

# User Manual

Congratulations on the purchase of your new Windows Mobile™ **Smartphone!**

**Please Read Before Proceeding.**

**THIS DEVICE 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 phone.

#### **COPYRIGHT INFORMATION**

Microsoft, MS-DOS, Windows, Windows NT, Windows Server, Windows Mobile, ActiveSync, Excel, Internet Explorer, MSN, Outlook, PowerPoint, and Word are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

## **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** – Improper connection of associated equipment-grounding can result in a risk of electric shock.

This product equipped with an ActiveSync Cable for connecting with desk-top or notebook computer. Be sure your computer is properly grounded (earthed) before connecting this product to the computer. The desk-top or notebook computer is equipped with a power supply cord having 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.

This product should be operated only with the following designated power supply unit(s).

1. Delta, Model ADP-5FH X
2. Tamura, Model JHA050100Uabb
3. Phihong, Models PSAA05X-050 and PSC05R-050

- **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.

**SAFETY PRECAUTIONS FOR ACOUSTIC PRESSURE**

**CAUTION**—Permanent hearing loss may occur if earphones or headphones are used and prolonged listening at high volume.

**NOTE:**

For France, mobile headphones or earphones for this device (Manufactured by Supplier Name: Merry, Model Numbers: EMC220-001) has been tested to comply with the Sound Pressure Level requirement laid down in NF EN 50332-1:2000 standard as required by French Article L. 5232-1.



**NOTE:** This product should be operated only with the following designated Battery Pack(s).

1. HTC, Model BREE160
2. Dynapack, Model BREE160
3. Celxpert, Model BREE160

## **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 your 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, chemical plants, 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.

## **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.

## **NONIONIZING RADIATION**

This product should be operated in the suggested normal condition only 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.

## **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 amplifiers) that produce heat.

- **Avoid wet areas**

Never use the product in a wet location.

- **Avoid pushing objects into product**

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

- **Mounting Accessories**

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

- **Avoid unstable mounting**

Do not place the product with an unstable base.

- **Use product with approved equipment**

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

- **Adjust the volume**

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

- **Cleaning**

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

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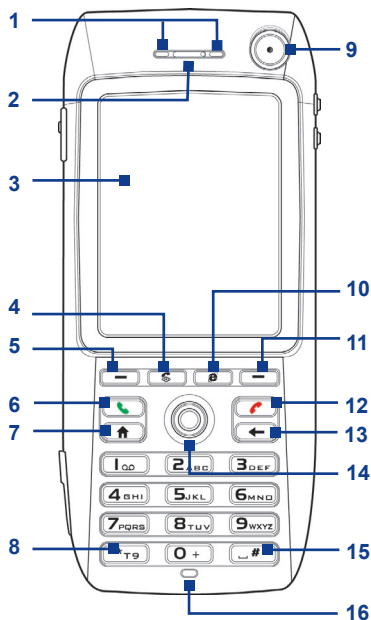
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# Chapter 1

## Getting Started

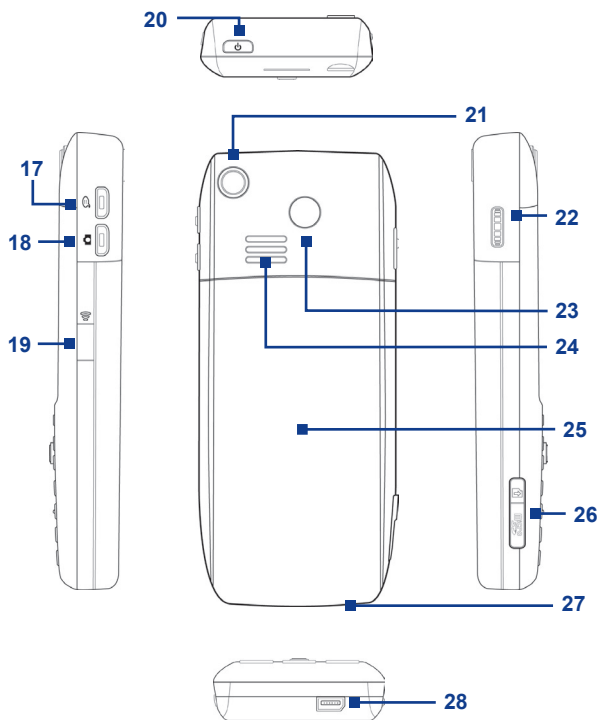
- 1.1 Getting to Know your Phone  
and its Accessories**
- 1.2 Inserting the SIM or USIM Card**
- 1.3 Installing a Micro SD Card**
- 1.4 The Home Screen**
- 1.5 Status Indicators and Program Icons**
- 1.6 Using the Start Menu**
- 1.7 Using the Quick List**
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## 1.1 Getting to Know your Phone and its Accessories



Item	Function
<b>1. LED Indicators</b>	The right bi-color LED Indicator (amber/red/green) notifies you of the battery and network status of your phone respectively, while the left color indicator (blue) notifies you of Bluetooth connectivity status. For more information about LED Indicators, see the table at the end of this section.
<b>2. Speaker</b>	Listen to audio media or a phone call.
<b>3. Display Screen</b>	
<b>4. VIDEO CALL</b>	After entering the phone number, press this button to make a video call. You must be in a 3G network coverage area to make a video call.
<b>5. Left SOFT KEY</b>	Press to perform the command shown in the label above the button.
<b>6. TALK</b>	Press to dial a phone number, answer a call, switch to another call, or put a call on hold. Hold to activate/deactivate loudspeaker mode.
<b>7. HOME</b>	Press to go to the Home Screen or press and hold to open the Comm Manger.
<b>8.  Key</b>	Press and switch to different input modes or press and hold to choose an input mode or symbols from the list.
<b>9. 2nd Camera Lens</b>	
<b>10. Internet Explorer</b>	Press to launch Internet Explorer.
<b>11. Right SOFT KEY</b>	Press to perform the command shown in the label above the button.
<b>12. END</b>	Press to end a call, or press and hold to lock the phone.
<b>13. BACK</b>	Press to go to the previous screen, or backspace over characters.
<b>14. Navigation Control/ENTER</b>	Use to scroll left, right, up, or down. Or press straight down to use as the ENTER button.
<b>15.  Key</b>	Press to add a space or press and hold to display a list of symbols.
<b>16. Light Sensor</b>	Dark conditions sensed here will activate a backlight under the keypad, making it easier to see the buttons.


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Item	Function
<b>17. VOICE RECORDER/ VOICE RECONITION</b>	Press to load the voice recognition program; Press and hold to open Voice Notes.
<b>18. CAMERA</b>	Press to launch the camera.
<b>19. Infrared Port</b>	Lets you exchange files or data with other devices wirelessly.
<b>20. POWER</b>	Press to turn on (more than 1 second) and off the phone. Or press and quickly release the POWER button to display the Quick List, which allows you to change profiles, open Comm Manager, and enable/disable lock and enable/disable device lock.
<b>21. Main Camera Lens</b>	
<b>22. JOG WHEEL</b>	Scroll up or down to adjust the volume when using the phone or go through the items on-screen. Press to select the item on-screen.
<b>23. Car Antenna Connector</b>	Allows you to attach your phone to the car antenna for better network signal reception. Simply peel off the rubber cap and connect the antenna jack. Replace the rubber cap if unused.
<b>24. Speakers</b>	Listen to audio media or a phone call.
<b>25. Back Cover</b>	Remove to insert battery and SIM/USIM card.
<b>26. Micro SD slot</b>	Pry open the rubber cover to insert a Micro SD card.
<b>27. Microphone</b>	Speak into the microphone when receiving or making a phone call or voice recording.
<b>28. Sync Connector/ Earphone Jack</b>	Use for synchronizing data or recharging the battery. Connect the earphone to listen to audio media or use the phone's hands-free kit.

## LED indicator lights

Various colors that might display in the two LED Indicators are summarized here.

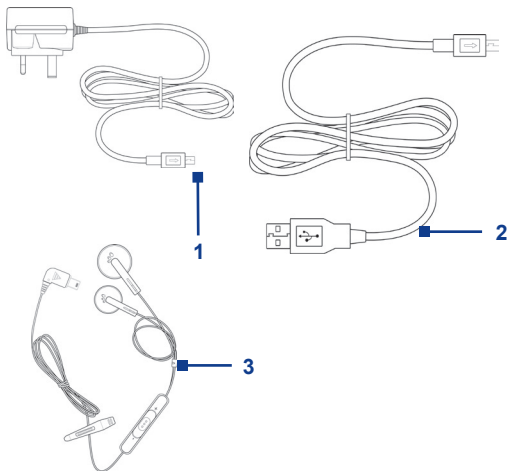
Right LED	Status
<b>Solid green</b>	Battery is fully charged.
<b>Blank</b>	Battery case is empty, no SIM/USIM card inserted or phone is off.
<b>Solid amber</b>	Battery is charging or the phone is using ActiveSync to synchronize with a PC.
<b>Solid red</b>	Battery is not installed or battery is over-discharged.
<b>Flashing green</b>	Connected to the network.
<b>Flashing red</b>	Battery very low (less than 10%)
<b>Flashing amber</b>	Battery temperature is hotter or colder than the functional limits of 0 to 48 degrees Celsius, and has stopped charging.
<b>Amber/Green LED off</b>	Battery fault. The “Battery Fault” indicator (  ) is displayed. In this case, the flashing green LED can be recovered by unplugging the AC adapter.
<b>Dim</b>	Disconnected from the network.
Left LED	Status
<b>Flashing blue</b>	Bluetooth mode set to “On” or “Discoverable” mode.

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## Accessories

The following accessories are provided with the phone:



Accessory	Function
1. <b>AC adapter</b>	Recharge the phone battery.
2. <b>USB cable</b>	Connect your phone to a PC and synchronize data.
3. <b>Stereo headset</b>	Provide a volume control slider and a Send/End button. You can press the button to pick up a call or put a call on hold or press and hold the button to end the call. Plug into Earphone Jack to listen to audio files.

## 1.2 Inserting the SIM or USIM Card

Your SIM (Subscriber Identity Module) or USIM (Universal Subscriber Identity Module) card is given to you by your wireless service provider and contains your basic subscriber information, such as your phone number and your address book.

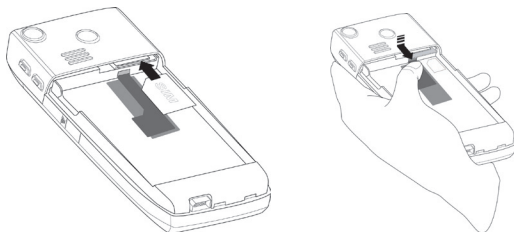
Before you begin, ensure that the phone is turned off.

### Open the cover and remove the battery

1. Hold the phone in one hand with the keypad facing down in the palm of your hand. With your other hand, press down on the back cover and slide it open.
2. Remove the battery by lifting it up from the top end.

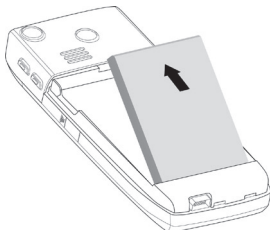
### Insert the SIM/USIM card

- Insert the SIM/USIM card into the slot at the top-right corner with its gold-plated contacts facing down.
- To remove the SIM/USIM card, press down on the black strip with your thumb then slide it down.



## Replace the battery

1. Align the exposed metal contacts on the edge of the battery with the prongs in the body of the phone then gently push the top of the battery into place.
2. Slide the cover on the phone.

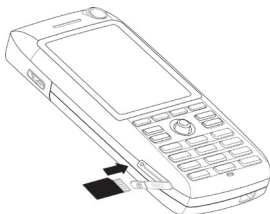


## 1.3 Installing a Micro SD Card

You can install a Micro SD (Secure Digital) card in your phone to have an alternative storage place for your images, video, music, and other phone data.

### To install the Micro SD card

1. Pry open the rubber cover at the bottom-left side of the phone.
2. Insert the Micro SD card into the slot with its gold contacts facing up.
3. Close the rubber cover.



## 1.4 The Home Screen

The Home screen displays important information, such as upcoming appointments, status indicators, the current date, time, and profile, and icons of programs that you have recently used. You can open a program directly by selecting its icon and pressing ENTER.

- To access the Home screen from anywhere, press HOME.
- To customize the Home screen display, including the background, click **Start > Settings > Home Screen**.








































Home Screen

1. Select a recently-used program, and open it directly from the Home screen.
2. Displays the name of your wireless service provider, date, and the time. Press in to activate the Communications manager
3. Click to view the details of a missed call.
4. Click to see the time of your next appointment.
5. Displays the current profile. Click to change the profile.
6. Click to open the Messages folder.
7. Click to display all program icons.
8. Displays notifications, such as missed calls or new messages.
9. Displays the GPRS or network status.
10. Displays the power status.
11. Displays the network signal strength.
12. Click to open Contacts, Call History, or Messages.














## 1.5 Status Indicators and Program Icons
















The following table lists common status indicators and their meanings.



Icon	Description	Icon	Description
	New e-mail or text message (SMS, Short Message Service)		Sync error
	Roaming		UMTS network available
	New MSN Messenger message		UMTS in use
	Dialing while no SIM/USIM card is inserted		GPRS available
	Voice call in progress		GPRS in use
	Data call in progress		Multipress text input mode, lowercase
	Calls forwarded		Multipress text input mode, uppercase
	Call on hold		Multipress text input mode, caps lock
	Missed call		T9 text input mode, lowercase
	Battery level		T9 text input mode, uppercase
	Low battery		T9 text input mode, caps lock
	Very low battery		Numeric input mode
	Battery charging		Ringer off
	No battery or battery fault		Speakerphone on
	Signal strength		Phone volume
	Radio connected or no signal		Vibrate call alert
	Radio off		Bluetooth
	No SIM/USIM card installed		Microphone muted
	SIM/USIM card with fault		

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The following table lists icons of the programs that are already installed on your phone.

Icon	Program	Description
	<b>ActiveSync</b>	Synchronizes information between your phone and a PC.
	<b>Calculator</b>	Performs basic arithmetic and calculations, such as addition, subtraction, multiplication, and division.
	<b>Calendar</b>	Keeps track of your appointments, and creates meeting requests.
	<b>Call History</b>	Keeps track of all phone calls made, received, and missed.
	<b>Camera</b>	Captures photos in various modes.
	<b>Clear Storage</b>	Clears the memory, restores the phone back to factory default settings, then restarts the phone.
	<b>ClearVue Document</b>	Lets you view Word documents on your phone.
	<b>ClearVue PDF</b>	Lets you view PDF files on your phone.
	<b>ClearVue PPT</b>	Lets you view PowerPoint files on your phone.
	<b>ClearVue Worksheet</b>	Lets you view Excel worksheets on your phone.
	<b>Comm Manager</b>	Lets you easily enable or disable your phone, start or stop synchronization with your computer, mute your phone, enable or disable Bluetooth, stop data services and enable or disable Direct Push.
	<b>Contacts</b>	Keeps track of contact information.
	<b>Download Agent</b>	Provides information about the download status and the downloaded content from the Internet.

Icon	Program	Description
	<b>File Explorer</b>	Lets you organize and manage files on your phone.
	<b>Games</b>	Lets you play two games: Bubble Breaker and Solitaire come with your phone.
	<b>Internet Explorer</b>	Allows you to browse Web and WAP sites, and to download new programs and files from the Internet.
	<b>Messaging</b>	Lets you send and receive e-mails, MMS and text messages.
	<b>MIDlet Manager</b>	Lets you download and install Java-based applications, such as games and tools, on your phone.
	<b>Pictures &amp; Videos</b>	Collects, organizes, and sorts media files in the My Pictures folder on your phone or on a storage card.
	<b>Pocket MSN</b>	Lets you send and receive instant messages with your MSN Messenger contacts.
	<b>Settings</b>	Personalize your phone to suit the way you use it.
	<b>SIM Manager</b>	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 phone.
	<b>STK (SIM Tool Kit) Service</b>	Allows you to access information and other services offered by your wireless service provider
	<b>Speed Dial</b>	Lets you create speed dial entries for dialing frequently-called phone numbers or for opening frequently-accessed programs.
	<b>Task Manager</b>	Keeps track of your on-going programs.
	<b>Tasks</b>	Keeps track of your tasks.
	<b>Video Recorder</b>	Captures video clips in various modes and duration.
	<b>Voice Notes</b>	Allows you to make short voice recordings.

Icon	Program	Description
	<b>Windows Media Player</b>	Lets you play back video and audio files.
	<b>Wireless Modem</b>	Lets your phone act as an external modem for your computer by using USB port, Bluetooth or infrared.

## 1.6 Using the Start Menu

The Start menu is located at the bottom-left corner of the Home screen and displays various program icons that are spread across one or more screens.

### To see the available programs in the Start menu

- On the Home screen, click **Start**.
- To see more programs, click **Start > More**.



Start Menu

Your phone comes with several bundled programs that you can start using immediately. You can also install additional programs from the included Windows Mobile™ Getting Started Disc or from the Internet, or purchase mobile phone software from retail stores and install them to your phone.



## 1.7 Using the Quick List

The Quick List offers convenient access to a list of functions, such as locking your phone, and keypad, opening Comm Manager, and choosing a different profile. For more information about profiles, see Chapter 4.

### To access the Quick List

1. Briefly press (press and quickly release) the POWER button. Please note that pressing and holding the POWER button turns off the phone.
2. Scroll through the list and select the desired option. Then, do any of the following:
  - Click **Select**.
  - Press the ENTER button.
  - Press the related numeric key on the keypad.
  - Press the JOG WHEEL.
3. To exit the Quick List at any time, click **Cancel**.

## 1.8 Entering Information

You can enter text and numbers by using the keypad. The phone supports three input modes for entering text and numbers: Multipress, T9, and Numeric. Multipress and T9 modes are used for entering text, and Numeric mode is used for entering numbers.

When you select a field that requires entering text or numbers, the phone automatically selects the appropriate input mode. The status indicator on the top-right side of the display screen shows the input mode that you are currently using.

**abc** Multipress text input mode, lowercase

**Abc** Multipress text input mode, uppercase

**ABC** Multipress text input mode, caps lock

**t9** T9 text input mode, lowercase

**T9** T9 text input mode, uppercase

**T9** T9 text input mode, caps lock

**123** Numeric input mode

### To change the input mode

1. Press and hold the \* key.
2. On the menu, click the input mode you want.

### Using Multipress mode

In Multipress mode, you enter a character by pressing the numeric key on which the character appears.

#### To enter text in Multipress mode

- To enter the first character on the numeric key, press once. To enter the second character on the numeric key, press twice, and so on.
- To enter character that are on the same numeric key, pause after you enter the first character.
- To enter punctuation, press **1** repeatedly until you see the punctuation you want.

#### To change the Multipress time out

You can change the length of time to pause between keypresses on the same numeric key.

1. On the Home screen, click **Start**.
2. Click **Settings > More > Accessibility**.
3. In **Multipress time out**, select the length of the pause between keypresses.

## Using T9 mode

To form a word in T9 mode, press the numeric keys that contain the letters you want. As you enter letters, T9 analyzes your keypresses and attempts to complete the word. For example, to enter the word “shoe,” press 7, 4, 6, 3.

### To enter text in T9 mode

1. Press and hold the \* key.
2. On the menu, click **T9**.
3. Do any of the following:
  - Enter letters by pressing the keys on which the letters appear. Press a key only once for each letter. If there is more than one choice in the T9 dictionary for your entry, a list of available words is displayed.
  - Press the # key to enter a space after the word as entered, or click one of the available words and the space is added automatically.
  - If you do not see the desired word, click **Add Word?** from the list, and then enter the word using Multipress.
  - To enter punctuation, press **1**, and select from a list of common punctuation.

## Using Numeric mode

If a text box permits a numeric entry only, such as a phone number, the input mode automatically defaults to Numeric mode. However, if you need to enter numbers within a line of text, change to Numeric mode, and then change back to Multipress or T9 mode to finish entering the text.

### To enter numbers in text boxes

1. Press and hold the \* key to change to Numeric mode (**123**).
2. On the keypad, enter the number or numbers you want.
3. Change back to Multipress or T9 input mode by pressing and holding the \* key, and then finish entering your text.

## More text entry tasks

In both Multipress and T9 modes, the first letter of a sentence is by default capitalized.

### To change between uppercase, lowercase, and caps lock

- Press the \* key to change between uppercase, lowercase, and caps lock within a text input mode.

### To delete characters

- To backspace and delete a single character in any input mode, press BACK.
- To backspace and delete an entire text or numeric field in any input mode, press and hold BACK.

### To enter a space

- In Multipress or T9 mode, press the # key.

### To enter a symbol

1. Press and hold the \* key.
2. On the menu, click **Symbols** to display the Symbol page.
3. Select the symbol you want and press ENTER.

### To start a new line

In a multi-line text box such as the notes area of a contact or a calendar appointment, do the following:

- In any input mode, press ENTER.

### To enter the plus sign for international calls

- In a numeric entry box, press and hold 0.

## 1.9 Battery Information

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 phone, the features and/or settings you select and use, items attached to your phone's connecting ports, and your voice, data, and other program usage patterns.

Battery life estimates (approximations):

- Talk time: 5 hours (GSM) ; 1.6 - 4 hours (UMTS)
- Standby time: 145 - 220 hours (GSM) ; 145 - 215 hours (UMTS)
- Playing WMV: 8 hours
- Playing WMA: 12 hours

**WARNING!** To reduce risk of fire or burns:

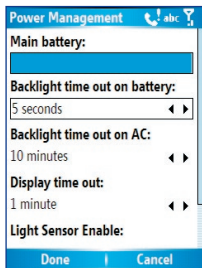
- Do not attempt to open, disassemble, or service the battery pack.
- Do not crush, puncture, short external contacts, or dispose of in fire or water.
- Do not expose to temperatures above 60°C (140°F).
- Replace only with the battery pack designated for this product.
- Recycle or dispose of used battery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

### To check the battery power

- On the Home screen, click **Start > Settings > Power Management**.

### To optimize the power performance

- On the Home screen, click **Start > Settings > Power Management**, and adjust the backlight, display, and light sensor settings.



Power Management

### To manage a low battery

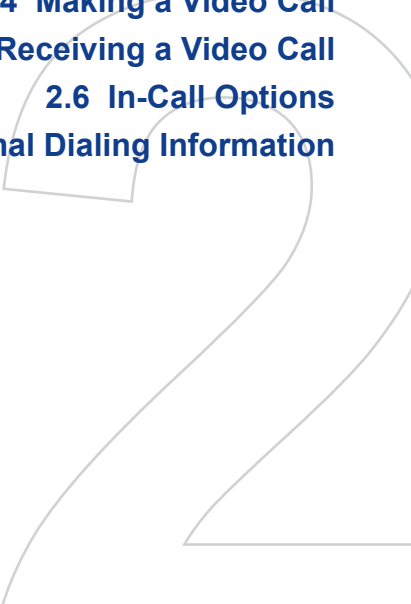
When the low-battery warning appears, do the following:

1. Immediately save your current data.
2. Synchronize with your PC to charge the battery.
3. Turn off your phone.

For information about charging the battery, see the **Quick Start Guide**.

# Chapter 2

## Using Phone Features


- 2.1 Using the Phone
  - 2.2 Making a Voice Call
  - 2.3 Receiving a Voice Call
  - 2.4 Making a Video Call
  - 2.5 Receiving a Video Call
  - 2.6 In-Call Options
  - 2.7 Additional Dialing Information
- 

## 2.1 Using the Phone

You can use your phone to make, receive, and keep track of voice and video calls, and send text messages (SMS, Short Message Service) and MMS (Multimedia Messaging Service) messages. You can also dial a phone number directly from Contacts, and easily copy SIM contacts to Contacts on the phone.

### The Phone screen

From the Phone screen, you can open, call, or find a contact, and even save a new number in Contacts. To access the Phone screen, do any of the following:

- Press TALK (  ).
- Directly enter the phone number by pressing numeric keys on the keypad.

### Enter your PIN

Most Subscriber Identity Module (SIM) cards are preset with a personal identification number (PIN) that is provided by your wireless service provider. You need to enter the PIN whenever you use your phone.

1. On the Home screen, click **Start > Settings > Security > Enable SIM PIN**.
2. Enter the preset PIN provided by your wireless service provider.
3. Click **Done**.

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

### Set ring tones

You can choose how to be notified for incoming calls, reminders, new messages, alarms, and more.

#### To set a ring tone for incoming calls

1. On the Home screen, click **Start > Settings > Sounds**.
2. In the Ring tone list, select a ring tone.
3. Click **Done**.



If you select Vibrate, the sound is muted and the phone will vibrate when you receive a call. The Vibrate icon (📞) appears in the title bar. Selecting None in the Ring tone list mutes the phone. For more information about sounds, see “Choose how to be notified about events or actions” in Chapter 4.

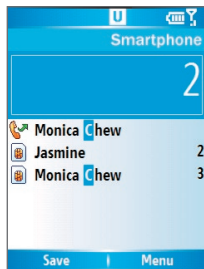
**Note** To adjust the earpiece volume during a call, scroll up or down the JOG WHEEL on the phone side panel. Adjusting the volume at any other time can affect the ring, notification, and MP3 sound levels.

## 2.2 Making a Voice Call


With your phone, you can make calls from the Home screen, the Phone screen, from Contacts, Speed Dial, Call History, or SIM Contacts (contacts stored on your SIM card).

### Make a call from the Home screen


- Enter the phone number by pressing keys on the keypad, and press TALK (📞).
- Press the BACK button if you need to backspace.



Phone Screen

**Tip** You will notice that when you press a numeric key on the keypad, a list of names and numbers is displayed as your phone searches Contacts, Call History, Speed Dial, and your SIM card to find a matching name or number. For example, when you press a number such as 5, names that begin with J, K, and L will be displayed as well as phone numbers that start with 5. The next number you press continues to narrow the search. When you see the name of the person you want to call, select it, and press TALK (  ).

## Make a call from Contacts


1. On the Home screen, click **Start > Contacts**.
2. Select the desired contact, and press TALK (  ).

You can also select the desired contact in the contact list, and press the ENTER button twice (once to view the contact details, and once to dial the associated number).

### To specify the number to dial


By default, the mobile telephone number (m) of a contact is dialed when you make a call from Contacts; however, you can choose to dial a different phone number.

1. On the Home screen, click **Start > Contacts**.
2. Select the contact.
3. Press NAVIGATION left or right. The letter representing the number changes to m (mobile), w (work), or h (home).

You can also select a contact in the contact list, and press ENTER to view details and different numbers associated with the contact. Select a number and press TALK (  ) or press ENTER to dial the number.

- You may also access the contact list by clicking **Contacts** on the Home Screen.
- To view or edit information associated with the selected contact, click **Menu > Edit**.
- To save a contact on your SIM card, click **Menu > Save to SIM**.

## Make a call from Call History

1. On the Home screen, click **Start > Call History**.
2. Select a name or number, and press TALK (  ).

In the Call History screen, press ENTER to view details, such as the dialed, missed, or received call, call duration, date, and time. Pressing ENTER again dials the associated number.

### To customize calls

You can select various options on the Call History screen to customize and filter the calls made, received, or missed.

- To find a name or number in Contacts, click **Menu > Find Contact**.
- To send a text message, click **Menu > Send Text Message**.
- To send an e-mail, click **Menu > E-mail**.
- To find the duration of a call, click **Menu > View Timers**.
- To remove a call or number from Call History, click **Menu > Delete**.
- To remove the list of calls or numbers from **Call History**, click **Menu > Delete List**.
- To save a name or number in Contacts, click **Menu > Save to Contacts**.
- To categorize the call or number into various call types, click **Menu > Filter**.

**Note** You can also save a number in Contacts by clicking **Save** on the Call History screen.

### Make a call from Speed Dial

You can make calls using Speed Dial. To learn how to use Speed Dial, see “Using Speed Dial” in Chapter 8.



### Make a call from SIM Manager

1. Click **Start > SIM Manager**. Wait for the contents of your SIM card to load.
2. Choose the contact you want to call and click **Menu > Dial**.

## 2.3 Receiving a Voice Call

When you receive a phone call, you have the option to answer it or ignore it.

### To answer or ignore an incoming call

- To answer the call, click **Answer**, or press TALK (  ).
- To ignore the call, click **Ignore**, or press END (  ).



### To end a call

- Press END (  ).

## 2.4 Making a Video Call

This phone allows you to make video calls when you are within a 3G network coverage area. You need to use a USIM card to make video calls.

### To make a video call

- Enter the phone number then press VIDEO CALL (  ).
- Enter the phone number then click **Menu > Video Call**.
- In Contacts, select the contact then press VIDEO CALL (  ) or click **Menu > Video Call**.

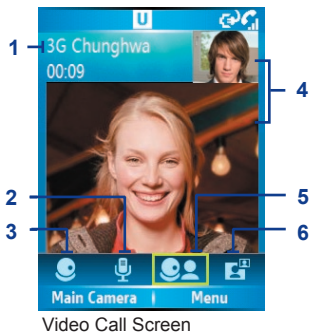
**Note** The caller's image will appear on the screen after about 3 to 5 seconds after connection, depending on the signal strength. The streaming video quality may also be influenced by the signal strength.

When the video call is unsuccessful, a message pops up asking you if you want to try again, make a voice call instead or send an SMS/MMS message.

### Change Video Call settings

While on a video call, you can change certain settings such as the size of the image, brightness of the image, the camera to use, and more.

The figure below shows the Video Call screen and control buttons during an ongoing call.



Video Call Screen

1. **Status area.** Displays the operator name and call timer.
2. **Audio Mute/Unmute.** Click to toggle between muting/unmuting the audio.
3. **Camera On/Off.** Click to toggle between turning on/off the camera. When the camera is turned off, the image displayed depends on the Video Call options you have set. Please see "Set up Video Call Options."
4. **Image display area.** Displays your image and the other party's image depending on the selected Swap Image setting.
5. **Main/Second camera.** Click to toggle between using the Main (back) or Second (front) camera.
6. **Swap Image.** Click continuously to cycle through the available image display options.

Press NAVIGATION left or right to choose the setting you want to change.

**Tip** You can also press ENTER when a button is selected to go through the available settings.

## Swap Image options



**Both parties (My video small).** The caller's image is large while your image is small. This is the default setting.



**Both parties (My video large).** The caller's image is small while your image is large.



**Both parties (Equal).** Both the caller and your image are the same size.



**Other party only.** Only the caller's image is displayed.

## To adjust the brightness level of your image

Press NAVIGATION up or down to adjust the brightness level of the image. A brightness level scale will appear on the upper-right corner of the screen.



**Note** The position of the brightness scale level on the upper right corner will depend on the Swap Image option selected.


## Set up Video Call Options

1. Click **Start > Settings > Video Call > General**.
2. In **Show still image**, select the image you want to display when you turn off the camera.
  - **Preset (female).** Displays a female picture provided by your service provider.
  - **Preset (male).** Displays a male picture provided by your service provider.
  - **Custom image.** Lets you use an image from file as your display picture. To choose a custom image, scroll down (you will see **Select a picture**) then press NAVIGATION right.
  - **Last video frame.** Uses the last video frame before you stopped the camera as your display image.

3. Select the **Flip the 2nd camera video** check box if you are going to show a text document to the other party using the 2nd camera.
4. Select the **Switch camera off when answering video call** check box to not send a video feed of yourself to the other party. Instead, the option you selected in Show still image will be displayed.
5. Select the **Show call timer** check box to display the call duration in the Status area.

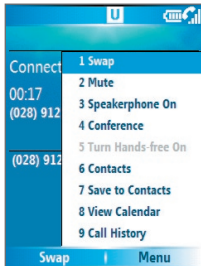
## 2.5 Receiving a Video Call

### To answer a video call

- Click **Answer**.
- Press VIDEO CALL (  ).


## 2.6 In-Call Options

Your phone provides various options for managing multiple calls at the same time. You are notified when you have another incoming call, and you have the choice of ignoring 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.



In-Call Options

### To answer another call

1. Click **Answer** to take the second call and put the first call on hold.
2. To end the second call and return to the first call, press END ()

### To switch between calls

- To switch between two calls, click **Swap**.

### To set up a conference call


1. Either put a call on hold and dial a second number, or, answer a second incoming call during a call.
2. Click **Menu > Conference**.

### Notes

- If the conference connection is successful, the word “Conference” appears at the top of the screen.
- To add additional persons to your conference call, click **Menu > Hold**, enter the phone number, and then click **Resume** to return to the call.
- Not all service providers support conference call. Contact your service provider for details.

### To turn on and off the Speakerphone

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

- During a call, click **Menu > Speakerphone On**. The  icon appears at the top of the screen.
- To turn off the Speakerphone during the call, click **Menu > Speakerphone Off**. Alternatively, the speakerphone can be toggled on and off by pressing and holding the TALK key during the call.


**WARNING!** To avoid damage to your hearing, do not hold your phone 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, click **Menu > Mute**.



When the microphone is turned off, the  icon appears on the screen. Click **Menu** > **Unmute** to turn on the microphone again.





## 2.7 Additional Dialing Information

### Make an emergency call

- Enter the appropriate emergency number for your locale, and press TALK (  ).

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

### Make an international call

1. Press 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, and press TALK (  ). The full phone number includes country code, area code (without the leading zero, if any), and phone number.

### Insert a pause in a dialing sequence

Some international calls require a pause in the dialing sequence in order for the call to process successfully.


1. On the Home screen, click **Start** > **Contacts**.
2. Select the contact entry that contains the phone number into which you want to insert a pause, and press ENTER to open the contact card.
3. Click **Menu** > **Edit**.
4. Position the cursor on the phone number where you want to insert a pause.
5. Click **Menu** > **Insert Pause**.  
The letter “p” will appear in the number to indicate where the pause will occur in the dialing sequence.
6. Click **Done**.

## Insert a longer pause in a dialing sequence

Some phone numbers may require a longer pause than the default pause in the dialing sequence. In these cases, you can pause as long as you want, and manually continue the dialing sequence.

**Note** This feature is not available for contacts stored on the SIM card.

1. On the Home screen, click **Start > Contacts**.
2. Select the contact entry that contains the phone number into which you want to insert a longer pause, and press ENTER to open the contact card.
3. Click **Menu > Edit**.
4. Position the cursor on the phone number where you want to insert a longer pause.
5. Click **Menu > Insert Wait**.  
The letter “w” will appear in the number to indicate where the longer pause (wait) will occur in the dialing sequence.
6. Click **Done**.

**Note** When you call a number that contains a longer pause, you must press TALK (  ) to continue dialing.

## SIM Tool Kit (STK)

A SIM card must be inserted in your device in order to use this feature, which allows you to access a range of information services provided by your service provider.

1. On the Home screen, click **Start > SIM Tool Kit (STK)**. A list of provided services appears.
2. To access a service, click the item in the list.

# Chapter 3

## Synchronizing Information and Setting Up E-mail Security

**3.1 About ActiveSync**

**3.2 Setting Up ActiveSync**

**3.3 Synchronizing Information**

**3.4 Synchronizing via Infrared  
and Bluetooth**

**3.5 Synchronizing Music, Video,  
and Pictures**

**3.6 Setting Up E-mail Security**

## 3.1 About ActiveSync

ActiveSync synchronizes information on your phone with information on your PC such as Outlook content. ActiveSync can also synchronize over a wireless or cellular network with Exchange Server if your company or service provider is running Exchange Server with Exchange ActiveSync.

Specifically, you can use ActiveSync to:

- Synchronize information such as Outlook e-mail, contacts, calendar, or tasks information on your phone with your PC, as well as pictures, video, and music.
- Synchronize Outlook e-mail, contacts, calendar appointments, and tasks on your phone directly with Exchange Server so that you can stay up to date even when your PC is turned off.
- Copy files between your phone and your PC.
- Select which types of information are synchronized and specify how much information is synchronized. For example, you can choose how many weeks of past calendar appointments to synchronize.
- Add and remove programs on your phone. For details, see Chapter 4, “Adding and Removing Programs.”

## 3.2 Setting Up ActiveSync

### To install and set up ActiveSync on the computer

1. Install ActiveSync on your PC, as described on the Windows Mobile™ Getting Started Disc.
2. After Setup completes, the Synchronization Setup Wizard automatically starts when you connect your phone to the PC. The wizard will guide you to create a synchronization relationship between your phone and computer. Click **Next**.
3. Do not select the **Synchronize directly with a server running Microsoft Exchange Server** check box if you will synchronize your phone with a computer. Just click **Next**, then skip to step 8.

4. If you will synchronize your phone with Exchange Server, select the **Synchronize directly with a server running Microsoft Exchange Server** check box, then click **Next**.
5. On the Exchange server credentials screen, enter the Exchange server address, your user name and password, and the domain name.

The screenshot shows the 'Exchange server credentials' window of the 'Synchronization Setup Wizard'. It has a title bar with a green icon and a close button. The main area is titled 'Exchange server credentials' with a subtitle 'Enter the information that will authenticate you to a server running Microsoft Exchange Server'. There are two sections: 'Server address' and 'Login Credentials'. The 'Server address' section has a text box containing 'servername.domain', a note about Outlook Web Access, and a checked checkbox 'This server requires an encrypted (SSL) connection'. The 'Login Credentials' section has text boxes for 'User name' (containing 'John\_Smith'), 'Password' (containing seven dots), and 'Domain' (containing 'domain'). There is an unchecked checkbox 'Save password (required for automatic synchronization)'. At the bottom are three buttons: '< Back', 'Next >', and 'Cancel'.

If you do not know what the Exchange server address and domain name are, you can check with your network administrator, or you can check them in your computer by doing the following:

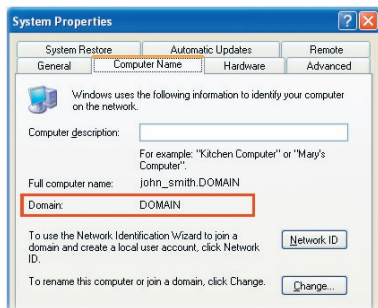
- In Outlook, click **Tools > E-mail Accounts**.
- Select **View or change existing e-mail accounts**.
- Double-click **Microsoft Exchange Server**.
- On the Exchange Server Settings screen, you will see the Exchange Server name.

The screenshot shows the 'Exchange Server Settings' window within the 'E-mail Accounts' dialog. The title bar says 'E-mail Accounts'. The main area is titled 'Exchange Server Settings' with a subtitle 'You can enter the required information to connect to your Exchange server.' There is a text box for 'Microsoft Exchange Server:' containing 'servername.domain'. Below it is a checked checkbox 'Use Cached Exchange Mode'. A mouse cursor is pointing at the window's title bar.

- To check the domain name, click **Start > Settings > Control Panel**, then double-click **System**.

## 46 Synchronizing Information and Setting Up E-mail Security

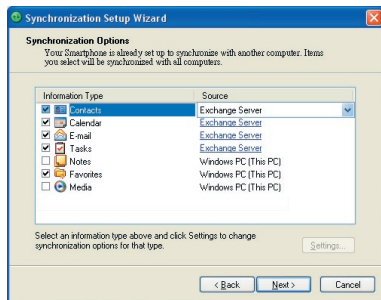
- In the System Properties dialog box, click the **Computer Name** tab. You will then see the domain name.



6. On your phone, you also need to enter the Exchange server settings. For information about this, see “Synchronizing directly with Exchange Server.”
7. On the Synchronization Setup Wizard, click **Next**.
8. Select the information types to synchronize between your phone and computer.

If you will synchronize your phone with both your computer and Exchange Server, do the following:

- For the Contacts, Calendar, E-mail, and Tasks items, choose whether to synchronize them with the computer or with the Exchange Server. These items cannot be synchronized to both.
- Select the check boxes of the other information types if you want to synchronize them with your computer.



Information types on the PC and Exchange Server

9. Click **Next**.

10. Click **Finish**.

When you finish the wizard, ActiveSync synchronizes your phone automatically. Once synchronization completes, you can disconnect your phone from your PC.

### 3.3 Synchronizing Information

When you connect your phone to the PC, ActiveSync will immediately synchronize. While the phone is connected, ActiveSync synchronizes every time you make a change on either the PC or the phone.

#### To manually start and stop synchronization

1. Connect your phone.

- To synchronize local information on the PC, such as Outlook information or media files, connect your phone to the PC using Bluetooth, infrared (IR), or a cable.
- If you are synchronizing directly with Exchange Server, you can use the connection to the PC to access the network, or you can synchronize over a cellular network without connecting to the PC.

2. In ActiveSync, click **Sync**. To end synchronization before it completes, click **Stop**.

## Synchronize Outlook information with the computer

If you have set up a synchronization relationship between your phone and the PC, synchronization keeps Outlook information up-to-date on both of them.

You can also set up your phone 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 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 the phone with both computers, the result is as follows:

Location	New state
<b>PC1</b>	All Outlook contacts and calendar appointments that were on PC2 are now also on PC1.
<b>PC2</b>	All Outlook contacts and calendar appointments that were on PC1 are now also on PC2.
<b>Phone</b>	All Outlook contacts and calendar appointments from both PC1 and PC2 are on the phone.

**Note** Outlook e-mail can be synchronized with only one computer.

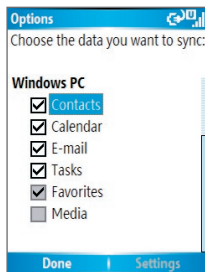
## To change which information is synchronized

ActiveSync synchronizes a limited amount of information by default to save storage space on your phone. You can change the amount of information that is synchronized by performing the following steps.

**Note** Before changing synchronization settings on the phone, disconnect it from your PC.

1. On the Home screen, click **Start > ActiveSync**.
2. In ActiveSync, click **Menu > Options**.
3. Do one or more of the following:
  - Select the check box for the 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 exclude.
- To customize synchronization of a computer, select the computer name then click **Menu > Settings**.
- To customize synchronization of a particular information, select the information type then click **Settings**.
- To stop synchronizing with one computer completely, select the computer name and click **Menu > Delete**.

**Note** Outlook e-mail can be synchronized with only one computer.

## Synchronize Outlook information with Exchange Server

You can set up synchronization with Exchange Server on your phone, if it is available to you through your company or wireless service provider. However, you should first ask your administrator or check your computer for the following information and then carry on with the steps: Exchange Server name, domain name, your user name, and password. (For information about how to check the Exchange server name and domain on your PC, see “To install and set up ActiveSync on the computer.”)

**Note** Before changing synchronization settings on the phone, disconnect it from your PC.

### To synchronize directly with Exchange Server

1. On the Home screen, click **Start > ActiveSync > Menu > Configure Server**. If you have not yet set up synchronization with Exchange Server, this will say **Add Server Source**.
2. On the Edit Server Settings screen, enter the name of the server running Exchange Server in the **Server address** box, and click **Next**.
3. On the User Information screen, enter your user name, password, and domain name.
4. If you want the phone to save your password so that you will not need to enter it again when connecting, select the **Save password** check box. Then, click **Next**.
5. On the Options screen, select the check boxes of the types of information that you want to synchronize with the Exchange Server.
6. To customize synchronization of a particular information, select the type of information then click **Menu > Settings**.

**Note** Settings is not available for Contacts and Tasks.

7. To change the rules for resolving synchronization conflicts, click **Menu > Advanced** on the Options screen.
8. Click **Finish**.

**Note** You can also use the Sync Setup Wizard to set up the phone to synchronize remotely with the Exchange Server. This wizard is started when you connect your phone to your PC after installing ActiveSync on the PC.

### Schedule synchronization with Exchange Server




You can schedule information to be synchronized automatically between your phone and the Exchange Server, or schedule synchronization at regular time intervals. Choose between these two methods, depending on your e-mail volume and which method you think is more cost-effective.

## To receive e-mails and synchronize other information instantly

The **Direct Push** technology (Push E-Mail feature) enables you to receive new e-mails on your phone 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 phone when these items have been changed or new entries have been added on the Exchange Server. To make Direct Push work, you need to set up a GPRS connection on your phone.

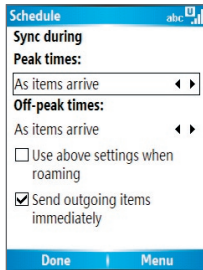
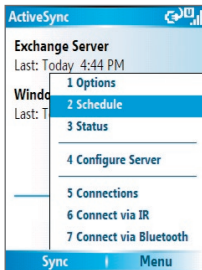
The Direct Push feature works for your phone, if your private network such as your corporate network is using Microsoft Exchange Server Service Pack 2 (SP2) with Exchange ActiveSync, and after your first full synchronization with the Exchange Server.

### Using Comm Manager

1. Click **Start > Comm Manager**.
2. In the Comm Manager screen, click the **Microsoft Direct Push** button. The button  will turn to , this 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.

### Using ActiveSync

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



**To schedule synchronization at regular time intervals**

You can 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-times** when e-mail volume is low.

1. In ActiveSync on your phone, click **Menu > Schedule**.
2. On the Schedule screen, 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, click **Menu > Peak Times** on the Schedule screen.

## 3.4 Synchronizing via Infrared and Bluetooth

You can connect your phone to the PC to synchronize using the local wireless technologies, infrared (IR) and Bluetooth. These technologies have similar but slightly different requirements.

**To synchronize with a PC via infrared**

1. Follow the instructions in ActiveSync Help on the PC for setting up your PC to receive infrared beams.
2. Line up the infrared (IR) ports according to the instructions in the manufacturer's documentation for your phone so that they are unobstructed and within close range.
3. On the Home screen, click **Start > ActiveSync**.
4. Click **Menu > Connect via IR**.
5. Click **Sync**.

**To synchronize with a PC via Bluetooth**

1. Follow the instructions in ActiveSync Help on the PC for configuring Bluetooth on your PC to support ActiveSync.
2. On the Home screen, click **Start > ActiveSync**.
3. Click **Menu > Connect via Bluetooth**. Ensure that the phone and the PC are within close range.

4. If this is the first time you have connected to this PC via Bluetooth, you must complete the Bluetooth wizard on the phone and set up a Bluetooth partnership with the PC before synchronizing.
5. Click **Sync**.
6. When finished, click **Menu > Disconnect Bluetooth**.

#### Notes

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

## 3.5 Synchronizing Music, Video, and Pictures

If you want to take your music or other digital media with you, ActiveSync works with Windows Media Player to synchronize music, video, and pictures with your phone.

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:

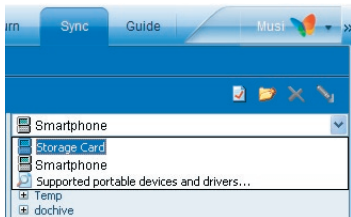
- Install Windows Media Player Version 10 or later on the PC.
- Connect your phone to the PC with a USB cable. If the phone is currently connected using Bluetooth or infrared, you must end that connection before media can be synchronized.
- Insert a 32-MB or larger storage card into your phone.
- Set 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, video, and picture files in Windows Media Player playlists can be synchronized by ActiveSync. 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 PC, 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 information about using Windows Media Player on the phone, see “Using Windows Media Player” in Chapter 7.

### 3.6 Setting Up E-mail Security

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

Using authorization keys and certificates, S/MIME allows you to digitally sign your e-mail messages to prove your identity to the recipients. Authorization keys are also used when encrypting messages to improve privacy and prevent undue tampering or hacking of your messages. You can encrypt a message with or without a certificate. However, to read an encrypted message, you need a valid certificate for decrypting e-mail messages.

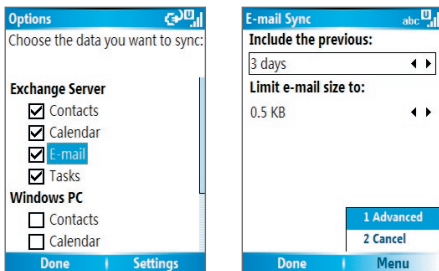
**Note** S/MIME encryption and digital signatures for Windows Mobile-based devices are available only with Exchange Server 2003 Service Pack 2 or a later version that supports S/MIME. If you aren't using one of these products, or have not yet synchronized, these options are unavailable.

#### Digitally sign and encrypt all messages

ActiveSync allows you to set up S/MIME e-mail encryption and signing. You will have to obtain a valid certificate for signing or encrypting e-mail before you will be able to sign or encrypt mail successfully.

1. On the Home screen, click **Start > ActiveSync**.
2. Click **Menu > Options**.

3. Select the **E-mail** information type, and click **Settings**. On the E-mail Sync screen, click **Menu > 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 **Sign messages**.
  - 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 **Encrypt messages**.
5. Click **Menu > Choose Certificate** to select a certificate for signing or encrypting outgoing e-mail messages.

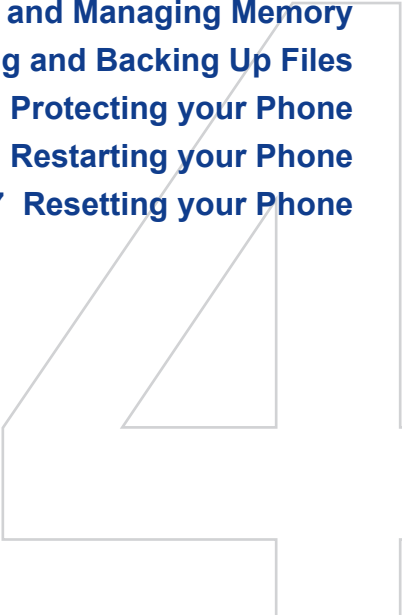
You can select certificates to sign or encrypt e-mail messages individually if you do not choose to sign or encrypt all outgoing e-mails. For information about signing and encrypting individual messages, see “Individually sign and encrypt a message” in Chapter 6.





# Chapter 4

## Managing your Phone

- 4.1 Personalizing your Phone**
  - 4.2 Adding and Removing Programs**
  - 4.3 Using Task Manager  
and Managing Memory**
  - 4.4 Managing and Backing Up Files**
  - 4.5 Protecting your Phone**
  - 4.6 Restarting your Phone**
  - 4.7 Resetting your Phone**
- 

## 4.1 Personalizing your Phone

### Set up the Home screen

The Home screen is your starting place for most tasks. You can gain access to all features and programs from the Home screen.

The top of the Home screen displays icons for the programs that you have most recently used. The center of the Home screen can display your next appointment, the number of new messages (voice mail, text, e-mail, or MMS) that you have received, and other important information. When you click an icon or item on the Home Screen, the associated program opens.

### To customize the Home screen

1. On the Home screen, click **Start > Settings > Home Screen**.
2. In **Home screen layout**, **Color scheme**, **Background image**, and **Time out**, select the options you want, and click **Done**.

### To set a picture as the background

1. On the Home screen, click **Start > Pictures & Videos**.
2. Select the picture you want to set as the background.  
Click **View** or press ENTER for a larger view of the image
3. Click **Menu > Use as Home Screen**.
4. Use NAVIGATION to select the portion of the picture you want to use, and click **Next**.
5. In **Adjust the transparency**, select a higher percentage for a more transparent picture or a lower percentage for a more opaque picture.
6. Click **Finish**.

## Set date, time, language, and other regional options

Your phone should already be set up with the regional settings that are appropriate for your locale.

### To change regional settings

You can specify the language, locale, date and time style, as well as number and currency formatting options.

1. On the Home screen, click **Start > Settings > Regional Settings**.
2. In **Language**, select your preferred language.
3. In **Locale**, select the locale for the language you selected. The Locale option automatically changes the format of the remaining options (such as date, time, and currency) according to the locale you specify.
4. Click **Done**.

**Note** You must turn your phone off and on again for the changes to take effect.

### To set the date and time

1. On the Home screen, click **Start > Settings > Clock & Alarm > Date and Time**.
2. In **Time zone**, select your time zone.
3. In **Date**, edit the month, day, or year.
4. In **Time**, edit the hour, minute, and second.
5. Click **Done**.

## Choose how to be notified about events or actions

A profile is a group of settings that determine how your phone will alert you to incoming calls, events such as e-mail receipt notifications, alarms, or system events. A number of different preset combinations of these settings are included with your phone. Each profile appears with a descriptive name.

### To change the current profile

1. On the Home screen, click **Profile [Type]**. Example: **Profile Normal**.
2. Click a new profile, and click **Done**.

**Tip** To quickly change the profile, briefly press **POWER** to display the Quick List, and click a profile.

### To edit a profile

1. On the Home screen, click **Profile [Type]**. Example: **Profile Normal**.
2. Select the profile to edit.
3. Click **Menu > Edit**.
4. Do one of the following:
  - Modify the settings, and click **Done**.
  - To cancel without saving changes, click **Cancel**.

**Tip** To revert to the default profile settings, click **Menu > Reset to default**.

### To specify the sound for an event

1. On the Home screen, click **Start > Settings > Sounds**.
2. For the desired event, select a sound. Select **None** if you do not want to hear a sound.
3. Click **Done**.

**Note** For ring tones, you can use sounds in either .wav, .mid, .wma, or .mp3 file format. For notifications or reminders, you can use .wav, or .mid files.

**Tip** When you select a sound, the sound plays. To hear it again, select **Menu > Play**.

### To set sound for the keypad

1. On the Home screen, click **Start > Settings > Sounds**.
2. In **Keypad control**, select a sound. Select **None** if you do not want to hear any sound while pressing a key.
3. Click **Done**.

## To copy a sound to your phone

After a sound file is located on your phone, you can use it for a ring tone, notification, or reminder. Sound files in either .wav, .mid, .wma, or .MP3 formats can be used.

1. Connect the phone to your PC using a USB connection.
2. On your PC, copy the sound file you want.
3. In ActiveSync on your PC, click **Explore** and double-click **My Windows Mobile-Based Device**.
4. Do one of the following:
  - To save the sound file on your phone, double-click **Application Data**, double-click **Sounds**, and paste the file into that folder.
  - To save the sound file on your storage card, double-click **Storage Card**, and paste the file into the folder you want.

## To set an alarm

1. On the Home screen, click **Start > Settings > Clock & Alarm > Alarm**.
2. In **Alarm**, choose one of the following:
  - **Off** to turn the alarm off.
  - **On** to turn the alarm on.
3. In **Alarm time**, enter the time for the alarm to go off.
4. Click **Done**.

## Set personal information

Entering and displaying owner information are best practices; they allow someone to return the phone to you in case it is lost.

### To enter owner information

1. On the Home screen, click **Start > Settings > Owner Information**.
2. Complete the following:
  - In **Name**, enter your name.

- In **Telephone number**, enter a number where you can be reached.
  - In **E-mail address**, enter your e-mail address.
  - In **Notes**, enter any other information you want to include.
3. Click **Done**.

## Set performance and maintenance options

### To change accessibility settings

1. On the Home screen, click **Start > Settings > Accessibility**.
2. Select your preference for the following:
  - **System font size** to set the size of the font that is displayed on the screen.
  - **Multipress time out** to set the length of time between keypresses when entering text in Multipress mode.
  - **Confirmation time out** to set the delay before an unconfirmed action times out.
  - **In-call alert volume** to set the volume for incoming call or receiving new message alerts while you are in a call.
3. Click **Done**.

### To change power management settings

You can use Power Management to check the battery, and configure settings that prolong battery life.

1. On the Home screen, click **Start > Settings > Power Management**.
2. Adjust the following:
  - In **Backlight time out on battery**, select the amount of time for the phone to be idle before the backlight turns off.
  - In **Backlight time out on AC**, select the amount of time for the phone to be idle before the backlight turns off when using AC power.
  - In **Display time out**, select the time limit for the phone to be idle before the screen turns off.

- In **Light Sensor Enable**, turn it on to see the buttons on the keypad more easier in the dark.

3. Click **Done**.

**Tip**      **Main battery** indicates the amount of battery life remaining.

**To find the operating system version number**

- On the Home screen, click **Start > Settings > About**.  
The operating system version number installed on your phone along with the manufacturer copyright information will be listed on the screen.

**To find the phone specification**

- On the Home screen, click **Start > Settings > System Information**.  
The System Information screen displays the details about the phone specification, such as processor, speed, memory, display, model name, and so on.

**To turn on and off error reporting**

1. On the Home screen, click **Start > Settings > Error Reporting**.
2. Do one of the following:
  - Select **Enable** to turn on error reporting.
  - Select **Disable** to turn off error reporting.
3. Click **Done**.

## 4.2 Adding and Removing Programs

Before you purchase additional programs for your phone, you should note the name of your phone, 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 phone. For more information, see “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 install on your PC. You can then use ActiveSync to add programs to your phone 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 phone and processor type.
2. Read any installation instructions or documentation that comes with the program. Many programs provide special installation instructions.
3. Connect your phone and PC.
4. Double-click the \*.exe file.
  - If the executable file is an installation wizard, follow the instructions on the screen. Once the program has been installed on your PC, the wizard will automatically transfer the program to your phone.
  - 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 to your phone. If you cannot find any installation instructions for the program, use ActiveSync to copy the program file to the Program Files folder on your phone.



### To remove a program

Programs that come with the phone cannot be removed.

1. On the Home screen, click **Start > Settings > Remove Programs**.
2. Scroll to the program to remove.
3. Click **Menu > Remove**.

## 4.3 Using Task Manager and Managing Memory

### To see how much memory is available

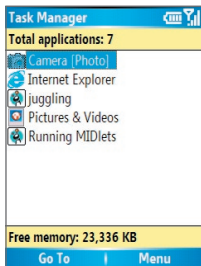
1. On the Home screen, click **Start > Settings > About**.
2. Scroll down to **Available Memory**.

### Use Task Manager

Task Manager allows you to view all the programs currently running on your phone in the form of a list. From Task Manager, you can switch to, activate, or terminate any currently running program. It also allows you to view the phone memory status and battery information.

### To start Task Manager

- Click **Start > Task Manager**.



Task Manager

The Task Manager Menu contains the following options.

Option	Allows you to
<b>Go To</b>	Switch to the selected program.
<b>Refresh</b>	Refresh the Task Manager screen to reflect a list of currently running programs.
<b>Stop</b>	Stop the selected program. You can view the free memory status at the bottom of the screen.
<b>Stop All</b>	Stop all listed programs. Click <b>OK</b> to confirm that you want to end all currently running programs. You can view the free memory status at the bottom of the screen.
<b>Stop All But Selected</b>	Stop all running programs in the list except the one you selected.
<b>System Info</b>	View information about power status, memory usage, flash, and phone information.
<b>About</b>	View program name, version, and copyright information.

## 4.4 Managing and Backing Up Files

You can back up files to your PC using ActiveSync or copy files to a storage card that is installed by you on your phone. You can also efficiently manage your files and folders using File Explorer installed on your phone.

Using Microsoft ActiveSync, you can copy or move information from the PC to the phone and vice versa. Changes you make to the information on one computer will not affect the information on the other computer. If you want to automatically update information on both your phone and PC, synchronize the information instead. For more information about copying and synchronizing files, see ActiveSync Help on your PC.

### To copy a file using ActiveSync

Copying a file results in separate versions of a file on your phone and PC. Because the files are not synchronized, changes made to one file will not affect the other.

1. Connect your phone to your PC.
2. In ActiveSync, click **Explore**, which opens the Mobile Device folder for your phone.
3. In the Mobile Device folder, go to the file that you want to copy on your phone or PC.
4. Do one of the following:
  - To copy the file to your phone, right-click the file, and click **Copy**. Right-click the desired folder on your phone, and click **Paste**.
  - To copy the file to your PC, right-click the file and click **Copy**. Right-click the desired folder on your PC, and click **Paste**.

### Use File Explorer

File Explorer provides many easy-to-use features for file and folder management.

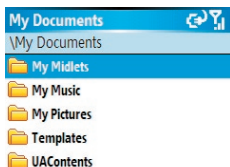
#### To start File Explorer

- On the Home screen, click **Start > File Explorer**.

File Explorer operates in the following two views:

- List View
- Icons View

File Explorer displays the entire file structure in your phone's memory. The functions focus primarily on folder management. When initially started, File Explorer is in List View by default. To switch between views, click **Menu > View > Icons** or **List**.



## File Explorer - List View

The File Explorer menu contains the following options:

Option	Allows you to
<b>Send</b>	Lets you send the selected file through one of the messaging features.
<b>Beam</b>	Lets you send the selected file through Bluetooth or IrDA.
<b>Edit</b>	Opens a menu where you can choose to cut, copy, paste, delete or rename a file. You can also create a new folder.
<b>Properties</b>	View information about the selected folder or file.
<b>View</b>	Opens a menu where you can switch between the <b>Icons</b> or <b>List</b> view.
<b>Sort By</b>	Opens a menu where you can choose to sort the files or folders by Name, Date, Size or Type.
<b>My Device</b>	Displays the folders and files in the root folder of the phone.
<b>My Documents</b>	Displays the folders and files in the <b>My Documents</b> folder.

**To send a file as an e-mail attachment**

1. In File Explorer, select a file.
2. Click **Menu > Send**.
3. On the Messaging screen, select **Outlook E-mail** or a custom e-mail account.
4. The file will automatically be attached to the new message. Specify the recipient and subject, and type your message.
5. Click **Send**.

## 4.5 Protecting your Phone

There are several levels of security on your phone. You can protect your phone from unauthorized use by requiring a type of password called a PIN (personal identification number) in order to make calls. Your first PIN will be given to you by your wireless service provider. Additionally, you can lock the keypad or the entire phone to prevent unauthorized access.

**To enable the SIM/USIM personal Identification number (PIN)**

1. On the Home screen, click **Start > Settings > Security**.
2. Click **Enable SIM PIN**.
3. Enter your PIN, and click **Done**.

**Note** To cancel without enabling the SIM/USIM PIN, press HOME.

**To disable the SIM/USIM PIN**

1. On the Home screen, click **Start > Settings > Security**.
2. Click **Disable SIM PIN**.
3. Enter your PIN, and click **Done**.

**To change the SIM/USIM PIN**

Be sure to make a note of your personal identification number (PIN). When the SIM/USIM PIN is enabled, you must provide this PIN to unlock the phone.

1. Click **Start > Settings > Security**.
2. Click **Change SIM PIN**.

3. In **Old PIN**, enter the current PIN.
4. Enter and confirm the new PIN, and click **Done**.

### To lock the keypad

Locking the keypad turns off keypad functionality. This is a helpful feature if, for example, the phone is turned on and in your pocket, and you want to prevent accidental keypresses.

- On the Home screen, press and hold **END**.  
Once the keypad is locked, the left soft key label changes to **Unlock**.

**Tip** To quickly lock the keypad, press **POWER** briefly to display the Quick List, and select **Key lock**.

**Note** You can still receive calls and make emergency calls when the keypad is locked.

### To unlock the keypad

- On the Home screen, click **Unlock** and press the \* key.

### To enable the phone lock

1. On the Home screen, click **Start > Settings > Security > Device lock**.
2. Select **Prompt if device unused for** then select the amount of time for the phone to be inactive before automatically locking.
3. Select the **Password type** then enter and confirm your password.
4. Click **Done**.

### Notes

- Alternatively, press **POWER** briefly to display the Quick List and then select **Device lock** to configure the phone lock settings.
- Once you configure the phone lock settings, you can enable the phone lock from the Quick List directly without configuring the settings again.

### To disable the phone lock

- Click **Unlock** then enter the password you have set to unlock your phone.

## 4.6 Restarting your Phone

Occasionally, you may want to restart your phone, for example, when a program is not performing properly or the phone does not respond to any keypresses.

### To restart the phone

1. Remove the battery.
2. Reinsert the battery and turn on your phone.

**WARNING!** If the phone is restarted while a program is running, unsaved work will be lost.

## 4.7 Resetting your Phone

Resetting your phone will remove all the data from its memory which include contacts, tasks, calendar appointments, and more, and restore the phone back to the factory default settings.

**WARNING!** All your data will be deleted, it is recommended that you back up your data first before resetting your phone.

Use this procedure as a last resort. If you are finding an application is not running properly, this is most likely to be a conflict between installed programs. We recommend un-installing the most recently added program first. Follow the section on 'removing programs' in order to do this. Also verify that the program is designed to be run on this telephone by comparing the requirements to the information given in the phone under **Start > Settings > System Information**.

After a reset you will need to re-install all the programs you had previously. In addition, some of the i-mate software such as the games and the anti-virus applications are not permanently written into the memory. This gives you the option of removing them if you want more space on your device.

If you perform a hard reset, visit [www.clubimate.com](http://www.clubimate.com) to download the software pack that was pre-packaged on to your device.

### To reset your phone

1. Click **Start > Accessories > Clear Storage**.
2. Follow the on-screen instructions to reset the phone.

The phone will restart after it has been reset.





# Chapter 5

## Getting Connected

**5.1 Connecting to the Internet**

**5.2 Using Internet Explorer Mobile**

**5.3 Using Wireless Modem**

**5.4 Using Comm Manager**

**5.5 Using Bluetooth**



## 5.1 Connecting to the Internet

Your phone's powerful networking capabilities allow you to access the Internet or your corporate network at work through wireless and conventional connections. Specifically, you can configure your phone to establish a connection via Dial-up, GPRS, Bluetooth, Virtual Private Network (VPN), or Proxy.

With an active connection on your phone, you can browse the Web, download e-mails, or chat using MSN Messenger. Check with your service provider to see if a connection has already been set up for you, and if over-the-air configuration is supported.

The web site <http://www.clubimate.com> holds many of the settings for operators worldwide. Visit the site from your PC to see if your settings are already available. Then follow the guide "How to install a cab file on your smartphone" which came on your Getting Started CD.

If you need to manually set up a connection, it is important that you obtain the following information from your Internet Service Provider (ISP) or the company whose intranet you are trying to access:

- ISP server phone number
- User name
- Password
- Access point name (required for GPRS connection)
- Domain name (required for accessing a corporate network or an intranet)

### Set up a GPRS connection

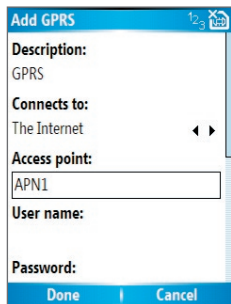
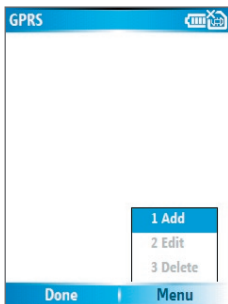
GPRS is a non-voice value-added service that allows information to be sent and received across a mobile telephone network. You can use GPRS to connect to the Internet or to send and receive MMS on your phone. When you use GPRS, you will be billed per KB (Kilobyte) when sending or receiving information.

**Note** Check with your service provider how much it charges for its GPRS service.

If GPRS settings are not preset on your phone, obtain the **Access point name** from your wireless service provider. Also, check with your wireless service provider if a user name and password are required.

### To set up a GPRS connection

1. On the Home screen, click **Start > Settings > Connections > GPRS**.
2. Click **Menu > Add**.
3. In **Description**, enter a name for the connection.
4. In **Connects to**, select **The Internet**.
5. Enter the name of the GPRS **Access point** of your wireless service provider.
6. Enter the appropriate information in the remaining fields, if required by your wireless service provider.



7. Click **Done**.

To start browsing the Internet, click **Start > Internet Explorer**.

For information about setting up and sending MMS, see “Using MMS Messages” in Chapter 6.

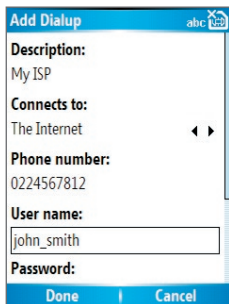
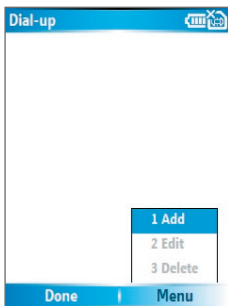
### Set up a Dial-up connection

When you use your phone to dial up to your ISP and connect to the Internet or to your corporate network, you will be billed by the number of minutes that you use.

To establish a dial-up connection on your phone, 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.

### To set up a dial-up connection for browsing the Internet

1. On the Home screen, click **Start > Settings > Connections > Dial-up**.
2. Click **Menu > Add**.
3. In **Description**, enter a name for the connection.
4. In **Connects to**, select **The Internet**.
5. Enter the appropriate information in the remaining fields.



6. Click **Done**. To start browsing the Internet, click **Start > Internet Explorer**.

### To set up a dial-up connection to your corporate network

1. On the Home screen, click **Start > Settings > Connections > Dial-up**.
2. Click **Menu > Add**.
3. In **Description**, enter a name for the connection.
4. In **Connects to**, select **Work**.
5. Enter the appropriate information in the remaining fields.
6. Click **Done**.

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

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

## Advanced options

From the Connections screen, you can access advanced options to specify the service provider, the number of redial attempts, the amount of idle time to wait before disconnecting, and so on.

1. On the Home screen, click **Start > Settings > Connections**.
2. Click **Menu > Advanced**.
3. Select a network service provider for each connection type.  
You can choose **Automatic** to allow the phone to set a service provider for each connection by default.
4. Click **Menu > Options**.
5. Choose the appropriate information in the remaining fields.
6. Click **Done**.

## Add a URL exception

Some URLs for Web pages on your company intranet may use periods, for example: intranet.companyname.com. To view these pages in Internet Explorer Mobile, you must create a URL exception.

1. On the Home screen, click **Start > Settings > Connections**.
2. Click **Menu > Advanced**.
3. Click **Menu > Work URL Exceptions**.
4. Click **Menu > Add**.
5. In **URL Pattern**, enter the URL name.  
To add multiple URLs, use a semicolon (;).
6. Click **Done**.

**Note** You do not need to create URL exceptions for Internet URLs.

## 5.2 Using Internet Explorer Mobile

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

### To open Internet Explorer

- On the Home screen, click **Start > Internet Explorer**.

### To go to a link

1. While on a Web page, scroll vertically or horizontally to see all available links.
2. Click the link.

### To go to a Web page

1. In Internet Explorer, click **Menu > Address Bar**.
2. Enter the address, and click **Go**.

### To change Web page display options

1. While on a Web page, click **Menu > View**.
2. Select 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 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 change the size of text on Web pages

- While on a Web page, click **Menu > Zoom** and select the size you want.

### To show or hide pictures on Web pages

- While on a Web page, click **Menu > View > Show Pictures**.

A check mark next to **Show Pictures** indicates that pictures will be displayed on Web pages.

### To view a page in full-screen mode

- While on a Web page, click **Menu > View > Full Screen**.

**Tip** To exit full-screen mode, press either **SOFT KEY**, and then click **Menu > View > Full Screen** to cancel the selection.

### To add a Web page to the Favorites list

1. To go to the page you want to add, click **Menu > Address Bar**, enter the address, and click **Go**.
2. Click **Menu > Add to Favorites**.
3. Confirm or change the name and Web page address.
4. In **Folder**, select a folder for the favorite.
5. Click **Add**.

**Tip** A quick way to add favorites to your phone is to synchronize with your PC using ActiveSync. For more information, see ActiveSync Help on your PC.

### To view a favorite

1. While on a Web page, click **Favorites**.
2. Select a favorite, and click **Go**.

### To move a favorite to a folder

1. Click **Favorites**.
2. Select the favorite to move.
3. Click **Menu > Edit**.
4. Under **Folder**, scroll to the folder to which you want to move the favorite.
5. Click **Done**.

**To clear history, cookies, or temporary files**

1. While on a Web page, click **Menu > Tools > Options**.
2. Click **Memory**.
3. Select the type of memory to clear.
4. Click **Clear**, click **Yes**, and then click **Done**.

**To send a link via e-mail**

1. Go to the desired Web page.
2. Click **Menu > Tools > Send Link via E-mail**.
3. Select **Text Messages** or **Outlook E-mail**.
4. A new message is created with the page address inserted in the message body.

## 5.3 Using Wireless Modem

With Wireless Modem, you can use your phone as an external modem for another device such as a PDA or notebook computer.

**Note** Make sure your phone has a SIM card installed, and you have set up a GPRS or phone dial-up modem connection on your phone. For information about setting up GPRS on your phone, see "Set up a GPRS connection" in this chapter. Also make sure you have connected your phone to a computer (via infrared, Bluetooth or USB). For information about setting up a dial-up connection, see "Set up a Dial-up connection."

### Set up the phone as a modem

**To set up the phone as an infrared modem**

1. On the Home screen of your phone, click **Start > Accessories > Wireless Modem**.
2. In **Connection**, select **IrDA**.
3. To use your phone as a GPRS modem, set the **Access point name (APN)**. To set, click **Menu > APN Setting** and enter the access point name.
4. Point your phone at the infrared port of your notebook.
5. On your notebook, disable ActiveSync.

**Note** To disable ActiveSync on your computer, click **File > Connection Settings** then clear **Allow connections to one of the following**.



6. Click **Menu > Start** on your phone.
7. The next thing to do is to add the phone as an infrared modem onto your notebook. To do this, continue on with the following steps.
8. After you click **Menu > Start** on the Wireless Modem screen of your phone, the Found New Hardware dialog box will then appear on Windows on your notebook and will show that your phone has been detected as an infrared modem. In this dialog box, make sure that **Install the software automatically (Recommended)** is selected then click **Next**.
9. Wait for Windows to finish installing the infrared modem, then click **Finish**.

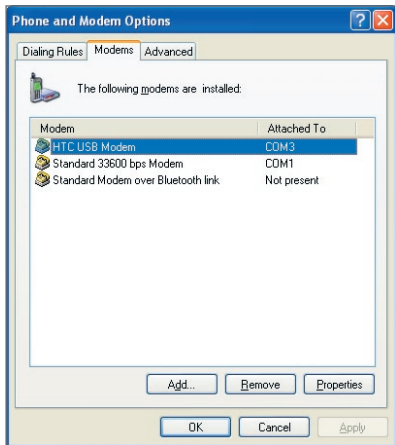
### To set up the phone as a USB modem

1. On the Home screen of your phone, click **Start > Accessories > Wireless Modem**.
2. Select **USB** as the **Connection** type.
3. To use your phone as a GPRS modem, set the **Access point name** (APN). To set, click **Menu > APN Setting**.
4. On your notebook, disable ActiveSync then plug in the USB cable adapter between the phone and the notebook.

**Note** To disable ActiveSync on your computer, click **File > Connection Settings** then clear **Allow USB connections**.

5. Click **Menu > Start** on your phone.
6. The next thing to do is to add the phone as a USB modem onto your notebook. To do so, continue on with the following steps.
7. After you click **Menu > Start** on the Wireless Modem screen of your phone, your notebook will automatically detect that your phone has been connected. The Found New Hardware dialog box will then appear on your notebook.
8. In the Found New Hardware dialog box, select **Install from a list or specific location (Advanced)** and click **Next**.
9. Select **Search for the best drivers in these locations**.

10. Insert the Getting Started Disc into your CD drive. Select the **Include this location in the search** check box, then click **Browse** and choose the CD drive and root folder where the modem driver is located. Then click **Next**.
11. Wait for the installation to complete then click **Finish**.
12. On your computer, click **Start > Settings > Control Panel**.
13. Double-click **Phone and Modem Options**.
14. Click the **Modems** tab. Select the new modem from the Modems list, then click **OK**.



### To set up the phone as a Bluetooth modem

You can connect your phone to a computer through Bluetooth and use the phone as a modem for the computer.

To learn how to set up the phone as a Bluetooth modem, see “Use the phone as a Bluetooth modem” in this chapter.

## Dial-up and connect to the Internet

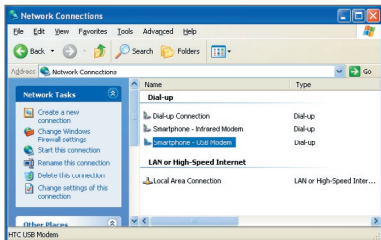
Once the notebook recognizes your phone as a modem, you can now set up a dial-up connection. You will then be able to access the Internet on your notebook using your phone.

### To dial-up and connect to the Internet

1. On your notebook, click **Start > Settings > Control Panel**.
2. Double-click **Network Connections**.
3. Click **File > New Connection**.
4. In the New Connection Wizard, click **Next**.
5. Click **Connect to the Internet** then click **Next**.
6. Select **Set up my connection manually** then click **Next**.
7. Select **Connect using a dial-up modem** then click **Next**.
8. Select the modem that you previously installed then click **Next**.
9. Enter a descriptive name for your ISP then click **Next**.
10. If you are connecting to the Internet via GPRS, enter the telephone number as \*99#. Otherwise, enter your ISP's dial-up phone number then click **Next**.
11. Under Internet Account Information, you may not need to enter a user name and password when using GPRS. Just click **Next** to proceed.
12. Click **Finish** to exit the wizard.
13. The Connect dialog box then opens. Click **Dial** to dial up and connect to the Internet.



Next time you want to dial up again from your computer, click **Start > Settings > Control Panel**, double-click **Network Connections**, then double-click the modem connection.



**Note** To dial up to the Internet, you can also use the dialer program, `USBModem_Dialer.exe`, that is included in the Getting Started Disc. You will find it in the `\OEM\APPS\Drivers\GSM USB Modem` directory of the CD.

### To end the modem session

- On the Wireless Modem screen, click **Menu > Stop**.

## 5.4 Using Comm Manager

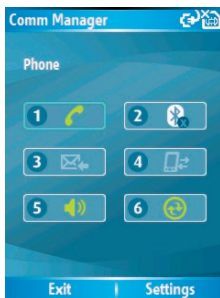
Comm Manager acts like a central switcher that lets you enable or disable phone features as well as manage your data connections easily.

### To open Comm Manager:

Do one of the following:

- Click **Start > Comm Manager**.
- Press and hold the HOME button.

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



1. Click to toggle between enabling or disabling the phone.
2. Click to toggle between turning on or off Bluetooth. See “Using Bluetooth” for details. Click **Settings > Bluetooth Settings** to configure Bluetooth on your phone.
3. Click to toggle between automatically receiving (as items arrive) or manually retrieving Outlook e-mails. For more information, see “To receive e-mails and synchronize other information instantly” in Chapter 3.

4. Click to stop active data services (e.g. GPRS). You cannot reconnect data services in Comm Manager.
5. Click to toggle between turning on the phone's ringer or setting it to vibration/mute mode.
6. Click to open ActiveSync so you can synchronize the phone and computer. For more information about the configuration settings for ActiveSync, see Chapter 3.

## 5.5 Using Bluetooth

Bluetooth is a short-range wireless communications technology. Devices with Bluetooth capabilities can exchange information over 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 phone and computer via Bluetooth.
- Use a Bluetooth-enabled headset (or other Bluetooth-enabled hands-free device such as a car kit) with your phone for hands-free phone conversations. A Bluetooth stereo headset can also be used for listening to music.
- Use a Bluetooth service. Once you connect your phone to another device or computer using Bluetooth, you can locate and use any of the services available on that device.
- Use your phone as a Bluetooth modem for a computer.

### Bluetooth modes

Bluetooth on your phone operates in three different modes:

1. **On.** Bluetooth is turned on. Your phone can detect other Bluetooth-enabled devices, but not vice versa.

- 2. Off.** Bluetooth is turned off. In this mode, you can neither send nor receive information using Bluetooth. You might want to turn off the radio at times to conserve battery power, or in situations where radio use is prohibited, such as onboard an aircraft and in hospitals.
- 3. Discoverable.** Bluetooth is turned on, and all other Bluetooth-enabled devices within a range of 10 meters can detect your phone.

**Note** By default, Bluetooth is turned off. If you turn it on, and then turn off your phone, Bluetooth also turns off. When you turn on your phone again, Bluetooth automatically turns on.

### To turn on or off Bluetooth on your phone

You can enable Bluetooth by clicking the On/Off switch in Comm Manager. You can also do the following:

1. On the Home screen, click **Start > Settings > Connections > Bluetooth**.
2. In **Bluetooth**, select **On**.
3. Click **Done**.

To turn off Bluetooth capabilities on your phone, in **Bluetooth**, select **Off**.

### To make your phone discoverable

1. On the Home screen, click **Start > Settings > Connections > Bluetooth**.
2. In **Bluetooth**, select **Discoverable**.
3. Enter a Bluetooth device name for your phone. This will be the device name that will be shown on another Bluetooth-enabled device when it searches and detects your phone.
4. Click **Done**.

**Note** Selecting the **Discoverable** option on the Bluetooth screen also turns on Bluetooth.

## Bluetooth partnerships

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

Creating a partnership between two devices involves entering the same personal identification number (PIN) on both devices, and this is a one-time process. Once a partnership is created, the devices can recognize the partnership and exchange information without entering a PIN again. Make sure the two devices are within a range of 10 meters, and Bluetooth is turned on and in discoverable mode.

### To create a Bluetooth partnership

1. On the Home screen, click **Start > Settings > Connections > Bluetooth**.

2. Click **Menu > Devices**.

3. Click **Menu > New** to search for a new device.

Your phone searches for other Bluetooth-enabled devices and lists them.

4. Select the desired device name in the list.

5. Click **Next**.

6. Enter a passkey (1 up to 16 characters) to establish a secure connection, then click **Next**.

7. Wait for the paired device to accept the partnership:

- If you are creating a Bluetooth partnership between your phone and another Bluetooth-enabled Pocket PC or phone, the receiving party needs to enter the same passkey that you specified.
- If you are creating a Bluetooth partnership between your phone and computer, a balloon message will appear at the bottom-right of the computer screen, prompting your computer to accept the partnership. Click the message then enter the passkey.

8. On your phone, a message will appear, indicating that your phone has connected with the paired device. Click **OK**.



9. The name of the paired device is then displayed. You may edit and enter a new name for that device, then click **Next**.
10. Select the check boxes of services that you want to use from the paired device. Click **Done**.

### To accept a Bluetooth partnership

1. Ensure that Bluetooth is turned on and in discoverable mode.
2. Click **Yes** when prompted to establish a partnership with the other device.
3. Enter a passkey (the same passkey that is entered on the device requesting the partnership) to establish a secure connection.  
The passkey must be between 1 and 16 characters.
4. Click **Next**.
5. A message will appear, indicating that your phone has connected with the paired device. Click **OK**.
6. The name of the paired device is then displayed. You may edit and enter a new name for that device, then click **Next**.
7. Select the check boxes of services that you want to use from the paired device.
8. Click **Done**.

You can now exchange information with the other device.

### To change the display name of a Bluetooth device

1. On the Home screen, click **Start > Settings > Connections > Bluetooth**.
2. Click **Menu > Devices**.
3. Select a detected Bluetooth device.
4. Click **Menu > Edit**.
5. Enter a new display name for the Bluetooth device, then click **Next**.
6. Click **Done**.

### **To delete a Bluetooth partnership**

1. On the Home screen, click **Start > Settings > Connections > Bluetooth**.
2. Click **Menu > Devices**.
3. Select a Bluetooth device.
4. Click **Menu > Delete**.
5. Click **Done**.

### **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 phone.

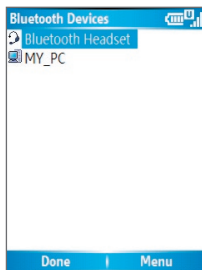
Your phone also supports A2DP (Advanced Audio Distribution Profile) which is for stereo audio over Bluetooth. This means that you can use a Bluetooth stereo headset with your phone for hands-free phone conversations as well as for listening to stereo music. Make sure that your stereo headset also supports A2DP.

Just like when connecting to any Bluetooth device, you also need to enter a passkey when connecting to a Bluetooth hands-free or stereo headset. The passkey is fixed and cannot be changed on a Bluetooth headset. Before you connect it with your phone, check for the proper passkey in the manufacturer's documentation.

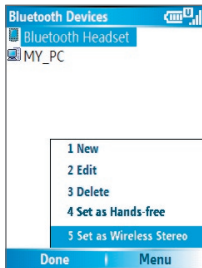
### **To connect a Bluetooth hands-free or stereo headset**

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

- On the Home screen, click **Start > Settings > Connections**.
- Click **Bluetooth > Menu > Devices**.
- Click **Menu > New**. Your device searches for other Bluetooth-enabled devices and displays them in the list.
- Select the name of the headset, and click **Add**.
- In **Passkey**, enter the alphanumeric passkey for the Bluetooth headset, then click **Next**.
- Select the check box for the **Hands Free** service, and click **Finish**.



**Note** If the Bluetooth stereo headset becomes disconnected, turn the headset on and repeat steps 1 to 3 above. Select the stereo headset and click **Menu > 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 phone to your computer or to another Bluetooth-enabled device.

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

### To beam information from your phone to a computer

1. Set Bluetooth on your phone to discoverable mode. For information about this, see “To make your phone discoverable”.
2. Next, set Bluetooth on your computer to discoverable mode, create a Bluetooth partnership, then enable your computer to receive Bluetooth beams.

If your computer has Windows XP SP2 and your computer's built-in or external Bluetooth adapter is supported by Windows XP SP2, do the following steps:

- On your computer, open **Bluetooth Devices** from the Control Panel then click the **Options** tab.
- Select the **Turn discovery on** and the **Allow Bluetooth devices to connect to this computer** options.
- Create a Bluetooth partnership between your phone and computer. For information about creating a partnership, see “Bluetooth partnerships”.
- In the **Options** tab of **Bluetooth Devices**, select **Show the Bluetooth icon in the notification area**.
- To enable your computer to receive Bluetooth beams, right-click the Bluetooth icon at the bottom-right of your computer screen. A menu then opens. Click **Receive a File**.

Whereas if the Bluetooth adapter on your computer was installed using a third-party provided driver, do the following steps:

- 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.
- Click the **Accessibility** tab in the Bluetooth Configuration dialog box, then select **Let other Bluetooth devices to discover this computer**.
- Create a Bluetooth partnership between your device and computer. For information about creating a partnership, see “Bluetooth partnerships”.

- Refer to the Bluetooth adapter's documentation for instructions on how to enable your computer to receive Bluetooth beams.
3. Now you're ready to beam. On your phone, select an item to beam. The item can be an appointment in your calendar, a task, a contact card, or a file.
  4. Click **Menu > Beam [type of item]**.
  5. Select the device name to which you want to beam to.
  6. Click **Beam**.
  7. If you beamed a calendar, task, or contact item to your computer and it is not automatically added to Outlook, click **File > Import and Export** to import it to Microsoft Outlook on your computer.

To beam information to a Bluetooth-enabled device such as another phone, create a Bluetooth partnership then do steps 3 to 6 in the above procedure.

#### Notes

- If the computer or device you want to beam to cannot be detected by your phone, make sure that it is turned on, discoverable, and within close range (10 meters) of your phone.
- The default folder on your computer where beamed items are stored may be  
C:\Documents and Settings\your\_username\My Documents.
- If your computer's Bluetooth adapter was installed using a third-party provided driver, the folder location where it stores beamed items will be indicated in the **Information Exchange** tab of the **Bluetooth Configuration** utility.

#### To receive information on your phone over Bluetooth

First, set your phone to **Discoverable** mode, as described above. Then go to **Start > Settings > Connections > Beam** and tick the box for **Receive Incoming Beams**. Press **Done** and then the Home key to return you to the Home Screen.

The device is now ready to receive files. As a security measure, your Smartphone will only accept data when the screen is lit up. This avoids data being sent to your phone without your knowledge.

You will be notified on screen that you are receiving data. If you wish to cancel the transfer while the data is arriving, press the **Cancel** key. Once the file transfer is complete you will be asked if you wish to accept the file. Press **Yes** for the file to be stored on your device, or **No** to discard.

## Use the phone as a Bluetooth modem

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

To connect your phone to the computer through Bluetooth, you need a Bluetooth radio adapter (or USB Bluetooth dongle) for your computer.

### To set up a Bluetooth connection between the phone and the computer (in Windows XP SP2)

1. On the phone, turn on Bluetooth and set it to discoverable mode.
2. Connect a Bluetooth radio adapter on your computer. (Refer to the manufacturer's documentation for details on how to install.)  
After a Bluetooth radio adapter is installed on your computer, the Control Panel and System Tray will have the **Bluetooth Devices** icon. Double-click this icon.
3. In the Bluetooth Devices window, click **Add**.
4. The Add Bluetooth Device Wizard opens. Select the **My device is set up and ready to be found** check box, then click **Next**.
5. The wizard then detects your phone as a new device and displays its name in the dialog box. Select the device name, then click **Next**.
6. Select **Let me choose my own passkey**, then enter a passkey (1 up to 16 digits) that will serve as an identification number for establishing a secure connection between the phone and the computer. Click **Next**.
7. A confirmation message then appears on your phone. Click **Yes** to accept the connection, enter the same passkey, then click **Next**.

8. On the computer, click **Finish** to exit the wizard.
9. On the phone's Device Added screen, click **OK**.
10. Enter a display name for the computer, then click **Next**.
11. On the Services screen, click **Done**.
12. On the Home screen of your phone, click **Start > Accessories > Wireless Modem**.
13. Select **Bluetooth** as the **Connection** type.
14. To use your phone as a GPRS modem, set the **Access point name** (APN). To set, click **Menu > APN Setting** and enter the access point name.
15. On your notebook, disable ActiveSync.

**Note** To disable ActiveSync on your computer, click **File > Connection Settings** then clear **Allow connections to one of the following**.

16. Click **Menu > Start** on your phone.

After successfully connecting your phone to the computer via Bluetooth, the next thing to do is to add your phone as a Bluetooth modem to your computer.

### To add the phone as a Bluetooth modem

1. On the computer, click **Start > Control Panel > Phone and Modem Options**.
2. Click the **Modems** tab. Check if there is a Bluetooth modem, "Generic Bluetooth Modem" or "Standard Modem over Bluetooth Link", listed. If there is, skip to step 6.
3. If there is no Bluetooth modem listed in the Modems tab, click **Add**.
4. In the Add Hardware Wizard, click **Next**.
5. In the Select Bluetooth Device screen, select the phone name then click **OK**.
6. In the Modems tab, select the Bluetooth modem listed then click **Properties**.

7. Click the **Advanced** tab, then in the **Extra initialization commands** text box, enter:

`AT+CGDCONT=1,"IP","APN"`

where APN is the access point name provided by your mobile network operator to give you access to the Internet. Then click **OK**.

8. Click **OK** to exit the Phone and Modem Options.

Your phone is now set up as a Bluetooth modem. For details about how to connect to the Internet, see "Dial-up and connect to the Internet" in this chapter.



# Chapter 6

## Exchanging Messages and Using Outlook

**6.1 Using E-mail and Text Messages**

**6.2 Using MMS Messages**

**6.3 Using Pocket MSN Messenger**

**6.4 Using Calendar**

**6.5 Using Contacts**

**6.6 Using Tasks**

**6.7 Using Voice Notes**

## 6.1 Using E-mail and Text Messages

**Messaging** is where all of your e-mail accounts and your text message account are located. You can send and receive Outlook e-mail, Internet e-mail through an Internet service provider (ISP), and text messages. You can also access e-mail from work using a virtual private network (VPN) connection.

### Set up Outlook E-mail

When starting ActiveSync on your computer for the first time, the Synchronization Setup Wizard prompts you to set up a synchronization relationship. This allows you to synchronize Outlook e-mail and other information between your phone and your computer or the Exchange Server. If you have already set up synchronization through the wizard, then your phone is ready to send and receive Outlook e-mail. For information about the Synchronization Setup Wizard, see “To install and set up ActiveSync on the computer” in Chapter 3.

If you have not set up a synchronization relationship yet, do the following to set up your phone to synchronize Outlook e-mail:

1. To set up and connect to an over-the-air connection (GPRS or ISP dial-up) to synchronize remotely, follow the procedures in “Connecting to the Internet” in Chapter 5.
2. Disconnect your phone from your computer or LAN. (If you have an over-the-air connection, there is no need to disconnect).
3. Click **Start > ActiveSync**.
4. If you want to synchronize e-mails directly with the Exchange Server on a private network such as your corporate network, follow the steps in “Synchronize Outlook information with Exchange Server” in Chapter 3.
5. Choose which information types to synchronize. Make sure **E-mail** is selected. For details, follow the steps in “To change which information is synchronized” in Chapter 3.

Every time you want to manually send or receive Outlook e-mail on your phone, just connect your phone to your computer, LAN, or over-the-air connection, then click **Sync** on the ActiveSync screen or click **Menu > Send/Receive** in Outlook on your phone.

For details about scheduling automatic synchronization or setting a synchronization time with the Exchange Server, see “Schedule synchronization with Exchange Server” in Chapter 3.

## Set up a POP3/IMAP4 e-mail account

You need to set up an e-mail account that you have with an Internet service provider (ISP) or an account that you access using a VPN server connection (typically a work account) before you can send and receive e-mail.

1. On the Home screen, click **Start > Messaging** and click any item on the Messaging screen.
2. Click **Menu > Options > New Account**.
3. In **Your name**, enter your display name for e-mail messages.
4. In **E-mail address**, enter the e-mail address for this account.
5. Select **Attempt to obtain e-mail settings from the Internet** and click **Next**.

Auto configuration attempts to download necessary e-mail server settings so that you do not need to enter them manually. If the account is set up successfully, you will be prompted to send and receive e-mail.

If **Auto configuration** is unsuccessful or you have an account you access using a VPN server connection, contact your ISP or network administrator for the following information and enter it manually:

Setting	Description
<b>User name</b>	Enter the user name assigned to you by your ISP or network administrator. This is often the first part of your e-mail address, which appears before the at sign (@).
<b>Password</b>	Choose a strong password. You have the option to save your password so you do not need to enter it each time you connect to your e-mail server.
<b>Domain</b>	Not required for an account with an ISP. May be required for a work account.
<b>Server type</b>	Select POP3 or IMAP4.
<b>Account name</b>	Enter a unique name for the account, such as "Work" or "Home." This name cannot be changed later.
<b>Network</b>	Enter the type of network your e-mail server connects to.
<b>Incoming server</b>	Enter the name of your e-mail server (POP3 or IMAP4).
<b>Require SSL connection</b>	Select this to ensure you always receive e-mail for this account using an SSL connection. 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.
<b>Outgoing server</b>	Enter the name of your outgoing e-mail server (SMTP).
<b>Outgoing server requires authentication</b>	Select this if your outgoing e-mail server (SMTP) requires authentication. Your user name and password from above will be used.
<b>Outgoing server settings</b>	Your outgoing e-mail server may require different authentication settings than your incoming e-mail server.
<b>Use different user name for outgoing server</b>	Select this if your outgoing e-mail server requires a different user name and password than the ones you entered before.
User name	Enter your user name for the outgoing e-mail server.
Password	Enter your password for the outgoing e-mail server.
Domain	Enter the domain of the outgoing e-mail server.
Require SSL connection (Outgoing mail server only)	Select this to ensure you always send e-mail from this account using an SSL connection. This enables you to send 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 send e-mail.

## Send and receive messages

### To compose and send an e-mail or text message

1. On the Home screen, click **Start > Messaging**.
2. Select an e-mail account, or select **Text Messages**. Then, click **Select**.
3. Click **New**.
4. Enter the e-mail address or phone number of one or more recipients, separating them with a semicolon (;). To access addresses and phone numbers from Contacts, in **To**, press ENTER and select a recipient from the list.
5. Enter a message.
6. Click **Send**.

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

### Tips

- To set the priority of an e-mail message, click **Menu > Message Options**.
- To cancel any message, click **Menu > Cancel Message**.
- If you are sending a text message and want to know if it was received, before sending the message, click **Menu > Message Options**. Select **Request message delivery notification**.

### To reply to or forward a message

1. From an open message, click **Reply**, or click **Menu > Reply All or Forward**.
2. Enter a message in the message area.
3. Click **Send**.

**Note** If you are replying to or forwarding e-mail from Outlook E-mail, 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 exclude your e-mail address when replying to all**

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

1. On the Home screen, click **Start > ActiveSync**.
2. Click **Menu > Options**.
3. Select **Email**, and click **Settings**.
4. Click **Menu > Advanced**.
5. In the **Primary e-mail address** text box, enter your e-mail address.



6. Click **Done**.

**To add an attachment to an e-mail message**

1. In a new message, click **Menu > Insert** and then click **Picture** or **Voice Note**.
2. Select the picture you want to attach, or record a voice note.

**To download attachments**

- In an open message with an attachment, select the attachment. The attachment is downloaded the next time you synchronize or connect to your e-mail server and send and receive e-mail.

## Download messages

The manner in which you download messages depends on the type of account you have:

- To send and receive e-mail for an Outlook E-mail account, begin synchronization using ActiveSync. For more information, see “Set up Outlook e-mail” in this chapter.
- To send and receive e-mail messages for an e-mail account that you have with an Internet Service Provider (ISP) or that you access using a VPN server connection (typically a work account), download messages through a remote e-mail server. For more information, see “To download messages from the server” below.
- Text messages are automatically received when your phone is turned on. When your phone is in turned off, messages are held by your service provider until you turn on your phone again.

### To download messages from the server

To send and receive e-mail messages for an e-mail account that you have with an Internet Service Provider (ISP) or that you access using a VPN server connection (typically a work account), you first need to connect to the Internet or your corporate network, depending on the account.

1. On the Home screen, click **Start > Messaging**.
2. Select the e-mail account.
3. Click **Menu > Send/Receive**. The messages on your phone and e-mail server are synchronized as follows: new messages are downloaded to the phone Inbox folder, messages in the phone Outbox folder are sent, and messages that have been deleted from the server are removed from the phone Inbox folder.

**Tip** If you want to download the entire message, select the message and click **Menu > Download Message**. The remainder of the message will be downloaded the next time you send and receive e-mail.

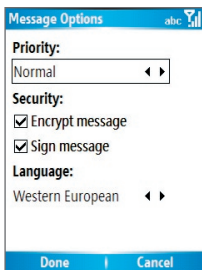
## Individually sign and encrypt a message

Encrypting an Outlook e-mail message protects the privacy of the message by converting it from plain, readable text into cipher (scrambled) text. Only the recipient who has the authorization key can decipher the message.

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.

### To digitally sign and encrypt a new message

1. In the message list, select **Outlook E-mail**.
2. Click **New**.
3. Click **Menu > Message Options**.
4. In the **Security** field, select the **Encrypt message** and **Sign message** check boxes then click **Done**.

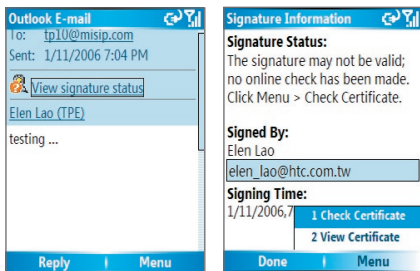


## Verify the digital signature on a signed message you receive

To verify a digital signature in the message that you receive, do the following:

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





4. To view the details of the certificate in the message, click **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.

## Manage folders

Each Messaging account has its own folder hierarchy with five default Messaging folders: Inbox, Outbox, Deleted Items, Drafts, and Sent Items. The messages you receive and send through the account are stored in these folders. You can also create additional folders within each hierarchy. Folders for e-mail accounts behave differently depending on the type of e-mail account you have.

If you set up an Outlook E-mail account to sync with Exchange Server or a desktop PC, e-mail messages in the Inbox folder in Outlook will be synchronized automatically with your phone. You can select to synchronize additional folders by designating them for synchronization. The folders you create and the messages you move will then be mirrored on the e-mail server. For example, if you move two messages from the Inbox folder to a folder named Family, and you have designated Family for synchronization, the server creates a copy of the Family folder and copies the messages to that folder. You can then read the messages while you are away from your PC. You can only

create and delete folders on devices when you are connected to an Exchange e-mail server.

Similar to the Outlook account, if you set up an account to send and receive mail using an IMAP4 e-mail server, all messages on the phone are copies of the messages on the server. The folders you create locally on the phone and the e-mail messages you move to these folders are mirrored on the e-mail server. Moving a message on the phone moves the copy on the server the next time you send and receive e-mail for that account. Therefore, messages are available to you anytime you connect to your e-mail server, whether it is from your phone or PC. This synchronization of folders occurs whenever you connect to your e-mail server, create new folders, or rename/delete folders when connected. You can also set different download options for each folder.

If you set up an account to send/receive mail using a POP3 e-mail server, e-mail messages you move to the Deleted Items folder on the phone will break the link between the messages on the phone and their copies on the e-mail server. The next time you connect to send and receive mail, the e-mail server will detect the messages that are in the Deleted Items folder on the phone and will delete those messages from the e-mail server. All other messages in other folders remain on both the phone and the e-mail server.

## 6.2 Using MMS Messages

Creating and sending Multimedia Message Service (**MMS**) messages to your friends and family is fun and easy. You can include or capture photos or video clips, include or record audio, add text, then send them along with your MMS message.

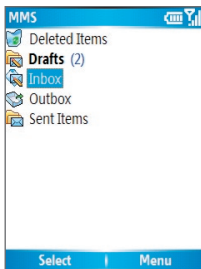
### To access MMS

Do any of the following:

- On the Home screen, click **Start > Messaging > MMS**.
- From the Pictures & Videos program, select a picture in My Pictures, and click **Menu > Send**. Select **MMS** as the messaging account to send the picture along with the message.
- From the Camera program, capture a photo or an MMS video clip then click (📧). In the menu, select **Send via MMS** and click **Send**.

### To access MMS message folders

- Click **Start > Messaging > MMS**, then click **Menu > Folders**.



MMS Message Folders

### Edit 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

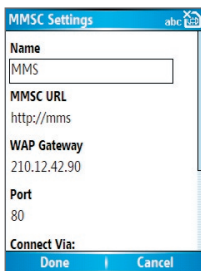
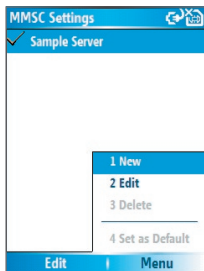
will be stored on the MMS server, awaiting for you to retrieve it. Hence, your phone must be configured with the location of the MMS server for you to be able to send and receive MMS messages on your phone.

The web site <http://www.clubimate.com> holds many of the MMS settings for operators worldwide. Visit the site from your PC to see if your settings are already available. Then follow the guide “How to install a cab file on your smartphone” which came on your Getting Started CD. If the settings are not available, follow the steps below to configure the MMS settings.

### To configure MMS settings

1. On the MMS main screen, click **Menu > Options > Account Options > MMS** to open the Preferences screen.
2. 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.
2. On the Preferences screen, click **Menu > MMSC Settings > Edit** to access Multimedia Messaging Service Center (MMSC) settings.
3. Check if your phone is preset with MMS server settings.

If there are no preset settings, click **Menu > New** on the MMSC Settings screen and enter the following information, which you can get from your wireless service provider:



- **Name.** A descriptive name, such as your wireless service provider name.
- **MMSC URL.** URL address of the MMS server.
- **WAP Gateway.** Location of the MMS server, which is usually in the form of an IP address.
- **Port.** HTTP port number used for connecting to the MMS server and for file transfer.
- **Connect Via.** Select **The Internet** from the list.
- **Max. Sending Size.** 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.

#### 4. Click **Done**.

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 MMSC Settings screen, you can choose one as your default MMS provider. Select the MMS provider's name in the list, then click **Menu > Set as Default**.

## Create and send MMS messages

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.

### 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.

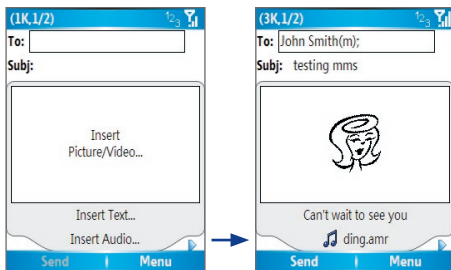
### To start composing an MMS message

1. On the Home screen, click **Start > Messaging > MMS > New**.
2. In **To**, enter the recipient's phone number or e-mail address directly, or press ENTER to choose a phone number or an e-mail address from Contacts. You can also click **Menu > Recipients > Add** to add a new contact entry.
3. In **Subject**, enter a subject for your message.
4. Click **Insert Picture/Video** to select a photo or video clip from the Select Media screen and insert it.
5. Enter text and insert audio clips by clicking the respective fields.
6. Click **Send** to send the message.

**Note** To send a copy of this message to others, access **Cc** and **Bcc** by clicking **Menu > Send Options**. In these fields, enter the recipient's phone number or e-mail address or click **Menu > Recipients > Add** to add from Contacts.

The following symbols act as shortcuts to some of the options on the MMS Message screen.

- Click  to go to the previous slide.
- Click  to go to the next slide.



Composing an MMS Message

### To create an MMS message from a template

- On the blank MMS message screen, click **Menu > Template > New from Template** to compose a message using a predefined template.

**Note** To save a message as a template, create a message or open an existing message, and click **Menu > Template > Save as Template**.

### To insert a photo or video clip into an MMS message

You can add either a still image or a video clip to each individual slide on the MMS message screen.

- Click **Insert Picture/Video** to insert a photo or video clip.
- Select a picture or video clip on the Select Media screen. This is the My Pictures folder where images and video clips are displayed in thumbnail view. To navigate to any other folder containing pictures or videos, click **Menu > Change Folder**.
- Select a photo or video clip by using NAVIGATION, and click **Select** or **Menu > Select** to insert it.

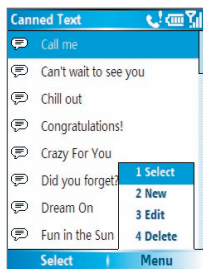
On the Select Media screen, you can view the thumbnails in list view, open an item to view it, or delete an item by clicking **Menu** and choosing the appropriate option. You can even discard this photo or video clip by pressing BACK. To capture a new photo or video clip and send it immediately with the message, click **Menu > Capture Picture** or **Menu > Capture Video**. The newly captured photo or video clip is automatically inserted into your message.

### To add predefined text to an MMS message

You can instantly add text to any slide from a list of predefined words or phrases, called Canned Text.

- On the MMS message screen, click **Menu > Insert Object > Canned Text** and then click **Select** or **Menu > Select** to add a text string from the Canned Text list.

**Note** To edit or delete a phrase on the Canned Text list, select a text string and click **Menu > Edit** or **Menu > Delete**. To create and add a new phrase to the list, click **Menu > New**.



Canned Text

### To add an audio clip to an MMS message

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

1. Click **Insert Audio** to insert an audio clip.  
Select an audio clip on the Select Audio screen.

**Note** By default, the audio clips listed on the Select Audio screen are from the My Sounds folder. To navigate to any other folder containing audio clips, click **Menu > Change Folder**.

2. Select an audio clip using NAVIGATION, and click **Select** or **Menu > Select** to insert it.

**Note** You can play and listen to the audio clip by clicking **Menu > Play** before you insert it.

Otherwise, to record a new audio clip, click **Menu > Capture Audio**. Then click **Record** to start recording and **Stop** to stop recording. Click **Play** to listen to the new audio clip you captured, then click **Done**.

The new audio clip is then added to your MMS message.



### To set options for an MMS message

While composing an MMS message, you can set the following options for the message by clicking **Menu**.

Option	Allows you to
<b>Recipients</b>	Specify the phone number or e-mail address of the recipient(s).
<b>Insert Object</b>	Choose to insert a picture/video, audio, or predefined text.
<b>Capture</b>	Capture a photo, audio or video clip to be inserted into the message.
<b>Attachments</b>	Choose to attach a vCard, vCalendar, or other file.
<b>Remove Picture/ Remove Video</b>	Delete a photo/video from the message.
<b>Remove Audio</b>	Delete an audio clip from the message.
<b>Remove Text</b>	Delete text from the message.
<b>Slides</b>	Add and remove slides, view the next or previous slides, and specify the duration of slides.
<b>Background</b>	Choose a background color from the list.
<b>Template</b>	Compose a message using a predefined template, and save a composed or existing message as a template.
<b>Send Options</b>	Specify the message delivery time, validity, priority, class, and other settings for a message.
<b>Preview Message</b>	Playback the contents of the MMS message before sending it.
<b>Send Message</b>	Send the message to the recipients.
<b>Cancel</b>	Cancel the message and go back to the MMS Messaging folders screen.

## View and reply to MMS messages

### To receive MMS messages

- On any MMS message folder screen, click **Menu > Send/Receive**.  
By default, messages are automatically downloaded to your phone.

### To view an MMS message

You can view MMS messages in several ways.

- Press ENTER to view and play the message on your phone. Click **Pause** or **Menu > Stop** to pause the playback of the message.
- Click **Menu > Object View** to see a list of files included in the message. To open a file, select it and click **Open**. To save a file, select it, and click Save, **Menu > Save Audio**, or **Menu > Save Photo**.
- View each slide included in the message by clicking **Menu > Next**.

### To reply to an MMS message

- Click **Menu > Reply > Reply** to reply to the sender of the message, or click **Menu > Reply > Reply All** to reply to all persons listed in the To and CC boxes of the message. Click **Menu > Reply > Forward** to forward the message to someone else.

## 6.3 Using Pocket MSN Messenger

Pocket MSN Messenger delivers the features of MSN Messenger to your phone. With Pocket MSN Messenger, you can do the following:

- Send and receive instant messages.
- See which contacts are online or offline.
- Subscribe to status updates for selected contacts so you know when they come online.
- Block contacts from seeing your status or sending you messages.

Before you can use MSN Messenger, your phone must be connected to the Internet. For information about setting up an Internet connection, see “Connecting to the Internet” in Chapter 5.

**Important Note** You must have either a Microsoft .NET Passport or a Hotmail account to use MSN Messenger. If you have a Hotmail.com or MSN.com e-mail address, you already have a Passport. To get a Passport account, go to <http://www.passport.com>. To get a Hotmail account, go to <http://www.hotmail.com>.

### To start MSN Messenger

1. On the Home screen, click **Start > Pocket MSN**.
2. Click **MSN Messenger**.

### To sign in or out

- On the main MSN Messenger screen, click **Sign In**. Enter the e-mail address and password for your Passport or Hotmail account, and click **Sign In**.  
Signing in may take several minutes, depending on the connection speed.
- To sign out, click **Menu > Sign Out**.

### To add or delete contacts

- To add a contact, click **Menu > Add Contact**, and follow the instructions on the screen.
- To delete a contact, select the contact and click **Menu > Delete Contact**.

### To send an instant message

1. Click the contact to whom you will send a message.
2. Enter your message in the text entry area at the bottom of the screen, and click **Send**.

**Note** To quickly add common phrases, click **Menu > My Text** and select a phrase in the list.

### To block or unblock contacts

- To block a contact from seeing your status and sending you messages, select the contact and click **Menu > Block**.
- To unblock a contact, select the contact, and click **Menu > Unblock**.

### To change your own Messenger status

1. Click your own name at the top of the screen.  
Your current status is indicated by a bullet point in the displayed list.
2. Select a status (such as Out To Lunch) from the list.

### To change your display name

1. Click **Menu > Options**.
2. In **My display name**, enter the name you want to display to others in MSN Messenger.
3. Click **Done**.

## 6.4 Using Calendar

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

### To schedule an appointment

1. On the Home screen, click **Start > Calendar**.
2. Click **Menu > New Appointment**.
3. Enter information about the appointment.
4. To schedule an all-day event, in **End time**, select **All day event**.
5. Click **Done**.

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

### To make an appointment recurring

1. On the Home screen, click **Start > Calendar**.
2. Click the appointment and click **Edit**.
3. Scroll to **Occurs** and click one of the recurrence options.
4. Click **Done**.

### To view your schedule

You can view your schedule in three different views: Month, Week, and Agenda.

1. On the Home screen, click **Start > Calendar**.
2. Do one of the following:
  - Click **Menu > Month View**.
  - Click **Menu > Week View**.
  - Click **Menu > Go to Today**, or from **Week** or **Month** view, click **Menu > Agenda View**.

**To send a calendar appointment**

You can send a calendar appointment to another phone over MMS.

1. On the Home screen, click **Start > Calendar**.
2. Select an appointment, then click **Menu > Send as vCalendar**.
3. Enter the recipient in the **To** line of the MMS message, then click **Send**.

## 6.5 Using Contacts

Contacts is your address book and information storage for the people and businesses you communicate with. Store phone numbers, e-mail addresses, home addresses, and any other information that relates to a contact, such as a birthday or an anniversary date. You can also add a picture or assign a ring tone to a contact.

From the contact list, you can quickly communicate with people. Click a contact in the list for a summary of contact information. From there, you can call or send a message.

If you use Outlook on your PC, you can synchronize contacts between your phone and PC.

**To create a new contact on your phone**

1. On the Home screen, click **Start > Contacts > New**.
2. Enter information for the new contact.
3. Click **Done**.

**Tips**

- If someone who isn't in your list of contacts calls you or sends you a message, you can quickly create a contact from Call History or from the message by clicking **Menu > Save to Contacts**.
- In the list of contact information, you'll see where you can add a picture or assign a ring tone to a contact.

**To create a new contact on your SIM card**


1. On the Home screen, click **Start > Contacts > Menu > New SIM Contact**.
2. Enter information for the new contact then click **Done**.


**Tip** To manage your SIM card contacts, use SIM Manager. To access SIM Manager, click **Start > SIM Manager**. SIM Manager lets you copy contacts from **Contacts** to the SIM card, add SIM card contents to **Contacts**, show SIM card storage information, edit and delete SIM card contacts and more.

### To view and edit a contact information

1. On the Home screen, click **Start > Contacts**.
2. Click the contact whose information you want to view.
3. To edit the information, click **Menu > Edit**.
4. When finished making changes, click **Done**.

### To call a contact from the contact list

1. On the Home screen, click **Start > Contacts**.
2. Click the contact to call.
3. Press TALK (). The contact's default phone number is dialed.

**Tip** To call a phone number other than the default, click the contact, scroll to the number you want to dial, and press TALK (.

### To send an e-mail to a contact

1. On the Home screen, click **Start > Contacts**.
2. Click the contact.
3. Click the e-mail address.
4. Select the e-mail account to use.
5. Enter a subject, compose your message, and click **Send**.

### To send a text message to a contact

1. On the Home screen, click **Start > Contacts**.
2. Click the contact, and click **Menu > Send Text Message**.
3. Compose your message, and click **Send**.

### To find a contact

1. On the Home screen, click **Start > Contacts**.
2. If you are not in Name view, click **Menu > View By > Name**.
3. Do one of the following:

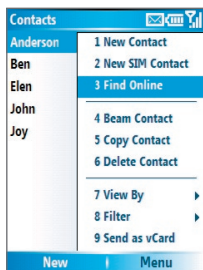
- Begin entering a name or phone number of the contact until the contact is displayed. When you press a number, such as 5, you find names that begin with J, K, and L, as well as phone numbers that start with 5. The next number you press continues to narrow the search. For example, to find "John", you would press 5, 6, 4, and then 6.
- Filter the list by categories. In the contact list, click **Menu** > **Filter**. Then click a category you've assigned to a contact. To show all contacts again, select **All Contacts**.
- Locate the contact by company. In the contact list, click **Menu** > **View By**, and click **Company**. Click the company to see the contacts who work there.

### To find a contact online

In addition to having contacts on your phone, you can also access contact information from your organization's Global Address List (GAL). GAL is the address book that contains all user, group, and distribution list e-mail addresses of your organization, and it is stored on the Exchange Server. By having direct online access to it from your phone, it is quick and easy for you to plan a meeting and e-mail a meeting request immediately to anyone in your organization.

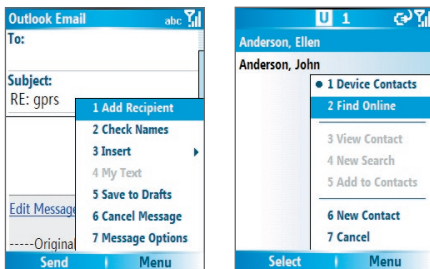
Access to the GAL is available if your organization is running Microsoft Exchange Server 2003 SP2 and you have completed your first synchronization with the Exchange Server.

1. Synchronize with Exchange Server if you have never done so.
2. Click **Start** > **Contacts** > **Menu** > **View By** > **Name**.
3. Do either of the following:
  - In Contacts, click **Menu** > **Find Online**.

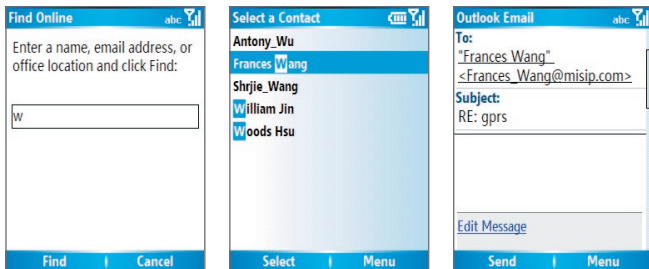




- In a new message, in the **To** box, click **Menu > Add Recipient> Menu > Find Online**.



- Enter the contact name and click **Find**. Select one contact in the result list and click **Select**.



## Notes

- Your phone 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 GAL: First name, Last name, E-mail name, Display name, E-mail address, or Office location.

### To filter the contact list

Contacts that have categories assigned are displayed in the list when you filter by category.

1. On the Home screen, click **Start > Contacts**.
2. Click **Menu > Filter**.
3. Click a category to filter.

### To assign a ring tone to a contact

To easily identify who is calling you, you can assign a custom ring tone to each contact.

1. On the Home screen, click **Start > Contacts**.
2. Click the contact you want to assign a ring tone to.
3. Click **Menu > Edit**.
4. Click **Custom ring tone** and select the ring tone you want.
5. Click **Done**.

### To assign a picture to a contact

1. On the Home screen, click **Start > Contacts**.
2. Click the contact.
3. Click **Menu > Edit**.
4. Click **Picture**.
5. Click the picture you want to add.

### To send a contact's details

You can send a contact card to another phone over MMS.

1. On the Home screen, click **Start > Contacts**.
2. Select a contact, then click **Menu > Send as vCard**.
3. Enter the recipient in **To** of the MMS message, then click **Send**.

## 6.6 Using 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. On the Home screen, click **Start > Tasks**.
2. In the **Enter new task here** box, enter the task name and press ENTER.

### Notes

- You can synchronize information on your phone with your PC to keep your task list up to date in both locations.
- If you create a new task with a reminder on your PC and then synchronize tasks with your phone, the reminder will play at the time that was set on your PC.

### To delete a task

1. On the Home screen, click **Start > Tasks**.
2. Select the task, and click **Menu > Delete Task**.

### To locate a task

1. On the Home screen, click **Start > Tasks**.
2. In the task list, do one of the following:
  - To sort the list, click **Menu > Sort by**, and click a sort option.
  - To filter the list by category, click **Menu > Filter**, and click the category you want displayed.

**Note** Categories appear only in tasks that are synchronized with your PC.

**Tip** To filter your tasks further, click **Active Tasks** or **Completed Tasks**.

### To mark a task as completed

1. On the Home screen, click **Start > Tasks**.
2. Select the task, and click **Complete**.

## 6.7 Using Voice Notes

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

### To create a voice note

1. On the Home screen, click **Start > Voice Notes**.
2. Hold the phone's microphone near your mouth.
3. Click **Record** and say your voice note.
4. Click **Stop** to stop recording a voice note.

### To delete a voice note

1. On the Home screen, click **Start > Voice Notes**.
2. Select the voice note to delete.
3. Click **Menu > Delete**.
4. Click **Yes**.

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

### To listen to a voice note

1. On the Home screen, click **Start > Voice Notes**.
2. Select the voice note to play, and press ENTER.

**Tip** To stop listening to the voice note, click **Stop** while the voice note is playing.

### To use a voice note as a ring tone

1. On the Home screen, click **Start > Voice Notes**.
2. Select the voice note, and click **Menu > Set As Ringtone**.

# Chapter 7

## Experiencing Multimedia

**7.1 Using Camera and Video Recorder**

**7.2 Using Pictures & Videos**

**7.3 Using Windows Media Player**

**7.4 Using MIDlet Manager**



## 7.1 Using Camera and Video Recorder

Taking photos and shooting video clips with audio are easy with your phone's built-in camera.

### To open Camera or Video Recorder

Do any of the following:

- On the Home screen, click **Start > Camera**.
- On the Home screen, click **Start > Video Recorder**.
- Press the CAMERA button on your phone.

### To exit Camera or Video Recorder

- Press END ()

### To change the camera that you are using

- Click **Menu > Capture Settings > Camera**.

### To capture photos and video clips

You can do one of the following to capture photos and video clips:

- Click **Capture** on the Camera screen to take a photo. Also, click **Capture** to start recording video then click **Stop** to end the recording.
- Press the CAMERA button once to take a still image or to start recording a video clip. When capturing video, you can also stop video recording by pressing this button







## Capture modes

The Camera program lets you capture pictures and video clips by using various built-in modes. By default, Camera opens in the capture mode you last accessed. The title bar displays the active capture mode.

### To change the capture mode

- On the Camera screen, click **Menu > Capture Mode** and select a capture mode from the list.

The available capture modes are as follows:

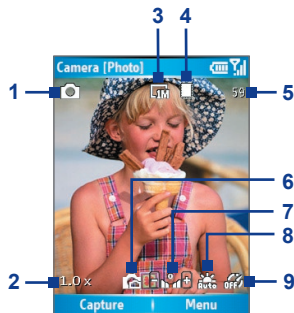
Capture mode	Function
Photo (  )	Captures standard still images.
Video (  )	Captures video clips, with or without audio.
MMS Video (  )	Captures video clips suitable for sending via MMS.
Contacts Picture (  )	Captures a still image suitable for assigning as an identification photo to a contact.
Picture Theme (  )	Captures still images and places them within frames.
Sports (  )	Captures a sequence of still images (3 or 5 frames) automatically for a short duration at a defined frequency.



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

Capture type	Format
Still Image	JPEG
Video	Motion-JPEG AVI (.avi) MPEG-4 (.mp4) H.263 baseline (.3gp)
MMS Video	MPEG-4 (.mp4) H.263 baseline (.3gp)






## Camera mode icons and indicators

### The Camera [Photo] screen



- 1 Capture mode.** Indicates the current capture mode.
- 2 Zoom-ratio.** Indicates the current zoom ratio. Press NAVIGATION up or down to increase or decrease the zoom level.
- 3 Resolution.** Indicates the current image or video size based on the resolution you chose. For the list of available resolutions, see “Use zooming.”
- 4 Storage.** Indicates where the captured images and video clips will be saved. The  icon indicates the phone's main memory; the  icon indicates the storage card.
- 5 Remaining Information Indicator.** In Photo, Contacts Picture, Picture Theme, and Sports, this shows the remaining, available shots of pictures that you can take 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.
- 6 Camera.** Indicates which camera (Main, 2nd or 2nd Flip) is currently being used.



- 7 Exposure Value (EV).** Allows you to adjust the exposure value from -2 EV to +2 EV (increments of 0.5) by pressing NAVIGATION left or right.
- 8 White Balance.** Indicates the current white balance setting.  
 : Auto;  : Daylight;  : Night;  : Incandescent;  : Fluorescent.
- 9 Self-timer.** Indicates the current self-timer setting while capturing images. Click **Menu > Self-timer** to select the self-timer setting (**Off**, **2 seconds**, or **10 seconds**).

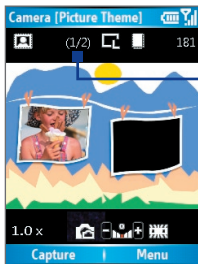
### The Camera [Video] screen



Recording Status

The Recording Status indicator shows a red, blinking indicator while video recording is in progress.

### The Camera [Picture Theme] screen



Template Status

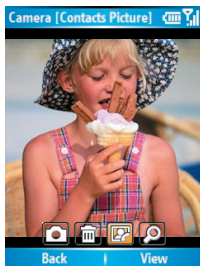
The Template Status displays the current and total number of photos that can be taken using the selected template.

## The Review screen

After capturing image or recording video, the Review screen appears allowing you to decide the action for the image/video.



Photo, Video, MMS  
Video and Picture  
Theme modes



Contacts Picture mode



Sports mode

Icon	Function
	<b>Back.</b> Click to go back to Camera screen.
	<b>Delete.</b> Click to remove the captured image or video clip.
	<b>Send.</b> Click to send the captured image or video clip to someone via e-mail or MMS.
	<b>View.</b> Click to switch to Pictures & Videos to show the still image, or switch to Windows Media Player to play back the video clip.
	<b>Assign to Contacts.</b> Click to associate the photo to a selected contact.

**Note** After you have taken photos in **Sports** mode, the total number of consecutive shots is shown at the lower right corner of the Review screen. Press NAVIGATION up or down to browse through the sequence of photos.

## Use Still Image capture modes

While using Still Image capture modes such as Photo, Contacts Picture, Picture Theme, and Sports, you can capture a single still image by clicking **Capture**. You can also press the ENTER button on the NAVIGATION control to capture the image. Still images are captured and saved in the JPEG format.

While capturing an image in the Picture Theme mode, you can select a preset template. To browse and choose from different templates, click **Menu > Template** on the Camera screen to select a template. Depending on the chosen template, one or more photos may need to be taken for the template.

## Use Video capture mode

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


Before you capture a video clip, click **Menu > Advanced > Capture Format** on the Camera screen to specify the file format. You can set the encoding format to Motion-JPEG AVI, MPEG-4, or H.263. You can also specify the recording limit in terms of time or file size by clicking **Menu > Advanced > Recording Limit**. To change the video resolution, click **Menu > Capture Settings > Resolution**.

## Use MMS Video capture mode

While using the MMS Video capture mode, click **Capture** on the Camera screen to start capturing a video clip. You can also press the ENTER button to start recording a video clip (with audio if desired). To stop recording, click **Stop** or press the ENTER button again.

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

You can specify the encoding format to be either H.263 or MPEG-4 by clicking **Menu > Advanced > Capture Format**; however, the ideal format for MMS is H.263 (3GP).

After you capture the video file, click the Send icon (  ) to send the file through MMS.



## Use zooming

Before capturing a still image or a video clip, you can first 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, press NAVIGATION up on your phone to zoom in, NAVIGATION down to zoom out. Alternatively, click **Menu > Zoom** to select a zoom ratio.

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

Please 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:

- 1.0x = normal size (no zooming)
- 2.0x = double enlargement
- 4.0x = four times enlargement
- 8.0x = eight times enlargement

Capture mode	Resolution	Zoom range
Video and MMS Video	Small (128 x 96)	1.0x to 2.0x
	Medium (176 x 144) (default)	1.0x to 2.0x
Photo	Small (160 x 120)	1.0x to 8.0x
	Medium (320 x 240)	1.0x to 4.0x
	Large (640 x 480)	1.0x to 2.0x
	1M (1280 x 1024) (default)	1.0x to 2.0x
Photo (2nd Camera/2nd Camera Flip)	Small (176 x 144)	1.0x to 2.0x
	CIF (352 x 288) (default)	1.0x to 2.0x
Contacts Picture	Small (240 x 266)	1.0x to 4.0x*
	Medium (240 x 320)	1.0x to 4.0x
	Large (480 x 640) (default)	1.0x to 2.0x
Picture Theme	Determined by the current template	Depends on the size of the currently loaded template
Sports	Small (160 x 120)	1.0x to 8.0x
	Medium (320 x 240)	1.0x to 4.0x
	Large (640 x 480) (default)	1.0x to 2.0x
Sports (2nd Camera/2nd Camera Flip)	Small (176 x 144)	1.0x to 2.0x
	CIF (352 x 288) (default)	1.0x to 2.0x

**Note** For Contacts Picture, the Medium and Large resolutions are not available when using 2nd Camera or 2nd Camera Flip.

## Use the Camera Menu

Clicking **Menu** on the Camera screen allows you to select various capture modes and customize various settings for each mode. The following table provides a list of the general options in the Menu.

Option	Allows you to
<b>Self-timer</b>	Select the Self-timer option for capturing images: <b>Off</b> , <b>2 seconds</b> , or <b>10 seconds</b> . Selecting <b>2 seconds</b> or <b>10 seconds</b> delays the capturing by the specified time after you press ENTER.
<b>Template</b>	Only available in Picture Theme mode. Allows you to select a template to use for Picture Theme mode.

Option	Allows you to
<b>Sports Settings</b>	Only available in Sports mode. The <b>Capture Speed</b> option determines the interval between shots. The <b>Snapshots</b> option determines how many shots to take with a single press of ENTER.
<b>Zoom</b>	Zoom in or zoom out the image or video to be captured.
<b>White Balance</b>	Specify the white balance setting such as <b>Auto</b> , <b>Daylight</b> , <b>Night</b> , <b>Incandescent</b> , and <b>Fluorescent</b> to suit the lighting environment. When using <b>2nd camera</b> or <b>2nd camera (Flip)</b> , only <b>Auto</b> is available.
<b>Capture Settings</b>	Choose the resolution to use, set the storage location (phone or storage card) for captured files, and select which camera to use. When capturing images, you can also set the Quality and enable Time Stamp.
<b>Capture Mode</b>	Switch between different capture modes such as Photo, Video, Contacts Picture, and more. For details, see "Capture modes" earlier in this chapter.
<b>Effect</b>	Choose a special effect such as <b>Grayscale</b> , <b>Sepia</b> , or <b>Cool</b> to apply to your photos or video clips. This is not available when using <b>2nd Camera</b> or <b>2nd Camera (Flip)</b> .
<b>Advanced</b>	Access more settings that lets you customize the Camera or Video Recorder functions. For details, see the following section "Advanced settings of the Camera Menu."
<b>Pictures &amp; Videos</b>	Open the Pictures & Videos program.

### Advanced settings of the Camera Menu

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

- **Full Screen (Still images only).** Set the Camera screen display according to your preference. Select **On** to use the full screen when taking photos. The resulting image will cover a wider area of your scene than what you see on-screen. Select **Off** to frame your subject or scene exactly as what you see on-screen.
- **Record with Audio (Video and MMS Video only).** 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.
- **Controls.** Select **Show** or **Hide** to display or hide the indicators on the Camera screen.
- **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, select **Reset**.
- **Recording Limit (Video and MMS Video only).** Specify the maximum time or file size for recording.
- **Template Folder (Picture Theme 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**. Press NAVIGATION up or down to select the property, and press NAVIGATION left or right to change the value.

**Note** **Adjust** is not available when using **2nd Camera/2nd Camera (Flip)**.

## 7.2 Using Pictures & Videos

The Pictures & Videos program allows you to view pictures and play GIF animation files and video clips on your phone. You can also view the pictures as a slide show, beam them, send them via a messaging program, edit them, or set them as the background on the Home Screen.

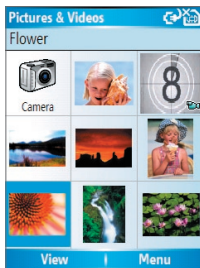
### To copy a picture or video clip to your phone

You can copy pictures from your PC and view them on your phone.

- Copy the pictures and video files from your PC or a storage card to the My Pictures folder on your phone.

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

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



Pictures & Videos

### To view pictures

1. On the Home screen, click **Start > Pictures & Videos**.

The images in the My Pictures folder appear as thumbnails by default.

2. Select a picture and click **View**.




If you cannot find a picture in the default My Pictures folder, click **Menu > Folders > My Device** to go to other folders.

### To play GIF animation files

1. On the Home screen, click **Start > Pictures & Videos**.
2. Select the GIF animation file and click **View**.

### To play videos

1. On the Home screen, click **Start > Pictures & Videos**.  
Video files appear as thumbnails with a  icon.
2. Select a video and click **Play** to play it with the built-in Windows Media Player.

### To view slide shows

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

1. On the Home screen, click **Start > Pictures & Videos**.
2. Click **Menu > Play Slide Show**.

**Note** You can specify how pictures are scaled to optimize their display in a slide show. Click **Menu > Options**, select **Slide Show**, and choose either **Portrait pictures** or **Landscape pictures**. You can even set your phone to play a screensaver on its monitor while your phone is connected to the PC and idle for 2 minutes.

### To start the camera from Pictures & Videos

- On the My Pictures folder, click **Camera**.

### To delete a picture or video clip

- Select a picture or video clip on the Pictures & Videos screen, and click **Menu > Delete**. Click **Yes** to confirm the deletion.

### To edit a picture

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

1. On the Home screen, click **Start > Pictures & Videos**.
2. Select the picture you want to edit, click **View**.
3. Click **Menu > Edit**, and do any of the following:

- To rotate a picture 90 degrees, click **Menu > Rotate**.
  - To crop a picture, click **Menu > Crop**. Then, drag the cursor to position it on the first corner of the cropping area, and click **Next**. Select the second corner with the area to crop and click **Finish**, or click **Previous** to go back to the previous screen and select again.
  - To auto-adjust the brightness and contrast levels of a picture, click **Menu > Auto Correct**.
4. Click **Menu > Save As** to save the edited picture with a new name or at a new location.

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

### To set a picture as the Home screen background

1. On the Home screen, click **Start > Pictures & Videos**.
2. Select the picture you want to set as the background.
3. Click **View**.
4. Click **Menu > Use as Home Screen**.
5. Select the display area and click **Next**.
6. Adjust the transparency. Select a higher percentage for a more transparent picture, or a lower percentage for a more opaque picture.
7. Click **Finish**.

### To send pictures and video clips via e-mail

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

1. First, set up Messaging to send and receive messages.
2. On the Pictures & Videos screen, select the item you want to send.
3. Click **Menu > Send**.
4. On the Messaging screen, select **Outlook E-mail** then click **Select**.

A new message is created with the item attached.

5. Enter the recipient name and subject, and click **Send**.

The message will be sent the next time you synchronize your phone.

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

### To beam pictures

You can beam a picture to your friends or family by using infrared technology.

1. On the Home screen, click **Start > Pictures & Videos**.
2. Select the picture you want to beam.
3. Click **Menu > Beam**.
4. Select the device to which you want to send the picture.
5. Click **Beam**.

### To assign pictures to contacts

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

1. On the Home screen, click **Start > Pictures & Videos**.
2. Select the picture you want to assign to a contact.
3. Click **Menu > Save to Contact**.
4. Select the contact, and click **Select**.

### To customize picture options

1. On the Home screen, click **Start > Pictures & Videos**.
2. Select the picture for which you want to configure advanced options.
3. Click **Menu > Options**.
4. Select **General** or **Slide Show** on the Options screen then press ENTER.

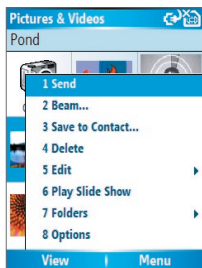
Selecting **General** on the Options screen allows you to do the following:

- Decrease the picture size so that photos can be sent faster via e-mail.

- Set the direction to rotate a picture.

Selecting **Slide Show** on the Options screen allows you to do the following:

- Configure the view settings during slide shows.
- Activate screensaver.



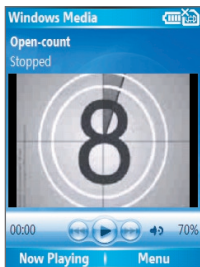
Pictures & Videos Menu

## 7.3 Using Windows Media Player

You can use Microsoft® Windows Media™ Player Mobile for Smartphone to play digital audio and video files that are stored on your phone or on a network, such as on a Web site.

In this documentation, the version of Windows Media Player for Windows-based PCs is called the “desktop Player” and the version for Smartphone is called the “device Player.”

These are the following file formats that are supported by this version of Windows Media Player Mobile.



Formats Supported	File Extensions
<b>Video</b>	
• Windows Media Video	.wmv, .asf
• MPEG4 Simple Profile	.mp4
• H.263	.3gp
• Motion JPEG	.avi
<b>Audio</b>	
• Windows Media Audio	.wma
• MP3	.mp3
• MIDI	.mid, .midi, .rmi
• AMR Narrow Band	.amr
• AMR Wide Band	.awb
• AAC	.m4a

## About the controls

By default, these hardware buttons are assigned to Windows Media Player Mobile functions.

To	Press
Play or pause	ENTER
Skip to a previous file	NAVIGATION left
Skip to the next file	NAVIGATION right
Increase the volume	NAVIGATION up
Decrease the volume	NAVIGATION down
Turn the sound on or off quickly (mute)	#
Switch to full screen during video playback	0
Change rating	*
Fast-forward a file	NAVIGATION right (hold)
Rewind a file	NAVIGATION left (hold)

## About the screens and menus

Windows Media Player 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 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 is a **Menu**. The commands on this menu vary, depending upon which screen you are viewing.

## Playback screen menu

When you are viewing the Playback screen, these options appear on the **Menu**.

Option	Allows you to
<b>Library</b>	Display the Library screen so you can choose a file to play.
<b>Play/Pause</b>	Start or pause playback.
<b>Stop</b>	Stop playback.
<b>Shuffle/ Repeat &gt; Shuffle</b>	Play the items in the Now Playing playlist in random order.
<b>Shuffle/ Repeat &gt; Repeat</b>	Play the items in the Now Playing playlist repeatedly.
<b>Full Screen</b>	When a video is playing, display it by using the entire screen.
<b>Options</b>	Adjust various Windows Media Player Mobile options, including network, skin, and hardware button options.
<b>Properties</b>	Display information about the currently playing file.
<b>About</b>	Display information about Windows Media Player Mobile, such as the version number.

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## Now Playing screen menu

When you are viewing the Now Playing screen, these options appear on the **Menu**.

Option	Allows you to
<b>Library</b>	Display the Library screen so you can choose a file to play.
<b>Move Up</b>	Move the selected item up in the playlist order.
<b>Move Down</b>	Move the selected item down in the playlist order.
<b>Remove from Playlist</b>	Remove the selected item from the playlist.
<b>Shuffle/Repeat &gt; Shuffle</b>	Play the items in the Now Playing playlist in a random order.
<b>Shuffle/Repeat &gt; Repeat</b>	Play the items in the Now Playing playlist repeatedly.
<b>Clear Now Playing</b>	Remove all items from the Now Playing playlist.
<b>Error Details</b>	View error information about the selected item (an exclamation mark appears before the item name if error details are available).
<b>Properties</b>	View information about the selected file.

## Library screen menu

When you are viewing the Library screen, these options appear on the **Menu**.

Option	Allows you to
<b>Queue Up</b>	Add the selected item to the end of the current (Now Playing) playlist.
<b>Delete from Library</b>	Delete the selected item from the library.
<b>Now Playing</b>	Display the Now Playing playlist.
<b>Library &gt; library name</b>	Switch between libraries, such as between <b>My Device</b> and <b>Storage Card</b> .
<b>Update Library</b>	Add new items to the library by searching your phone or storage card.
<b>Open File</b>	Find and play files that are stored on your phone or storage card but that are not in the library.
<b>Open URL</b>	Play a file on a network, such as the Internet.
<b>Properties</b>	View information about the selected file.



## 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 phone. Files that have licenses associated with them are called “*protected files*.”

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

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

## Copy files to your phone

Use the **Sync** feature in the desktop version of Windows Media Player to synchronize (copy) digital media files from your PC to your phone. Using **Sync** ensures that protected files and album art (for skins) are copied to your phone correctly.

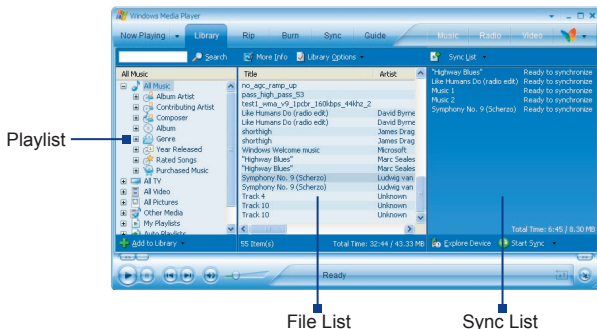
### To synchronize content to your phone automatically

1. On your PC, start Windows Media Player.
2. Insert a 32-MB or larger storage card into your phone, and then connect your phone to your PC.
3. If you have not set up synchronization between your phone and PC, the Device Setup Wizard opens on your PC.
4. 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.
5. Click **Finish**.
6. The files begin synchronizing to your phone. The next time

you connect your phone 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 phone

1. If you have not set up synchronization between your phone and PC, follow steps 1 to 5 in “To synchronize content to your phone automatically”, except that you should click **Manual** synchronization.
2. To choose files to synchronize and copy to your phone, 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.

## Notes

- Always use the desktop version of Windows Media Player 10 to synchronize (copy) files to your phone. For example, do not use Windows Explorer to drag and drop files from your computer to your phone.
- Always synchronize files to a storage card that is inserted into your phone. Do not synchronize to a storage card that is inserted into a storage card reader.
- Audio files copy faster if the desktop Player is configured to automatically set the quality level for audio files copied to your phone. For more information, see the desktop Player Help.
- The desktop version of Windows Media Player 10 is only available for computers running Windows XP. If you are not running Windows XP on your PC, use the **Copy to CD or Device** feature of Windows Media Player 9 Series to copy your audio files and video files to your phone.
- The desktop version of Windows Media Player 9 Series is not as full-featured as the desktop version of Windows Media Player 10. For example, the desktop version of Windows Media Player 9 Series does not support automatic synchronization, synchronization of playlists, synchronization of album art, or synchronization of TV shows recorded by computers running Windows XP Media Center Edition.
- For more information about the **Copy to CD or Device** feature, start the desktop version of Windows Media Player 9 Series, and then press F1.

## Play media

### To play media on your phone

Use the library to find and play songs, videos, and playlists that are stored on your phone or removable storage card.

1. If you are not on the Library screen, click **Menu > Library**.
2. If necessary, on the Library screen, click **Menu > Library**, and then select the library that you want to 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 phone or storage card. Tap **Menu > Update Library** to

manually update the library list.

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

**Note** To play a file that is stored on your phone but is not in a library, on the Library screen, click **Menu > Open File**. Select the item that you want to play (such as a file or a folder), and click **Play**.

### To play media 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, click **Menu > Library**.
2. Click **Menu > Open URL**.
3. Do one of the following:
  - In **URL**, enter a network address.
  - In **History**, select a URL that you have previously used.

**Note** To play media on a network, your phone must be connected to a network.

## Change Player appearance

You can change the appearance of the Playback screen by choosing a new skin.

1. If you are not on the Playback screen, press BACK to display the Playback screen.
2. Click **Menu > Options > Skins**.
3. To select a skin, press NAVIGATION left or right until you find the skin that you want to use.
4. Click **Done**.

### Notes

- To download new skins, see the WMplugins.com site (<http://www.wmplugins.com>).
- After downloading a skin to your computer and unzipping it if necessary, use ActiveSync to copy the .skn and .bmp files to your

phone (such as to the location, **Smartphone\Program Files\Windows Media Player**, on the phone). To ensure that skins appear on the **Skins** tab, do not store skin files in the **Windows** folder on your phone.

## Troubleshooting

If you encounter any difficulty while using Windows Media Player Mobile, a number of resources are available on the Web to help you troubleshoot the issue, including a list of frequently asked questions (FAQ).

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>).

## 7.4 Using MIDlet Manager

MIDlets are Java-based applications that can run on mobile devices. Your phone supports Java 2 Edition, J2ME. The MIDlet Manager allows you to download Java-based applications, such as games and tools that are specifically designed for mobile devices. The Java MIDlet Manager gives you the flexibility of installing and managing additional J2ME applications from the Internet.

### To install MIDlets from the Internet

1. On the Home screen, click **Start** > **MIDlet Manager**.  
The Java Apps screen appears.
2. Click **Menu** > **Install** > **Browse** to open Internet Explorer Mobile.
3. Locate the MIDlet/MIDlet suite while connected to the Internet.
4. Select the MIDlet/MIDlet suite to download.
5. To start installing the MIDlet/MIDlet suite, click **Yes**.
6. Click **Done** to confirm the installation.

### Notes

- You can cancel the installation at any time.
- Downloaded MIDlets will be automatically saved in the My Documents folder.

### To install MIDlets from a PC

You can install the MIDlets/MIDlet suites on your phone from a PC using the USB sync cable, infrared, or Bluetooth. MIDlets copied to your phone using infrared, Bluetooth, or e-mail attachments are automatically saved in the My Documents folder. However, you can copy the MIDlet file(s) from a PC to any of the following temporary folders on your phone from where MIDlet Manager can install them.

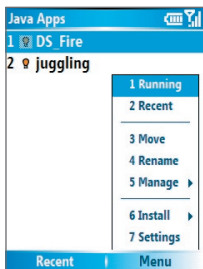
- Device memory: ../Smartphone/My Documents/My MIDlets
- Storage card: ../Smartphone/Storage Card

**Note** If the My MIDlets folder does not exist in My Documents, you can create one with the same folder name. However, a folder named Storage Card automatically appears after you insert a storage card into your phone.

### To install MIDlets from a local folder

1. On the Home screen, click **Start > MIDlet Manager**.  
The Java Apps screen appears.
2. Click **Menu > Install > Local** to install the MIDlets currently saved in the My MIDlets folder.  
Click **Recent** to view the MIDlets or a MIDlet suite used recently on your phone.
3. Select the MIDlet/MIDlet suite from the list by using the NAVIGATION control.
4. Click **Menu > Install**.
5. Click **Yes** to install.
6. Click **Done** to confirm the installation.

**Note** To remove the MIDlet files from the default folder, click **Menu > Delete**.



MIDlet Manager

### To run MIDlets on your phone

1. On the Home screen, click **Start > MIDlet Manager**.  
The Java Apps screen appears.
2. Select a MIDlet from the list by using the NAVIGATION control.
3. Press the ENTER button to run the MIDlet.

### To view the MIDlets currently running

- On the MIDlet Manager Java Apps screen, click **Menu > Running**.

**Note** To view the most recently used MIDlets, click **Menu > Recent**.

### To stop running a MIDlet

1. On the Home screen, click **Start > MIDlet Manager**.  
The Java Apps screen appears.
2. Click **Menu > Running**.
3. Select a MIDlet on the Running MIDlets screen, and click **Menu > Stop**.

**Note** To stop all MIDlets currently running on your phone, click **Menu > Stop All**.

## Manage MIDlets

You can organize the MIDlets into groups and define custom groups. You can also change the default display settings for a MIDlet.

### To customize the display settings

1. On the Home screen, click **Start > MIDlet Manager**.  
The Java Apps screen appears.
2. Click **Menu > Settings**.
3. On the Settings screen, select Display Options by using the NAVIGATION control.
4. Press the ENTER button.
5. In **View Options**, choose to display the MIDlets either in groups or all at once.
6. In **Sort Options**, choose to sort by Name or by Size.
7. Click **Done**.

### To change the display name of a MIDlet

1. On the Home screen, click **Start > MIDlet Manager**.  
The Java Apps screen appears.
2. Select a MIDlet by using the NAVIGATION control.
3. Click **Menu > Rename**.
4. Enter a new name for the MIDlet.
5. Click **Done**.

**Note** You cannot change the name of a MIDlet suite.

### To uninstall a MIDlet

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

1. On the Java Apps screen, select the MIDlet/MIDlet suite by using the NAVIGATION control.
2. Click **Menu > Manage > Uninstall**.
3. Click **OK** to confirm.



**Note** You cannot uninstall a single MIDlet from a MIDlet suite; you must uninstall the complete MIDlet suite.

### To check storage space

1. On the Home screen, click **Start > MIDlet Manager**.
2. Select a MIDlet by using the NAVIGATION control.
3. On the Java Apps screen, click **Menu > Settings**.
4. On the Settings screen, select **System Info** by using the NAVIGATION control.
5. Press the ENTER button to see how much phone storage space is used by the MIDlet.
6. Click **OK**.

### To select a network type

1. On the Java Apps screen, click **Menu > Settings**.
2. Select **Choose Network Type** by using the NAVIGATION control.
3. Choose a network type from the list.
4. Click **Select**.

### To configure MIDlet security

You can adjust security settings for each MIDlet/MIDlet suite.

1. On the Java Apps screen, select a MIDlet by using the NAVIGATION control.
2. Click **Menu > Manage > Security**.
3. Configure the security options, such as **Local Connectivity**, **App Auto Run**, **Messaging**, and so on.

Please note that some features may not be available for all MIDlets/MIDlet suites. Following are the security options that you can set for a running MIDlet/MIDlet suite.

Security Option	Description
<b>Net Access</b>	Determines whether a MIDlet/MIDlet suite can access the Internet.
<b>Local Connectivity</b>	Enables a MIDlet/MIDlet suite to access services, such as infrared and Bluetooth.
<b>App Auto Run</b>	Enables a MIDlet/MIDlet suite to run at specified times, or any time.
<b>Messaging</b>	Determines whether a MIDlet/MIDlet suite can send and/or receive text (SMS, Short Message Service) messages.
<b>Multimedia Recording</b>	Enables a MIDlet/MIDlet suite to record sounds and images.

## Error messages

The following is a list of error messages that you may receive while managing and using MIDlets/MIDlet suites on your phone.

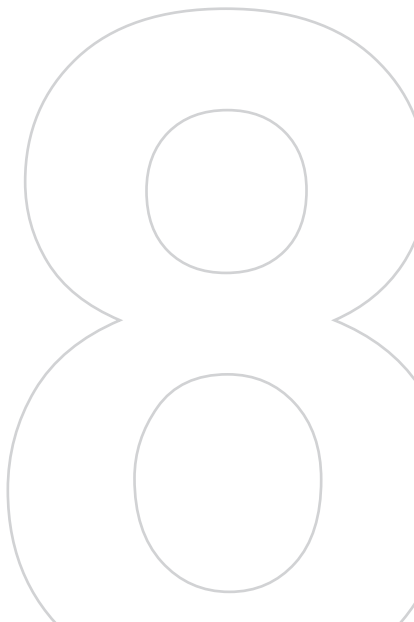
Error Message	Description
<b>Either RAM shortage, or insufficient space on the file system.</b>	There is insufficient memory on your phone.
<b>Network out.</b>	There is no network connection available.
<b>The jar size does not match that specified in the jad.</b>	The installation information provided by the MIDlet manufacturer is inaccurate.
<b>The jar manifest does not match the jad.</b>	The installation information provided by the MIDlet manufacturer is inaccurate.
<b>Invalid Java application descriptor (jad).</b>	There is a problem with the installation file provided by the MIDlet manufacturer.
<b>Invalid Java archive (jar).</b>	There is a problem with the installation file provided by the MIDlet manufacturer.
<b>This Java application is not compatible with this device.</b>	One or more features required by this MIDlet is not available on your phone.

# Chapter 8

## Using Other Applications

**8.1 Using ClearVue Suite**

**8.2 Using Speed Dial**



## 8.1 Using ClearVue Suite

ClearVue Suite consists of four applications that let you view various types of documents such as Word documents, Powerpoint presentation files, Excel worksheets, and Acrobat PDF files. The ClearVue Suite consists of the following:

- ClearVue Presentation (displays PowerPoint files)
- ClearVue Worksheet (displays Excel files)
- ClearVue Document (displays Word files)
- ClearVue PDF (displays Acrobat/PDF files)

**Note** Not all fonts, colors, features, and versions of the desktop versions of PowerPoint, Word, Excel, and Acrobat are supported, but ClearVue will show a close approximation.

### ClearVue Presentation

ClearVue Presentation is a complete PowerPoint viewer solution with the ability to view native PowerPoint presentations. With ClearVue Presentation, you will see the original presentation complete with animations and transitions.

**Note** ClearVue Presentation only supports Powerpoint files created in Office 97 or later versions.

#### To open a presentation file

1. Click **File** > **Open** then locate the .ppt or .pps file.
2. Click **Open**.

#### To change the view

ClearVue Presentation lets you view your presentation file in 3 modes. Click **View** then select either **Normal**, **Slide Sorter** or **Notes**.

- **Normal**. Displays a large single image of the current slide and below it, small thumbnail images of other slides in the presentation.
- **Slide Sorter**. Slides will be displayed as small thumbnails.
- **Notes**. Lets you to view any slide notes that might have been stored in the original presentation.

## To change the zoom ratio of the view mode

- Click **View > Scale**.

**Note** This only applies to **Normal** and **Notes** view modes.

## To set up your presentation show

- Click **View > Set Up Show**.
- In **Advance Slides**, select how you want to advance to the next slide.
  - Manually**. Press NAVIGATION right to advance through the slides.
  - Use timings**. Uses the timing information stored in the PowerPoint file to determine when to display the next slide.
  - Automatically**. Automatically advances to the next slide based on the time set in **after \_\_ secs**.

**Tip** Click **Loop continuously** to loop the presentation. You need to manually stop the presentation. To learn how to stop the presentation, see "To view your presentation."

- Select the **Orientation** when viewing the presentation.
- Click **Black slide at end** to add a blank slide after the last slide in the presentation.

## To set up a custom show

- Click **View > Custom Show**.
- In **Show List**, select the slide you want to edit then click **Menu**. In the Menu options, you can choose to either add, delete, hide, move up or move down the slide.

**Tip** Click **Reset** to revert the presentation back to its original state.

## To view your presentation

- Click **View > View Show**.

**Tip** While viewing the presentation, press the # key to open a menu when you can go to the next slide or previous slide of your presentation, go to a specific slide or end the presentation.

## ClearVue Worksheet

ClearVue Worksheet gives you the ability to view native Excel worksheets. It also lets you view embedded charts and chart sheets as well.

### Notes

- ClearVue Worksheet only supports Excel files created in Office 97 or later versions.
- Excel macros that might be in the original file will not run when loaded.
- Three-dimensional charts will be mapped into a two-dimensional space.
- Worksheet does not display images selected as a background in an AutoShape.
- Worksheet cannot open files that have been password protected using the "Save Options" password setting in Microsoft Excel.

### To open a worksheet file

1. Click **File** > **Open** then locate the **.xls** file.
2. Click **Open**.

### To change the zoom ratio

- Click **View** then select a magnification.

### To view another sheet in your worksheet file

- Click **View** > **Sheet** then select the sheet you want to view.

## ClearVue Document

ClearVue Document lets you view Word documents, complete with tables, images, columns, bulleted lists, and more.

**Note** ClearVue Document only supports Word files created in Office 97 or later versions.

### To open a document file

1. Click **File** > **Open** then locate the **.doc** or **.rtf** file.
2. Click **Open**.

After you open a file in ClearVue Document, it initially displays using the default **Page Width** setting. This means that the page is sized to fit within the available area of your Smartphone's screen.

Click **Zoom** to change the magnification as desired, then scroll through and view the document using the NAVIGATION buttons on your Smartphone.

## ClearVue PDF

ClearVue PDF lets you view PDF files on your Smartphone.

### To open a PDF file

1. Click **File > Open** then locate the **.pdf** file.
2. Click **Open**.

After you open a file in ClearVue PDF, it initially displays using the default **Page Width** setting. This means that the page is sized to fit within the available area of your Smartphone's screen.

Click **Zoom** to change the magnification as desired, then scroll through and view the PDF document using the NAVIGATION buttons on your Smartphone.

## 8.2 Using Speed Dial

You can create speed dial entries for frequently-called numbers or frequently-accessed items so you can dial a number or access an item by pressing a single key.

### To create a speed dial entry for a contact

1. On the Home screen, click **Start > Contacts**.
2. Select a contact.
3. Press ENTER to view the contact details.
4. Select the desired phone number and click **Menu > Add to Speed Dial**.
5. Enter appropriate details in Name, Value, and Keypad assignment .
6. Click **Done**. To quit at any time during this process, click **Menu > Cancel**.

**Note** Speed dials can be created only for numbers that are stored in Contacts.

### To create a speed dial entry for an item

1. On the Home screen, click **Start** then choose (just highlight) the item you want.
2. Click **Menu > Add Speed Dial**.
3. Enter details in Name, Value, and Keypad assignment.
4. Click **Done**. To quit at any time during this process, click **Menu > Cancel**.

**Note** The first speed dial location is generally reserved for your voice mail. Speed Dial uses the next available location by default. If you want to place a number in a location that is already used, the new number replaces the existing number.

### To retrieve a voice mail message

- On the Home screen, press and hold 1 to access your voice mailbox, and follow the prompts to retrieve your messages.



### To make a call or launch a program using Speed Dial

- If you have assigned a speed dial (for example, the second location) to a contact or a program in Speed Dial, you can simply press and hold the 2 key on the Phone keypad to dial the contact's number or launch the program.

### To delete a speed dial entry

1. On the Home screen, click **Start > Speed Dial**.
2. Select the desired entry and click **Menu > Delete**.

### Create voice tags

With Speed Dial, you can also record a voice tag for a phone number, e-mail address, or Web page address that is stored in Contacts. Then, when you say the voice tag, your phone automatically dials the associated phone number, opens an e-mail message using the associated address, or goes to the associated Web page.

### To create a voice tag for a phone number, e-mail address, or URL in Contacts

1. On the Home screen, click **Start > Contacts**.
2. Select the desired contact, and press ENTER to open the contact card.
3. Select the item to which you want to assign a voice tag.
4. Click **Menu > Add Voice Tag**.
5. After a “beep” sound, begin recording the voice tag (preferably one easy-to-recognize word).
6. When the voice tag is successfully trained, the phone will play back the voice tag. Click **OK**.
7. Enter appropriate details in Name, Value, and Keypad assignment. Click **Done** to save the new voice tag. To quit at any time during this process, click **Menu > Cancel**.

### To create a voice tag for a program

To create a voice tag for a program, for example, Calendar, do the following:

1. On the Home screen, click **Start > Calendar**. (Do not press ENTER when Calendar is selected.)
2. Click **Menu > Add Voice Tag**.
3. After the message/beep, say "Calendar."
4. When the voice tag is successfully trained, the phone will play back the voice tag. Click **OK**.
5. Enter appropriate details in Name, Value, and Keypad assignment. Click **Done** to save the new voice tag. To quit at any time during this process, click **Menu > Cancel**.

### To edit, delete, and play voice tags

- On the Home screen, click **Start > Speed Dial**.
- Select the desired voice tag from the list.
- Do any of the following:
  - To change the voice tag, click **Menu > Edit**, make changes, and click **Done**.
  - To delete the voice tag, click **Menu > Delete**.

To play back an existing voice tag at any time, click **Menu > Play Voice Tag**.

### To make a call or launch a program using the voice tag

1. Press the VOICE RECOGNITION button on the right side of the phone.
2. After a "beep" sound, say the recorded voice tag that you have assigned to the phone number you want to call or the program you want to launch. The phone plays back the voice tag and then dials or launches the associated program.

**Tip** If the phone cannot recognize your voice tag, please try again and speak clearly and reduce the surrounding noise.

# Appendix

**A.1 Regulatory Notices**

**A.2 PC Requirement to Run ActiveSync 4.x**

**A.3 Specifications**

## A.1 Regulatory Notices

### Regulatory Agency IDs

For regulatory identification purposes, your product is assigned a model number of BREE100.

To ensure continued reliable and safe operation of your device, use only the accessories listed below with your BREE100.

The Battery Pack has been assigned a model number of BREE160.

This product is intended for use with a certified Class 2 Limited Power Source, rated 5 Volts DC, maximum 1 Amp power supply unit.

### European Union Notice

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

Compliance with these directives implies conformity to the following European Norms:

- EN 60950-1 (IEC 60950-1) – Safety of Information Technology Equipment.
- ETSI EN 300 328 Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; data transmission equipment operating in the 2.4 GHz ISM band and using spread spectrum modulation techniques.
- ETSI EN 301 511 – Global System for Mobile communications (GSM); Harmonized standard for mobile stations in the GSM 900 and DCS 1800 bands covering essential requirements under article 3.2 of the R&TTE directive (1999/5/EC).
- ETSI EN 301 489-1 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements.
- ETSI EN 301 489-7 – Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) for radio equipment and services; Part 7: Specific conditions

for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS).

- ETSI EN 301 489-17 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems.
- ETSI EN 301 489-24 Electromagnetic compatibility and radio spectrum matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 24: Specific conditions for IMT- 2000 CDMA direct spread (UTRA) for mobile and portable (UE) radio and ancillary equipment.
- ETSI EN 301 908-1 &-2 Electromagnetic compatibility and radio spectrum matters (ERM); Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 1 : Harmonized EN for IMT-2000, introduction and common requirements, covering essential requirements of article 3.2 of the R&TTE Directive.
- EN 50360 - 2001 – Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300 MHz ~ 3 GHz).

**CE 0889**

**This equipment may be operated in:**

AT	BE	BG	CH	CY	CZ	DE	DK
EE	ES	FI	FR	GB	GR	HU	IE
IT	IS	LI	LT	LU	LV	MT	NL
NO	PL	PT	RO	SE	SI	SK	TR

## 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.

### 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.

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. Normal conditions only ensure the radiative performance and safety of the interference. As with other mobile radio transmitting equipment, users are advised that for satisfactory operation of the equipment and for the safety of personnel, it is recommended that no part of the human body be allowed to come too close to the antenna during operation of the equipment.

## SAR Information

- 1.03 mW/g @10g (CE)

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

### **Other tips and cautions**

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

## 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 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 centre, 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.x

To connect your device to the PC, you have to install Microsoft® ActiveSync® program on your PC. ActiveSync 4.x is included in the Installation CD, 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

<b>Processor/Chipset</b>	<ul style="list-style-type: none"> <li>Qualcomm MSM6275</li> <li>Samsung 2442M stacked CPU with 300 MHz</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>ROM-Nand Flash: 128 MB (Standard)</li> <li>RAM: 64 MB SDRAM (Standard)</li> </ul>
<b>Operating system</b>	Microsoft Windows Mobile™ Version 5.0 for Smartphone

### Display

<b>Type</b>	2.2" TFT LCD with white LED back light
<b>Resolution</b>	240 x 320 dots resolution at 64K Colors

### GSM/GPRS/EDGE Quad-band module

<b>GSM 900</b>	880 ~ 915, 925 ~ 960 MHz
<b>GSM 1800</b>	1710 ~ 1785, 1805 ~ 1880 MHz
<b>GSM 1900</b>	1850 ~ 1910, 1930 ~ 1990 MHz
<b>UMTS 2100</b>	1920 ~ 1980, 2110 ~ 2170 MHz

### Camera module

<b>Type</b>	<ul style="list-style-type: none"> <li>Main Camera: 1.3 Mega Pixels CMOS</li> <li>Second Camera: CIF CMOS</li> </ul>
<b>Resolution</b>	<ul style="list-style-type: none"> <li>SXGA: 1280 x 1024</li> <li>VGA: 640 x 480</li> <li>QVGA: 320 x 240</li> <li>QQVGA: 160 x 120</li> </ul>

Connection	
<b>Infrared</b>	IrDA SIR
<b>I/O port</b>	Standard 5-pin Mini-USB port for signals (for USB and power) and headphones
<b>Bluetooth</b>	V 2.0 without EDR, Class 2 transmit power

Audio	
<b>Microphone/speaker</b>	Built-in microphone and 3-in-1 speaker
<b>Headphone</b>	AAC/AMR/WMA/WAV/MP3 codec

Physical	
<b>Dimension</b>	112.4 mm(L) x 49 mm(W) x 14.8 mm(T)
<b>Weight</b>	120g with battery pack

Controls and lights	
<b>Navigation</b>	5-way navigation pad/Enter button
<b>Buttons</b>	<ul style="list-style-type: none"> <li>• Power on/off (top)</li> <li>• Video Telephony button</li> <li>• Jog Wheel (left side)</li> <li>• Camera (right side)</li> <li>• Voice Recorder button (right side)</li> <li>• Left Softkey</li> <li>• Home screen</li> <li>• Back to previous screen</li> <li>• Right Softkey</li> <li>• Contact Key</li> <li>• Messaging key</li> <li>• Talk (start call/answer call)</li> <li>• End call/Lock keypad</li> <li>• 12-button dialing keypad</li> </ul>

**Controls and lights****Lights**

- Event notification
  - Charge status
  - UMTS/GSM/GPRS signals
  - Bluetooth connection
- 

**Expansion slot****Micro SD slot**Micro SD memory card

---

**Power supply****Battery**

Li-Ion Polymer 1190 mAh removable, rechargeable battery

**Talk time**

Up to 5 hours

**Standby**

Up to 220 hours

**AC adapter**

- AC input/frequency: 100 ~ 240 AC, 50/60Hz
- DC output: 5V and 1A

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