find information on the Internet

1. Enter your keywords in the search bar.
2. Tap  or **Search**.

Internet Explorer Mobile then launches and displays links to related web sites. The links are organized in categories.

- **Local.** Allows you to perform a local search when you're trying to locate a certain place or street address. See "To search for a location" for details.



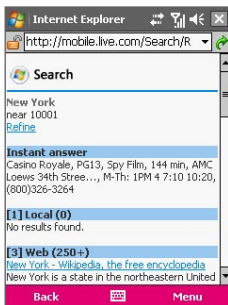
Search results

- **Web.** Shows the results from the web search, which are links to all related web sites.
 - **Map.** Shows links to web sites containing maps.
 - **News.** Shows related links to news articles.
 - **Spaces.** Shows related links to interests, photos, and all kinds of information that are shared in Windows Live Spaces.
3. Scroll through the categories and tap a link to go to the web site where the information that you want is located.

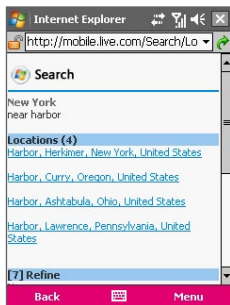
To search for a location

After entering your keywords in the search bar, do the following:

1. On the Internet Explorer Mobile screen, tap **Choose a location** under the **Local** category.
2. In the **Near** box, enter the zip or postal code, city, or state where the place you're looking for is located. You may also enter a specific street name or a general location name as your search keyword.
3. Tap **Search**.
4. If an exact match is found, it will be displayed under **Instant answer**. Otherwise, possible locations will be listed under **Local**. Tap a link to view more information about a location.



Example 1: An exact match



Example 2: Location candidates

9.3 Windows Live Messenger Mobile

Windows Live Messenger Mobile allows you to send and receive instant messages online. 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
- Add 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 Mobile, your device must be connected to the Internet. For information about setting up an Internet connection, see “Connecting to the Internet” in Chapter 6.

Launch the messenger and sign in

To open Windows Live Messenger Mobile

Do one of the following:

- Tap **Start > Programs > Windows Live Messenger Mobile**.
- On Windows Live or the Today screen, tap the Left or Right arrow until you see **Messenger**, then tap it.

To sign in and out

1. To sign in, 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**. Your status changes to **Offline**.

Add Windows Live contacts

You can add new Windows Live contacts in the messenger or in Contacts.

To add a Windows Live contact in the 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. Tap **Start > Contacts**.
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 absolutely 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.

To delete a contact

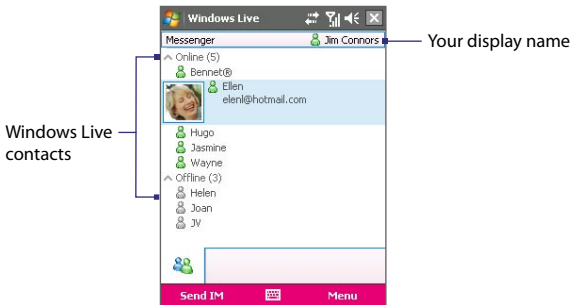
1. In the messenger, select the contact and tap **Menu > Contact options > Remove contact**.
2. Choose whether to block the contact.
3. Choose whether to also delete the contact from your device's contact list.
4. Tap **OK**.


Send instant messages

You can send instant messages with emoticons, and even talk by sending a voice clip. While chatting, you can send and receive files directly on a message window. You can also start conversations with several contacts and switch between their message screens, or you can invite participants to join in a conversation.

To start and end conversations

1. In the contact list, select a contact then tap **Send IM** to open a message screen.



2. Send an instant message. See “To send an instant message with emoticon” for details.
3. To start a conversation with another contact, tap  to go back to the contact list, then select another contact and tap **Send IM** again. Another message screen opens.
4. To switch from one message screen to another, tap the display picture of the contact whom you want to talk to.



5. To end a conversation with the current contact, tap **Menu > End conversation**.
6. To end all active conversations, tap **Menu > End all conversations**.

To send an instant message with emoticon

1. Select a contact and start a conversation.
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 of emoticons.
4. Tap **Send**.

- 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 talk using your voice

1. Select a contact and start a conversation.
2. xxx
3. xxx
4. xxx

Personalize the messenger

While on the contacts list, you can do the following:

- Tap **Menu > Change status** to set your current status (such as Busy, Out to lunch, etc.) so that your contacts will know whether or not you're available.
- Tap **Menu > Change appearance** to change your display name, add a personal message, and add your picture.
- Tap **Menu > Sort by** to organize contacts by online status, groups, name, or e-mail address. You can also hide offline contacts from the contact list.
- Tap **Options** to see more settings.

9.4 Sending Photos to Your Windows Live Space

If you created your own live space, you can send upload pictures to Spaces.

To upload pictures to your Windows Live Space

1. Tap **Start > Programs > Pictures & Videos**.
2. Select a picture then tap **Send to your space**.

Chapter 10

Using Outlook with Exchange Server

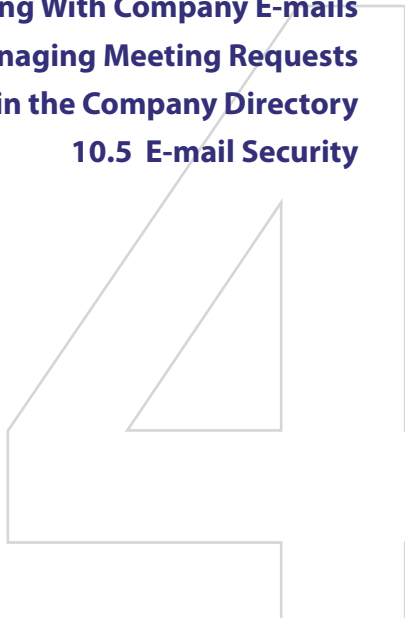
**10.1 Synchronizing Your Device with the
Exchange Server**

10.2 Working With Company E-mails

10.3 Managing Meeting Requests

10.4 Finding Contacts in the Company Directory

10.5 E-mail Security



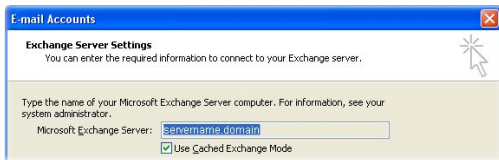
10.1 Synchronizing Your Device with the Exchange Server

If you want to keep up-to-date with your company e-mails and meeting schedules while you're out of the office, you can connect your device to the Internet wirelessly and synchronize these information with your company's Exchange Server. You can also access your company addressbook anytime. Your company must have a mail server that is running Microsoft Exchange Server with Exchange ActiveSync.

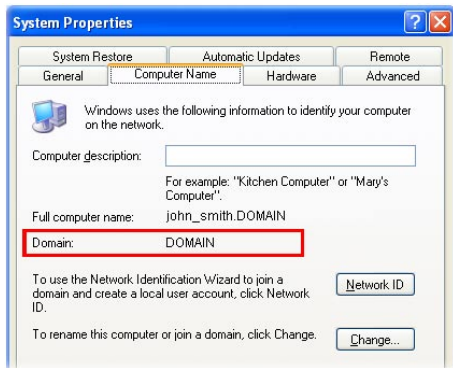
Get the Exchange Server settings

Before you can start to synchronize or access information from the Exchange Server, you need to know the Exchange Server name and domain name of your company's mail server. You can get these information from your network administrator, or do the following steps to find them in your office computer:

1. In Outlook, click **Tools > E-mail Accounts**.
2. Select **View or change existing e-mail accounts**.
3. Double-click **Microsoft Exchange Server**.
4. On the Exchange Server Settings screen, you will see the Exchange Server name.



5. To check the domain name, click **Start > Settings > Control Panel**, then double-click **System**.
6. In the System Properties dialog box, click the **Computer Name** tab. You will then see the domain name.



Set up an Exchange Server connection

To set up an Exchange Server connection on your device, enter the Exchange Server name, domain name, and the user name and password that you use at work onto your device.

If you have not synchronized your device with your PC, follow these steps to set up an Exchange Server connection.

1. Tap **Start > Messaging > Outlook E-mail**
2. Tap **New E-mail Account** on the Account Picker screen.
3. Select **Other** in the **Your e-mail source** list, then tap **Next**.
4. Select **Outlook E-mail** in the **Your e-mail provider** list, then tap **Next**.
5. In **Server address**, enter the Exchange Server name, and tap **Next**.
6. Enter your user name, password, and domain, and tap **Next**.

Tip To change the rules for resolving synchronization conflicts, tap **Advanced**.

7. Select the check boxes for the types of information items that you want to synchronize with the Exchange Server.

8. To change synchronization settings of an information type, for example, E-mail, select the type of information, and tap **Settings**.

9. Tap **Finish**.

Note If you synchronized e-mails with your PC before, open ActiveSync on your device and tap **Menu > Add Server Source** to set up an Exchange Server connection. When you're prompted to select information types for synchronization, you need to clear the **E-mail** check box under the Windows PC item first before you can select the **E-mail** check box under Exchange Server.

Tips To change Exchange Server settings, you can do one of the following:

- On the Account Picker screen, tap **Menu > Options > Outlook E-mail**.
- While in a message list, tap **Menu > Tools > Options > Outlook E-mail**.
- In ActiveSync, tap **Menu > Configure Server**.

To change the information types to be synchronized with the Exchange Server, follow the same steps in changing information types to synchronize with the PC in Chapter 5.

Start synchronization

Before you start synchronizing with the Exchange Server, make sure your device has been set up with a data connection to the Internet so that you can synchronize wirelessly. See Chapter 8 for details.

After you finish setting up an Exchange Server connection, your device automatically starts synchronization.

You can manually start synchronization anytime by tapping **Sync** in ActiveSync.

Note If you connect your device to your office computer via a USB or Bluetooth connection, you can use this connection to the PC to “pass through” to the network and download Outlook e-mails and other information to your device.

10.2 Working With Company E-mails

Your device gives you instant access to your company e-mails and lets you manage your messages easier. You can use some or all of the following mobile messaging features, depending on the version of the Exchange Server that your company is using. Please check this with your network administrator.

- Get instant e-mails on your device using **Direct Push**, or set a schedule for synchronizing Outlook.
- Use the **Fetch Mail** feature to download only one e-mail message at a time without having to wait for a full synchronization.
- Remotely search for an e-mail message that is stored on the Exchange Server.
- Filter messages that are downloaded to your device.
- Flag Outlook e-mail messages that you created on your device.
- Automatically reply messages with an “out-of-office” status.
- Open links to SharePoint documents.
- Receive, reply to, forward, and compose IRM-protected e-mail.
- Encrypt and digitally sign messages. (See “E-mail Security” for details).



Automatic synchronization through Direct Push

Direct Push technology (push e-mail feature) enables you to receive new e-mails on your device as soon as they arrive in your Inbox on the Exchange Server. With this feature, items such as contacts, calendar and tasks are also immediately updated onto your device when these items have been changed or new entries have been added on the Exchange Server. To make Direct Push work, you need to have a GPRS connection on your device.

You need to perform a full synchronization between your device and the Exchange Server first before Direct Push can be enabled.

Requirement The Direct Push feature works for your device only if your company is using **Microsoft Exchange Server 2003 Service Pack 2 (SP2) with Exchange ActiveSync or higher version.**

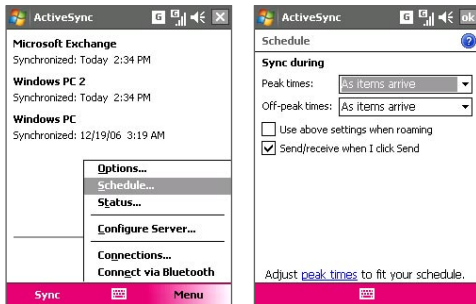
To enable Direct Push via Comm Manager

1. On the Today screen, tap the **Comm Manager** icon (📶).
2. On the Comm Manager screen, tap the **Microsoft Direct Push** button. The button  will turn to , which indicates that you will receive e-mails as they arrive.

When the button is in the  state, you need to manually retrieve your e-mails.

To enable Direct Push via ActiveSync

1. In ActiveSync on your device, tap **Menu > Schedule**.
2. Select **As items arrive** in the **Peak times** and **Off-peak times** boxes.



Note When both the GPRS and Wi-Fi connections are turned on at the same time, the Direct Push feature will always opt for GPRS, for which you could be charged per your network operator's service plan.

Scheduled synchronization

If you do not want to use Direct Push, you can set a regular schedule for synchronizing Outlook e-mail and information. Set how often to synchronize during **Peak times** (which usually refer to your working hours) when e-mail volume is high, as well as **Off-peak times** when e-mail volume is low.

1. In ActiveSync on your device, tap **Menu > Schedule**.
2. Select a shorter time interval in the **Peak times** box for you to be able to receive e-mails more frequently.
3. Select a longer interval in the **Off-peak times** box.

Tip To set the days and hours that make up your peak and off-peak times, tap **Adjust peak times to fit your schedule**.

Instant download through Fetch Mail

The **Fetch Mail** feature downloads an entire e-mail immediately without the need for you to perform a full Send/Receive action. This limits the download to just the e-mail message that you want and helps save data cost.

Requirement Fetch Mail works for your device only if your company is using **Microsoft Exchange Server 2007 or higher**.

1. Tap **Start > Messaging > Outlook E-mail**.
2. Tap an e-mail message to open it.
3. By default, only the first 2KB of the message is shown. To download the whole e-mail, scroll to the bottom of the message then tap **Get the rest of this message**.
4. A “Downloading message” status appears. Wait for the remainder of the message body to be downloaded.

Tip For information about changing e-mail sync options such as the initial download size limit for e-mail, see “Customize e-mail settings” in Chapter 7.

Search for e-mails on the Exchange Server

You can access messages that are not available on your device by searching your Microsoft Exchange Server mailbox. The search results will be downloaded and displayed in a Search Results folder.

Requirement Your company must be using **Microsoft Exchange Server 2007 or higher**.

1. Tap **Start > Messaging > Outlook E-mail**.
2. Tap **Menu > Tools > Search Server**.
3. In the **Look for** text box, enter the search keyword.
4. Choose the date range of messages to search from.
5. From the **Look in** list, choose whether to search from your inbox or outbox only or to search all folders.
6. Tap **Search**.

Filter the message list

< how ? >

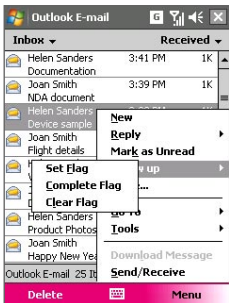
Flag your messages

Flags serve as a reminder to yourself to follow-up on important issues or requests that are indicated in the messages. Flagging messages, which has been a useful feature on desktop Outlook E-mail, can also be done in Outlook Mobile on your device. You can flag received messages on your device.

Requirement Flags are enabled only if e-mails are synchronized with **Microsoft Exchange Server 2007 or higher**. Flags are disabled or hidden if e-mails are synchronized with earlier versions of Microsoft Exchange Server.

To flag or unflag a message

1. Tap **Start > Messaging > Outlook E-mail**.
2. Select a message, or open a message.
3. Tap **Menu > Follow Up** and select one of the following options:



- **Set Flag** Mark the message with a red flag to indicate that it needs follow up.
- **Complete Flag** Mark the message with a check mark to indicate that the issue or request in the e-mail is already completed.
- **Clear Flag** Remove the flag to unmark the message.

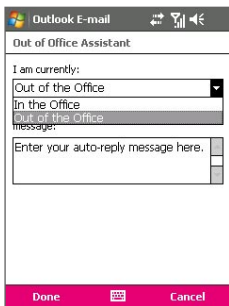
Note E-mail message reminders are displayed on your device if the messages are flagged with reminders and synchronized from the Exchange Server

Out-of-office auto-reply

Outlook Mobile allows you to retrieve and change your out-of-office status. Just like desktop Outlook E-mail, Outlook Mobile automatically sends an auto-reply message when you're not available.

To send out-of-office auto-reply messages

1. Tap **Start > Messaging > Outlook E-mail**.
2. Tap **Menu > Tools > Out of Office**.
3. From the **I am currently** list, select **Out of the Office**.
4. Enter your auto-reply message then tap **Done**.



View SharePoint documents

When you receive an HTML e-mail containing a link to a SharePoint document such as a PDF, Word, Excel, or PowerPoint file, you can tap the link to access and view the document on your device.

Requirement Your company must be using **Microsoft Exchange Server 2007 or higher**.

10.3 Managing Meeting Requests

When you schedule and send meeting requests from your device, you can invite attendees to your meeting and check their status to know about their availability.

When you receive a meeting request, you can reply by accepting or declining the request. The meeting request also clearly indicates whether or not there are conflicting or adjacent meetings.

Requirement Your company must be using **Microsoft Exchange Server 2007 or higher**.

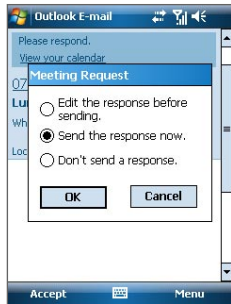
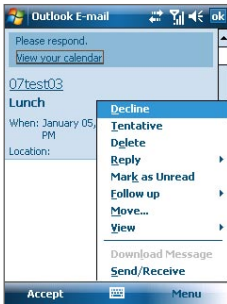
To check the status of invited attendees

1. Tap **Start > Calendar**.
2. Follow the procedure in “To send a meeting request” in Chapter 6 to invite required and optional attendees and send a meeting request.

3. Wait for the attendees to respond. When their responses are sent back to you, your calendar is updated as well.
4. To check the status of the attendees who responded, ?????????? ???? ???? ??????????

To reply to a meeting request

1. When there's an incoming e-mail with a meeting request, a notification message will be displayed on your device. Tap **View** to open the e-mail.
2. Tap **Accept** to reply and accept the meeting request, or tap **Menu** > **Decline** if you cannot attend the meeting.
 - Tips**
 - Before responding, you can check your availability during the time of the requested meeting by tapping **View your calendar**.
 - If the time of the meeting conflicts with your other appointments, a "Scheduling Conflict" status appears on top of the e-mail.
3. Choose whether or not to edit the response e-mail before sending then tap **OK**:



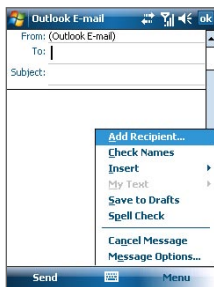
4. If you accepted the meeting request, it will automatically be added as an appointment in Calendar on your device.

10.4 Finding Contacts in the Company Directory

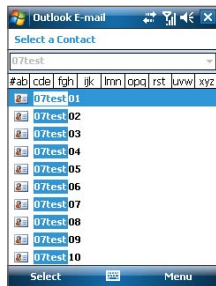
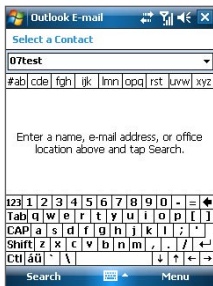
In addition to having contacts on your device, you can access contact information from your organization's Company Directory. By having wireless access to the Company Directory, you can easily send meeting requests and other messages to anyone in your company.

Requirement Access to the Company Directory is available only if your organization is running Microsoft Exchange Server 2003 SP2 or higher, and you have completed your first synchronization with the Exchange Server.

1. Synchronize with Exchange Server if you have never done so.
2. Do any of the following:
 - In Contacts, tap **Menu** > **Company Directory**.
 - In a new message, tap the **To** box. Tap **Menu** > **Add Recipient** then tap **Company Directory**.



- In a new meeting request using Calendar, tap **Attendees** and then tap **Company Directory** at the top of the list.
3. Enter the part or full contact name and tap **Search**. In the search results list, tap a contact to select it.



- Notes**
- Your device must be set up with a data connection.
 - You can search on the following information as long as that information is included in your organization's Company Directory: First name, Last name, E-mail name, Display name, E-mail address, or Office location.

10.5 E-mail Security

Windows Mobile on your device protects your Outlook e-mails through Secure/Multipurpose Internet Mail Extension (S/MIME), which allows you to digitally sign and encrypt your messages.

Digitally signing a message applies your certificate with the authorization key to the message. This proves to the recipient that the message is from you and not from an imposter or a hacker, and that the message has not been altered.

Encryption protects the privacy of your message by converting it from plain, readable text into cipher (scrambled) text. Only the recipient who has the authorization key can decipher the message.

Requirement S/MIME encryption and digital signatures for Windows Mobile-based devices are available only with Exchange Server 2003 SP2 or a later version that supports S/MIME. If you are not using one of these products, or have not yet synchronized, these options are unavailable.

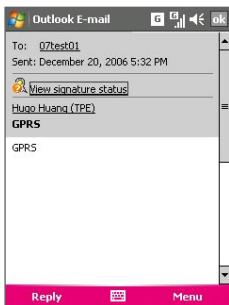
Note You can encrypt a message with or without a certificate. However, to read an encrypted message, you need a valid certificate to decrypt it.

To individually sign and encrypt a new message

1. Tap **Start > Messaging > Outlook E-mail**.
2. Tap **Menu > New** to create a new message.
3. Tap **Menu > Message Options**.
4. From the **Security** list, select whether to encrypt only, sign the message only, or do both.
5. Tap **OK**.

To verify the digital signature on a signed message you receive

1. Open the Outlook e-mail message that has been digitally signed.
2. At the top of the message, tap **View Signature Status**.
3. Tap **Menu > Check Certificate**.



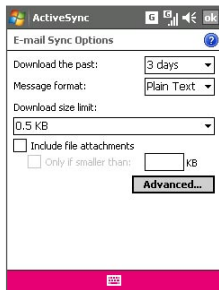
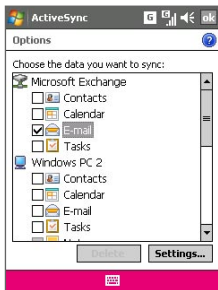
To view the details of the certificate in the message, tap **Menu > View Certificate**.

Note There can be several reasons why a digital signature is not valid. For example, the sender's certificate may have expired, it may have been revoked by the certificate authority, or the server that verifies the certificate is unavailable. Contact the sender to report the problem.

To digitally sign and encrypt all messages

You can set up ActiveSync to digitally sign and encrypt all outgoing messages. You must obtain a valid certificate to sign and encrypt e-mail messages successfully.

1. Tap **Start > Programs > ActiveSync**.
2. Tap **Menu > Options**.
3. Select the **E-mail** information type, and tap **Settings**. On the E-mail Sync Options screen, tap **Advanced**.



4. Do one or both of the following:
 - To sign all your outgoing e-mail messages so that recipients can be certain that the messages were sent by you and have not been altered in any way, select the **Sign all outgoing e-mail messages** check box.
 - To encrypt all your outgoing e-mail messages so that the contents of your messages are protected from being viewed by anyone other than the intended recipients, select the **Encrypt all outgoing e-mail messages** check box.
5. Tap **Choose Certificate** to select a certificate for signing or encrypting outgoing e-mail messages.

Set permissions on an e-mail message

Another way of protecting your e-mail messages is to send messages with restricted permissions using Information Rights Management (IRM).

Requirement This works only with a Microsoft Outlook e-mail account and if your company is using RMS Server SP1.

1. Tap **Start > Messaging > Outlook E-mail**.
2. Create a message, then tap **Menu > Message Options**.
3. In **Permissions**, do one of the following:
 - To allow anyone to read the message, select **Unrestricted access**.
 - To prevent the message from being forwarded, printed, or copied, select **Do not forward**.
4. Tap **OK**.

Tip An IRM-protected message received on your device can only be replied to or forwarded if the message permits it.

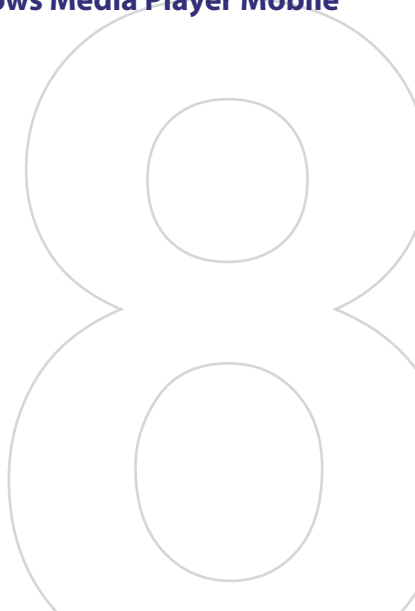
Chapter 11

Experiencing Multimedia

11.1 Using Camera

11.2 Using Pictures & Videos

11.3 Using Windows Media Player Mobile

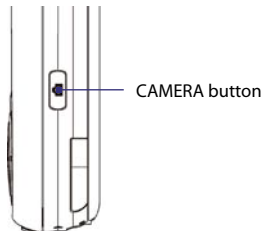


11.1 Using Camera

Taking photos and recording video clips along with audio are easy with your device's built-in camera.

To open the Camera screen

- Press the CAMERA button on your device; or
- Tap **Start > Programs > Camera**;
or
- Tap **Start > Programs > Pictures & Videos > Camera** icon.





To exit the Camera

- Tap the **Exit** icon () on the Camera screen.

Capture modes

The camera on your device allows you to capture pictures and video clips by using various built-in modes with flexibility. The Camera is set to the Photo capture mode by default. The upper left corner of the screen displays the active capture mode. To switch to other capture modes, do any of the following:

- Tap  or  on the Camera screen.
- Press NAVIGATION left or right.

Select the capture mode.

Current capture mode.



The available capture modes of the camera are as follows:

- **Photo:** Captures standard still images.
- **Video:** Captures video clips, with or without accompanying audio.
- **MMS Video:** Captures video clips suitable for sending via MMS.
- **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.
- **Sports:** Captures a sequence of still images (3, 5, 7, or 10) automatically.
- **Burst:** Captures a sequence of still images (maximum 30) as long as the CAMERA button on the device or the ENTER button on the NAVIGATION Control is kept pressed.

File formats supported

Using the above capture modes, the camera in your device captures files in the following formats:

Capture type	Format
Still image	JPEG
Video	MPEG-4 (.mp4), Motion-JPEG (.avi), H.263 (.3gp)
MMS Video	H.263 baseline (.3gp), MPEG-4 (.mp4)
Sports / Burst	JPEG

Camera controls

Use the following device buttons and on-screen controls to take photos or video clips and to modify settings.

The CAMERA and ENTER buttons

Press the CAMERA button on the device to open the Camera screen. If already on the Camera screen, you can use either the CAMERA button or the ENTER button as the shutter release.

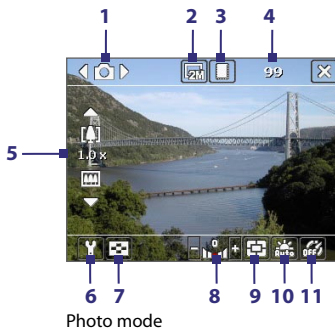
- Press the CAMERA button or the ENTER button to take a photo or contacts picture.

- Press the CAMERA button or the ENTER button to start recording video; press it again to stop recording.
- Press the CAMERA button or the ENTER button each time when taking photos for a picture theme.
- To take consecutive shots in Sports mode, press the CAMERA button or the ENTER button shortly, then move your device to follow the movement of your subject.
- Press and hold the CAMERA button or the ENTER button when taking consecutive shots in Burst mode.

The NAVIGATION Control

- Press NAVIGATION up or down to increase or decrease the zoom level.
- Press NAVIGATION left or right to go to the previous or next sequential capture mode.

On-screen controls and indicators



- 1 Mode Switching control.** Tapping the left/right arrow (◀/▶) on the screen allows you to switch the capture mode.
- 2 Resolution.** The resolution icon (LS/LM/LM/LM/2M) indicates the current resolution. Tap to toggle among the different resolutions.
- 3 Storage.** Tap to toggle between saving captured photos or video clips on the device memory (SD) or on the memory card (SD).


- 4 **Remaining information indicator.** In Photo, Contacts Picture, Picture Theme, Sports, and Burst modes, this shows the remaining, available shots of pictures based on 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.
- 5 **Zoom control.** Tapping the up/down arrow (▲/▼) or tapping (📷) / (📷) on the screen allows you to zoom in or zoom out.
- 6 **Camera Settings.** Tap the **Tool** icon (🔧) to open the Camera Settings screen.
- 7 **Viewer.** Tap the **Viewer** icon (🖼️) to open the Pictures & Videos screen.
- 8 **Brightness.** Tapping the minus/plus icon (⊖/⊕) decreases or increases the brightness level.
- 9 **Metering Mode.** Tap to toggle the metering mode between **Center Area** (📷) and **Average** (📷).
- 10 **White Balance.** Tap to toggle among the different white balance settings: Auto (📷), Daylight (📷), Night (📷), Incandescent (📷), and Fluorescent (📷).
- 11 **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 or the CAMERA button to capture a still image, it starts to count down, and then captures a still image after the assigned time (2 seconds or 10 seconds).
- 12 **Recording indicator.** This shows a red, blinking indicator while video recording is in progress.
- 13 **Exit.** Tap the **Exit** icon (✖️) to exit the Camera program.
- 14 **Progress indicator.** In Picture Theme, Sports, and Burst modes, this shows the total number of consecutive shots.
- 15 **Template Selector icon.** In Picture Theme mode, tap (📷) to toggle among the different templates.



Picture Theme mode

Still image capture modes

While using Still Image capture modes, such as **Photo**, **Contacts Picture**, **Picture Theme**, **Sports**, and **Burst**, you can capture still image(s) by pressing the CAMERA button on the device or the ENTER button on the NAVIGATION. Still images will be saved in JPEG format.

While capturing an image in the Picture Theme capture mode, you can select a preset template. To view and select from different templates, tap  on the Camera screen. Depending on the chosen template, one or more photos may need to be taken for the template.

Video capture mode

While using the **Video** capture mode, you can press the CAMERA button or the ENTER button to start recording a video clip (with audio if desired). To stop recording, press the CAMERA button or the ENTER button again. Your device displays the first frame of the captured video clip by default on the Review screen.


Before you capture a video clip, you can specify the desired length of recording in terms of time or file size on the Camera Settings screen.

Video clips can be saved in MPEG-4 (.mp4), H.263 (.3gp), or Motion-JPEG (.avi) format.

MMS Video capture mode

The **MMS Video** capture mode makes it convenient for you to capture a video file and then send it via MMS. Press the ENTER button or the CAMERA button to start recording a video clip (with audio if desired). To stop recording, press the ENTER button or the CAMERA button again.

The recording length of MMS video is fixed. Recording automatically stops when the preset length is reached. However, you can manually stop recording the video anytime. The time indicator at the upper right side of the Camera screen indicates the time limit.

You can specify the capture format to be either H.263 or MPEG-4 on the Camera Settings screen; however, the ideal format for MMS is H.263 (3GPP). After you capture the video file, tap  on the Review screen to send the file through MMS.

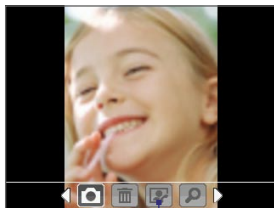
The Review screen

After taking a still image or recording a video clip, you can view the image or video clip on the **Review screen**. In addition, you can tap the icons at the bottom of the Review screen to delete a captured image or video, send it via e-mail or MMS, and more.

Review screen icons







Photo, Video, MMS Video
and Picture Theme modes





Contacts Picture mode





Sports and Burst modes

- 1 Back.** Tap  to go back to the Camera screen.
- 2 Delete.** Tap  to remove the captured image or video.
- 3 Send.** Tap  to send via e-mail or MMS.
- 4 View.** Tap  to view the image in the Pictures & Videos program, or play the captured video in Windows Media Player Mobile.

- 5 **Assign to Contacts.** Tap  to associate the photo to a selected contact.
- 6 **Browse.** After you have taken photos in Sports or Burst mode, the total number of consecutive shots is shown in the lower right corner of the Review screen. Tap the up/down arrow () or press NAVIGATION up/down to browse through the sequence of photos.

To change the display duration of the Review screen

1. Tap  to open the Camera Settings screen.
2. On the Camera Settings screen, tap . The Advanced menu then appears.
3. Tap **Review Duration**, then tap the desired time length for displaying captures on the Review screen.

Zooming

While capturing a still image or a video clip by using the camera, you can zoom in to make the object in focus move closer, and you can zoom out to make the object move farther away. In all capture modes, use NAVIGATION on your device, or tap the triangular Up arrow above the Zoom Ratio indicator, to zoom in your subject. When the zooming limit is reached, you will hear a beep. To zoom out, press NAVIGATION down, or tap the Down arrow. The camera zoom range for a picture or a video clip depends on the capture mode and capture size.

Zoom range

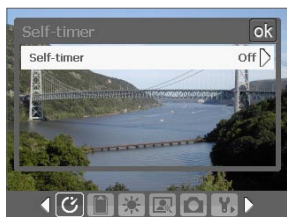
The camera zoom range for a picture or a video clip depends on the capture mode and capture size. The following table is a summary.

Capture mode	Capture size setting	Zoom range
Photo	2M (1600 x 1200)	No zooming available
	1M (1280 x 960)	1.0x to 2.0x
	Large (640 x 480)	1.0x to 2.0x
	Medium (320 x 240)	1.0x to 4.0x
	Small (160 x 120)	1.0x to 10.0x


Capture mode	Capture size setting	Zoom range
Video	Medium (176 x 144)	1x and 2x
	Small (128 x 96)	1x and 2x
MMS Video	Medium (176 x 144)	1x and 2x
	Small (128 x 96)	1x and 2x
Contacts Picture	Large (480 x 640)	1.0x to 2.0x
	Medium (240 x 320)	1.0x to 4.0x
	Small (120 x 160)	1.0x to 4.0x
Picture Theme	Determined by the current template	Depends on the size of the template currently loaded
	Large (640 x 480)	1x and 2x
Sports	Medium (320 x 240)	1x, 2x and 4x
	Small (160 x 120)	1x, 2x, 4x and 8x
	Large (640 x 480)	1x and 2x
Burst	Medium (320 x 240)	1x, 2x and 4x
	Small (160 x 120)	1x, 2x, 4x and 8x

Note The capture sizes available for certain capture formats also vary from one capture mode to another. The zoom range has been calculated based on the following ratio:

The Camera Settings screen



Camera Settings screen in Photo mode

While capturing a still image or video clip using any capture modes, tap the **Tool** icon () to access the Camera Settings screen. The Camera Settings screen allows you to configure capture settings.

When you tap the icons at the bottom of the Camera Settings screen, different menus will appear. Some menus and options may be available only in certain capture modes.

Tip You can also press the Navigation Control buttons to navigate menus.

For more information about the different menus and settings, see the succeeding sections.



Self-timer menu

- **Self-timer.** Select the Self-timer option for capturing images: **Off**, **2 seconds**, or **10 seconds**. Selecting 2 seconds or 10 seconds delays the capturing by the specified time after you press the CAMERA button or the ENTER button.



Template menu

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



Sports/Burst Settings menu

- **Capture Speed.** This determines the interval between shots. **Fast** captures consecutive shots at the shortest interval.
- **Snapshots.** Select the number of consecutive shots to capture (in Sports mode only).



Storage menu

- **Storage.** Select where you want to save your files. You can either save the files to the main memory or to a storage card.



Ambience menu

- **White Balance.** Select a white balance setting type such as Fluorescent, Night, etc. to suit your lighting environment.
- **Effect.** Choose a special effect such as Grayscale, Sepia, etc., to apply to your photos or video clips.



Capture Settings menu

- **Resolution.** Select the desired image or video size.
- **Quality.** Select the JPEG image quality level for all captured still images. You can choose from **Basic**, **Normal**, **Fine**, and **Super Fine**.
- **Metering Mode.** Select a metering mode to allow the camera to measure the amount of light in the center and around the image and calculate the best-fit exposure value before capturing. Choose either **Center Area** to measure light using the center area of the image or **Average** to measure light using the area all around the image.
- **Time Stamp** (Photo, Sports and Burst modes). Choose whether or not to include the shooting date and time on captured photos.



Capture Mode menu

- **Mode.** Switch between different capture modes such as Photo, Video, Contacts Picture, and more. For more information about these modes, see “Capture modes” earlier in this chapter.



Advanced menu

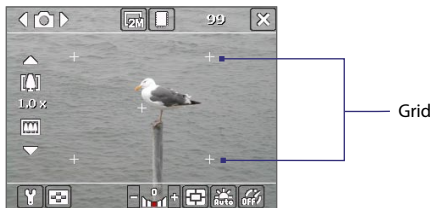


Tap the left/right icon in this bar to switch between the menu pages in the Advanced menu.

Alternatively, when using the NAVIGATION Control buttons, press NAVIGATION up/down to highlight this bar. Then, press NAVIGATION left/right to switch between the menu pages.

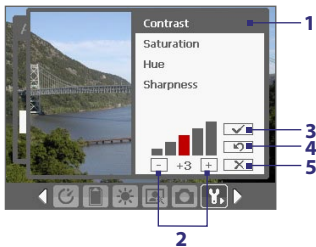
- **Capture Format.** Select the desired file format.
- **Shutter Sound.** Choose whether or not you want the camera to make a shutter sound when you press the ENTER button or the CAMERA button to take photos or record video clips.

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



- **Keep Backlight.** Choose whether to turn the backlight on or off while using the camera. This overrides your device backlight settings while you are using the camera.
- **Review Duration.** Set a time length for displaying the captured image/video on the Review screen before automatically saving it and returning to the live Camera 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.
- **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 country where your device is being used.
- **Record with Audio.** Select **On** to record audio with the captured video clips. This is selected by default. If you select **Off** and then capture a video clip, it will have no audio.
- **Prefix.** Specify how to name captured images and video clips. When **Default** is selected, 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.

- **Counter.** By default, the newly captured image or video files are named with a prefix and some sequential numbers, such as 001, 002, and so on. To reset the numbering to “001” for your captured files, tap **Reset**.
- **Recording Limit.** Specify the maximum time or file size for recording.
- **Template Folder** (in Picture Theme mode only). 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.
- **Adjust.** This option allows you to adjust the camera display properties, such as **Contrast**, **Saturation**, **Hue**, and **Sharpness**.



- 1 In the submenu, tap one of the properties to adjust. Alternatively, press NAVIGATION up/down to select a property.
- 2 To increase/decrease the value, tap the plus/minus icon or press NAVIGATION left/right. The live Camera screen on the background immediately displays the effect of changes.
- 3 Tap to save the settings and close the submenu.
- 4 Tap to reset all properties to their default.
- 5 Tap to close the submenu without applying and saving the changes.

11.2 Using Pictures & Videos

The **Pictures & Videos** program collects, organizes, and sorts images and video clips in the following formats on your device.

File Type	File Extensions
Image	*.bmp, *.jpg, *.gif
GIF animation	*.gif
Video	*.avi, *.wmv, *.mp4, *.3gp

You can view the pictures as a slide show, beam them, send them via e-mail, edit them, or set them as the background on the Today screen.

To copy pictures, GIF animation files, and video clips to your device

You can copy pictures, GIF animation files, and video files from your PC and view them on your device.

- Copy the pictures, GIF animation files, and video files from your PC or a storage card to the My Pictures folder on your device. (You can also copy video files to the My Videos folder.)


For more information about copying files from your PC to your device, see ActiveSync Help on your PC.

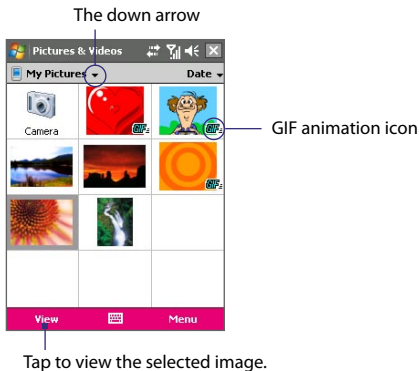
Note You can also copy pictures, GIF animation files, and video files from your PC to your device using a memory card. Insert the memory card into the memory card slot on your device, then copy the files from your PC to the folder you created on the memory card.

To view pictures

1. Tap **Start > Programs > Pictures & Videos**. The images in the My Pictures folder appear as thumbnails by default.
2. Select a picture and tap **View**. If you cannot find a picture in the default My Pictures folder, go to another folder by tapping the Down arrow (▼).

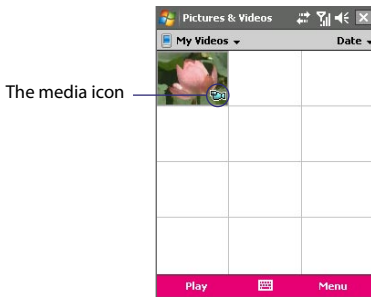
To play GIF animation files

1. Tap **Start > Programs > Pictures & Videos**.
2. Select a GIF animation file (marked with a ) and tap **View**. The GIF Animation program then opens and plays the animation.



To play videos with audio

1. Tap **Start > Programs > Pictures & Videos**. By default, the contents of the My Pictures folder will be shown.
2. To find the video clips that you captured, tap the down arrow (▼) next to the My Pictures folder and tap **My Documents > My Videos**. Video clips are displayed as thumbnails by default, which appear with a media icon (🎵).



3. Tap to select a video and play it in Windows Media Player Mobile.

To view slide shows

You can view your pictures as a slide show on your device. Pictures are shown in full-screen view with 5-second intervals between slides.

1. Tap **Start > Programs > Pictures & Videos**.
2. Tap **Menu > Play Slide Show**.

Note You can specify how pictures are scaled to optimize their display in a slide show. Tap **Menu > Options**, then tap **Portrait pictures** or **Landscape pictures** on the **Slide Show** tab.

Tap anywhere on the screen to display the Slide Show toolbar, which you can use to stop or pause the slide show, rotate the view, and more.

To sort pictures and video clips

If you store a large number of pictures or video clips on your device, you may find it helpful to sort them to quickly find a specific picture or clip. You can sort by name, date, and size.

1. Tap **Start > Programs > Pictures & Videos**.
2. Tap the sort list (labeled **Date** by default), and select the item you want to sort by (**Name**, **Date**, or **Size**).

To delete a picture or video clip

Do any of the following to remove a picture or a video clip:

- Select a picture or video clip on the Pictures & Videos screen, and tap **Menu > Delete**.
- Tap and hold the thumbnail of the picture you want to delete, then tap **Delete**.

Tap **Yes** to confirm the deletion.

To edit a picture

You can rotate, crop, and adjust the brightness and color contrast of your pictures.

1. Tap **Start > Programs > Pictures & Videos**.
2. Tap the picture you want to edit.
3. Tap **Menu > Edit**, and do any of the following:
 - To rotate a picture 90 degrees clockwise, tap **Rotate**.

- To crop a picture, tap **Menu > Crop**. Next, tap and drag to select the area to crop. Tap inside the box to crop, or tap outside the box to cancel cropping.
- To adjust the brightness and contrast levels of a picture, tap **Menu > Auto Correct**.

Note To undo an edit, tap **Menu > Undo**. To cancel all unsaved edits you made to the picture, tap **Revert to Saved**.

To set a picture as the Today screen background

You can use a picture as the background on the Today screen.

1. Tap **Start > Programs > Pictures & Videos**.
2. Select the picture you want to set as the background.
3. Tap **Menu > Set as Today Background**.
4. In **Transparency level**, select a higher percentage for a more transparent picture, or a lower percentage for a more opaque picture.
5. Tap **OK**.

To send pictures and video clips via e-mail

You can send pictures and video clips to other devices via e-mail.

1. First, set up Messaging to send and receive messages.
2. From the program, select the item you want to send.
3. Tap **Menu > Send**, and select one account (such as Outlook E-mail or MMS) to send the attached item.
4. A new message is created with the item attached.
5. Enter the recipient name and subject, and tap **Send**. The message will be sent the next time you synchronize your device.

Note Pictures and video clips are saved automatically before they are sent.

To assign pictures to contacts

You can assign a picture to a contact so that you can easily identify the contact at any point of time.

1. Tap **Start > Programs > Pictures & Videos**.
2. Select the picture you want to assign to a contact.

3. Tap **Menu > Save to Contact**.
4. Tap the contact, or navigate and tap **Select** to choose the contact from your Contacts list.

To customize more image settings

1. Tap **Start > Programs > Pictures & Videos**.
2. Select the picture for which you want to configure further settings.
3. Tap **Menu > Options**. The Options screen appears, allowing you to:
 - Resize a picture so that it can be sent faster through e-mail.
 - Set the direction of rotation for the Rotate function.
 - Configure the view settings during slide shows and activate screensaver options.

11.3 Using Windows Media Player Mobile

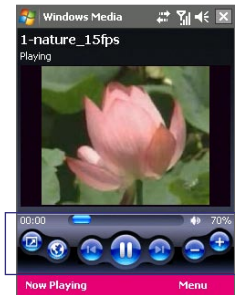
You can use Microsoft Windows Media Player 10 Mobile for Pocket PC to play digital audio and video files that are stored on your device or on a network, such as on a Web site.

Using Windows Media Player Mobile, you can play both audio and video files. These are the following file formats that are supported by this version of Windows Media Player Mobile.

Video File Formats Supported	File Extensions
<ul style="list-style-type: none"> • Windows Media Video • MPEG4 Simple Profile • H.263 • Motion JPEG • 3GPP2 	<ul style="list-style-type: none"> • .wmv, .asf • .mp4 • .3gp • .avi • .3g2
Audio File Formats Supported	Video File Formats Supported
<ul style="list-style-type: none"> • Windows Media Audio • MP3 • MIDI • AMR Narrow Band • AMR Wide Band • AAC • 3GPP2 	<ul style="list-style-type: none"> • .wma • .mp3 • .mid, .midi, .rmi • .amr • .awb • .m4a • .gcp

About the controls

The following are available controls on the Windows Media Player Mobile.



Controls on Windows Media Player Mobile

This control	Does this
	Play/Pause a file.
	Display the video in full screen.
	Display a Web site where you can find music and videos to play.
	Adjust the playback progress of a selected file.
	Skip to the beginning of the current file or to the previous file.
	Skip to the next file.
	Decrease the volume level.
	Increase the volume level.
	Turn the sound on or off.

About the screens and menus

Windows Media Player Mobile has three primary screens:

- **Playback screen.** The default 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 upon which screen you are viewing. For more information about the commands in these menus, see Help on your device.

About licenses and protected files

Some content (such as digital media files downloaded from the Internet, CD tracks, and videos) have associated licenses that protect them from being unlawfully distributed or shared. Licenses are created and managed by using digital rights management (DRM), which is the technology for securing content and managing its access rights. Some licenses may prevent you from playing files that have been copied to your device. Files that have licenses associated with them are called “protected files.”

If you want to copy a protected file from your PC to your device, use the desktop Player to synchronize the file to your device (instead of dragging the file from a folder on your PC to a folder on your device, for example). This will ensure that the license is copied along with the protected file. For more information about synchronizing files to your device and other mobile devices, see desktop Player Help.

Note You can view the protection status for a file by checking its file properties (tapping **Menu** > **Properties**).

Copy media files to your device

Use the latest version of the desktop Player (Windows Media Player 10 or later) to synchronize digital media files to your device (instead of dragging a file from a folder on your PC to a folder on your device, for example). Using the desktop Player ensures that licenses are copied with protected files.

Always synchronize the files to a storage card that is inserted into your device. Do not synchronize to a storage card that is inserted into a storage card reader. In addition, do not synchronize to the internal storage location (RAM) in your device.

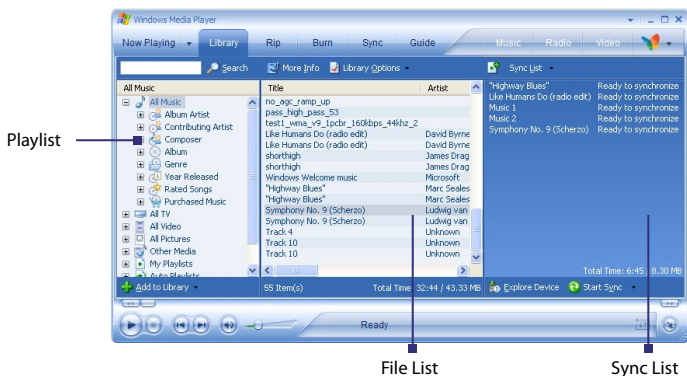
To synchronize content to your device automatically

1. Power off your device. Insert a 32MB or larger storage card into your device, and turn the power back on.
2. On your PC, start Windows Media Player.
3. Connect your device to your PC.
4. If you have not set up synchronization between your device and PC, the Device Setup Wizard opens on your PC.
5. In the wizard, click **Automatic**, select the **Customize the playlists that will be synchronized** check box, and then select the playlists that you want to synchronize.
6. Click **Finish**.
7. The files begin synchronizing to your device. The next time you connect your device to your PC while the desktop version of Windows Media Player is running, synchronization will start automatically.

To synchronize and copy content manually to your device

1. If you have not set up synchronization between your device and PC, follow steps 1 to 6 in “To synchronize content to your device automatically”, except that you should click **Manual** synchronization.
2. To choose files to synchronize and copy to your device, do the following:
 - Click the **Library** tab.
 - In the rightmost pane, click the drop-down list and select **Sync List**.
 - In the Playlist which is the leftmost pane, select a desired playlist.

- In the File List which is the middle pane, multi-select desired files then drag them to the Sync List.
- Click the **Start Sync** button found at the bottom of the Sync List.



Note Audio files copy faster if the desktop Player is configured to automatically set the quality level for audio files copied to your device. For more information, see desktop Player Help on the PC.

Play media

To play items on your device

Use the library on Windows Media Player Mobile to find and play songs, videos, and playlists that are stored on your device or removable storage card.

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.

4. Select a category (for example, My Music or My Playlists).
5. Tap and hold the item that you want to play (such as a song, album, or artist name), then tap **Play**.

Note To play a 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 an item on a network

Use the **Open URL** command to play a song or video that is stored on the Internet or on a network server.

1. If you are not on the Library screen, tap **Menu > Library**.
2. Tap **Menu > Open URL**.
3. Do one of the following:
 - In the **URL** box, enter a network address.
 - In the **History** box, tap a URL that you have previously used.

Note To play an item on a network, you must be connected to a network. For more information about creating a remote connection between your device and a network, see Connections Help on your device.

Use playlists

A playlist is a list of digital media files that play in a specified order. By using playlists, you can group audio and video files together for convenient playback.

In the desktop Player, you can create a playlist of media files and synchronize the desktop Player with your device. For more information about synchronizing media, see “Copy media files to your device” earlier in this chapter.

In Windows Media Player Mobile on your device, your playlists are available in the Library under the My Playlists category. There is also a temporary playlist, called Now Playing, which lists the currently playing file, as well

as any files that have been queued up to play next. You can create a new playlist on your device by saving the current Now Playing playlist and by 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, a number of resources are available to help you troubleshoot the issue.

For more information, see the Troubleshooting Windows Media Player Mobile page at the Microsoft Web site (<http://www.microsoft.com/windows/windowsmedia/player/windowsmobile/troubleshooting.aspx>).

Chapter 12

Managing Your Pocket PC Phone

12.1 Adding and Removing Programs

12.2 Copying Files

12.3 Managing Memory

12.4 Resetting Your Pocket PC Phone

12.5 Checking System Information

12.6 Battery Saving Tips



12.1 Adding and Removing Programs

Before you purchase additional programs for your device, you should note the model name of your device, the version of Windows Mobile software running on it, and the type of processor. This information will help you select a program that is compatible with your device. For more information, see “To get detailed device information” and “To find the operating system version number” in this chapter.

Programs available for purchase usually include a Setup program (commonly named "setup.exe") that you must first run on your PC. You can then use ActiveSync to add programs to your device, or add a program directly from the Internet.

To add programs

1. Download the program to your PC (or insert the CD or disk that contains the program into your PC). 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 a program designed for your device and processor type.
2. Read any installation instructions or documentation that comes with the program. Many programs provide special installation instructions.
3. Connect your device to the PC.
4. Double-click the ***.exe** file.
 - If the executable file is an installation wizard, follow the instructions on the screen. The wizard will automatically install the program to your device.
 - If an installation wizard does not start, you will see an error message stating that the program is valid but that it is designed for a different type of computer. You will need to copy this program directly to your device. If you cannot find any installation instructions for the program, use ActiveSync to copy the program file to the Program Files folder on your device.

To remove programs

You can only remove programs that you installed. Programs that come with your device cannot be removed.

1. Tap **Start > Settings > System tab > Remove Programs**.
2. In the **Programs in storage memory** list, select the program you want to remove, and tap **Remove**.
3. Tap **Yes**. If another confirmation message appears, tap **Yes** again.

12.2 Copying Files

You can copy files to your PC using ActiveSync, or copy files to a storage card you insert into your device. Your device has an expansion slot for inserting a microSD card.

Using ActiveSync, you can copy or move information from the PC to your device and vice versa. Copying a file results in separate versions of a file on your device and PC. Because the files are not synchronized, changes made to one file will not affect the other.

Note If you want to automatically update information on both your device and PC, synchronize the information instead. For more information about copying and synchronizing files, see ActiveSync Help on your PC.

To copy files to a storage card

1. Make sure the storage card is properly inserted into your device.
2. Tap **Start > Programs > File Explorer** and navigate to the appropriate folder.
3. Tap and hold the file you want to copy, and tap **Copy**.
4. Tap the folder list (labeled **My Documents** by default) and tap **Storage Card**.
5. Tap **Menu > Edit > Paste**.

To copy a file between your device and the PC


1. Connect your device to the PC.
2. In ActiveSync, click **Explore**, which opens the Mobile Device folder of your device.
3. To copy a file from your device to your PC:

- a. In the Mobile Device folder, go to the file that you want to copy.
 - b. Right-click the file, then click **Copy**.
 - c. Locate the destination folder on your PC. Right-click the folder, then click **Paste**.
4. To copy a file from your PC to your device:
 - a. On your PC, navigate to the folder that contains the file you want to copy.
 - b. Right-click the file, then click **Copy**.
 - c. Right-click the destination folder under Mobile Device, then click **Paste**.

To automatically save files on a storage card

In the Word Mobile, Excel Mobile, and Notes programs, you may find it helpful to save all new documents, notes, and workbooks directly on a storage card.

1. From the program file list, tap **Menu > Options**.
2. With a storage card inserted in your device, in the **Save to** box, select the appropriate storage card to automatically save new files on the storage card.
3. Tap **OK**.

Note In the file or note list, a storage card symbol () is displayed next to the names of files saved on a storage card.

12.3 Managing Memory

You may need to stop a program if it becomes unstable or the program memory is low.

To see how much memory is available

- Tap **Start > Settings > System tab > Memory**.
- On the **Main** tab, the amount of memory allocated to file and data storage versus program storage is displayed, as well as the amount of memory in use versus the available memory.

To see available storage card memory

You can see how much memory is available on a storage card that is inserted in your device.


1. Tap **Start > Settings > System tab > Memory**.
2. Tap the **Storage Card** tab.

To free up program memory

Try the following to free memory on your device:



- Close programs you are not currently using.
- Move e-mail attachments to a storage card.
- Move files to a storage card. Tap **Start > Programs > File Explorer**. Tap and hold the file, and tap **Cut**. Browse to the storage card folder and tap **Menu > Edit > Paste**.
- Delete unnecessary files. Tap **Start > Programs > File Explorer**. Tap and hold the file, and tap **Delete**.
- Delete large files. To find your largest files, tap **Start > Programs > Search**. In the **Type** list, tap **Larger than 64 KB**, and tap **Search**.
- In Internet Explorer Mobile, delete temporary Internet files and clear history information. For more information, see “Internet Explorer Mobile” in Chapter 6.
- Remove programs you no longer use.
- Reset your device.

To close a program

Tapping the  button in a program may just close the program screen. In this case, the program continues to run in the background. You can end running programs manually by following these steps:

1. Tap **Start > Settings > System tab > Memory > Running Programs** tab.
2. In the **Running Programs List**, tap the program you want to close, and tap **Stop**.

Tips

- In most programs, you can also use the on-screen keyboard shortcut **Ctrl+q** to shut down the program.
- You can configure the  button to directly shut down running programs. For more information, see "To configure the  button using Task Manager".

12.4 Resetting Your Pocket PC Phone

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

- Use the stylus to press the RESET button found on bottom of your device. Your device restarts and displays the Today screen.




You can also perform a hard reset (also known as a full reset). A hard reset should be performed only 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.

To perform a hard reset

1. Press and hold the left SOFT KEY and the right SOFT KEY, and at the same time, use the stylus to press the RESET button at the middle left side of your device.
2. Release the stylus, but continue pressing the two SOFT KEYS until you see the following 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.
```

3. Release the two SOFT KEYS, and then press the  button on your device.

Warning! Your device will be set back to factory default settings. Please ensure any additional installed programs and/or user data have been backed up before a hard reset is performed.

12.5 Checking System Information

If you want to find out about technical details about your device such as the type or speed of the processor, memory size, etc., you can check under Settings for device information.

To find the operating system version number

- Tap **Start** > **Settings** > **System** tab > **About**.

The version of the operating system on your device is shown near the top of the About screen.


To get detailed device information

- Tap **Start** > **Settings** > **System** tab > **About**.

The **Version** tab displays important device information, including the type of processor and the amount of memory that is installed.

12.6 Battery Saving Tips

How long your battery power lasts depends on battery type and how you use your device. Try the following to help preserve battery life:

- When the device is not in use, press **POWER** to switch off the display.
- Tap the battery icon () on the Today screen. On the **Advanced** tab of the **Power** settings screen, you can specify when your device automatically turns off the display to conserve battery power. For optimum conservation, specify 3 minutes or less.
- Use the AC adapter to plug your device into external power whenever possible, especially when using a microSD card or when using a modem or other peripherals.
- Adjust the backlight settings. For more information, see “To set the backlight to dim after a time delay” in Chapter 4.
- When you know you are out of range of your Wi-Fi networks, turn Wi-Fi off. Searching for networks consumes a lot of power. For more information, see “Using Wi-Fi” in Chapter 8.
- Turn Bluetooth off when you are not using it.

- Make the device visible to other devices only when you are trying to establish a Bluetooth partnership. For more information, see “Using Bluetooth” in Chapter 8.
- Enable your device to receive incoming beams setting only while you are trying to receive beamed files. To find this setting, tap **Start > Settings > Connections > Beam**.
- 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. For more information about ending running programs, see “To close a program” in this chapter.

Chapter 13

Using Other Applications

13.1 Word Mobile

13.2 Excel Mobile

13.3 Viewing Slide Shows with PowerPoint

Mobile

13.4 Using Adobe Reader LE

13.5 Using Java

13.6 Using ZIP

13.7 Using Voice Command or Voice Dial ??

13.1 Word Mobile

Word Mobile is a streamlined version of Microsoft Word. Word documents created on your PC can be opened and edited on your device. You can also create and edit documents and templates in Word Mobile and save them as ***.doc**, ***.rtf**, ***.txt**, and ***.dot** files.

You can have only one document open at a time. When you open a second document, the first one is saved and closed automatically.

To create a Word file

1. Tap **Start > Office Mobile > Word Mobile**.
2. In Word Mobile, tap **New**. You will see either a blank document or template, depending on what you have selected as the default template.
3. Enter text as desired.
4. Tap **Menu**, then choose whether to set the font, paragraph alignment and indentation, insert the date, do a spelling check, and more.
5. When finished, tap **OK** to save and close the file.

When you close a newly created document, it is automatically named after the first several words in the document and placed in the Word Mobile document list. You can easily rename the document with a more meaningful name and move it to another folder or a storage card.

Note Word Mobile does not fully support some features of Microsoft Word such as revision marks and password protection. Some data and formatting may be lost when you save the document on your device. To see a complete list of features that are not supported in Word Mobile, see [Help](#) on your device.

13.2 Excel Mobile

Excel Mobile makes it easy for you to open and edit Excel workbooks and templates created on your PC. You can also create new workbooks and templates on your device.

To create an Excel file

1. Tap **Start > Office Mobile > Excel Mobile**.
2. In Excel Mobile, tap **New**. You'll see either a blank worksheet or template, depending on what you've selected as the default template.
3. Tap a cell to select it. Using the on-screen keyboard, enter your data then tap the **Enter** key.
4. Tap **Menu**, then choose whether to insert cells, charts, symbols or functions, format rows and columns, and more.
5. When finished, tap **OK** to save and close the file.

- Tips**
- Work in full-screen mode to see as much of your workbook as possible.
 - Tap **View > Zoom** and select a percentage so that you can easily read the worksheet.

Note Excel Mobile does not fully support some features such as formulas and cell comments. Some data and formatting may be lost when you save the workbook on your device. To see a complete list of features that are not supported in Word Excel, see Help on your device.

13.3 Viewing Slide Shows with PowerPoint Mobile

With **PowerPoint Mobile**, you can open and view slide show presentations created on your PC. Slide shows in ***.ppt** and ***.pps** format created using PowerPoint '97 and later can be viewed in PowerPoint Mobile.

Many presentation elements built into the slide shows such as slide transitions and animations will play back on the device. If the presentation is set up as a timed slide show, one slide will advance to the next automatically. Links to URLs are also supported.

Features not supported in PowerPoint Mobile include:

- **Notes.** Notes written for slides will not be visible.
- **Rearranging or editing slides.** PowerPoint Mobile is a viewer only.
- **Some file formats.** Files created in ***.ppt** format earlier than PowerPoint '97 and HTML files in ***.htm** and ***.mht** formats are not supported.

To start a slide show presentation

1. Tap **Start > Office Mobile > PowerPoint Mobile**.
2. In the presentation list, tap the slide show you want to view.
3. Tap the current slide to advance to the next slide.
4. To navigate between slides, tap **▲| > Next** or **Previous**, or tap **Go to Slide** and tap the slide you want to view.

If the presentation is set up as a timed slide show, slides will advance automatically.

- Notes**
- If you have zoomed in to see a slide in more detail, you cannot navigate to another slide until you zoom out.
 - Tapping **Next** or **Previous** may play an animation on a slide rather than navigate to another slide.

To stop a slide show

- In a PowerPoint Mobile presentation, tap **▲| > End Show**.

13.4 Using 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 a PDF file on your device

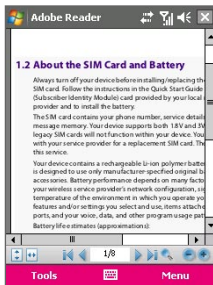
Do one of the following:

- Tap **Start > Programs > Adobe Reader LE**. Browse the folders on your device or storage card and find the desired PDF file. Tap the file to open it.
- Open File Explorer and find the desired PDF file, then double-tap the file to open it.

To navigate through a PDF document

When you are viewing a PDF document, you can do any of the following:

- Use the vertical and horizontal scroll bars (including the Up, Down, Right and Left arrow keys on the bars) to move to the desired direction of the page.
- Press NAVIGATION up/down/right/left to move to the desired direction of the page.
- Tap  to move 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** to select the desired page to view.







To adjust the display size

Tap **Tools > Zoom**, then select one of the following options:

- Select **In/Out** to enlarge/reduce the display size; or
- Select **To %** to specify a zoom ratio using a slider (from 8% to 1000%); or
- Select **Fit Screen** to display the entire page in the window, or select **Fit Width** to make the page width fit in the width of the window.

Tips Alternatively, you can also tap the following toolbar buttons at the bottom of the screen:

- Tap  to **Fit Screen**; tap  to **Fit Width**.
- Tap  to zoom in; tap  to zoom out.


To rotate the view

- Tap **Tools > View > Rotate Right** to rotate the document view clockwise in 90 degree increments.
- Tap **Tools > View > Rotate Left** to rotate the document view counterclockwise in 90 degree increments.

To change the page layout

- Tap **Tools > View > Single Page** to display one page at a time in the document pane.
- Tap **Tools > View > Continuous** to display the pages in a continuous vertical column.

To search for text in the document

1. Tap **Tools > Find > Text** or tap  on the toolbar.
2. Type in the text to be searched, then tap **Find**.
3. The matched text in the document will be highlighted.
4. To search for the next occurrence of the text, tap **Tools > Find > Next**.

To exit Adobe Reader LE

- Tap **Menu > Exit**.

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 the file can be opened.

13.5 Using 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 from a URL address

1. On the Java screen, tap **Menu > Install > URL**.
2. Tap **Menu > Add**.
3. Enter a descriptive name for the web page.
4. Enter the URL address from where to download. The web page must contain links to .jad or .jar files.
5. Tap **OK**. The name of the web page you specified will then be listed on the screen.
6. Tap the name of the web page, or tap **Go**.
7. The program will then retrieve the links and display the file names of MIDlets/MIDlet suites. Select a file name then tap **Install**.

To download and install via Internet Explorer Mobile

1. On the Java screen, 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 PC to your device using the USB sync cable, infrared, or Bluetooth connection. Copy them to the root folder or any subfolder on your device.

1. On the Java screen, 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**.

To stop running a MIDlet/MIDlet suite

Tap **Exit** or **Quit** if presented on the MIDlet/MIDlet suite's screen or menu.

Manage MIDlets/MIDlet suites

You can organize MIDlets/MIDlet suites into folders for easy identification, move them from one folder to another, rename or update them, and more. If the device memory is full, uninstall some MIDlets/MIDlet suites to free up memory space.

To create folders

1. Tap **Menu > New Folder**.
2. Enter a folder name then tap **Create**.

To move a MIDlet to another folder

1. Tap and hold a MIDlet/MIDlet suite then tap **Move**. Alternatively, you can tap **Menu > Actions > Move**.
2. Tap the destination folder.

To rename a MIDlet or folder

1. Tap and hold a MIDlet/MIDlet suite then tap **Rename**. Alternatively, you can tap **Menu > Actions > Rename**.
2. Enter a new name, then tap **Save**.

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 view information about a MIDlet/MIDlet suite

- Tap **Menu > Actions > Info**.
- If the MIDlet/MIDlet suite is protected by DRM (Digital Rights Management), tap **Menu > Actions > Protection** to view status and usage rights.

To uninstall MIDlets

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

1. Tap and hold the MIDlet, and tap **Uninstall**.
2. Tap **OK** to confirm.

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

To set MIDlet permission settings

For each MIDlet already installed, Java allows you to individually set permission options to perform certain actions. A MIDlet can be enabled to perform these actions:

Action	Description
Local connection	Enables a MIDlet to access device connections such as via Bluetooth.
Location information access	Determines whether a MIDlet can access location related information.
Recording	Enables a MIDlet to record audio and images.
Messaging	Enables a MIDlet to send and/or receive SMS/MMS. This uses airtime and may incur costs.
Net access	Enables a MIDlet to access the Internet. This uses airtime and may incur costs.
Auto start	Enables a MIDlet to be started automatically to handle an incoming event. If there is another MIDlet running, it may be interrupted.
Read user data	Allows a MIDlet to read data on the device memory or storage card.

Note Some actions may not be available for certain MIDlets.

You can set permission options for performing each action by following these steps:

1. Tap and hold a MIDlet then tap **Security**. Alternatively, you can tap **Menu > Actions > Security**.
2. For each action, choose one of the following permission options:
 - **Always**. Enables a MIDlet to perform the action.
 - **Never**. Prohibits a MIDlet to perform the action.
 - **Prompt**. Asks for your confirmation whenever a MIDlet attempts to perform the action.
3. Tap **Save**.

Note Changes to permission settings for a MIDlet in a multi-MIDlet suite will affect the settings for the whole suite.

13.6 Using ZIP

This feature allows you to save memory and increase the storage capacity of your device by compressing files in the conventional ZIP format. You can view and extract archive files received from various sources. You can also create new ***.zip** files on your device.

Start ZIP and Open .zip files

You can use **ZIP** to either archive files or open an existing archive file on your device. Each time you start ZIP on your device, it searches for files that have the .zip file extension, and displays these files on the Archive List screen.

To start ZIP on your device

- Tap **Start > Programs > ZIP**.

To open a ZIP file and extract files

1. Open a file using any of the following:
 - Select a file and tap **File > Open Archive**.
 - Tap and hold a file and tap **Open Archive**.
 - Double-tap a file.

Note You cannot select multiple ZIP files.

2. The files contained in the zip file are then displayed. Select files by doing one of the following:
 - Tap to select a file.
 - To select several files, tap **Action** and make sure **Multi-Select Mode** is selected. Select files by tapping each file. (Tap a selected file to deselect it).
 - To select all files, tap **Action > Select All**.
3. Tap **Action > Extract**.
4. Choose a folder in which files will be extracted to, then tap **Extract**.

To create a zip archive

1. Tap **File > New Archive**.
2. On the Save As screen, enter a zip file name and choose a folder in which to save the zip file. You can also choose whether the zip file will be saved on the device's main memory or a storage card.
3. Tap **Save**.
4. Tap **Action > Add**.
5. Double-tap the folder that contains the files you want to archive.
6. Select files by doing one of the following:
 - Tap to select a file.
 - To select several files, tap and hold on the screen, then select **Multi-Select Mode**. Select files by tapping each file. (Tap a selected file to deselect it).
 - To select all files, tap and hold on the screen, then tap **Select All**.
7. Tap **Add**.
8. Tap **File > Close Archive**.
9. After closing the zip file, you can tap **File > Find Archive** to search for all zip files and display them on the Archive List screen.

13.7 Using Voice Command or Voice Dial ??

Appendix

A.1 Regulatory Notices

A.2 PC Requirement to Run ActiveSync 4.5

A.3 Specifications

A.1 Regulatory Notices

Regulatory Agency Identifications

For regulatory identification purposes, your product is assigned a model number of KAIS110.

To ensure continued reliable and safe operation of your device, use only the accessories listed below with your KAIS110.

The Battery Pack has been assigned a model number of KAIS160.

Note This product is intended for use with a certified Class 2 or Class 3 Limited Power Source, rated 5 Volts DC, maximum 2 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 High Tech Computer 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.

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.

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

SAR Information

0.614 W/kg @ 1g (FCC)

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.

A.2 PC Requirement to Run ActiveSync 4.5

To connect your device to the PC, you must have Microsoft® ActiveSync® program installed on your PC. ActiveSync 4.5 is included in the **Getting Started Disc**, which is compatible with the following operating systems and applications:

- Microsoft® Windows® 2000 Service Pack 4
- Microsoft® Windows Server® 2003 Service Pack 1
- Microsoft® Windows Server® 2003 IA64 Edition Service Pack 1
- Microsoft® Windows Server® 2003 x64 Edition Service Pack 1
- Microsoft® Windows® XP Professional Service Packs 1 and 2
- Microsoft® Windows® XP Home Service Packs 1 and 2
- Microsoft® Windows® XP Tablet PC Edition 2005
- Microsoft® Windows® XP Media Center Edition 2005
- Microsoft® Windows® XP Professional x64 Edition
- Microsoft® Outlook® 98, Microsoft® Outlook® 2000 and Microsoft® Outlook® XP, and Microsoft® Outlook® 2003 messaging and collaboration clients
- Microsoft® Office 97, excluding Outlook
- Microsoft® Office 2000
- Microsoft® Office XP
- Microsoft® Office 2003
- Microsoft® Internet Explorer® 4.01 or later (required)
- Microsoft® Systems Management Server 2.0

A.3 Specifications

System Information	
Processor	Qualcomm MSM 7200
Memory	- ROM : 256 MB - RAM : 64/128 MB SDRAM (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 written).
Operating System	Microsoft Windows PocketPC Phone Edition
Power	
Battery	Rechargeable Lithium-ion/Lithium-polymer battery, 1350 mAh
Charging Time	2.5 - 3 hours
Battery Life (estimates)	Standby time: Up to 220 - 325 hours for GSM; Up to 205 - 350 hours for UMTS; Up to 24 hours for VoIP standby (Wi-Fi is on and associated with an access point). Talk time: Up to 4 - 6.9 hours for GSM; Up to 2 - 4.8 hours for UMTS; Up to 1.5 - 2.5 hours for video call (video telephony); Up to 4 hours for VoIP call (PTT talk time). Media playback time: Up to 8 hours (WMV); Up to 12 hours (WMA)
AC Adapter	Voltage range/frequency: 100 - 240V AC, 50/60 Hz DC output: 5V and 1A
Display	
LCD Type	2.8" transfective TFT-LCD with backlight LEDs, touch-sensitive screen
Resolution	240 x 320 with 65,536 colors
Alignment	Portrait and Landscape

WCDMA / GSM / GPRS / EDGE Module

Functionality	HSDPA/UMTS: 2100MHz for Europe, 850/1900/2100MHz for USA, 800/1700/2100MHz for Japan. Up to 1.8Mbps for download; up to 384Kbps for upload. GSM/GPRS/EDGE: Quad-band (850, 900, 1800, and 1900)
----------------------	---

Internal Antenna	Yes
-------------------------	-----

Physical

Dimensions	112 mm (L) x 59 mm (W) x 18.45 mm (T)
-------------------	---------------------------------------

Weight	170 g (with battery)
---------------	----------------------

Controls and Lights

Buttons	<ul style="list-style-type: none"> • 5-way NAVIGATION Control • Trackwheel • Two phone functions : TALK and END • Two program buttons : PTT (Push-to-Talk) and Comm Manager • START button • OK button • Two SOFT KEYS • POWER button • RESET button
----------------	---

Hardware Keyboard	QWERTY keyboard with two additional SOFT KEYS.
--------------------------	--

LEDs	<p>The left (bi-color) LED shows Green and Amber lights for UMTS/GSM standby, message, network status, notification, and battery charging status.</p> <p>The right LED shows a blinking Blue light for Bluetooth system notification of powered-up and ready to transmit Bluetooth signal, or a blinking Green light for Wi-Fi status (when both Bluetooth and Wi-Fi are enabled, the Blue and Green lights blink alternately). The Amber light indicates GPS notification.</p>
-------------	---

Connections	
I/O Port	HTC ExtUSB™: an 11-pin mini-USB and audio jack in one (ExtUSB is a proprietary connection interface that is trademarked by HTC).
Car Antenna Connector	Yes
GPS Antenna Connector	Yes
Wireless Connections	Bluetooth 2.0, Wi-Fi (IEEE 802.11 b/g)
Audio	
Audio Controller	AGC
Microphone/ Speaker	Built-in/Dual, Hands-free
Headphone	AMR/AAC/WAV/WMA/MP3 codec
Expansion Slots	
Card Slot	microSD™ (SD 2.0 compatible)

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