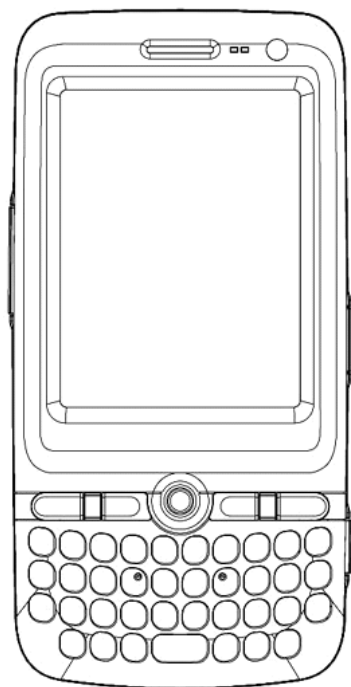


SP510

User Guidewith Windows Mobile[®] 6.1



SP510

User Guide for Windows Mobile® 6.1

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Federal Communications Commission (FCC) Statement

15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b)

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

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

Operation is subject to the following two conditions:

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device.

FCC RF Radiation Exposure Statement:

For body worn operation, this phone has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the handset a minimum of 1.5 cm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines."

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第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

「減少電磁波影響，請妥適使用」

Welcome

Thank you for making SP510 your choice for your mobile computing and communication needs. Your new sleek SP510 is a fully integrated EDA-mobile phone device. It combines the power of high-performance EDA applications for organizing personal and work-related information with the connectivity function of a mobile phone. The device also supports High-Speed-Pack-Access (HSPA), Enhanced-Data-rates-for-GSM-Evolution (EDGE) and General Packet Radio Services (GPRS) for on-the-go Internet access, as well as a high quality Global Positioning System (GPS) solution to meet your travel needs. Selected SP510 models have a built-in camera for taking pictures and bar code data capture. All these features make your SP510 the ideal digital companion for both work and play.

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1 First Things First

- Package contents
- Preparing to use your SP510

Package contents

Your SP510 comes packed in a cardboard box. Carefully unpack the box and remove the contents. If any of the following items are missing or damaged, contact your dealer immediately.

- SP510 Enterprise Digital Assistant
- Stylus
- Standard life battery
- AC adapter (with four region-specific clip plugs)
- USB sync cable
- SP510 Quick Start Guide
- SP510 Regulatory Guide

Preparing to use your SP510

Perform the following easy setup tasks to begin using your device:

- 1 Install the battery pack.
- 2 Charge your device.
- 3 Install ActiveSync 4.5 or higher on your computer.
- 4 Start the SP510.
- 5 Create an ActiveSync partnership between your device and your computer.

Installing the battery pack

Your SP510 uses a high-density removable and rechargeable 1410 mAh lithium polymer/standard life battery. See “Battery problem” on page 239 for more information on how to conserve power consumption to make your battery last longer.

NOTE:

WARNING! There is a risk of fire and burns if the battery is handled improperly. DO NOT disassemble, crush, puncture, short external contacts, or dispose the battery in fire or water. DO NOT attempt to open or service the battery. Dispose of used batteries according to local recycling guidelines in your area.



1 First Things First

Preparing to use your SP510

To install the battery pack:

Align the tabs on the battery pack with the grooves on the rear side of the device, and then insert the battery pack in place. The battery pack locks to the chassis with an audible click.

To uninstall the battery pack:

- 1 If the device is on, press the **Power** button  to turn off the device.
Wait for five seconds to allow the device to completely power off.
- 2 Slide the battery latch toward the **unlock** icon  to release the battery pack from the chassis (1).
- 3 Completely detach the battery pack from the device (2).

Charging the SP510

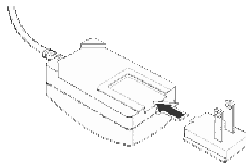
Initial charging of a standard life battery takes about four hours. The extended life battery type requires at least eight hours. After the initial charging, charge your device everyday to restore the battery to full capacity. Charge your device using the AC adapter cable, see instructions below.

While waiting for the initial charging to complete, install Microsoft® ActiveSync® 4.2 or higher on your computer to prepare for the initial synchronization procedure. Refer to the next section for instructions.

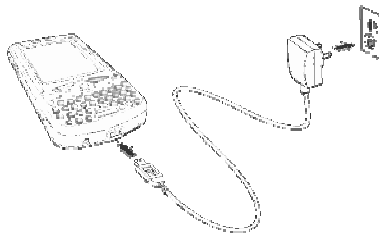
To charge your device:

NOTE: Use the clip plug applicable in your country.

- 1 Slide the replaceable clip plug into the AC adapter until it locks into place with an audible click.



- 2 Plug the AC adapter cable into the mini USB connector on bottom of the device.
- 3 Connect the AC adapter cable into an electrical outlet.



The LED indicator on the right side of the touch screen lights up orange to signify that AC connection is made.

If the battery level becomes low in the course of normal use, a **status** icon appears on the device screen indicating low or depleted battery status (see "Status icons" on page 18 for more information). In both cases, perform an ActiveSync operation to

back up your data, and then recharge your device as soon as possible.

If the battery level reaches low status, the device enters *sleep mode*; if the battery level reaches very low status, the device enters *deep sleep mode*. In this case, you have about 72 hours to recharge your device after which you risk losing all data on your device's internal memory.

Installing Microsoft ActiveSync

ActiveSync is already installed on your SP510; you only need to install it on your computer.

System installation requirements

- Supported operating systems:
 - Windows 2000 Service Pack 4
 - Windows Server® 2003 Service Pack 1
 - Windows Server 2003 Service Pack 1 for Itanium-based Systems
 - Windows Server 2003, Standard x64 Edition
 - Windows XP® Media Center Edition
 - Windows XP Professional x64 Edition
 - Windows XP Service Pack 1
 - Windows XP Service Pack 2
 - Windows XP Tablet PC Edition
- Microsoft Outlook® 2000, Microsoft Outlook XP, or Microsoft Outlook® 2003 (recommended) messaging and collaboration clients required for Microsoft Outlook Office Mobile synchronization
- Microsoft Office 2000, Microsoft Office XP or Microsoft Office 2003 for Microsoft Office Mobile® synchronization
- Microsoft Internet Explorer 6.0 or later for Internet Explorer Mobile favorites synchronization
- Microsoft Systems Management Server 2.0
- Hard disk drive with 7 MB of available hard disk space (actual requirements may vary based on selected features and user's current system configuration)
- USB port, Bluetooth, or infrared connection

1 First Things First

Preparing to use your SP510

To install Microsoft ActiveSync on your computer:

- 1 Close all open programs, including those that run at startup, and disable any virus-scanning software.
- 2 Download the ActiveSync setup software from the Microsoft ActiveSync Download page at <http://www.microsoft.com>.
- 3 On the download prompt, click **Open**.
- 4 Follow all on-screen instructions to complete installation.

To confirm you've successfully installed ActiveSync, open ActiveSync, then click **Help > About Microsoft ActiveSync**.

For detailed information about using ActiveSync on your computer, start ActiveSync on your computer, click **Help > Microsoft ActiveSync Help**.

Starting the SP510

After you have initially charged your device, the device is ready for use. You can now start your device where you will calibrate the display, learn basic stylus usage, and set up the system date and time.

To start your SP510:

NOTE: After pressing the power button, wait four seconds for the device to power on before pressing the power button again.

- 1 Turn on your device by pressing the **Power** button  located on the right side of the touch screen.



- 2 Follow the on-screen Welcome Screen Wizard instructions.
- 3 After the device setup, create an ActiveSync partnership to synchronize information between your computer and/or server and your SP510.

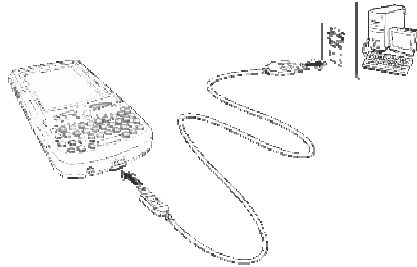
Creating an ActiveSync partnership

After installing ActiveSync on your computer and completing the device setup, you can now set up a partnership between your SP510 (first time connection only) and your computer and/or a server with the help of the New Partnership setup wizard. This wizard will help you:

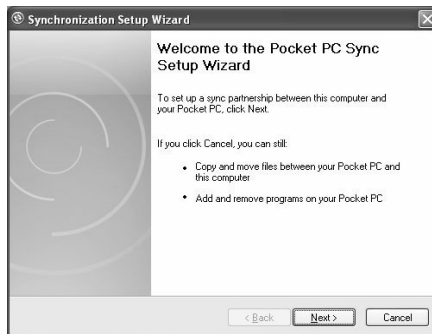
- Set up a partnership so you can synchronize information between your device and your computer
- Customize your synchronization settings

To create an ActiveSync partnership:

- 1 Connect the USB sync cable into the connector on the bottom of your device, then plug the USB sync cable into a USB port on your computer.



The Synchronization Setup Wizard automatically starts on your computer screen.



NOTE: If the wizard does not automatically appear, launch ActiveSync on your computer by clicking on its icon from **Start > Programs**.


- 2 Follow the on-screen instructions.

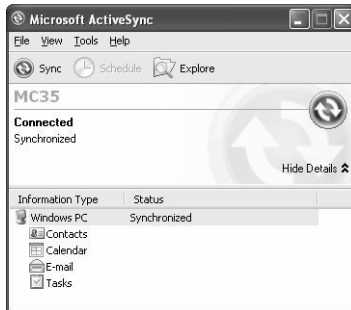
To prevent synchronization problems, select the "Synchronize directly with a server running Microsoft Exchange Server..." option only if you are certain that your company is running Microsoft Exchange Server with Exchange ActiveSync and you know the server address and logon credentials. For more information, contact your corporate network administrator or service provider.

By default, ActiveSync only synchronize information for Contacts, Calendar, Messaging (Outlook E-Mail), Tasks, and Favorites (for Internet Explorer Mobile). If you decide to synchronize other files, for example, Word documents, ActiveSync need to convert these files. Converted files may not contain all information found in original file.

1 First Things First

Preparing to use your SP510

- 3 Click **Finish** to close the wizard and start the initial synchronization. During the synchronization process, the ActiveSync window appears on your computer, while the **Data connectivity** icon  appears on your device's navigation bar.



After the initial synchronization, the information types you've selected for synchronization are copied to your device. Disconnect your device from your computer and you're ready to go!

The next time you connect your device, your computer recognizes it automatically. You don't need to set up the partnership again. You can initiate synchronization from your device anytime via several connection options—via USB sync cable, infrared, or Bluetooth connections. For more information on these connection options and other ActiveSync configuration settings, see "Using ActiveSync" on page 31.

2 System Tour

- Features summary
- System tour
- Hardware interface
- Command interface

Features summary

Listed below are the SP510 key features and specifications.

Performance

- Qualcomm® MSM7201A processor with speed of up to 514 MHz
- Integrated ARM11, ARM9 and Qualcomm QDSP™ Technology
- System memory:
 - 128 MB DDR-133 SDRAM for application storage
 - 256 MB Flash Memory
- Microsoft Windows Mobile™ 6.1 Professional software
- Microsoft ActiveSync technology for data synchronization
- Express GPS Connect for Assisted Global Positioning System (AGPS) function
- Available configuration models

| Model | Part number |
|--------------------------|-------------|
| • WAN/PAN/GPS | • SP510-B |
| • WAN/PAN/GPS/Camera | • SP510-C |
| • WAN/PAN/LAN/GPS | • SP510-L |
| • WAN/PAN/LAN/GPS/Camera | • SP510-CL |

Display

- 2.83" transmissive Thin Film Transistor Liquid Crystal Display (TFT LCD)
- Video Graphics Array (VGA) resolution
- 65 K color depth support
- Hardware and software backlight controls
- Microsoft ClearType technology for clearer, crisper font display

Audio

- Embedded HD CODEC with CD-quality stereo output
- Built-in industry-standard 2.5-mm earphone jack
- Built-in speaker and microphone
- Separate volume control for system sounds and phone function
- Playback support for both Windows Media and MIDI sound files for personalizing ring tones and sound notifications

Mobile connectivity

- Phone function
 - Quad-band GSM broadband function (850/900/1800/1900 MHz)
 - HSPA technology (850/1900/2100MHz)
 - Customizable ring tones and ringer options
 - Hardware and software launch options

2 System Tour

Features summary

- Wireless connectivity
 - IrDA standard Infrared (IR) sensor for short-range file exchange
 - Bluetooth for personal area network (PAN) connection
 - High-speed HSPA, EDGE, and GPRS for mobile Internet access

Hardware connectivity

- Micro-USB B connector
- MicroSD/MMC expansion slot
- 2.5-mm earphone jack (four-wire)
- Optional 2.0 megapixel micro/macro dual focus digital camera

Battery pack

- Removable and rechargeable 1410mAh standard life
- Charging time from empty to full capacity:
 - Standard life battery: four hours
- Operation time (in hours)

| | Standard life battery (default) | Extended life battery (optional) |
|---------------------|------------------------------------|-------------------------------------|
| • Talktime | 4 | |
| • Standby | 150 | |
| • MP3 playback | 12 | |
| • WMV playback time | 8 | |
| • GPS usage | 8 | |

Conditions:

- MP3 playback time measured with the backlight off.
- WMV playback time measured with the backlight on and phone off.

NOTE: Length of battery operation depends on power consumption which in turn is based on system resources use. For example, constantly using the backlight or using power-demanding applications shortens the length of battery operation.

Design and ergonomics

- Stylish and sleek design
- Dimensions
 - Length: 121 mm (4.76 inches)
 - Width: 61 mm (2.4 inches)
 - Depth: 14 mm (0.55 inches)
 - Weight (approximately, with battery pack): 150g (5.8 oz.)


- User-friendly navigation features
 - Joystick for one-hand operation
 - Volume button for system volume control
 - Push To Talk button for voice recordings and PTT calls. This button is only available for PTT when PTT service is provided by your carrier. Contact your mobile phone service provider about feature availability. The PTT button can also be set to launch another program. Tap **Start > Settings > Personal > Buttons** to customize this button
 - Camera/Bar Code switch for enabling camera or data capture mode
 - Camera button for launching the Pictures & Videos program






Accessories


- Vehicle kit (includes the auto mounting kit, auto charger and hands-free handset)
- Leather case
- USB charge/sync cable
- Travel charger
- Hands-free headset (earbuds)
- Protective boot
- Stylus 3-pack
- Standard life battery
- Extended life battery

Hardware tour

This section is a descriptive tour of the SP510 hardware interface.

| No. | Component | Description |
|-----|---|--|
| 1 | LCD touch screen | Displays the applications and data stored on your device. It is touch-sensitive and responds to the stylus or your finger. |
| 2 | GSM status/ notification LED | <ul style="list-style-type: none">• Fast flashing green - indicates GSM activity.• Solid green - indicates voice call in progress.• Flashing red - indicates system alarms or reminders. |
| 3 | Volume up/down button (system volume only) | Press the top key to increase volume, press the bottom key to decrease volume. |
| 4 | Camera/Bar Code switch  | Toggles the camera lens mode from bar code data capture to camera mode (for device configurations with camera function only). |
| 5 | Reset button | Press the tip of the stylus into the button to reset your device. |
| 6 | Earphone jack | Connects to an audio line-out device such as earphones or headphones. |
| 7 | Connector | <ul style="list-style-type: none">• For ActiveSync operation - accepts the USB sync cable, which in turn connects to a computer's USB port.• For recharging - accepts the AC adapter cable. |
| 8 | Microphone | Inputs audio into your device during phone calls or when recording voice notes. |
| 9 | Keypad | Key in alphanumeric characters. It also supports special keys for launching phone/messaging functions, as well as for backlight control. |
| 10 | Charging LED | Lights up orange during battery charging. |
| 11 | Phone speaker | Listen to a phone call from here. |

| No. | Component | Description |
|-----|--|--|
| 12 | Main battery | Removable and rechargeable battery pack. |
| 13 | System speaker | Listen to multimedia files here. When the speakerphone is active, sounds are emitted here. |
| 14 | Camera lens (optional) | Take pictures or captures bar code data. |
| 15 | Camera flash (optional) | Provides illumination when taking pictures in low light conditions. |
| 16 | IR port  | Uses infrared technology to transmit and receive data from other IR-enabled devices. |
| 17 | SD/MMC expansion slot  | Supports SD/MMC/SDIO storage cards allowing you to expand the device memory capacity. Install add-on applications or use files stored in it for use with internal applications. You can also use it to back up data from your device. Note: This slot can be set to provide a quick switch between SDMMC or SDIO mode. Tap Start > Settings > System > SDSwitch  to customize this slot. |
| 18 | Stylus | To use the stylus, remove it from its holder and hold it the same way you hold a pen or pencil. |
| 19 | Push To Talk button | Press this button to create voice recordings. See "Recording a message" on page 29 for more information. Note: This button can be set to launch another program. Tap Start > Settings > Personal > Buttons  to customize this button. |
| 20 | Power button  | Press to toggle the device on/off. Note: Wait four seconds after pressing the power button to allow the device to power on/off before pressing the power button again. |

| No. | Component | Description |
|-----|-----------------------|--|
| 21 | Camera button | Press to launch the Pictures & Videos program and take pictures or capture bar code data. Note: In SP510 configuration models with no camera function, this button can be set to launch another program. Tap Start > Settings > Personal > Buttons  to customize this button. |
| 22 | Battery release latch | Unlocks the battery pack from the chassis. |

Hardware interface

This section explains basic hardware procedures and describes the SP510 keypad and function buttons.

Using the touch screen backlight key

Under some lighting conditions, viewing information on the LCD touch screen may be difficult. If this is the case, activate the backlight by tapping the screen or by pressing the Backlight key (not applicable when viewing the Today screen, the Dialer pad will instead be displayed).

Using the stylus

On your device, the stylus replaces the mouse.

- Tap - Touch the screen once with the stylus to open items and select options.
- Drag - Hold the stylus on the screen and drag across the screen to select text and images. Drag in a list to select multiple items.
- Tap and hold - Tap and hold the stylus on an item to see a list of actions available for that item. In the pop-up menu that appears, tap the action you want to perform.


Using the SD/MMC expansion slot

Your device has an expansion slot compatible with a range of SD and MMC storage cards, which are used to back up or transfer files and data or launching applications. The slot also supports SDIO cards for added connectivity options.


IMPORTANT: If you are running an application from an Micro-SD card, make sure to use the SDSwitch application to set the driver mode of the expansion slot to support SDMMC mode and enable the "No Remove On Resume" option. See "To set the SD driver mode to SDMMC mode" on page 232 for instructions. Refer to "SDSwitch" on page 224 for more information about the SDSwitch application.

To insert a storage card:

NOTE: This device comes with a protective plastic card in the card slot. Remove the plastic card from the slot before trying to insert a storage card.

- 1 Remove the battery cover. 
- 2 Remove the SIM card
- 3 Slide the SD/MMC/SDIO card into the slot and push in until it locks into place.
The card is secure when it is not protruding from the base.
- 4 Insert the SIM card and battery cover back into place.

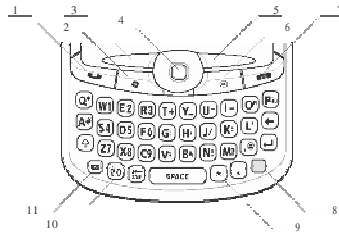
To remove a storage card:




- 1 Hold your device securely, then lift the rubber cover from the expansion slot .
- 2 Push against the top of the card, as if you were pushing it further into the slot, letting the card spring out. An audible system sound indicates that the card has been released.
- 3 Gently remove the card from the slot.
- 4 Close the rubber cover.


Soft buttons and keypad

The SP510 keypad has alphanumeric keys that produce the 26-character alphabet (A-Z, both lowercase and uppercase), numbers (0-9), and assorted special characters. The keypad is color-coded to indicate when the modifier key is pressed to produce a particular character or action. In addition to alphanumeric keys, the keypad also has soft buttons and special keys to launch particular applications, control the screen backlight, and display the on-screen keyboard.

NOTE: The keypad illuminates when a key is pressed and stays lit for approximately five seconds.



| No. | Component | Description |
|-----|---|---|
| 1 | Send button  | <ul style="list-style-type: none">• When there's an incoming call, press to accept the call.• During an ongoing call, press and hold to toggle on/off the speakerphone mode.• From Speed Dial, press to call the currently selected number.• From Call History, press to call the currently selected log item.• In Messaging, press to send a composed e-mail/text message or display options for a received e-mail/text message.• Change between an active call and call that is on hold. |
| 2 | Start button  | Press to display the Start menu. |
| 3 | Left soft button | Press to perform the function indicated on the lower left corner of the display. |
| 4 | Joystick | <ul style="list-style-type: none">• Press the center of the joystick to access menu options and confirm your selection.• Move the joystick in a left, right, up or down direction to navigate through the menu options. |
| 5 | Right soft button | Press to perform the function indicated on the lower right corner of the display. |
| 6 | OK button  | Press to close the active program and display the Today screen. |

| No. | Component | Description |
|-----|---|--|
| 7 | End button  | <ul style="list-style-type: none">• When there's an incoming call, press to reject the call.• During an ongoing call, press to end the call.• When manually dialing a number, press to delete the number input.• Press and hold for at least five seconds to toggle the Flight Mode and Wireless connections on/off. See "Managing wireless connections" on page 55 for more information. |
| 8 | Orange key | <p>Use this key to enable the secondary keypad characters/functions.</p> <ul style="list-style-type: none">• To type a special character, press the Orange key and secondary character key. To illustrate, pressing the Orange key, then J will allow you to type a slash (/).• Press the Orange key twice to lock the keypad in secondary character/action mode. Press the Orange key again to revert to the default keypad mode (alphabetic, lower-case).• Press and hold the Orange key while entering characters or actions. |
| 9 | Star key | Press this key to display the on-screen keyboard. |
| 10 | Backlight/0 key | <ul style="list-style-type: none">• Press this key to adjust the touch screen backlight.• Press the Orange key, then this key to type the zero '0' character.• In the Today screen, press this key to display the Dialer pad. |
| 11 | Messaging key | Press this key to launch the Messaging program. See "Messaging" on page 74 for more information. |

2 System Tour

Hardware interface

Secondary keypad input mode

| Key | Default input | Keystroke combination | |
|------------|---------------|-----------------------|--------------|
| | | Shift or CAPS + Key | Orange + Key |
| Q | q | Q | * |
| W | w | W | 1 |
| E | e | E | 2 |
| R | r | R | 3 |
| T | t | T | + |
| Y | y | Y | - |
| U | u | U | - |
| I | i | I | = |
| O | o | O | |
| "P | p | P | áü |
| A | a | A | # |
| S | s | S | 4 |
| D | d | D | 5 |
| F | f | F | 6 |
| G | g | G | |
| | (H | h | H |
| |) J | j | J |
| | / K | k | K |
| | : L | l | L |
| | ` Z | z | Z |
| | 7 | | |
| X | x | X | 8 |
| C | c | C | 9 |
| V | v | V | % |
| B | b | B | & |
| N | n | N | ! |
| M | m | M | ? |
| , | , | , | @ |
| Brightness | Brightness | Brightness | 0 |

Note: The following keys only have one action: Backspace, Shift, Enter, Messaging, Tab, Space, and Star.

Command interface




This section explains the SP510 command interface.

Today screen



When you turn on your device for the first time each day (or after a preset period of inactivity), you'll see the Today screen. This screen provides an at-a-glance view of the day's important reminders and status.

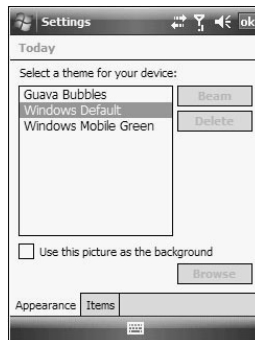


To display the Today screen:

- When viewing another screen, press the **OK** button or tap **☰ > Today** .
- You can also define a preset period of inactivity after which the Today screen is displayed. Follow the steps below.
 - 1 Tap **☰ > Settings** .
 - 2 On the **Personal** tab, tap **Today** .
 - 3 On the **Items** tab, select the "Today timeout" option.
 - 4 Tap the pick list beside the check box to set the period of inactivity.
 - 5 Tap **ok**.

To customize the Today screen:

- 1 Tap **☰ > Settings** .
- 2 On the **Personal** tab, tap **Today** .



- 3 On the **Appearance** tab, tap the "Use this picture as background" check box.

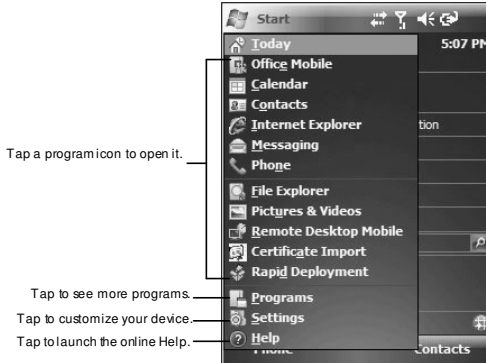
2 System Tour

Command interface

- 4 Tap **Browse** to select a picture from the pictures stored in your device.
- 5 Tap **ok**.

Start menu

The Start menu displays a list of active programs, as well as options to view the Programs, Settings, and Help screens.



Navigation bar

The navigation bar is located on the top of the screen. It shows the status icons for the battery, volume, and data connectivity. Notifications icons for system alarms and reminders are also displayed here.


















Status icons

The table below describes some of the status icons you may see on the navigation bar.



NOTE: See "Phone status icons" on page 111 for more information on the status icons related to the phone function.

| Icon | Description |
|------|------------------|
| | Speaker on |
| | Speaker off |
| | Vibrate mode |
| | Battery level |
| | Battery charging |
| | Battery is low |

| Icon | Description |
|---|--|
|  | Battery power completely depleted |
| Notification ¹ that one or more instant messages were received | |
|  | Notification that one or more e-mail/text messages were received |
|  | Pending alarm |
|  | Data call in progress |
|  | Synchronization error |
|  | <ul style="list-style-type: none"> No data connection. Tap to activate the device's Phone, Bluetooth, or cellular data GPRS connection. Device is not synchronized with a computer |
|  | <ul style="list-style-type: none"> Data connection is active Phone and wireless features, such as Bluetooth or GPRS; on your device are turned on. Device is synchronized with a computer |
|  | Roaming |
|  | GPRS network is available |
|  | GPRS data connection is active |
|  | GPRS signal status |
|  | ActiveSync over GPRS in use |
|  | EDGE (Enhanced Data rates for GSM Evolution) network is available |
|  | EDGE data connection is active |
|  | ActiveSync over EDGE in use |


2 System Tour

Command interface

| Icon | Description |
|---|-----------------|
|  | Bluetooth |
|  | Bluetooth audio |

1 If more notification icons need to be displayed than there is room to display them, the **Notification** icon appears on the command bar. Tap **Notification** to view all notification icons.

Command bar

Use the command bar at the bottom of the screen to perform tasks in programs. The command bar includes menu names, buttons, and the Input Selector button .

- To create a new item in the current program, tap **New**.
- To view a notification or an image file received on your device, tap **View**.
- To see the name of a button, tap and hold the stylus on the button. Drag the stylus off the button so that the command is not carried out.

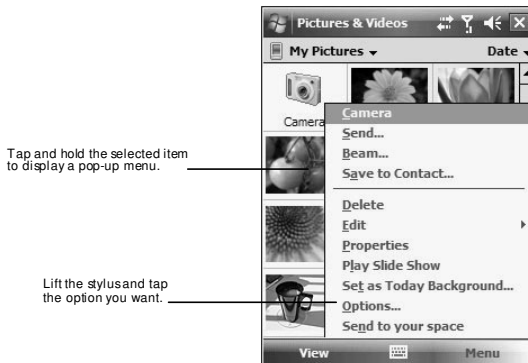


Pop-up menus

With pop-up menus, you can quickly choose an action for an item. For example, you can use the pop-up menu in the contact list to quickly delete a contact, make a copy of a contact, or send an e-mail message to a contact. The actions in the pop-up menu vary from program to program.

To display a pop-up menu:

- 1 Tap and hold the stylus on the item that you want to perform the action on.
- 2 When the menu appears, lift the stylus then:
 - Tap the action you want to perform.
 - Tap anywhere outside the menu to close the menu without performing an action.






Notifications

Your device reminds you in a variety of ways when you have something to do or receive a message. For example, if you've set up an appointment in Calendar, a task with a due date in Tasks, or an alarm in Clock & Alarms, you'll be notified in any of the following ways:

- A message box appears on the screen.
- A sound, which you can specify, is played.

To choose reminder types and sounds for your device:

- 1 Tap  > **Settings** .
- 2 On the Personal tab, tap **Sounds & Notifications** .
- 3 On the Sounds tab, select the kind of events you want to be notified of.
- 4 On the Notifications tab, select the manner of notification you prefer for each event.
- 5 Tap **ok**.

3 Entering Information

- Using the SP510 keypad
- Using the Input Selector
- Writing on the screen
- Drawing on the screen
- Creating a recording
- Using My Text
- Using ActiveSync
- Using wireless communication

Using the SP510 keypad

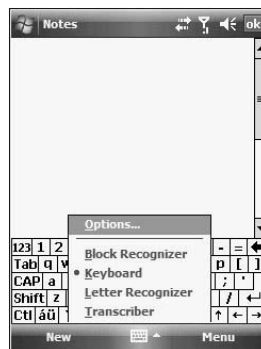
The SP510 keypad has alphanumeric keys that produce the 26-character alphabet (A-Z, both lowercase and uppercase), numbers (0-9), and assorted special characters. In addition to alphanumeric keys, the keypad also has function buttons and special keys that perform specific action. See “Soft buttons and keypad” on page 14 for more information.

Using the Input Selector


Use Input Selector to enter typed text in any program where text entry is possible. You can either tap the keys on an on-screen keyboard or by use any of the handwriting recognition options.

To show or hide the Input Selector:

- Tap the **Input Selector**  arrow, then select an input option.






Word Completion

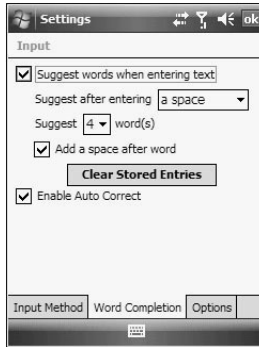
When you use the Input Selector, your device anticipates the word you are typing or writing and displays it above the Input Selector  arrow. When you tap the displayed word, it is inserted into your text at the insertion point. The more you use your device, the more words it learns to anticipate.

3 Entering Information

Using the Input Selector

To define the Word Completion settings:

- 1 Tap  > **Settings** .
- 2 On the **Personal** tab, tap **Input** .
- 3 On the **Word Completion** tab, define the word suggestion settings.




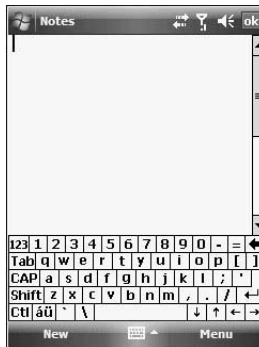
- 4 Tap **ok**.

Keyboard

The soft keyboard allows you to "type" information just like in a regular keyboard by tapping the on-screen keys.

To use the soft keyboard:

- 1 Tap the **Input Selector**  arrow, then select **Keyboard**; or you can press the **Star** key on the SP510 keypad.




- 2 On the soft keyboard that is displayed, tap the keys with your stylus.

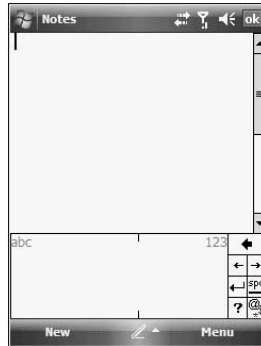
TIP: To make the keys larger, tap the **Input Selector**  arrow, and then **Options**. In the Input method list, select **Keyboard**, and then tap **Large Keys**.

Block Recognizer

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

To use Block Recognizer:

- 1 Tap the **Input Selector**  arrow, then select **Block Recognizer**.




- 2 Write characters, numbers, and symbols in the designated writing area.
 - Enter letters by writing in the abc (left) area of the box
 - Enter numbers by writing in the 123 (right) area of the box.
 - Enter symbols and punctuation by tapping in either area of the box and then writing the desired character.

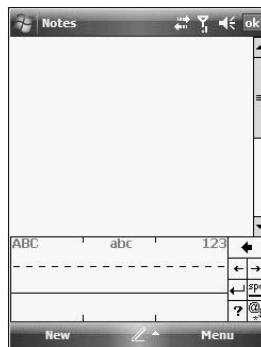
TIP: For help with writing characters with Block Recognizer, tap the **question mark** near the writing area.

Letter Recognizer

With Letter Recognizer, you can write individual letters, numbers, and punctuation and have them converted into typed text.

To use Letter Recognizer:

- 1 Tap the **Input Selector**  arrow, then select **Letter Recognizer**.



3 Entering Information

Using the Input Selector

- 2 Write characters, numbers, and symbols in the designated writing area.
 - Enter capital letters by writing in the ABC (left) area of the box.
 - Enter lower case letters by writing in the abc (middle) area of the box.
 - Enter numbers by writing in the 123 (right) area of the box.
 - Enter punctuation and symbols by tapping in either area of the box and then writing the desired character.

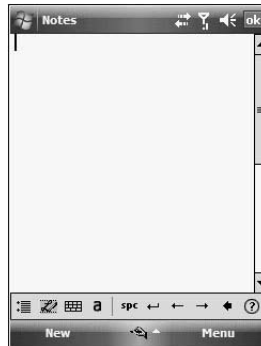
TIP: For help with writing characters with Letter Recognizer, tap the **question mark** near the writing area.

Transcriber

Transcriber allows you to write anywhere on the screen using the stylus just as you would on paper. It recognizes cursive or printed handwriting, or a combination of both.


To use Transcriber:

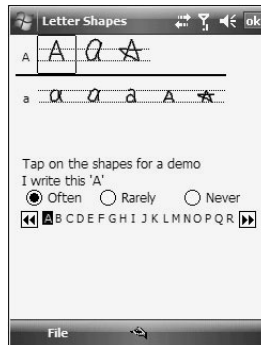
- 1 Tap the **Input Selector**  arrow, then select **Transcriber**.




- 2 Write anywhere on the screen.
- 3 Pause and let transcriber change the written characters to typed text.

To learn how to write a letter in Transcriber:

- 1 Tap the **letter shape** icon  on the toolbar.
- 2 In the screen that appears, select the letter you want to learn about, then tap one of the examples.



To punctuate in Transcriber:

- 1 Tap the **keyboard** icon  on the toolbar.
- 2 Tap the punctuation mark you need.

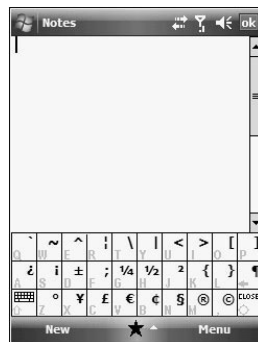
TIP: For specific instructions on using the Transcriber, tap the **question mark** on the toolbar.

Star Key

Use the Star Key option to enter special symbols not available on the regular soft keyboard, such as ¸ and £.

To enter special symbols:

- 1 Tap the **Input Selector**  arrow, then select **Star Key**.



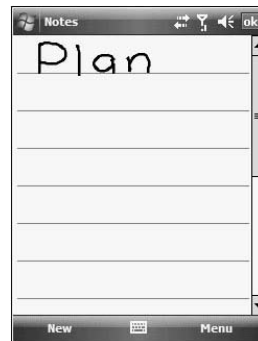
- 2 On the soft keyboard that is displayed, tap the special symbol keys with your stylus.

Writing on the screen

In Notes, you can use your stylus to write directly on the screen. Write the way you do on paper. You can edit and format what you've written and convert the information to text at a later time.

To write on the screen:

- Tap **Menu > Draw**.
This action displays lines on the screen to help you write.



3 Entering Information

Drawing on the screen

To select and edit written text:

If you want to edit or format written text, you must select it first.

- 1 Tap and hold the stylus next to the text you want to select until the insertion point appears.

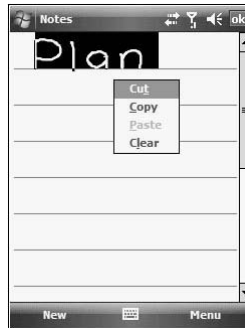
- 2 Without lifting, drag the stylus across the text you want to select.

If you accidentally write on the screen, tap **Menu > Undo Ink**, and try again.

-or-

Tap the text to deselect it.

- 3 You can cut, copy, and paste written text in the same way you work with typed text:
 - (a) Tap and hold the selected words.
 - (b) Tap an editing command on the pop-up menu.

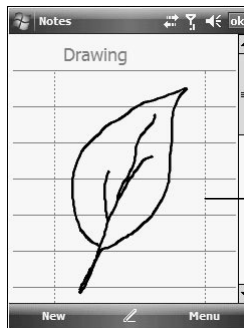


Drawing on the screen

In Notes, you can draw on the screen in the same way that you write on the screen. The difference between writing and drawing on the screen is how you select items and how they can be edited. For example, selected drawings can be resized, while writing cannot.

To create a drawing:

- 1 Draw a leaf on the screen.
A drawing box appears.
- 2 Subsequent strokes in or touching the drawing box become part of the drawing.
Drawings that do not cross three ruled lines are treated as writing.



The drawing box indicates the boundaries of the drawing.

You may want to change the zoom level so that it is easier to work on or view your drawing. Tap **Menu > Zoom** and select a zoom level.

To select a drawing:

If you want to edit or format a drawing, you must select it first.

- Tap and hold the stylus on the drawing until the selection handle appears.
- To select multiple drawings, tap and hold the stylus on the drawing, then drag to select the drawings you want.

To edit a drawing:

- 1 Tap and hold the selected drawing.
- 2 Tap an editing command on the pop-up menu, or tap **Menu > Edit**.

Recording a message

In any program where you can write or draw on the screen, you can also quickly capture thoughts, reminders, and phone numbers by recording a message.

- In Calendar, Tasks, and Contacts, you can include a recording in an item.
- In Notes, you can either create a stand-alone recording, include a recording in a written note, or set a voice recording as your ring tone.
- In Phone, you can create a recording during a call.
- In Messaging, you can attach a recording to an e-mail message.

To create a recording in Notes:

- 1 Tap > **Programs** > **Notes** .

If you want to include the recording in a note, open the note first.

- 2 Tap **Menu > View Recording Toolbar**.
- 3 Position your device's built-in microphone near your mouth or other source of sound.

You can also use the microphone in the stereo headset/single earbud headset bundled with your device to create a recording.

- 4 On the Recording toolbar, tap .
- 5 Tap to stop recording.

The new recording appears in the note list or as an embedded icon.

To play a recording:

- Tap it in the list or tap its icon in the Notes.

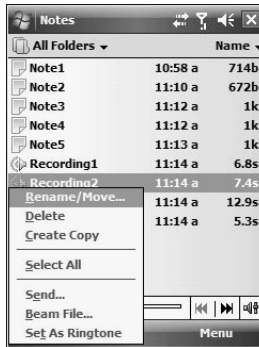


3 Entering Information

Using My Text

To set a voice recording as ringtone:

- Tap and hold a voice recording in Notes, then select **Set As Ringtone** on the pop-up menu.

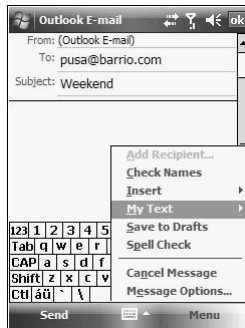


Using My Text

When using Messaging, use My Text to quickly insert preset messages into the text entry area.

To insert a My Text message:

- 1 Tap **Menu > My Text**, then tap a message.



- 2 Tap **ok**.

Using ActiveSync

Use Microsoft ActiveSync to synchronize information between your SP510 and your computer and/or a server so you always have the most up-to-date information wherever you are.

Use ActiveSync to:

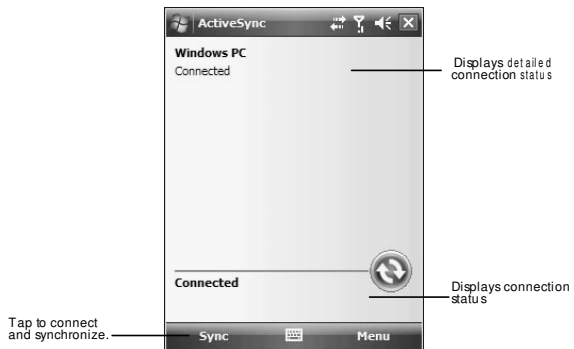
- Keep Microsoft Outlook Mobile data up-to-date by synchronizing your device with the Microsoft Outlook data on, including Outlook contacts' pictures, on your computer.

NOTE: Microsoft Outlook XP or Microsoft Outlook 2003 is required for synchronization of Outlook contacts' pictures.

- Open and edit your Microsoft Office Mobile files in your device and synchronize it back to your computer. Files are automatically converted to the correct format.
- Access and configure Microsoft Windows Media Player music, including album art, and video files on your computer.

IMPORTANT: Windows Media Player files can only be synchronized via ActiveSync USB connection.

- Synchronize Internet Explorer Mobile favorites on your computer.



Synchronizing information with your computer

ActiveSync supports the following connection options between your device and your computer:

- USB connection – using the USB sync cable. This connection is established when you created your device's ActiveSync partnership with your computer.

IMPORTANT: Using an external USB hub when establishing an ActiveSync connection may result in having some connection instabilities such as drops in the connection, or an unresponsive computer. For more information about this issue, see article 817900, "USB port may stop working after removing or inserting USB device" in the Microsoft Knowledge Base at <http://support.microsoft.com>.

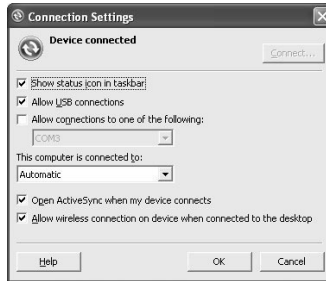
- Infrared connection – This connection is only applicable if your computer has an infrared port. This method is ideal for quickly switching between multiple devices since there are no cables or adapters to change.
- Bluetooth connection – This connection is only applicable if your computer is equipped with a Bluetooth adapter or access point.

3 Entering Information Using ActiveSync

NOTE: To synchronize remotely with your computer, it must be turned on.

To set up a USB ActiveSync connection:

- 1 Perform the steps below on your computer.
 - (a) Open **ActiveSync**.
 - (b) Click **File > Connection Settings**.



- (c) Select the "Allow USB connections" option. (d) Click **OK**.
- 2 Perform the steps below on your device.
 - (a) Tap **Programs > ActiveSync**. (b) Tap **Menu > Connections**.
 - (c) Select the "Synchronize all PCs using this connection" option. (d) Select **USB**.
 - (e) Tap **ok**.
 - 3 Connect your device to your computer using the USB sync cable.

Synchronization is automatically initiated.

To set up a Bluetooth ActiveSync connection:

Before setting up a Bluetooth ActiveSync connection, configure the Bluetooth function of your device. See "Bluetooth connection" on page 45 for more information.

IMPORTANT: For additional security, disable network bridging on the computer (specifically, bridging to a Remote NDIS adapter) before connecting to the computer to pass through to the Internet or a network. For more information on network bridging, see **Windows Help** on your computer.

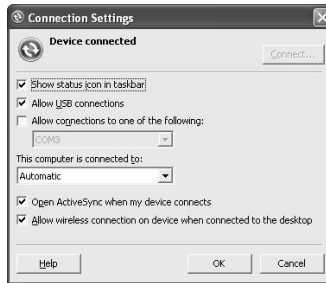
NOTE: The instructions below are for computers that support the Windows XP SP2 or later version operating system.

- 1 Perform the steps below on your computer.
 - (a) Click **Start > Settings > Control Panel**.
 - (b) Double-click **Bluetooth Devices**.
 - (c) On the **Options** tab, select the check box for the "Turn discovery on" and "Allow Bluetooth devices to connect to this computer" options.

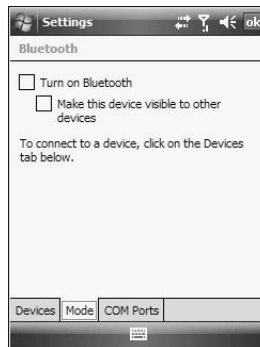


3 Entering Information *Using ActiveSync*

- (d) On the **COM Ports** tab, click **Add**.
- (e) Select the "Incoming (device initiates the connection)" option, then click **OK**.
- (f) Note the number of the COM port that was added. The COM port number must be no higher than 20.
- (g) Click **OK**.
- (h) Open **ActiveSync**.
- (i) Click **File > Connection Settings**.



- (j) On the "Allow connections to one of the following" drop-down list, select the COM port with the number you noted in step f.
- 2 Ensure that the Bluetooth is turned on your computer and discoverable and within close range.
 - 3 Make SP510 discoverable to your PC.
- (a) Tap **Settings** > **Connections** tab > **Bluetooth**.



- (b) On the Mode tab, select the check box for the "Turn on Bluetooth" and "Make this device visible to other devices" check box.
- (c) Tap **ok**.

- 4 Perform the steps below on your device.
 - (a) Tap > **Programs** > **ActiveSync** .
 - (b) Tap **Menu** > **Connect via Bluetooth**.

Synchronization is automatically initiated. The **PC to USB status** icon appears on the lower right corner of the Today screen.

If an Authentication is required, the **Enter Passcode** screen appears, type an alphanumeric passkey (PIN code), then tap **Next**; enter the same passkey on the other device.

The passkey is recommended for enhanced security. Your passkey must be between 1 to 16 alphanumeric characters.

If you do not want to use a passkey, tap **Next**.

Synchronizing with a server

The option to synchronize your device with a server is available when you first create a partnership. Note that this option only synchronizes information for Contacts, Calendar, Messaging (Outlook E-mail), and Tasks.

After your first full synchronization with Microsoft Exchange server, you can schedule automatic synchronization between your device and the server every time an item arrives or is changed in the Microsoft Exchange server.

Enable server synchronization only if you are certain that your company is running Microsoft Exchange Server with Exchange ActiveSync. Before you can begin to synchronize information with a server, you need to request the following information, either from your service provider or from your corporate network administrator:

- Your user name and password in your corporate network
- The name of the Microsoft Exchange server

To set up synchronization with a Microsoft Exchange server:

- 1 Tap > **Programs** > **ActiveSync** .
- 2 Tap **Menu** > **Add Server Source**.



- 3 In the "Server address" box, enter the name of the Microsoft Exchange server to which you want to connect.
Select the "This server requires an encrypted (SSL) connection" option if it is applicable to your corporate network.
- 4 Tap **Next**
- 5 Enter your user name, password, and domain name.
If you intend to enable automatic synchronization, select the "Save password" option.

3 Entering Information *Using ActiveSync*

- 6 Tap **Advanced**.
Define the rules for resolving conflicts if items change on both your device and on the server.
- 7 Tap **Next**
- 8 Select the check box opposite the types of information that you want to synchronize with the server.
- 9 Define the synchronization settings for each information type by tapping the type of information, then tap **Settings**.
- 10 Tap **Finish**.

To set up automatic synchronization with a server:

- 1 Tap **Programs** > **ActiveSync**.
- 2 Tap **Menu** > **Schedule**.
- 3 Perform one or both of the following:
 - Under **Peak times**, select the "When new items arrive" option.
It is more cost-efficient to synchronize on a regular schedule when mail volume is high, instead of when new items arrive.
 - Under **Off-peak times**, select the "When new items arrive" option.
This can be more cost-efficient than synchronizing on a regular schedule when mail volume is low.
- 4 To set the days and hours that makes up your peak and off-peak times, click **Change Times**.
- 5 Tap **ok**.

NOTE: Some devices or versions of Microsoft Exchange Server may also require you to specify a device address to use this feature.

To stop synchronizing with a server:

You can stop synchronizing an information type with a server, and instead synchronize it with your computer.

- 1 Tap **Programs** > **ActiveSync**.
- 2 Tap **Menu** > **Options**.



- 3 Deselect the check box opposite the types of information that you no longer want to synchronize with the server.
- 4 Tap **ok**.

Using ActiveSync to copy files

You can use ActiveSync to exchange information from your device to your computer and vice versa. Changes you make to the information on one location do not affect the information on the other one. If you want to automatically update information on both your device and computer, synchronize the information instead.

You can copy two types of information to your device: files and Pocket Access Windows CE Store information.

The procedure below only applies to copying files. Refer to the ActiveSync Help on your computer for instructions on how to copy Pocket Access Windows CE Store information.

To copy files:

- 1 Connect your device to your computer.
- 2 In ActiveSync on your computer, click **Explore**.
Windows Explorer opens the Mobile Device window for your device.
- 3 Locate the file that you want to copy on your device or computer.
- 4 Perform one of the following:
 - To copy the file to your device, right-click the file and click **Copy**. Place the cursor in the desired folder for your device, right-click, then click **Paste**.
 - To copy the file to your computer, right-click the file and click **Copy**. Place the cursor in the desired folder for your computer, right-click, then click **Paste**.

Synchronization options

Users have the option to customize both the type and volume of information to be synchronized, as well the schedule synchronization should occur.




Remote synchronization schedule

You can control when remote synchronization occurs by selecting a synchronization schedule.

NOTE: When you are in roaming mode, you can synchronize manually to reduce roaming charges, or you can use the mobile schedule you've set.

NOTE: When your device is connected to your computer via the USB sync cable, synchronization occurs automatically—changes made on the computer or device is duplicated immediately.

To set up a wireless synchronization schedule:

- 1 Tap  > **Programs**  > **ActiveSync** .
- 2 Tap **Menu** > **Schedule**.
- 3 Perform one or both of the following:
 - Under **Peak times**, select a shorter interval when you are working or when e-mail volume is high.
 - Under **Off-peak times**, select a longer interval or the "As items arrive" option.
 - Enabling the "Use above settings when roaming" option is more consumptive in terms of battery power and roaming cost compare to manual synchronization.
- 4 Tap **ok**.

3 Entering Information

Using wireless communication

Synchronization type and volume

By default, ActiveSync only synchronize information for Contacts, Calendar, Messaging (Outlook E-Mail), Tasks, and Favorites (for Internet Explorer Mobile). You can select which information types are synchronized. You can also control how much information is synchronized. To illustrate, when synchronizing Calendar, you can set ActiveSync to synchronize appointments within a certain date range and for specific categories only. For example business appointments from the past two weeks only.

To control the volume of information synchronized, see the "Synchronizing ..." section "Using the Windows Mobile Programs" on page 63.

NOTE: ActiveSync does not support synchronizing subfolders in Calendar and Contacts.

To select the type of information to synchronize:

IMPORTANT: If you decide to synchronize files, for example Word documents, ActiveSync needs to convert these files. Converted files may not contain all information found in original file.

- 1 Connect your device to your computer.
- 2 Click **Tools > Options**.
- 3 Select the information type that you want to synchronize.
- 4 If available, click **Settings**, and then select the options you want.
- 5 Repeat steps 2 and 3 for each information type.

ActiveSync errors

Whenever ActiveSync cannot successfully synchronize information, it displays an Error link on the ActiveSync window on your device. Tap the link to display more information about the error that occurred.

Some types of errors can interfere with automatic synchronization. If you suspect that a scheduled automatic synchronization has not occurred, you should try to manually synchronize your information. Successfully completing manual synchronization resets automatic synchronization.

Using wireless communication

You can use any of the wireless communication options listed below to download information to your SP510. For more information on using these options, See "5 Wireless Communications" on page 43 for more information.

- IR port for short-range file exchange
- Bluetooth for PAN connection
- High-speed GPRS for mobile Internet access



4 Managing Information

- Opening programs
- Using Search
- Using File Explorer

Opening programs

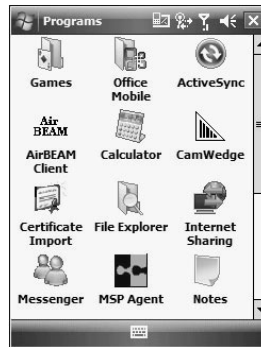
Your SP510 supports a variety of EDA and wireless communication programs to help you manage both personal and work-related information.

To open a program:

- Tap a program name from the  menu. You can select which programs are displayed on the  menu. See “To add a program to the Start menu program using Settings” on page 230 for more information.

NOTE: Some programs have abbreviated labels for check boxes and drop-down lists. To see the full spelling of an abbreviated label, tap and hold the stylus on the label. Drag the stylus off the label so that the command is not carried out.

- Tap  > **Programs** , then tap program icon.



















4 Managing Information
















Opening programs

Program list

The following table contains a list of programs installed on your device.



NOTE: To get detailed information on using any of the applications listed in this section, open the program, tap  > **Help** .

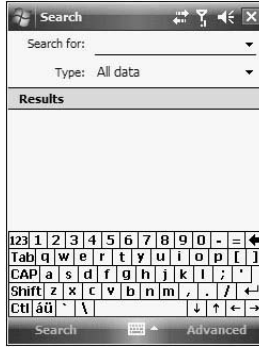
| Icon | Program | Usage |
|---|--------------------------|--|
|  | Calculator | Perform basic arithmetic computations. |
| Device management programs | | |
|  | ActiveSync | Synchronize information between your device and your computer and/or server. |
|  | File Explorer | Manage the files stored on your device, as well as those in a storage card. |
|  | Search | Locate specific files stored on your device, as well as those in a storage card. |
| Microsoft Outlook Mobile programs | | |
|  | Calendar | Keep track of your appointments and create meeting requests. |
|  | Contacts | Keep track of your friends and colleagues. |
|  | Messaging | Send and receive text and e-mail messages. |
|  | Notes | Create handwritten or typed notes, drawings, and voice recordings. |
|  | Tasks | Keep track of your tasks. |
| Microsoft Office Mobile programs | | |
|  | Excel Mobile | Create new workbooks or view and edit Excel workbooks created on your computer. |
|  | PowerPoint Mobile | View slide show presentations. |
|  | Word Mobile | Create new documents or view and edit Word documents created on your computer. |
| Other Microsoft Windows Mobile programs | | |
|  | Internet Explorer Mobile | Browse Internet and intranet sites, and download programs and files to your device. |
|  | Messenger | Send and receive instant messages or voice messages, join multiparty chats, send and receive files, including personal photos. |

| Icon | Program | Usage |
|---|---------------------------------|--|
|  | Windows Live | Subscribe to popular Windows Live services, including Live Mail, Live Messenger, Live Search, and Live Sync. |
|  | Windows Media Player Mobile | Play stored or streaming digital audio and video files. |
| Phone-related programs | | |
|  | Phone | Send and receive local and international calls and text messages. |
|  | SIM Manager | View the contents of your SIM card and transfer it to your contacts list. |
|  | SIM Toolkit | Access the mobile content and data services, such as news, weather, banking, and traveling information; offered by the mobile phone service provider. |
| Wireless communication programs | | |
|  | Express GPS Connect | Use Assisted Global Positioning System (AGPS) technology for your travel/navigation activities. |
|  | Internet Sharing | Configure your device as a modem for connecting to the Internet via a USB or Bluetooth personal area network (PAN) connection. |
|  | Push to Talk | Conduct walkie-talkie style conversations using a mobile phone connection. |
|  | Remote Desktop Mobile | Log onto a Windows NT server type PC and use all of the programs that are available on that PC from your device. |
| Media-related programs | | |
|  | CamWedge | Enable bar code data capture. |
|  | Pictures & Videos | Take pictures and video. |
| Download-related programs | | |
|  | AirBEAM Smart Client | Allows specially designed software packages to be transferred between a host server and your device. |
|  | Certificate Import | Imports digital certificates to protect data on your device or establish secure network connections. |
|  | MSP Agent | Interacts with SMP agents to collect monitoring and asset information to enable the configuration, provisioning, monitoring, and troubleshooting of your device. |
|  | Rapid Deployment Client Version | Facilitates software downloads from a Mobility Services Platform Console FTP server to your device. |

Using Search




The Search function helps you locate a particular file quickly.

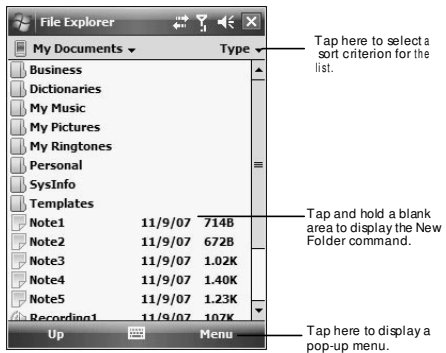
- 1 Tap  > **Programs** 
- 2 Enter the file name of the file you're searching, then select a data type.
- 3 Tap **Search**.



Using File Explorer

Use File Explorer to locate files on your device and to organize these files into folders.

- Tap  > **Programs**  > **File Explorer** .



5 Wireless Communications

- Wireless communication features
- Managing wireless connections
- Getting connected

Wireless communication features

You can use your SP510 to exchange information with other mobile devices and connect to your computer, a network, or the Internet. You have the following connection options:

- Use the infrared sensor or the Bluetooth function to exchange files from another IR- or Bluetooth-enabled device.
- Use a GPRS connection to send and receive e-mail messages by using Messaging; and view Web or WAP pages by using Internet Explorer Mobile. Contact your mobile phone service provider to have your WAP or GPRS connection activated.




Beam function

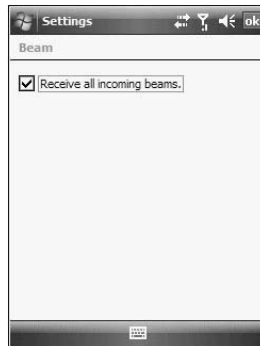
In a Microsoft Windows Mobile program (except Messaging), and Picture & Videos, you can exchange files using either infrared or Bluetooth.

TIP: You can also beam files (not folders) from the File Explorer screen. To do, tap and hold the item you want to send, then tap Beam File from the pop-up menu.

First activate the beam function before exchanging files with another IR- or Bluetooth-enabled device.

To activate the Beam function:

- 1 Tap  > **Settings** .
- 2 On the Connections tab, tap **Beam** .
- 3 Tap "Receive all incoming beams" check box.



- 4 Tap **ok**.

Bluetooth connection


Your device allows you to connect to any Bluetooth-enabled device in your personal area network (PAN). Once connected you can perform the following:

- Send and receive files to another Bluetooth-enabled device.
- Transfer an outgoing call to a Bluetooth-enabled headset. See "To make a call from a Bluetooth-enabled headset" on page 118 for more information.
- Print files to a Bluetooth-enabled printer.

Additional software is required on your device to enable you to print files to a Bluetooth-enabled printer. Contact your local dealer for more information.

- Once connected to another Bluetooth-enabled device or computer, you can locate and use any of the services available on the device.




Activating the Bluetooth function

You have two options to activate your SP510's Bluetooth connection—using the Wireless Manager or the Bluetooth option under the Settings > Connections preferences. Once activated,  connection is indicated as **On** in the Wireless Manager section of the Today screen.

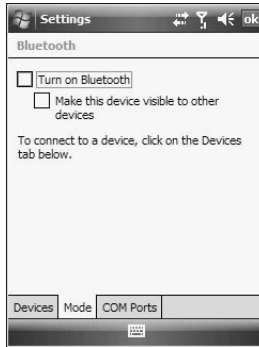
To activate Bluetooth via the Wireless Manager:

See "To activate Bluetooth via the Wireless Manager" on page 56 for more information.

To activate Bluetooth using the Settings option:

- 1 Tap  > **Settings** .
- 2 On the Connections tab, tap **Bluetooth** .

- 3 On the Mode tab, select all the check boxes.






- 4 Tap **ok**.

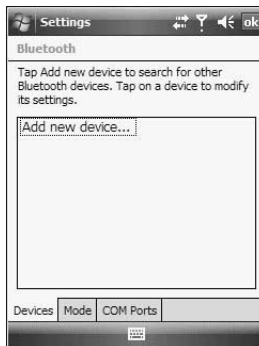
NOTE: Deactivate the Bluetooth feature when you do not plan to use it for an extended time.

Creating a Bluetooth partnership

You need to create a partnership with another Bluetooth-enabled device to be able to exchange information with it.

To create a Bluetooth partnership:

- 1 Ensure that your SP510 and the other Bluetooth-enabled device(s) are turned on, visible, and within close range of each other.
- 2 Perform either of the following.
 - On the Wireless Manager screen, tap **Menu > Bluetooth Settings**.
 - Tap  > **Settings**  > **Connections** tab > **Bluetooth** .
- 3 On the Devices tab, tap **Add new device**.



5 Wireless Communications

Wireless communication features

Your device searches for Bluetooth-enabled devices on your personal area network (PAN) and displays them in the device list.

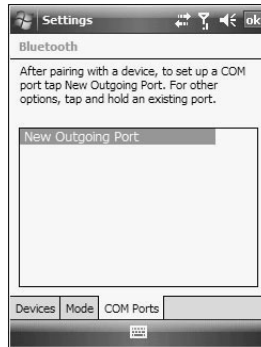


- 4 Tap the name of the device in the list, then tap **Next**.
If you want to use a passcode, type an alphanumeric passkey, then tap **Next**; enter the same passkey on the other device.
The passkey is recommended for enhanced security. Your passkey must be between 1 to 16 alphanumeric characters.
If you do not want to use a passkey, tap **Next**.
- 5 On the Partnership Settings screen, perform the following:



- (a) Type in a meaningful device name on the **Display Name** box to identify the device later.
 - (b) Select the type of services you want to enable for this Bluetooth partnership.
- 6 Tap **Finish**.

- 7 On the Bluetooth screen, tap the **COM Ports** tab, then tap **New Outgoing Port**.



- 8 Select the device you want to add, then tap **Next**.
9 Select a numbered COM port from the list.
10 Select "Secure Connection" option to designate the COM port for Bluetooth partnership.
11 Tap **Finish**, then tap **ok**.

Exchanging files using Bluetooth

IMPORTANT: Ensure that the two devices have Bluetooth turned on, discoverable, and within close range.

To send files via Bluetooth:

- 1 Switch to the program where you created the item you want to send and locate the item in the list.
- 2 Tap and hold the item, then tap **Beam [type of item]** on the pop-up menu.
- 3 Tap the device that you want to send the file to.

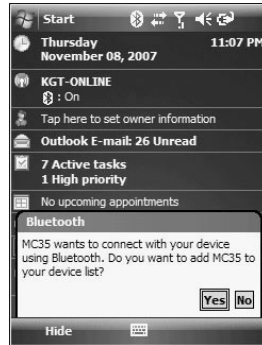


5 Wireless Communications

Wireless communication features

To receive files via Bluetooth:

- 1 Have the owner of the other Bluetooth-enabled device send the file to you.



- 2 On the Bluetooth callout, tap **Yes**.

GPRS connection

General Packet Radio Service (GPRS) is a packet-switched technology that allows transmission of data between mobile phones and the Internet over a GSM network. It supports an "always on" capability which uses the GSM network only during data transmission. This means users only pay for the amount of downloaded information rather than the duration of the network connection.

The communication software for creating a GPRS connection is already installed on your device. Your service provider will provide software needed to install other services, such as paging and fax services.

Once you've established a GPRS connection, you can:

- Use Messaging to send and receive e-mail messages.
- Use Internet Explorer Mobile to access Web or WAP pages
- Use Windows Media Player 10 Mobile for Pocket PC to listen to streaming media
- Use Live Messenger to conduct IM sessions with your friends and colleagues.

Configuring your GPRS connection

To manually configure GPRS connection:

See "To connect to the Internet" on page 58 for more information.


For more information on configuring your device's GPRS setting, contact your mobile phone service provider.

Connecting to the GPRS network

NOTE: When downloading large files through GPRS data connection, incoming phone calls are not received. Phone calls are directed to voicemail.




A GPRS connection is required to connect to a GPRS network. To create a GPRS connection, the GPRS features on your GSM account must be enabled and activated on your SIM card. You may be required to configure your GPRS connection and authenticate GPRS to connect to the GPRS network. Obtain the user name and password from your mobile phone service provider.

To connect to GPRS network:

- 1 On the navigation bar, tap the **Data connectivity** icon .


2 Tap **Connect GPRS**.



The Connecting call drop-down box displays. The GPRS data connection active icon  appears on the navigation bar and changes to  and to  once a GPRS connection is established.

To end a GPRS connection:

Perform one of the following:

- On the navigation bar, tap the **Data connectivity** icon , then tap **Cancel** on the Connectivity drop-down box.
- On the Today screen, tap **Wireless Manager**  > **Menu** > **Disconnect Cellular Data**.






Managing wireless connections

Using Wireless Manager

The Wireless Manager provides easy management to the wireless features on your device. This program complements your device's integrated wireless card enabling you to turn the wireless features on and off and allows for centralized management of the Bluetooth, and Phone settings.

To open Wireless Manager:

Perform one of the following:

- On the Today screen, tap **Wireless Manager** .
- On the navigation bar, tap the **Data connectivity** icon  or **signal** icon , then from the Connectivity drop-down box, tap **Wireless Manager**.
- Tap  > **Settings**  > **Connections** tab > **Wireless Manager** .

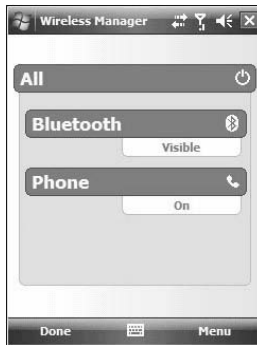
Activating wireless features

You can use Wireless Manager to turn the following wireless features on and off— one at a time or all at the same time.


- Bluetooth
- Phone
- Cellular Data GPRS connection

To turn multiple wireless features on:

- On the Wireless Manager screen, tap **All > Done**.



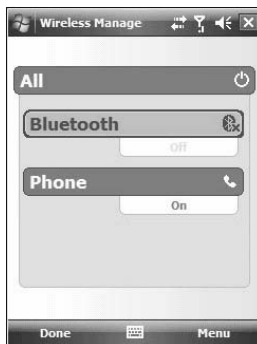
To activate Bluetooth via the Wireless Manager:

- 1 On the Today screen, tap **Wireless Manager** .

Tap to launch the
Wireless Manager.



- 2 On the Wireless Manager screen, tap **Bluetooth**.




5 Wireless Communications


Managing wireless connections

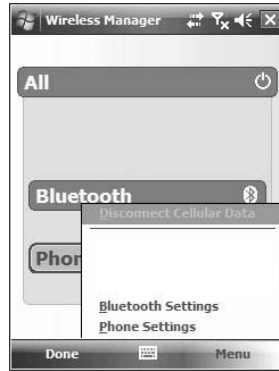
- 3 Tap **Done**.

To activate Phone via the Wireless Manager:

- 1 On the Today screen, tap **Wireless Manager** .
- 2 Tap **Phone > Done**.

To disconnect cellular data GPRS connection via the Wireless Manager:

- 1 On the Today screen, tap **Wireless Manager** .
- 2 Tap **Menu > Disconnect Cellular Data**.



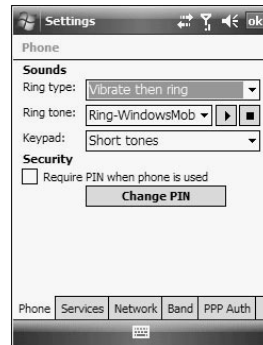
- 3 Tap **Done**.

Configuring the multiple wireless settings

Using Wireless Manager, you can set Phone, and Bluetooth settings. To configure the Phone settings:

- 1 On the Wireless Manager screen, tap **Menu**.
- 2 Select **Phone Settings**.

The Phone Settings screen has five tabs—Phone, Services, Network, Band, and PPP Auth. See “Phone preferences” on page 135 for the configuration options available for each tab.




To configure the Bluetooth settings:

See "Bluetooth connection" on page 45 for more information.

Getting connected

After configuring your device's wireless settings you can now define the network settings you'll be using to access the Internet, connect to your office network, and view intranet URLs.

For help information on performing the following procedures, tap **Help**  from the screen you're having difficulty with.

Once you've establish these network settings; use Internet Explorer Mobile to view Internet and intranet sites. See "Internet Explorer Mobile" on page 96 for more information.

Connecting to the Internet

You can connect to the Internet by using a modem or wireless connection. Before you perform the procedure below, obtain the following information from your Internet service provider (ISP) or wireless service provider.

- ISP server phone number or access point
- User name and password

To connect to the Internet:

- 1 Tap  > **Settings** .
- 2 On the Connections tab, tap **Connections** .
- 3 On the Tasks tab, tap **Add a new modem connection** from either My ISP or My Work Network.



- 4 Enter a name for the connection (e.g. Internet).
- 5 In the Select a modem list, select your modem type.
If you will be using a mobile phone network, select **Cellular Line**.
If you will be using GPRS, select **Cellular Line (GPRS)**.
- 6 Tap **Next**
- 7 Enter the number to be dialed or the access point name provided by your mobile service provider.
- 8 Tap **Next**

5 Wireless Communications

Getting connected

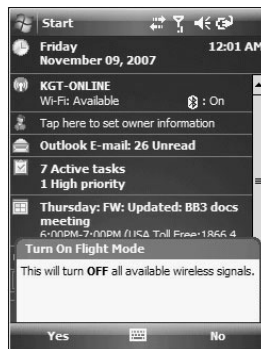
- 9 If required, enter the user name, password, and domain name.
If the mobile phone service provider specified the IP addresses of your DNS servers, tap **Advanced** > **Servers** tab. Select **Use specific server address**, enter the DNS addresses, then tap **ok**.
- 10 Tap **Finish**.
The connection is automatically started when you begin using a program that uses an Internet connection.
To manually start the connection, perform one of the following:
 - Repeat steps 1 and 2, then on the **Tasks** tab, tap **Manage existing connections** under **My ISP**. Tap and hold a connection name, then select **Connect** from the pop-up menu.
 - Perform the "To connect to a wireless network" procedure on page 52.

Flight Mode


Flight Mode allows you to turn off all the active wireless connections for safe use on an airplane.

To turn off wireless connections:

- 1 Press and hold the **End**  button for five seconds.



- 2 Select **Yes** when the Turn On Flight Mode notification appears. All active wireless connections are turned off.

When you want to turn the wireless connections back on, press and hold the **End**  button for five seconds. Select **Yes** when the Turn Off Flight Mode notification appears. The device remembers which wireless connections were active prior to entering Flight Mode and only turns on those wireless connections.




Connecting to your office network

You can connect to your office network by using a modem, virtual private network (VPN), or wireless connection. Before you perform the procedure below, obtain the following information from your network administrator or your wireless service provider.

- For a modem connection:
 - ISP server phone number or access point
 - User name and password
- For a VPN connection:
 - User name, password, and domain name
 - TCP/IP settings
 - VPN server host name or IP address
 - ISP server phone number or access point

If you will be using a modem or a VPN connection, perform the procedure in this section. If you will be using a wireless connection, perform the "To connect to a wireless network" procedure on page 52.

To connect to your office network:

- 1 Tap  > **Settings**  .
- 2 On the Connections tab, tap **Connections**  .
- 3 Under My Work Network on the Tasks tab; select the kind of work connection you will be using.
- 4 Enter the required information for the selected work connection.
- 5 Tap **Finish**.




The connection is automatically started when you use Internet Explorer Mobile to connect to your work network. Begin using a program that uses an Internet connection. To manually start the connection, perform one of the following:

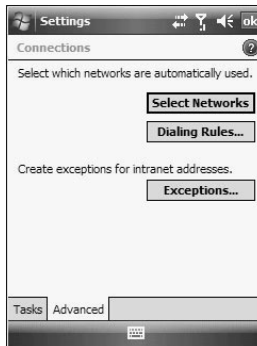
- (a) Repeat steps 1 and 2, then on the Tasks tab, tap **Set up my proxy server** under My Work Network.
- (b) On the Modem or VPN tab, tap and hold a connection name, then select **Connect** from the pop-up menu.

Viewing intranet URLs

If you'll be connecting to intranet sites that have periods in their URLs (e.g. intranet.corporate.com), you must add them to the Work URL Exceptions list. Otherwise, Internet Explorer Mobile will search for them in the Internet rather than the company's intranet.

To add an intranet URL:

- 1 Tap  > **Settings**  .
- 2 On the Connections tab, tap **Connections**  .
- 3 On the Advanced tab, tap **Exceptions**.



- 4 Tap **Add New URL**.
- 5 Enter the intranet URL.

TIP: If you use URLs that share the same root company name, you can add them as group by entering `*.corporatename.com`.

- 6 Tap **ok**.



Setting an e-mail server connection



You can set up a connection to an e-mail server so that you can send and receive e-mail messages on your device. You can use multiple e-mail accounts to receive your messages. For each e-mail account you intend to use, first set up and name the e-mail service. If you use the same service to connect to different mailboxes, set up and name each mailbox connection.

There are two types of e-mail account that can be managed using your device.

- **Microsoft Outlook**
Using Microsoft Outlook, your Inbox is updated each time you sync with your computer or corporate e-mail server.
- **POP3/IMAP4**
This includes e-mail service from providers. These e-mail accounts can be managed remotely using a wireless connection.

To set up an e-mail account:

For an explanation on any of the setup screens, tap  > **Help** .

- 1 Tap  > **Messaging** .
- 2 Tap **New E-mail Account**.
- 3 Enter your e-mail address.
- 4 Tap the "Try to get e-mail settings automatically from the Internet" check box to allow auto setup to connect to the Internet and obtain e-mail server settings.
- 5 Tap **Read Privacy Statement online** to address privacy concerns.
- 6 Tap **Next**
This will initiate auto setup which attempts to connect your device to your e-mail server and automatically download the necessary e-mail connection settings. If auto-configuration is successful you can begin sending/receiving e-mails. If unsuccessful you will need to manually enter the settings.
- 7 Once auto setup is finished, tap **Next**.
- 8 Enter your name and the name you want displayed when you send an e-mail.
- 9 Tap **Next**
If auto setup is not successful, contact your ISP or network administrator for the following information and enter them manually:
 - User name and password
 - Domain name
 - Account type and name
 - Incoming and outgoing e-mail server

6 Using the Windows Mobile Programs

- Microsoft Outlook Mobile programs
- Microsoft Office Mobile programs
- Windows Media Player 10 Mobile for Pocket PC
- Internet Explorer Mobile
- Windows Live Mobile

Microsoft Outlook Mobile programs



Microsoft Outlook Mobile includes Calendar, Contacts, Tasks, Notes, and Messaging. You can use these programs individually or in tandem with each other. For example, e-mail addresses stored in Contacts can be used in Messaging.

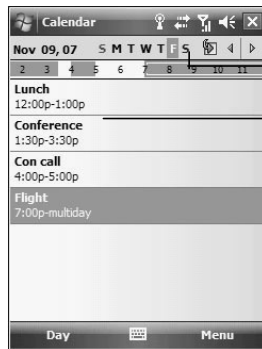
You can use ActiveSync to synchronize your Outlook Mobile data with the Microsoft Outlook information on your computer or to a Microsoft Exchange server. See "Using ActiveSync" on page 31 for more information.

Calendar

Calendar enables you to conveniently manage your schedules and appointments or any other activities associated with a time and date. You can schedule appointments, including meetings and other events. Checking your appointments is easy using one of several views—Agenda, Day, Week, Month, and Year.

To open Calendar:

- Tap  > **Calendar** .
- Calendar opens to today's schedule.



Tap to go to current date.

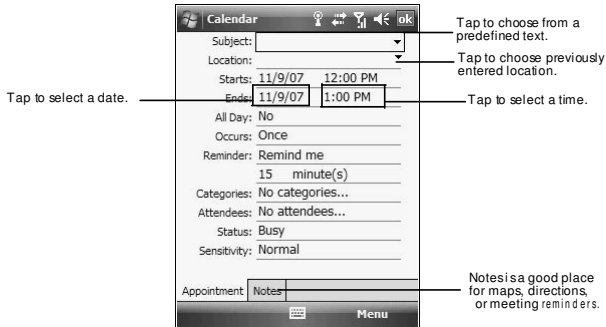
Tap to display or edit the appointment details.

Switch display views by tapping the view option on the lower left corner of the command bar.

NOTE: You can customize the Calendar display, such as changing the first day of the week, by tapping **Menu > Tools > Options**.

Scheduling an appointment

- 1 If you are in **Day** or **Week** view, tap the desired date and time for the appointment.
- 2 Tap **Menu > New Appointment**



- 3 Using the soft keyboard, enter the appointment details.
To select a field, tap it.
Hide the soft keyboard to see all available fields.
- 4 To add notes, tap the **Notes** tab.
- 5 After completing the appointment details, tap **ok**.
If you select "Remind me" in an appointment, your device notifies you according to the options set in the **Settings > Personal > Sounds & Notifications** option.

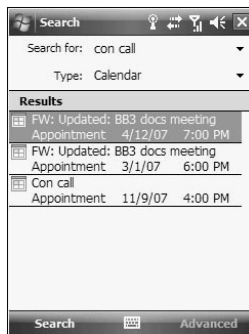
Viewing an appointment

You can view an appointment schedule in all views except for Year and Agenda view.

- To see the details of an appointment, tap the appointment.
- To see a pop-up menu of available actions for an appointment, tap and hold the appointment.
- In Year view, the time of appointments are indicated by symbols. An upward triangle means a morning appointment; a downward triangle means an afternoon appointment. A solid square indicates an appointment that overlaps the noon day border.

Finding an appointment

- Tap **Programs > Search**, enter the appointment name, select **Calendar** for the type, then tap **Search**.




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Beaming an appointment

You can send an appointment to another IR- or Bluetooth-enabled device by beaming it.

- 1 If you intend to send the appointment:
 - Via **IR**: Ensure that the two devices have IR turned on, then align the IR port —  of your device with that of the other device so that they are unobstructed and within close range.
 - Via **Bluetooth**: Ensure that the two devices have Bluetooth turned on, discoverable, and within close range.
- 2 In **Agenda**, **Day** or **Month** view, tap and hold the appointment.
- 3 Select **Beam Appointment** on the pop-up menu.
- 4 Tap the device that you want to send the appointment to.

Using the Calendar summary screen

When you tap an appointment in Agenda or Day view, a summary screen is displayed. To change the appointment, tap **Edit**.



Creating a meeting request

You can use Calendar to set up meetings with users of Outlook or Pocket Outlook. The meeting request is created automatically and is sent when you synchronize Messaging or when you connect to your e-mail server. Indicate how you want meeting requests sent by tapping **Menu > Options**.

To schedule a meeting:

- 1 Create an appointment.
- 2 In the appointment details, hide the input panel, then tap **Attendees**.
- 3 Tap **Add Required Attendee**.
- 4 Select a contact from the Contact list.
- 5 Tap **Done** to return to the appointment details page.
- 6 Tap **ok**.
The meeting request is created automatically and placed in the Outlook E-mail Outbox folder.
- 7 Tap **ok**.

Synchronizing calendar items

- Calendar items created on your device are copied to your computer and/or on a Microsoft Exchange server during synchronization, and vice versa. By default, Calendar items from the last two weeks are synchronized.
- Similarly, Calendar items that are deleted from your device are deleted from your computer and/or server during synchronization, and vice versa.


- To save storage space on your device, synchronize appointments within a convenient date range. Perform the following:
 - (a) Connect your device to your computer.
 - (b) In ActiveSync on your computer, if the details pane is not open, click **Show Details**.
 - (c) Double-click **Calendar**, then select an interval in "Synchronize only the past".



Contacts

Contacts maintains a list of your friends' and colleagues' contact information.

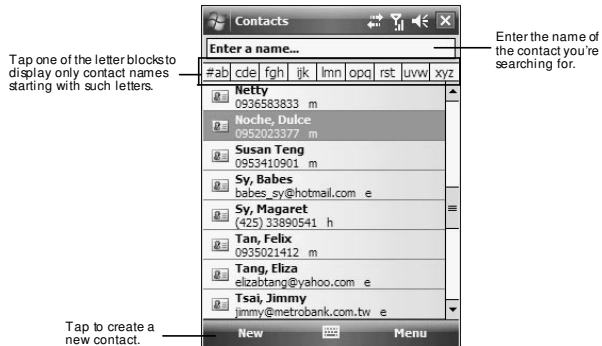
To open Contacts:

Perform one of the following:

- On the **Today** screen, press the **right soft** button or tap **Contacts** .

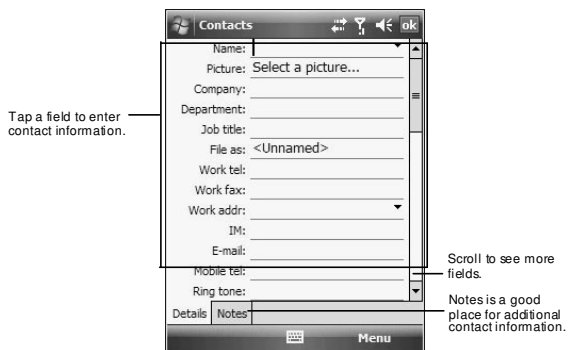
- Tap  > **Contacts** .

Contacts opens to the contact list. To change the way contact information is displayed in the list, tap **Menu** > **Options**.



To create a contact:

- 1 Tap **New**.



- 2 Using the soft keyboard, enter a name and other contact information.
To select a field, tap it.
Hide the soft keyboard to see all available fields.
- 3 To add notes, tap the **Notes** tab.




6 Using the Windows Mobile Programs

Microsoft Outlook Mobile programs

4 After completing the contact details, tap **ok**.

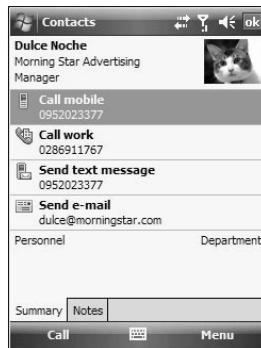
To find a contact:

There are several ways to find a contact.

- Using the SP510 keypad, press the starting letter of the contact name
- Tap one of the letter blocks displayed across the top of the contact list.
- Use the Smart Lookup function by entering the first few letters of the contact you're looking for in the search box under the navigation bar. To show all contacts again, clear text from the box or tap the button to the right of the box.
- Tap  > **Programs**  > **Search** , enter the contact name, select **Contacts** for the type, then tap **Search**.

Using the Contacts summary screen

When you tap a contact in the contact list (or select it using the joystick), a summary screen displays. This is referred to as a contact card. To change the contact information, tap **Menu > Edit**

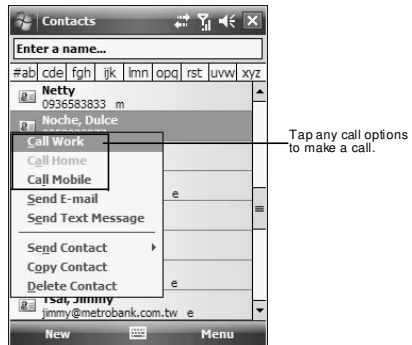


Calling a contact

You can make a call to a contact using either the contact list or the contact card.

To make a call from the contact list:


- Using commands in the pop-up menu.
 - (a) Tap and hold a contact to display a pop-up menu of actions.




- (b) Tap any of the Call options to make a call.

- Using the contact list abbreviation
 - (a) Tap the letter in the right column next to the contact you want to call. The contact's summary screen appears.
 - (b) Tap which number to call or send e-mail/text messages.

The letter that appears opposite a contact entry corresponds to a particular contact information. These are as follows:

 - e – E-mail address
 - e2 – Second e-mail address
 - e3 – Third e-mail address
 - h – Home phone number
 - h2 – Second home phone number
 - m – Mobile phone number
 - pgr – Pager phone number
 - sms – SMS address
 - w – Work phone number
 - w2 – Second work phone number
 - web – Web page
- Using the hardware buttons
 - (a) Move the joystick up or down to scroll through the contact list and select the contact you want to call.
 - (b) Press the **Send** button  twice—once to launch Phone and another to make the call. The call will be made to that contact's priority number.

To make a call from a contact card:

- Tap any of the listed phone numbers.
- Move the joystick up or down to scroll through the listed numbers and select one, then press the joystick or **Send** button  to make the call.

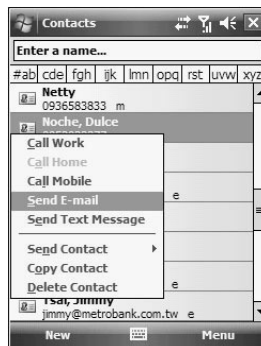
Sending a message to a contact

You can send an e-mail or text message to a contact either from the contact list or from a contact card.

To send a message from the contact list:

- 1 Tap and hold a contact to display a pop-up menu of actions.
 - or -

Move the joystick up or down to scroll through the list and select a contact, then press the joystick to display a pop-up menu of actions.



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Microsoft Outlook Mobile programs

2 Tap **Send E-mail** or **Send Text Message**.

- or -

Move the joystick up or down to select either Send option, then press the joystick to enable it.

Messaging opens to a new message screen with the "To" box automatically filled out with the selected contact's e-mail address/SMS number.

3 Proceed to composing the message.

To send a message from a contact card:

1 Tap any of the listed e-mail/text addresses.

- or -

Move the joystick up or down to scroll through the listed e-mail/text addresses and select one, then press the joystick.

Messaging opens to a new message screen with the "To" box automatically filled out with the selected contact's e-mail/text address.


2 Proceed to composing the message.

Beaming a contact card

You can send a contact card to another IR- or Bluetooth-enabled device either from the contact list or from a contact card screen.

To beam a contact card from the contact list:

1 If you intend to send the contact card:

- Via **IR**: Ensure that the two devices have IR turned on, then align the IR port  of your device with that of the other device so that they are unobstructed and within close range.
- Via **Bluetooth**: Ensure that the two devices have Bluetooth turned on, discoverable, and within close range.

2 Tap and hold a contact to display a pop-up menu of actions.

- or -

Move the joystick up or down to scroll through the list and select a contact, then press the joystick to display a pop-up menu of actions.

3 Tap **Send Contact > Beam**.

4 Tap the device that you want to send the contact card to.

To beam an open contact card:

1 Perform step 1 of the previous section.

2 Tap **Menu > Send Contact > Beam**.

3 Tap the device that you want to send the contact card to.




Synchronizing contacts

- Contacts created on your device are copied to your computer or on a Microsoft Exchange server during synchronization, and vice versa. By default, all of your contacts are synchronized.
- Similarly, contacts that are deleted from your device are deleted from your computer and/or server during synchronization, and vice versa.

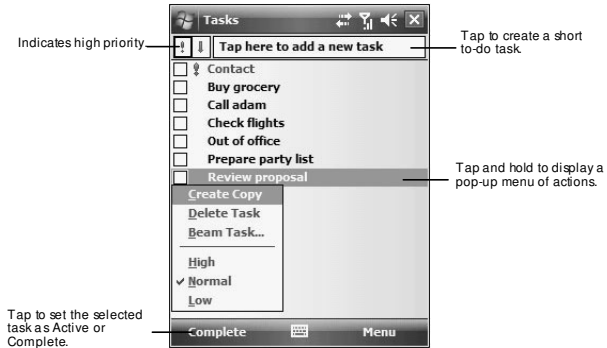
Tasks

Use Tasks to keep track of what you have to do and prioritize them based on their importance and urgency.

To open Tasks:

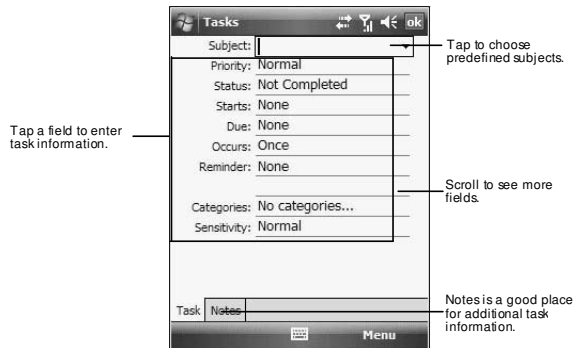
- Tap  > **Programs**  > **Tasks** .

Tasks opens to the task list. To change the way task information is displayed in the list, tap **Menu** > **Options**.



To create a task:

- 1 Tap **Menu** > **New Task**.



- 2 Using the soft keyboard, enter the task details.

To select a field, tap it.

Hide the soft keyboard to see all available fields.

- 3 To add notes, tap the **Notes** tab.

- 4 After completing the task details, tap **ok**.

Managing tasks

By default all created task items appear as one long list and are named based on their subject line. To keep your tasks organized and allow quick searching you can choose to:

- Filter tasks based on their category or completion status. Tap **Menu** > **Filter**, then select a filter option.
- Sort tasks based on their completion status, priority level, subject, start date, or due date. Tap **Menu** > **Sort By**, then select a sort criteria.


6 Using the Windows Mobile Programs

Microsoft Outlook Mobile programs

Beaming a task item

You can send a task item to another IR- or Bluetooth-enabled device either from the task list or from a task summary screen.

To beam a task item from the task list:

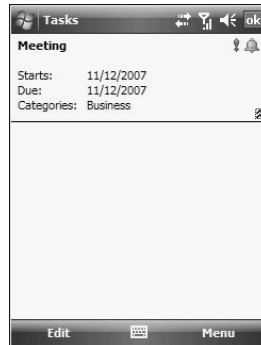
- 1 If you intend to send the task item:
 - Via **IR**: Ensure that the two devices have IR turned on, then align the IR port  of your device with that of the other device so that they are unobstructed and within close range.
 - Via **Bluetooth**: Ensure that the two devices have Bluetooth turned on, discoverable, and within close range.
- 2 Tap and hold a task item to display a pop-up menu of actions.
- or -
Move the joystick up or down to scroll through the list and select a task item, then press the joystick to display a pop-up menu of actions.
- 3 Tap **Beam Task**.
- 4 Tap the device that you want to send the task item to.

To beam a task item from its summary screen:

- 1 Perform step 1 of the previous section.
- 2 Tap **Menu > Beam**.
- 3 Tap the device that you want to send the task item to.

Using the Tasks summary screen

When you tap a task in the task list, a summary screen displays. To change the task, tap **Edit**.






Synchronizing tasks

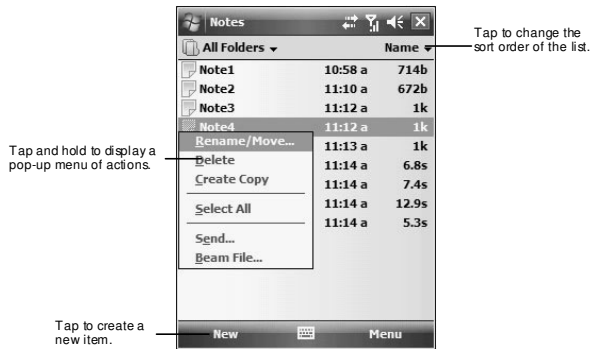
- Task synchronization is, by default, automatically selected in ActiveSync.
- Tasks can only be synchronized with your computer; they cannot be synchronized with a server.
- Tasks created on your device are copied to your computer during synchronization, and vice versa. By default, only incomplete tasks are synchronized.
- Similarly, tasks that are deleted from your device are deleted from your computer during synchronization, and vice versa.

Notes

Quickly capture thoughts, reminders, ideas, drawings, and phone numbers with Notes. You can create a written note or a recording. You can also include a recording in a note. If a note is open when you create the recording, it is included in the note as an icon. If the note list displays, it is created as a stand-alone recording. The option to create notes is integrated in other Outlook Mobile programs.

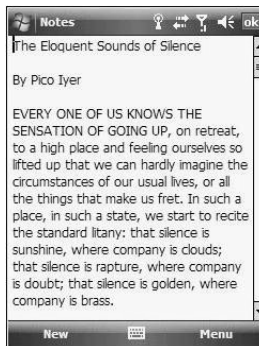
To open Notes:

- Tap  > **Programs**  > **Notes** .
Notes opens to the note list.



To create a note:

- 1 Tap **New**.
- 2 Compose the note by using any of the Input Selector options, by writing/drawing on the screen, or by creating a recording.



- 3 Once you've completed the note, tap **ok**.

Managing notes

By default all created notes appear as one long list and are named chronologically (i.e., Note1, Note2, etc.). To keep your notes organized you can choose to:

- Move or copy notes to system default folders, or you can create new folders to fit your preferences. This helps you filter your notes and locate them quickly. Select the appropriate command from the pop-up menu or tap **Menu**.

6 Using the Windows Mobile Programs

Microsoft Outlook Mobile programs




- Rename notes to identify them in a more meaningful manner. Select the appropriate command from the pop-up menu or tap **Menu**.
- Sort notes based on name, date, size, or type to make searching easier. Tap the **Sort By** pick list on the upper right corner of the note list, then select a sort criteria.

Sending a note

You can send a note by beaming it to another person's IR- or Bluetooth-enabled device, or you can send it via e-mail.

NOTE: You must first set up an e-mail account on your device before you can send a note by e-mail. See "Setting an e-mail server connection" on page 61 for more information.

To beam a note from the note list:

- 1 If you intend to send the note:
 - Via **IR**: Ensure that the two devices have IR turned on, then align the IR port  of your device with that of the other device so that they are unobstructed and within close range.
 - Via **Bluetooth**: Ensure that the two devices have Bluetooth turned on, discoverable, and within close range.
- 2 Tap and hold a note to display a pop-up menu of actions.
 - or -
 - Move the joystick up or down to scroll through the list and select a note, then press the joystick to display a pop-up menu of actions.
- 3 Tap **Beam File**.
- 4 Tap the device that you want to send the note to.

To beam an open note:

- 1 Perform step 1 of the previous section.
- 2 Tap **Menu > Tools > Beam**.
- 3 Tap the device that you want to send the note to.

To send a note via e-mail from the task list:

- 1 Tap and hold a note to display a pop-up menu of actions.
 - or -
 - Move the joystick up or down to scroll through the list and select a note, then press the joystick to display a pop-up menu of actions.
- 2 Tap **Send**.

A new message screen displays with the selected note shown as an attachment (*.pwi).
- 3 Proceed to completing the e-mail message.

To send an open note via e-mail:

- 1 Tap **Menu > Tools > Send**.

A new message screen displays with the selected note shown as an attachment (*.pwi).
- 2 Proceed to completing the e-mail message.

Synchronizing notes

- Notes synchronization is, by default, automatically selected in ActiveSync.
- Notes can only be synchronized with your computer; they cannot be synchronized with a server.
- Notes created on your device are copied to your computer during synchronization, and vice versa.
- Similarly, notes that are deleted from your device are deleted from your computer during synchronization, and vice versa.
- Handwritten text or drawings will appear as pictures in your computer.



Messaging

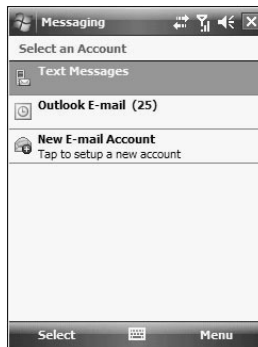
Use Messaging to manage and organize both your e-mail and text (SMS) messages. See "Setting an e-mail server connection" on page 61 for more information on how to set up an e-mail server connection. For instructions on how to use a text messaging service, see "Text messaging service" on page 123.

With Messaging, you can:

- Setup a new e-mail account with an Internet service provider (ISP) or an account that you access using a VPN server connection.
- Synchronize Outlook E-mail messages with Microsoft Outlook on your computer or with a Microsoft Exchange server.
- Send and receive Live Hotmail messages by signing in to Windows Live. See "To sign in to Windows Live" on page 100 for more information.
- Send and receive e-mail messages by connecting directly to an e-mail server through an Internet service provider (ISP) or a network.
- Send and receive text messages through your mobile service subscription. Messaging supports 8 bits data with class 0, 1, 2, 3, as well as USSD (Unstructured Supplementary Service Data).

To open Messaging:

- Tap  > **Messaging** .



To send and receive e-mail messages:

- Select **Outlook E-mail** on the Messaging screen, then tap **Menu** > **Send/Receive**.

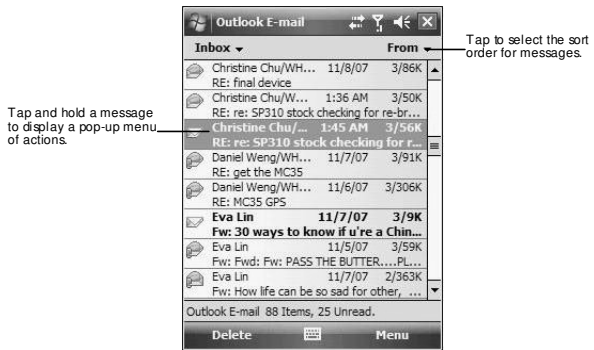
6 Using the Windows Mobile Programs

Microsoft Outlook Mobile programs



Using the message list

The messages you receive display in the message list. By default, the most recently received messages display first in the list.



When you receive a message, tap it to open. Unread messages are displayed in bold text.

Creating an e-mail/text message

The following procedures explain how to compose an e-mail message. For procedures on how to compose a text message, see page 126.

To compose an e-mail message:

- 1 In the Outlook E-mail message list, tap **Menu > New**.
- 2 Enter the e-mail address of your intended recipients in the "To" box. You can do this in different ways.
 - Manually enter the address using any of the Input Selector options.
 - Type the first few letters of an e-mail address that is stored in Contacts, then tap any of the available e-mail addresses. The auto-suggest feature suggests e-mail addresses as you type so that you find them more quickly.
 - Tap **Menu > Add Recipient** to display the contact list, then tap a contact from the list.

Make sure multiple e-mail addresses within the same field is separated with a semicolon.

- 3 Compose your e-mail message.

Outlook E-Mail supports the following e-mail options.

- To enter a preset or frequently used messages, tap **Menu > My Text**, then select a message.
- Use the **Menu > Insert** command to attach a picture, voice note, or any file as e-mail attachments.

When attaching a voice note, the Recording toolbar appears for you to create the voice note (file format: .wav); or you can select a previously created voice note (file format: .pwi).

Outlook Mobile now supports attachment of Office Mobile files (Word, Excel, and PowerPoint).

- Use the **Menu > Spell Check** command to search your message for common spelling errors.
- Use the **Menu > Message Options** command to set the priority level, security, and language options.

- 4 Tap **Send** when you've finished the message.
If you are working offline, the message is moved to the Outbox folder and sent the next time you're online.



To keep sent items:

By default, sent e-mail messages are not saved on your device to help conserve memory. If you prefer to keep copies of sent e-mail messages, follow the procedure below:

- 1 In the message list, tap **Menu > Tools > Options**.
- 2 On the **Message** tab, select the "Keep copies of sent items in the Sent folder" option.
- 3 Tap **ok**.
- 4 If you are using an Outlook E-mail or a IMAP4 account, select the **Sent Items** folder for synchronization.

For more information on e-mail synchronization options, see "To configure ActiveSync e-mail synchronization settings" on page 77.

Creating a message signature

You can personalize your e-mail and text messages by appending a signature to it. The signature support of your device allows you to create different signatures for your e-mail and SMS account. This feature also eliminates the need to re-type a closing for every message.

To create a signature:

- 1 In the message list, tap **Menu > Tools > Options**.
- 2 On the **Accounts** tab, tap **Signatures**.



- 3 Tap the pick list to select which account to create a signature for.

6 Using the Windows Mobile Programs

Microsoft Outlook Mobile programs

- 4 Select the "Use signature with this account" option.
- 5 You can use the signature for new messages only, or you can select the "Use signature when replying and forwarding" option to append it to all outgoing messages.
- 6 Enter a signature in the box.
- 7 Tap **ok**.

Managing messages and folders

By default, messages are displayed in one of five folders for each service you have created—Deleted Items, Drafts, Inbox, Outbox, and Sent Items.

- The behavior of the Deleted and Sent Items folders depends on the options you have chosen. To set these options, in the message list:
 - (a) Tap **Menu > Tools > Options**.
 - (b) On the **Message** tab, select your options.
- If you want to organize messages into subfolders, tap **Menu > Tools > Manage Folders** to create new folders.
- To move a message to another folder, in the message list, tap and hold the message, then tap **Move** on the pop-up menu.

Downloading messages

The manner in which messages are downloaded in your device depends on the type account you have.

- E-mail messages in an Outlook E-mail account can be downloaded during ActiveSync synchronization.
- E-mail messages in a Windows Live Hotmail account can be downloaded when signed into Windows Live.
- E-mail messages in an e-mail account provided by your ISP, or that you access using a virtual private network (VPN) server can be downloaded from a remote e-mail server.
- Text messages are automatically received by your device when the phone function is turned on. When the phone function is disabled, messages are held by your mobile phone service provider until the next time you turn the phone function on.

Synchronizing Outlook e-mail messages

Outlook e-mail messages can be synchronized as part of the general ActiveSync synchronization process.

During ActiveSync synchronization:

- Only the first 500 bytes (or characters, including spaces) of each new message sent to you within the last three days.
- Messages are copied from the Outlook Inbox folder on your computer, or from a Microsoft Exchange server, to the Outlook E-mail Inbox folder on your device.
- The messages on your device and on your computer are linked. When you delete a message on your device, it is also deleted from your computer the next time you synchronize, and vice versa.

To set up ActiveSync e-mail synchronization:

- 1 Open ActiveSync on your computer.
- 2 Click **Tools > Options**.
- 3 In the **Mobile Device** list under the Desktop area, select the "E-mail" option.
- 4 Click **OK**.

To configure ActiveSync e-mail synchronization settings:

- 1 Connect your device to your computer.
- 2 On ActiveSync on your computer, make sure the details pane is open. If it's not, click **Show Details**.
- 3 Double-click **E-Mail**.
- 4 Select the e-mail synchronization options you prefer.
 - If you receive long messages often and want to synchronize them in full, select a larger size in the "Limit e-mail size to" list.
 - If you want to synchronize more past messages, increase the interval in the "Include the previous" box.

- If you want to include e-mail attachments, select the "Include file attachments" option. To limit the size of synchronized attachments, select the "Only if smaller than" option and enter a size limit. Attachments larger than this limit will not be synchronized with your device.
- If you want to synchronize folders other than Inbox, click **Select Folders**, then select the subfolders that you want to synchronize.
The Deleted Items folder synchronizes only one direction, from the device to the computer. Items in the Deleted Items folder on your computer will not appear on your device.

5 Click **OK** twice.

Synchronizing POP3/IMAP4 e-mail messages

POP3/IMAP4 e-mail messages are downloaded using an e-mail server connection.

During e-mail server synchronization:

- New e-mail messages are downloaded to that account's Inbox folder.
- E-mail messages in that account's Outbox folder are sent.
- E-mail messages that have been deleted in the e-mail server are removed from your device's Inbox folder.
- If you are using a POP3 account and you move e-mail messages to a folder you created, the link is broken between the messages on your device and their copies on the e-mail server. The next time you connect, the e-mail server sees that the messages are missing from the device's Inbox and delete them from the server. This prevents you from having duplicate copies of a message, but it also means that you will no longer have access to messages that you move to folders created from anywhere except your device.
- If you are using an IMAP4 account, the folders you create and the e-mail messages you move are mirrored on the server. Therefore, messages are available to you anytime you connect to your e-mail server, whether it is from your device or from your computer. This synchronization of folders occurs whenever you connect to your mail server, create new folders or rename/delete folders when connected.

To synchronize POP3/IMAP4 e-mail messages:

- 1 On the message list on your device, tap **Menu > Go To**, then select the e-mail account you want to use.
- 2 Tap **Menu > Send/Receive**.

Microsoft Office Mobile programs

Microsoft Office Mobile includes the mobile versions of the popular Word, Excel, and PowerPoint programs. With these mobile programs, you maintain a productive work schedule even while on-the-go.



Word Mobile




Use Word Mobile to:

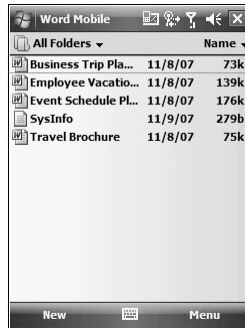
- Create and edit documents and templates and save them as .doc, .rtf, .txt, and .dot files.
- Edit Word documents and templates created on your computer. You can also open and edit Pocket Word (.psw) documents.
- Synchronize documents and templates between your device and your computer.

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To open Word Mobile:

- Tap  > **Office Mobile**  > **Word Mobile** .
- The Word Mobile document list displays.



Using the Word Mobile document list

The Word Mobile document list is the default screen when you open Word Mobile. Every time you tap **ok** in an open document, this list displays.

- Tap a file in the document list to open it. You can open only one document at a time.
- To delete, make copies of, and send files, tap and hold a file in the list, then select the appropriate action on the pop-up menu.

Creating a Word Mobile document

Word Mobile has built-in templates for creating a new document, meeting notes, memo, phone memo, and to do list.

To change the default template:

- 1 On the document list, tap **Menu** > **Options**.
- 2 Select another template from the "Default template" pick list.
- 3 Tap **ok**.

To create a new document:

- 1 On the document list, tap **New**.
A new document appears based on the default template.
- 2 Enter the information using any of the Input Selector options.
- 3 Format texts by using the Word Mobile toolbar.
This toolbar provides basic formatting options, such as font style, paragraph alignment, and bullet options. You can show and hide this toolbar by tapping **View** > **Toolbar**.
- 4 Tap **ok**.
This will close the newly created document and automatically name the file after the first several words in the document. The new document is placed in the Word Mobile document list.
- or -

6 Using the Windows Mobile Programs

Microsoft Office Mobile programs

Tap **Menu > File > Save As** to customize the save settings.




Tips for working in Word Mobile

- If you're opening a Word document created on a computer, select **Wrap to Window** on the View menu so that you can see the entire document.
- You can change the zoom magnification by tapping **View > Zoom**, then select the percentage you want. Select a higher percentage to enter text and a lower one to see more of your document.

Sending a Word Mobile document

You can send a Word Mobile document by beaming it to another person's IR- or Bluetooth-enabled device or send it as an attachment via e-mail.

To beam a document:

- 1 If you intend to send the document:
 - Via **IR**: Ensure that the two devices have IR turned on, then align the IR port  of your device with that of the other device so that they are unobstructed and within close range.
 - Via **Bluetooth**: Ensure that the two devices have Bluetooth turned on, discoverable, and within close range.
- 2 From the Word document list, select the item you want to beam.
- 3 Tap **Menu > Beam File**.
- 4 Tap the device that you want to send the file to.

To send a document via e-mail from the document list:

NOTE: Make sure that your device is properly setup to send and receive mail. See "Getting connected" on page 58 for more information.

- 1 From the Word document list, select the item you want to send.
- 2 Tap **Menu > Send**.
A new message screen displays with the selected file shown as an attachment.
- 3 Proceed to completing the e-mail message.
- 4 Tap **Send**.

To send an open document via e-mail:



- 1 Tap **Menu > File > Send**.
A new message screen displays with the file shown as an attachment.
- 2 Proceed to completing the e-mail message.

6 Using the Windows Mobile Programs

Microsoft Office Mobile programs

Synchronizing Word documents

You can synchronize Word documents created on your computer with your device. Note the following reminders when selecting this option.

- Word Mobile does not support synchronization of password-protected files. You must first remove the password protection in Word on your computer if you want to view the document on the device.
- ActiveSync need to convert your computer document files before synchronizing it with your device. Converted files may not contain all information found in original file. For more information, on the Word Mobile document list, tap  > **Help** , then locate the [Unsupported features in Word Mobile](#) link.

To synchronize Word documents:

- 1 Connect your device to your computer.
- 2 Click **Tools > Options**.
- 3 Select the "Files" option.
This will create the <device name> My Documents folder on your computer's desktop.
- 4 Place all the Word documents you want to synchronize with your device in this folder.
- 5 Initiate synchronization.
The documents you placed on the <device name> My Documents folder are copied to your device.






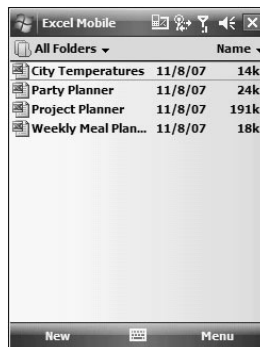
Excel Mobile

Use Excel Mobile to:

- Create, view, and edit workbooks and save them as .xls and .xlt files.
- Edit Excel workbooks and templates created on your computer.
- Create, view, and edit charts/graphs and save them in a separate worksheet or embed them as objects in the source worksheet.
- Synchronize Excel workbooks and templates between your device and your computer.

To open Excel Mobile:

- Tap  > **Office Mobile**  > **Excel Mobile** .
The Excel Mobile workbook list displays.



Using the Excel Mobile workbook list

The Excel Mobile workbook list is the default screen when you open Excel Mobile. Every time you tap **ok** in an open workbook, this list displays.

- Tap a file in the workbook list to open it. You can open only one workbook at a time.

- To delete, make copies of, and send files, tap and hold a file in the list, then select the appropriate action on the pop-up menu.


Creating an Excel Mobile workbook

Word Mobile has built-in templates for creating a blank workbook and a vehicle mileage log.

To change the default template:

- 1 On the workbook list, tap **Menu > Options**.
- 2 Select another template from the "Template for new workbook" drop-down list.
- 3 Tap **ok**.

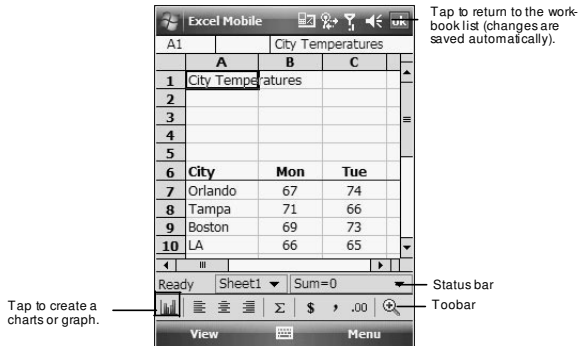
To create a new workbook:

- 1 On the workbook list, tap **New**.
 A new workbook appears based on the on default template.
- 2 Perform any of the following.
 - Tap a cell, enter the information (values, text, formula), then tap **Enter**. If you're entering a formula, enter the equal sign (=) first.
 Tap **Help**  for more information on how to perform more advanced workbook tasks.
 - Use the Excel toolbar. It has tools for working with formulas, functions, and charts; as well as options for sorting and filtering data. You can show and hide this toolbar by tapping **View > Toolbar**.
 - A new workbook by default has only three worksheets. To add more worksheets, tap **Menu > Format > Modify Sheets > Insert**.
- 3 Tap **ok**.

This will close the newly created workbook and automatically name the file as Book#. The new document is placed in the Excel Mobile workbook list.

- or -

Tap **Menu > File > Save As** to customize the save settings.



Tips for working in Excel Mobile

Note the following when working in large worksheets.

- View in full-screen mode to see as much of your worksheet as possible.
 - Tap **View > Full Screen**.
 - To exit full screen mode, tap **View**, then deselect **Full Screen**.
- Show and hide screen elements.
 - Tap **View**, then tap the elements you want to show or hide.
- You might want to freeze the top and left-most panes in a worksheet to keep row and column labels visible as you scroll through a sheet.
 - (a) Select the cell where you want to freeze panes.
 - (b) Tap **View > Freeze Panes**.

6 Using the Windows Mobile Programs

Microsoft Office Mobile programs

- Split panes to view different areas of a large worksheet.
 - (a) Tap **View > Split**.
 - (b) Drag the split bar to where you want it.To remove the split, tap **View > Remove Split**.
- Show and hide rows and columns.
 - To hide a row or column:
 - (a) Select a cell in the row or column you want to hide.
 - (b) Tap **Menu > Format > Row or Column > Hide**.
 - To display a hidden row or column:
 - (a) Select the cells which span the hidden row or column.
 - (b) Tap **Menu > Format > Row or Column > Unhide**.

Sending an Excel Mobile workbook

You can send an Excel Mobile workbook by beaming it to another person's IR- or Bluetooth-enabled device, or you can send it as an e-mail attachment. You can do any of these in the same manner as you do with a Word Mobile document. See "Synchronizing Word documents" on page 81 for more information.

Synchronizing Excel workbooks

You can synchronize Excel workbook created on your computer with your device. You can do this in the same manner as you do with Word documents. See "Synchronizing Word documents" on page 81 for more information.



PowerPoint Mobile

Use PowerPoint Mobile to view slide show presentations. You can download slide show presentations from a storage card, company network, internet, e-mail attachment or obtained by synchronizing with your personal computer.

To open PowerPoint Mobile:

- Tap > **Office Mobile** > **PowerPoint Mobile** .

Getting slide shows onto your device

You can download PowerPoint files from a memory card or the Web to your computer, then synchronize them with your device. To do so, you need to activate your device (you only need to activate it once), then set up synchronization for files in ActiveSync.

To get slide show presentation onto your device:

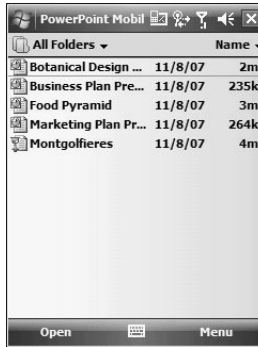
- 1 Open ActiveSync on your computer.
- 2 Use Windows Explorer on your computer to locate the **PowerPoint Mobile** folder and the **Pocket PC My Documents** folder.
- 3 Use ActiveSync to download the files from your computer to your device as described in the Read Me file in the PowerPoint Mobile folder.

Using PowerPoint Mobile

PowerPoint Mobile contains a list of files stored on your device. The file list is the default screen when you open PowerPoint Mobile.

To open a PowerPoint presentation:

- 1 Tap  > Office Mobile  > PowerPoint Mobile .



- 2 Tap the slide show you want to view.




- 3 Tap the current slide to advance to the next slide.

6 Using the Windows Mobile Programs


Microsoft Office Mobile programs

To stop a slide show presentation:


In a PowerPoint Mobile presentation, tap and hold , then tap **End Show**.



To change the slide show presentation:

- 1 In a PowerPoint Mobile presentation, tap and hold , then tap **Show Options**.
- 2 Tap the **Orientation** tab, then select the orientation.


To navigate between slides:

- 1 In a PowerPoint Mobile presentation, tap and hold the , then tap **Go to Slide**.
- 2 Tap the slide you want to view.

Setting the slide show playback options

You can change the PowerPoint presentation settings to turn off animation, prevent slide show transitions from playing, or set time interval between each slide.

To set the slide show playback options:


- 1 In a PowerPoint Mobile presentation, tap and hold the , then tap **Show Options**.
- 2 Tap the **Playback** tab; select the Override playback options for all files check box.
- 3 Perform any of the following:
 - Select the "Show without animation" option to turn off builds and other animations.
 - Select the "Show without slide transition" option to prevent slide transitions from playing.
 - Select the "Use slide timings, if present" option to use the timings recorded with each slide in a presentation.
 - Select the "Loop continuously" option to automatically advance to the first slide after the last slide in a presentation.
- 4 Tap **ok**.

Sending a PowerPoint file

You can send a PowerPoint file to another person either by e-mail or by beaming it to that person's IR- or Bluetooth-enabled device.

NOTE: You must first set up an e-mail account on your device before you can send a PowerPoint file by e-mail. See "To set up an e-mail account" on page 61 for more information.

To send a PowerPoint file by beaming:

- 1 In the PowerPoint document list, tap and hold the document.
- 2 Tap **Beam File** on the pop-up menu.
- 3 Perform one of the following:
 - Select a Bluetooth-enabled device, then tap the **Tap to send** link.
 - Align the IR port  of your device with that of the other IR-enabled device so that they are unobstructed and within close range, then select the IR-enabled device and tap the **Tap to send** link.

To send a PowerPoint file by e-mail:

- 1 In the PowerPoint document list, tap and hold the document.
- 2 Tap **Send via E-mail** on the pop-up menu.

A new message screen in Inbox displays with the selected note shown as an attachment (*.pwi).
- 3 Proceed to completing the e-mail message.

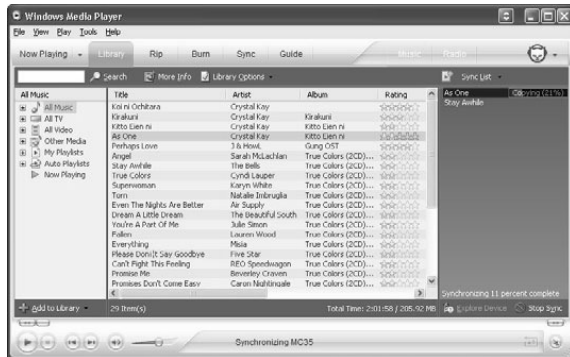
Windows Media Player

Enjoy your favorite music and movies on the road, online or offline, with the new Windows Media Player 10 Mobile for Pocket PC. The Player provides you with the highest quality audio and video experience for your mobile entertainment and it works seamlessly with Windows Media Player 10 on your Windows XP-based computer.

Copying files to your device

Use the Sync feature in Windows Media Player 10 on your computer to copy your digital media files to your device. Using the Player, instead of simply copying files using the Explore button in ActiveSync, ensures that licenses are copied with protected files.

- 1 In Windows Media Player on your computer, click the **Library** tab (you must first connect your device to your computer).
- 2 In the **Playlist** pane, click the playlist, category, or other item that you want to copy.
- 3 On the top right side of the screen, click **Now Playing List**, then select **Sync List**.
- 4 Drag the items from middle portion of the screen to the **Sync List** pane to add them to the list of items to be synchronized.
- 5 Click **Start Sync** at the bottom right corner of the screen.






Windows Media Player verifies that there is sufficient storage space on your device to copy the selected files. If there is sufficient space, the files are converted (if necessary) and copied. If the device has insufficient storage space, **May not fit** appears next to the selected items in the **Sync List** pane.

6 Using the Windows Mobile Programs

Windows Media Player

NOTE: To facilitate faster copying of audio files to your device, it is recommended that you configure Windows Media Player 10 on your computer to automatically determine the quality level settings applicable to your SP510 EDA. See the Windows Media Player Help on your computer for more information.

To open Windows Media Player 10 Mobile for Pocket PC:

- Tap  > **Programs**  > **Windows Media** 
The Player displays the last open screen from your previous session.

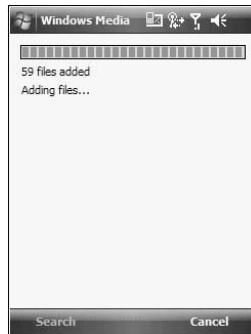
The library

The library contains links to your playlists and audio or video files. You can sort content by criteria such as artist name, album title or genre. By default, Windows Media Player 10 Mobile automatically searches your device for compatible digital media files and adds them to the My Device library. Similarly, when you insert a storage card into your device, Windows Media Player 10 Mobile automatically detects the files and adds them to the Storage Card library.

To update the library:

If the Player does not detect new files that you copy to your device, you can manually update the library.

- 1 Tap  > **Programs**  > **Windows Media** 
- 2 Tap **Menu** > **Update Library**.



- 3 Wait for files to be added, then tap **Done**.

The playlist

A playlist is a customized list of digital media files that you want to watch or listen to. Using a playlist lets you group various digital media files together and specify the order you want the files to play in. You can also use playlists to copy files to your computer.

You can create a playlist based on:

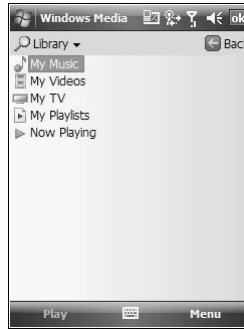
- **Source** - For example, tracks from various CDs of your favorite artist or streaming media from an online music site.
- **Personal preferences** - For example, a playlist of tracks belonging to your favored music genre or video clips from your funny movie collection.
- **Mood or activities** - For example, a playlist of tracks you want to listen while travelling or during your R&R periods.

The Player has two default playlists:

- **Local Content** - Consists of all compatible audio and video files stored on your device and/or storage card.
- **Web Favorites** - Consists of your favorite streaming media files. This playlist is empty until you add items to it.

To add items to the Now Playing playlist:

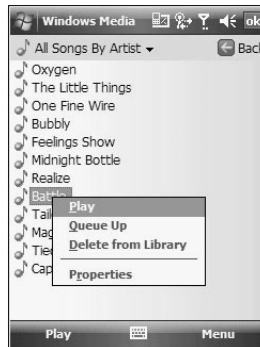
- 1 On the Library screen, tap **Menu > Library**.




- 2 Select a library in the Library pick list (for example a storage card).

TIP: If the Player does not detect new files that you copied to your device, you can manually update the library by tapping **Menu > Update Library**. After the files have been added, tap **Done**.

- 3 Select a category, then tap and hold the item that you want to add in the Now Playing folder.
- 4 Tap **Queue Up**.



- 5 Tap **Menu > Now Playing**.
- 6 On the Now Playing screen, tap  to switch to the Library screen and find items to add to the Now Playing playlist.

NOTE: To quickly add a group of files to the Now Playing playlist, tap and hold an item in the library (such as an album name, artist name or genre), then tap **Queue Up**.

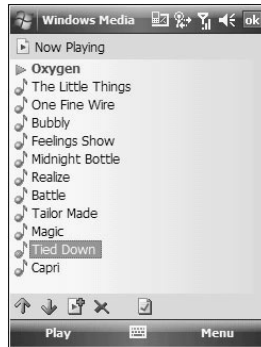
To edit the Now Playing playlist:

- 1 On the Player screen, tap **Now Playing**.
- or -






6 Using the Windows Mobile Programs

Windows Media Player

Tap **Menu > Library > Menu > Now Playing**, then the playlist you want to edit.

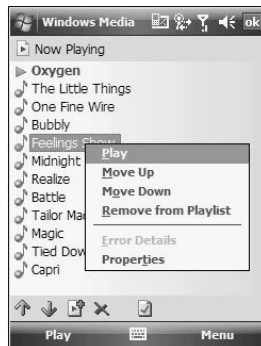


2 Perform any of the following:

- Tap  to move the selected item up in the playlist. You can also tap and drag an item to move it up in the playlist.
- Tap  to move the selected item down in the playlist. You can also tap and drag an item to move it down in the playlist.
- Tap  to display the Library screen and add items to the Now Playing playlist.
- Tap  to delete the selected item from the playlist.
- Tap  to view track properties of the selected item.

To delete an item in the Now Playing playlist:

- 1 On the **Playback** screen, tap **Now Playing**.
- 2 Tap and hold the item you want to delete, then tap **Remove from Playlist** from the pop-up menu.



- or -

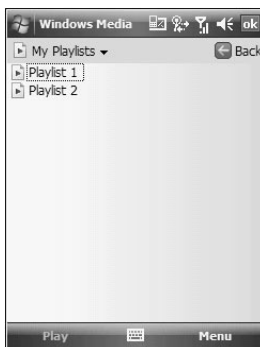
Tap an item you want to delete, then tap **Menu > Remove from Playlist**.

Viewing track properties

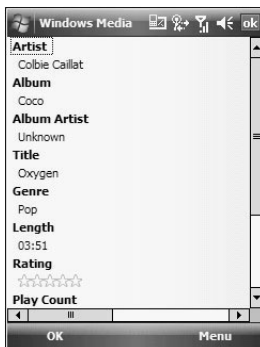
You can check the file properties of a track for your reference. You can do this either in a playlist screen or in the Player screen.

To view track properties from a playlist:

- 1 On the Library screen, tap **My Playlists**.




- 2 Tap a playlist category.
- 3 On the Playlist screen, tap or play a file.
- 4 Tap **Menu > Properties**.



- 5 Tap the scroll bar to view more fields.
- 6 Tap **ok**.

To view track properties from the Player screen:

- On the Playback screen, tap **Menu > Properties**.
- or -
On the Playback screen, tap **Now Playing**, then tap .
Tap the scroll bar to view more fields.

File Playback

The Player supports playback of the following file formats:

- Windows Media - Including .asf, .asx, .wax, .wm, .wma, .wmv, .wmx, and .wvx files.
- MPEG - .mp3 files

6 Using the Windows Mobile Programs

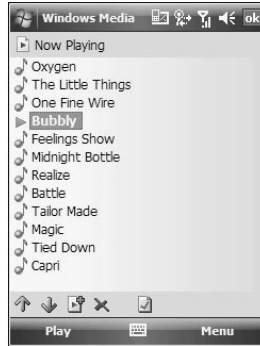
Windows Media Player


You can play files stored in your device, a storage card, or a network.

Playing a file stored in your device or in a storage card

If you want to use files stored in a storage card, install the card to your device. See “To insert a storage card” on page 12 for more information.

- 1 On the Playback screen, tap **Now Playing**.



- 2 Tap , then the playlist/location where the file you want to play is assigned/located.

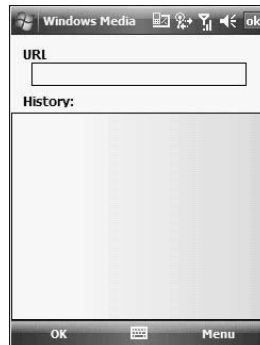
- 3 Tap **Play**.

Screen shifts to the Player screen. Unless you selected the last listed track in a playlist or location, the rest of the tracks will automatically be played.

Playing a streaming media file

You can play files located on a network. Your device must first be connected to the network before you can do this.

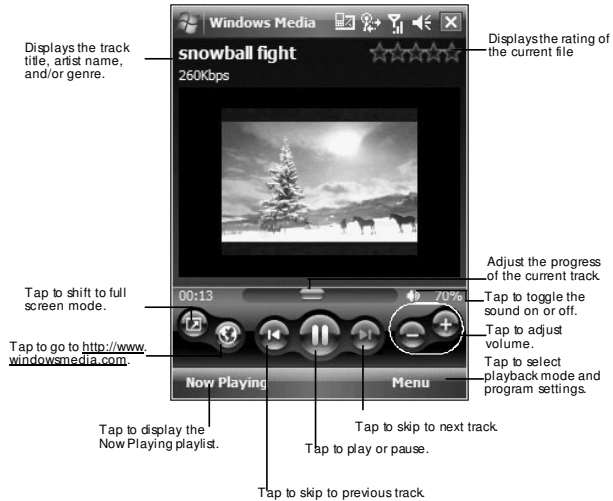
- 1 On the Playback screen, tap **Menu > Library**.
- 2 Tap **Menu > Open URL**.



- 3 Enter a URL.
- 4 Tap **ok**.
Screen shifts to the Player screen.

Playback controls

The user interface of the Windows Media Player Mobile Playback screen lets you easily manage all aspects of the track playback. The screenshot below shows the functions of the Playback control buttons, as well as all available menus.



To play a playlist in random order:

- Tap **Menu** > **Shuffle**.

To repeat playback of a playlist:

- Tap **Menu** > **Repeat**.

Customizing the Player

You can change the appearance and functionality of the Player to suit your personal style and preferences.

Using skins to change the Player look

Change the appearance of the Player by using skins. To download skins and learn related information, go to <http://www.microsoft.com/windows/windowsmedia/>.

To download skins from your computer to your device, follow the procedures described in the "Using ActiveSync to copy files" section on page 37.

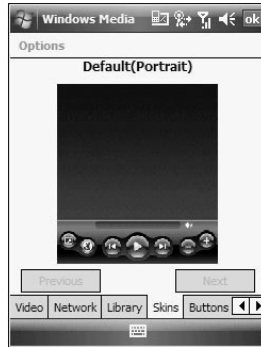
NOTE: To make sure that downloaded skins appear in the Skin Chooser panel, do not store the skin files in the Windows folder of your device.

6 Using the Windows Mobile Programs

Windows Media Player

To change Player appearance:

- 1 On the **Playback** screen, tap **Menu > Options > Skins** tab.
- 2 Tap the **Previous** or **Next** button to locate a skin.



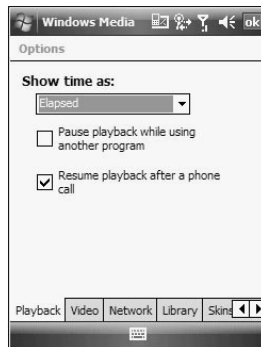
- 3 Tap **ok**.
The Player switches to skin mode.

Changing your audio and video settings

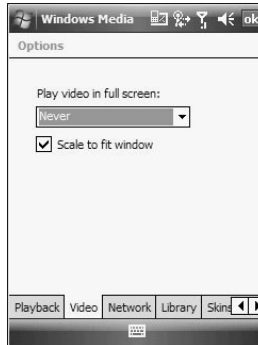
You can change the audio and video settings of the Player to suit your listening preferences.

To set audio and video preferences:

- 1 On the **Playback** screen, tap **Menu > Options > Playback** tab.
- 2 Perform the following:
 - In the "Show time as" list, select whether to show how much time has elapsed or remaining on the Playback screen.
 - Tap the "Pause playback while using another program" check box, to pause or continue playback when another program screen is displayed.
 - Select the "Resume playback after a phone call" option, to continue playback after a phone call.



- 3 Tap the **Video** tab, then perform the following:
 - In the "Play video in full screen" list, select a screen size for video playback.
 - Select the "Scale to fit in window" option to scale down oversized video files (typically over 240 x 176 pixels).



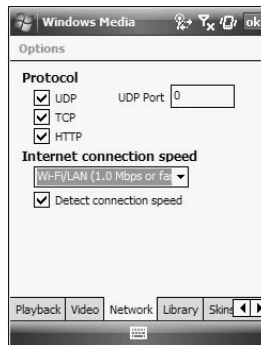
- 4 Tap **ok**.

Changing your network settings

You can define Player settings for connecting to a network to optimized playback of streaming media.

To set network settings:

- 1 On the Playback screen, tap **Menu > Options > Network** tab.
- 2 Select the check box opposite each network protocol you want to enable.
You must select at least one protocol.



- 3 Select the speed of your network connection.
- 4 Tap **ok**.

NOTE: Some networks use a firewall that prevents users from receiving streams. Contact your network administrator for more information.

6 Using the Windows Mobile Programs

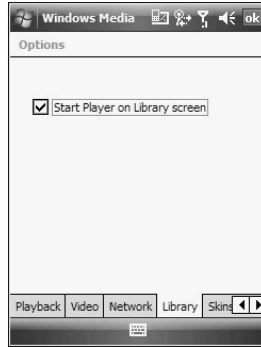
Windows Media Player

Changing the startup screen

You can define the startup screen when you start the Windows Media Player Mobile.

To change the startup screen:

- 1 On the Playback screen, tap **Menu > Options > Library** tab.
- 2 Perform one of the following:
 - Select the "Start Player on Library screen" option, to show the Library screen when you start the Windows Media Player Mobile.
 - Clear the "Start Player on Library screen" check box, to show the Playback screen when you start the Windows Media Player Mobile.



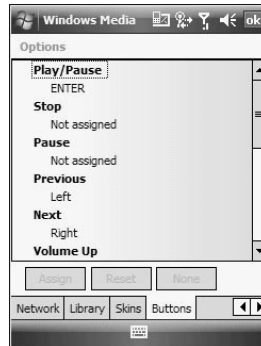
- 3 Tap **ok**.

Setting hardware playback controls

The button mapping function allows you to assign hardware buttons on your device to perform standard playback functions. You can also assign a button to toggle off the screen to help minimize power consumption while continuing to listen to music.

To map a button:

- 1 On the Playback screen, tap **Menu > Options > Buttons** tab.



- 2 In the list of controls, tap a control name.
- 3 Tap the **Assign** button, then press the hardware button on your device.
- 4 Tap **ok**.

Licenses and Protected files

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

Licenses are managed and created using digital rights management (DRM), which is the technology for securing content and managing the rights for its access.

Some licenses may prevent you from playing files that are copied to your device. Files that have licenses associated with them are called protected files.

Use the Windows Media Player on your computer to copy your digital media files to your device. Using the Player, ensures that licenses are copied with protected files.

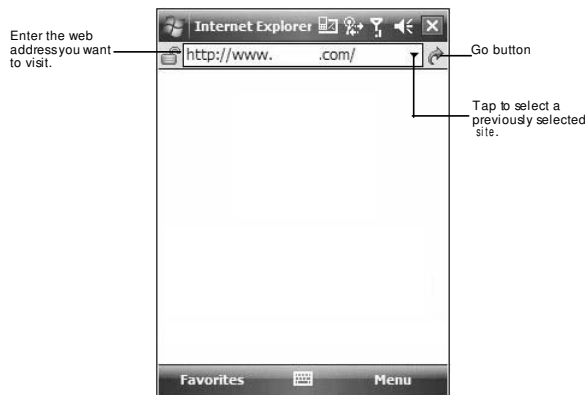
For more information on using Windows Media Player for Pocket PC, tap  > **Help** .

Internet Explorer Mobile

Use Internet Explorer Mobile to view Internet or Intranet sites from your device. You can download files and programs when browsing these sites. During synchronization with your computer, you can choose to download your favorite links and mobile favorites that are stored in the Mobile Favorites subfolder of Internet Explorer on your computer.

Internet Explorer Mobile includes support for:

- XHTML Basic
- Cascading Style Sheets
- WML 2.0
- JavaScript 5.5
- IPv6




To open Internet Explorer Mobile:

- Tap  > **Internet Explorer** .

Browsing the Internet

To connect and start browsing:

Perform any of the following:

- Tap **Menu** > **Favorites**, then tap the favorite you want to view.
- In the **address** bar that appears at the top of the screen, enter the Web address you want to visit, then tap .
- Tap the **Address Bar** pick list to choose from previously entered addresses.

6 Using the Windows Mobile Programs

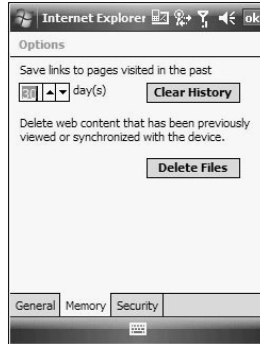
Internet Explorer Mobile

Viewing the History list

- Tap **Menu > History**.

To change the number of days of links stored in the History list and clear the History list:

- 1 On the Internet Explorer Mobile main screen, tap **Menu > Tools > Options > Memory** tab.

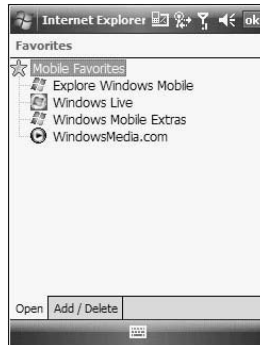


- 2 Tap the pick list under "Save links to pages visited in the past" to set the number of days of links.
- 3 Tap **Clear History** to delete the stored links.
- 4 Tap **ok**.

Mobile favorites

To display the Mobile Favorites navigation screen:

- 1 Tap **Menu > Favorites**.



- 2 Tap the page you want to view.
The page that was downloaded the last time you synchronized with your computer displays. If the page is not on your device, the favorite is dimmed. Synchronize with your computer again to download the page to your device, or connect to the Internet to view the page.

To add a favorite link:

- 1 While on the page you want to add, tap and hold on the page.
- 2 Tap **Add to Favorites** from the pop-up menu.



- 3 Make the changes you want on the Name and Address boxes.
- 4 In the Create in list, select the folder where you want the link to be stored.
- 5 Tap **Add**, then tap **ok**.

Mobile Favorites folder

Only items stored in the Mobile Favorites subfolder of the Favorites folder of Internet Explorer on your computer are synchronized with your device. This folder was created when you selected the Favorites information type for ActiveSync synchronization with your computer.

Favorite Links

During synchronization, the list of favorite links in the Mobile Favorites folder on your computer is synchronized with Internet Explorer Mobile on your device. Both locations are updated with changes made to either list each time you synchronize. Unless you mark the favorite link as a mobile favorite, only the link will be downloaded to your device, and you will need to connect to your ISP or network to view the content.

Mobile Favorites

If you are using Microsoft Internet Explorer 5.0 or later on your computer, you can download mobile favorites to your device. Synchronizing mobile favorites downloads Web content to your device and enables you to view pages while you are disconnected from your ISP and computer. To quickly create mobile favorites, use the Internet Explorer plug-in installed with ActiveSync.

To create a mobile favorite:

- 1 In Internet Explorer on your computer, click **Tools > Create Mobile Favorite**.
- 2 To change the link name, enter a new name in the Name box.
- 3 Optionally, in Update, select a desired update schedule.

If you did not specify an update schedule, you need to manually download content to keep the information updated on both your computer and device. Before synchronizing with your device, in Internet Explorer on your computer, click **Tools**, then **Synchronize**. You will see the last time content was downloaded to the computer, and you can manually download content if needed.

- 4 Click **OK**.

Internet Explorer downloads the latest version of the page to your computer.

TIP: You can add a button to the Internet Explorer toolbar for creating mobile favorites. In Internet Explorer on your computer, click **View > Toolbars > Customize**.

6 Using the Windows Mobile Programs

Windows Live

To download a mobile favorite:

- 1 Right-click the mobile favorite, then click **Properties**.
- 2 On the **Download** tab, specify the number of links deep you want to download.
To conserve device memory, go only one level deep.
- 3 Synchronize your device and computer.
Mobile favorites that are stored in the Mobile Favorites folder in Internet Explorer are downloaded to your device.

To save device memory in downloading mobile favorites:

Mobile favorites take up storage memory on your device. To minimize the amount of memory used, observe the following:

- In the settings for the Favorites information type in ActiveSync options, turn off pictures and sounds, or top some mobile favorites from being downloaded to your device.
- Limit the number of downloaded linked pages. In Internet Explorer on the computer, right-click the mobile favorite you want to change, then click **Properties**. On the **Download** tab, specify 0 or 1 for the number of linked pages you want to download.



Windows Live

Windows Live includes support for the following:

- Live Hotmail Mobile
You can read, write and send e-mail, delete e-mail and manage your Hotmail folder.
- Live Messenger Mobile
See who's online. Send and receive instant messages. Subscribe to status update for selected contacts so you are notified when they are online.
- Live Sync
You can sync contacts and e-mail between your device and Windows Live.
- Live Search bar
Launch a personalized browser that offers e-mail access and a portal that allows access to customized stock lists, weather, sports, entertainment and news headlines.

To open Windows Live:


- 1 Tap > **Programs** > **Windows Live** .

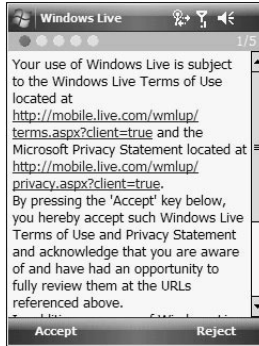


Enter query in the Live search bar.

To sign in to Windows Live:

Signing in to Windows Live helps to maintain a secure access to your Live Hotmail and Live Messenger accounts.

- 1 On the Today screen, tap  **Sign in to Windows Live.**



- 2 Tap **Accept** to agree to Terms of Use.

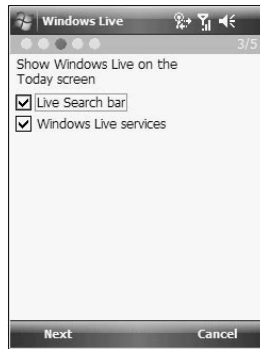


- 3 Enter your sign-in e-mail address and password.
Select the "Save password" option so you need not enter these information again the next time you sign in.

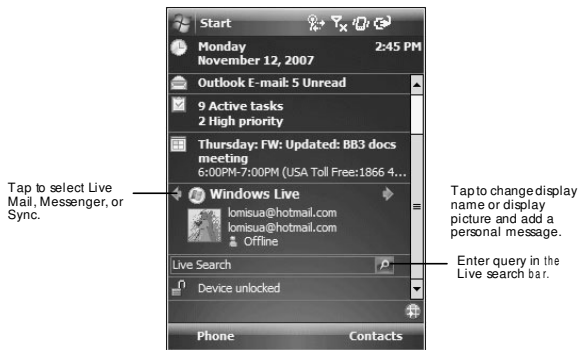
6 Using the Windows Mobile Programs

Windows Live

4 Tap Next



- 5 Follow the on-screen instructions to complete sign-up. After completing the sign-up, your Windows Live display name, display picture, and connection status appears on the Today screen.



For more information on how to use Windows Live, visit <http://support.live.com>.



Live Hotmail

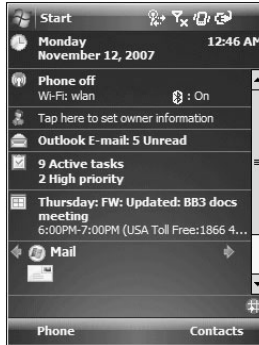
Windows Live Hotmail on your device lets you access your Live Hotmail Inbox.

NOTE: Make sure you create a connection to the internet before using Windows Live Mail.

To view your Windows Live Mail Inbox:

- 1 Sign in to Windows Live. See previous section for instructions.

- 2 On the Today screen, tap  and select **Mail** .



- 3 To synchronize your Windows Live Inbox so you see your latest e-mail messages, tap **Menu > Send/Receive**.



To create an e-mail message:

- 1 On the Windows Live Inbox screen, tap **Menu > New**.



6 Using the Windows Mobile Programs

Windows Live

- 2 Enter the e-mail add of your intended recipients in the "To" box.
- 3 Enter the subject in the Subject line.
- 4 Compose your message.
- 5 Tap **Send** when you have finished the message.



Live Messenger



Live Messenger on your device is an instant messaging program that lets you:

- See who is online
- Send and receive instant messages
- Conduct instant message conversations with groups of contacts

Requirements to use Live Messenger

- For Windows Live Messenger Service, a Passport. If you have a Hotmail® or MSN account, you already have a Passport.
- Sign up for a Microsoft Passport account at <http://www.passport.com>. Get a free Microsoft Hotmail e-mail address at <http://www.hotmail.com>.
- For Exchange Instant Messaging Service, an Exchange account.
- To set up an Exchange account, see your network administrator.

To open Live Messenger:

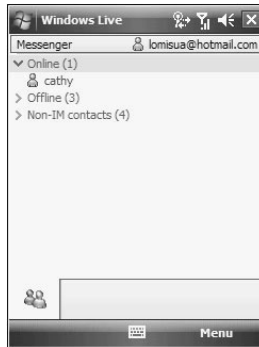
- 1 Sign in to Windows Live.
- 2 On the Today screen, tap  and select **Messenger** .



Tap to sign in. —

3 Tap **Sign In**.

If you already use Live or MSN Messenger on your computer, your contacts will show up on your device without being added again.

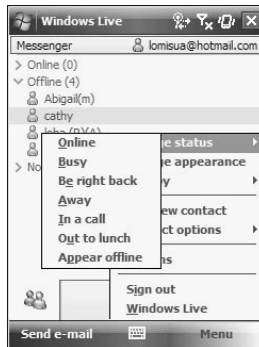


NOTE: To sign in after connecting to a wireless network, tap **Menu > Options > Messenger**, then follow the directions on the screen.

To work with contacts:

The Live Messenger screen shows all of your messenger contacts at a glance, divided into Online and Not Online categories. From this view, while connected, you can chat, send an e-mail, block the contact from chatting with you, or delete contacts from your list using the pop-up menu.

- To see others online without being seen, tap **Menu > Change Status > Appear Offline**.



- If you block a contact, you appear offline but remain on the blocked contact list.
- To unblock a contact, tap and hold the contact, then tap **Unblock** on the pop-up menu.

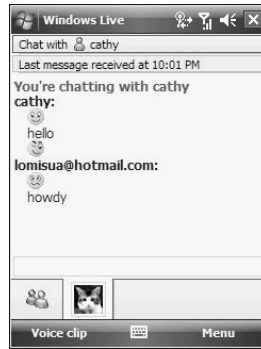
To chat with contacts:

- 1 To open a chat window, tap a contact name.
- 2 Enter your message in the text entry area at the bottom of the screen.

6 Using the Windows Mobile Programs

Windows Live

- 3 Tap **Enter**.



Tips when chatting with contacts

- To invite another contact to a multi-user chat, tap **Menu > Chat**, then tap the contact you want to invite.
- To return back to your chat window, tap **Menu > Chat**, then select the person with whom you were chatting.
- To see if the contact you are chatting with is responding, look for the message under the text entry area.

To sign out of your account:

- Tap **Sign Out**.





Live Sync

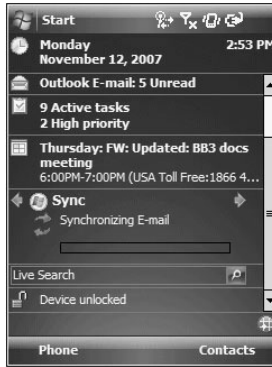
Windows Live Sync lets you synchronize Windows Live contacts, they will appear in your mobile device address book, allowing you to call, e-mail, or send instant messages to all your contacts more easily. You will also see your contact's online status, Spaces updates, and pictures in the address book. If you choose not to sync Windows Live contacts with your mobile device address book you will still be able to find your Windows Live contacts in Messenger.

NOTE: Make sure you create a connection to the internet before using Windows Live Sync.

To synchronize e-mail using Live Sync:

- 1 Sign in to Windows Live.

- 2 On the Today screen, tap  and select  **Sync**.



7 Using Phone

The phone function of your SP510 EDA boasts of standard cell phone features—such as mailbox and text messages—as well as several handy call features including Speed Dial, Caller ID, Conference Call, Call Forwarding, Call Waiting, Voice Mail and Text messages, Fixed Dialing, Call Barring, Call History, speakerphone, note taking, voice mail, and emergency number setting.

The Phone program is integrated with both Microsoft Contacts and Messaging. This means you can make a call and send e-mail/text messages from any of these three programs. This fully integrated functionality of Phone also makes sharing contact information between programs an easier task.

This chapter shows you how to install a SIM (Subscriber Identity Module) card on your device. It also describes basic phone operations and features, as well as ways of customizing the phone function based on your preferences.

- Phone setup
- Dialer screen
- Phone operation
- Making phone calls
- Phone features
- Phone profiles
- Phone preferences


Phone setup

Installing the SIM card

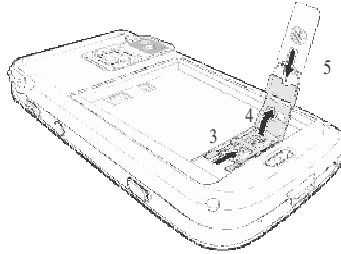
If you wish to use the phone function, you need to first install a valid SIM card.

A SIM card is a small printed circuit board that must be installed when signing on as a subscriber in a GSM-based mobile phone like your SP510. It contains subscriber details, security information and memory for a personal directory of numbers.

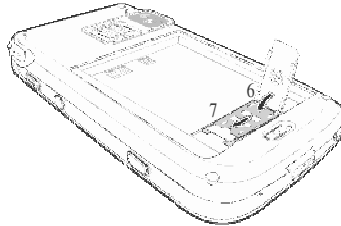
To install the SIM card:

- 1 If the device is switched on:
 - (a) Press the **Power** button  to turn off the device.
 - (b) Wait for five seconds to allow the device to completely enter sleep mode.
- 2 Remove the battery pack. See "To uninstall the battery pack" on page 2 for instructions.
- 3 With the rear panel facing you, slide the SIM card holder to the right.
- 4 Lift the holder halfway from the recess area.

- 5 Insert the SIM card into the SIM card holder.
Note the proper position of the SIM card—the card connector (i.e., gold area) should be facing downward with the beveled corner fitting the lower-left corner of the recess area.



- 6 Press the SIM card holder down.
7 Slide the SIM card holder to the left to lock it into place.



- 8 Reinstall the battery pack. See "To install the battery pack" on page 2 for instructions.
The default settings for your device are programmed on the assumption that you'll be using the phone function once you've properly installed a SIM card (and in some cases, entered a PIN), you can then proceed to establishing a connection to your mobile service provider's network.

NOTE: If you're not going to install a SIM card on your device, keep the Phone program closed or turn the program off using Wireless Manager to minimize power consumption.

Entering your PIN

After installing the SIM card you'll be able to activate your mobile service connection. In most cases, SIM cards are preset with a PIN (Personal Identity Number), provided by your mobile service provider.

To enter your PIN:

- 1 Tap  > **Phone** .
- 2 On the Dialer screen, enter the preset PIN from your mobile phone service provider.

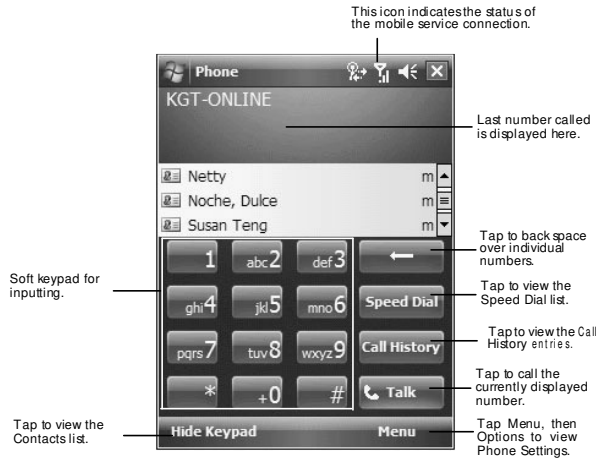


- 3 Tap **Enter**.

If you consecutively enter a wrong PIN for three times, the SIM card is blocked. If that happens, you can unblock it with the PIN Unblocking Key (PUK code) also provided by your mobile phone service provider.

Dialer screen

To launch the Dialer screen, tap > **Phone** or press the **Send** button .







Dialer buttons

The list below shows the actions of the Dialer screen buttons.

| Icon | Description |
|------|--|
| | Tap to erase the number you entered. |
| | Tap to view the Speed Dial list. |
| | Tap to see all received, made, and missed calls. |
| | Tap to call the displayed number. |
| | Tap to enable speakerphone mode. |
| | Tap to view Contacts. |
| | Tap to mute a call. |
| | Tap to hold a call. |
| | Tap to end a call. |
| | Tap during a call to create a note or recording for a particular call. |

Phone status icons

The list below shows the Phone-related status icons.

| Icon | Name | Description |
|---|--------------------|---|
|  | Network search | Indicates that the device is attempting to establish mobile service connection. |
|  | No network | Indicates that the device is not able to establish mobile service connection. |
|  | Phone off | Indicates that the phone is off. |
| | In network service | Indicates that the phone is connected to a network. |
| | Signal status | The number of bars indicates the strength of your connection signal. As the strength of the signal diminishes the number of bars in the icon diminishes, with no bars indicating no signal. |
| | Active call | Indicates that a call is being made or there is an incoming call. |
| | Speakerphone | Indicates that the speakerphone mode is enabled. See "Using the speakerphone" on page 114 for more information on how to activate the speakerphone. |
|  | Missed call | Indicates that you have a missed call. |
| | Unread message | Indicates that you have unread text or e-mail message(s), as well as voice mail notification(s). |

Phone operation


Turning the phone function on and off

If you have turned the phone function off, removed and then reinstalled the SIM card, the connection to your mobile service provider's network is not automatically enabled. You have the option to just use the device's EDA features or you can re-establish the mobile service connection.

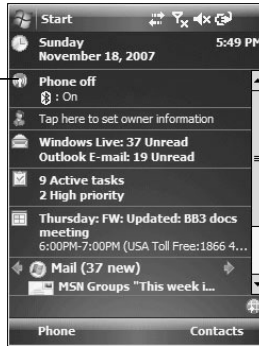
IMPORTANT: In many countries it is required by law to turn off cell phones when boarding commercial flights. Turning off your SP510 does not turn off the device's phone function; you must use the Wireless Manager to turn off the phone.

To turn on the phone function:

1 Launch the Wireless Manager application:

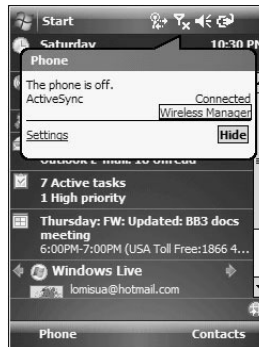
- On the Today screen, tap **Wireless Manager** .

Tap to launch the
Wireless Manager.



-or-

- On the Today screen, tap the **signal** icon  on the upper right corner of the screen, then from the Phone callout, tap **Wireless Manager**.



7 Using Phone

Phone operation

- 2 On the Wireless Manager screen, tap **Phone** to turn on phone function.



The signal icon changes indicating the SP510 is searching for a mobile connection. This may take a few seconds. The signal icon changes to , and to once a mobile connection is established.

To turn off the phone function:

- 1 Launch the Wireless Manager application.
 - On the Today screen, tap **Wireless Manager** .
 - or-
 - On the Today screen, tap the **signal icon** and select **Wireless Manager**.
- 2 On the Wireless Manager screen, tap **Phone** to turn off phone function.



Erasing number input


If you entered a wrong phone number when dialing, you can either backspace to erase individual digits or you can delete the entire phone number

- Tap to backspace over digits.
- Press the Backspace key on the keypad.



Answering a call

- On the Call Notification callout, tap **Answer** or press the **Send**  button.

Rejecting a call

- On the Call Notification callout, tap **Ignore** or press the **End**  button. Depending on your mobile service subscription, either a busy tone is sent out, or the call is forwarded to your voice mailbox.

Ending a call



- Tap **End**  or press the **End**  button.

Adjusting the phone volume

To adjust the phone volume, you must do so during a call. If you adjust the volume at another time it only affects the level of the system sounds (i.e., ring and notification alerts, .wmv/MP3 playback).






To adjust the phone conversation volume:

- 1 Tap  on the navigation bar or press the volume key down to bring up the Volume drop-down box.
- 2 Drag the  slider to adjust the phone volume.




Using the speakerphone

To attend to phone calls, attach the single earbud headset or activate the speakerphone mode. The speakerphone function allows you to talk hands-free and/or let other people listen to the caller.

To enable speakerphone mode:

- Press and hold the **Send**  button or tap the **Speaker On**  screen button until the speakerphone turns on as indicated by the appearance of the **Speakerphone** icon  on the navigation bar.

To disable speakerphone mode:

- Press and hold the **Send**  button or tap the **Speaker On**  screen button again until the **Speakerphone** icon  disappears from the navigation bar.

Muting a call

During a call you can mute the microphone so that the person with whom you are speaking cannot hear you, but you can still hear him or her. This is useful if, for example, you do not want the other person to hear a conversation or background noise on your side of the call.

To mute a call:



- During a call, tap **Mute**  to toggle the mute function on and off.





The mute icon  is displayed on the Dialer screen's entry area to indicate that the mute function is enabled.

Making phone calls

The integrated nature of your device's phone function lets you make calls in a variety of ways across different applications. You can make a call by:

- Manually entering a phone number using the Dialer keypad.
 - Accessing numbers using Speed Dial, Call History, Microsoft Contacts or SIM Manager.
- Once a call has been initiated the signal icon  changes to  indicating an active call.



To make a call using dialer:

- 1 On the **Dialer** keypad, tap the phone number you want to call.
- 2 Tap **Talk**  or press the **Send**  button.




To make a call using Microsoft Contacts:

There are several ways to make a call in Contacts. In this section, only the method using the hardware buttons is described. See "Calling a contact" on page 67 for instructions on other methods.

- 1 Tap  > **Contacts** .

Contacts opens to the contact list.



- 2 Type a name or number, or move the joystick up or down to scroll through the contact list and select the contact you want to call.
- 3 Press the **Send**  button twice—once to launch Phone and another to make the call. The call will be made to that contact's priority number.

To make a call using Speed Dial:

Speed Dial is a list you create for numbers you call regularly. Only numbers stored in Microsoft Contacts can be added to this list.

You can make a call in two ways:

- By memorizing a phone number's position in the Speed Dial list, you can dial the number by entering its location number.





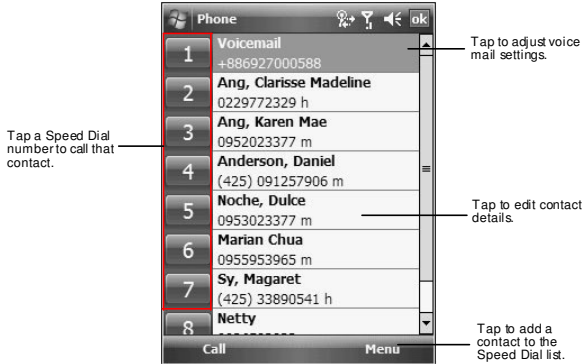
In the picture above, Clarisse Madeline Ang is at position 2. To dial her number, tap and hold 2 on the Dialer keypad until you hear a beep.

If a number holds a position of 10 or higher tap the first number, and then tap and hold the second to dial. For instance, to call the number in position 12, tap 1 then tap and hold 2.

7 Using Phone


Phone operation

- Alternatively, if you don't remember the position of a number in the Speed Dial list follow the steps below:
 - Tap **Speed Dial** .
 - On the **Speed Dial** screen, press the joystick to go through the list to find the number you want to call.
 - Once the number is selected, you can either press the joystick or the **Send**  button to initiate the call.

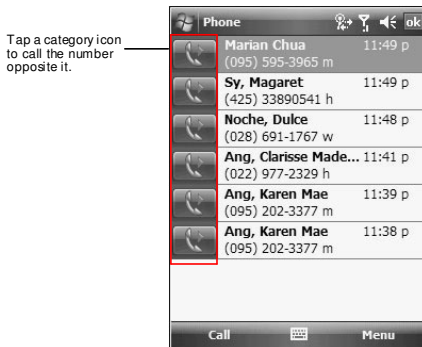


To make a call using Call History:

Call History is a record of all incoming, outgoing, and missed calls.




- Tap **Call History** .
- Find the number you want to call. You can select a call category—All Calls, Missed, Outgoing, Incoming, and By Caller—by tapping the pick list in the top-left corner of the screen.
- Once the number has been selected press the joystick or the **Send** button to make the call.

Tap the **category** icon on the left of the selected number.




To make a call using SIM Manager:

SIM Manager is a program you can use to view and manage the contents of your SIM card.

- 1 Tap  > **Settings** .
- 2 On the **System** tab, tap **SIM Manager**  .
Wait for the SIM card contents to load.



- 3 Scroll to the SIM contact you want to call and perform any of the following:
 - Press the joystick.
 - Press the **Send**  button.
 - Tap and hold the SIM contact, then select Call from the pop-up menu.

To make a call from a Bluetooth-enabled headset:

You can use a Bluetooth-enabled headset with your device when you create a partnership between your device and the headset.

- 1 Make sure that the two devices are turned on, discoverable, and within close range.
- 2 Tap  > **Settings** .
- 3 On the **Connections** tab, tap **Bluetooth** .
- 4 On the **Devices** tab, tap **Add new device**.



Your device will search for other Bluetooth devices and displays them in the device list.

- 5 Tap the name of the Bluetooth-enabled hands-free device in the list, then tap **Next**.



7 Using Phone

Phone features

- 6 If you want to use a passcode, enter the alphanumeric passcode for the Bluetooth-enabled hands-free device, then tap **Next**.
You can find the passcode in the manufacturer's documentation for your hands-free device.
- 7 Tap **Finish**.
- 8 Select the check box for the Hands Free service, and tap **Finish**.

To make an International call:

For making a call to an overseas number that is not stored either in your SIM card or on your device, follow the steps below.

- 1 Tap and hold the Backlight/0 key until the plus (+) sign appears.
This sign replaces the international number prefix "00".
- 2 Enter the full phone number you want to dial.
It includes the country code, area code (without the leading zero), and phone number.
- 3 Tap **Talk**  or press the **Send**  button.



Making an emergency call

SP510 supports the international emergency number 112, and for US/Canada residents, the emergency number 911 as well. You can call these numbers for emergency police, fire, and medical assistance.

NOTE: In some cases, additional local emergency numbers may be provided by your mobile phone service provider.

Generally, you can make a call to these emergency numbers, with or without a SIM card installed on your device, as long as a mobile phone service network is available in your area. However, some mobile phone service providers may require that a SIM card is inserted, and in some cases that the PIN has been entered as well, before an emergency call can be made. Contact your mobile service provider for the requirements applicable to your mobile subscription.

To make an emergency call:

- 1 Dial the emergency number by using Dialer.
 - For international emergency calls, dial 112.
 - For US/Canada emergency calls, dial 911.
- 2 Tap **Talk**  or press the **Send**  button.

Phone features

Flexibility is a hallmark of your device's phone function. This is best exemplified in such features as Call Notification, Call Hold and Conference Call, which allows you to attend to more than one call simultaneously—all with a simple tap of your stylus.

Variety is another hallmark of your device's phone function. This is implemented in such range of features as Call Notes, text/e-mail messaging, Voice Mail, and Contacts Integration.

NOTE: The availability of some of the phone features described in this section may depend on your mobile service subscription. Contact your mobile service provider for information.

Call notification and identification

The Call Notification feature lets you know if another person is trying to call you when you are talking on the phone. When this happens the following callout appears.



The Caller Identification feature matches the incoming call number with those stored in Contacts so you know who is calling you.

Call hold

After being notified of an incoming call while already on the phone, you can choose to reject a call by tapping the Ignore button on the Call Notification callout, or you can use the Call hold feature to attend to both calls.

To put a call on hold:

- On the Call Notification callout, tap **Answer** to take the incoming call and put the original one on hold.

To swap between calls:

- To shift between two callers tap **Menu > Hold**.



Conference call

With the Conference Call feature you can create a conversation line between several callers. You can either, put a call on hold, then dial another number and wait for it to be picked up; or accept an incoming call when you already have one in progress.

To set up a conference call:

- During a call with two active numbers, tap **Menu > Conference**.
If the conference connection is successful the word "Conference" will appear in the input area of the Dialer screen.

To add additional people to a conference call:


You can connect up to six (6) callers at a time in a conference call.

- 1 During an active conference call, tap **Menu > Hold**.
- 2 Key in the new number.
- 3 Tap **Resume** to return and continue with the conference call.
- 4 Repeat steps 1-3 to add more people in the conference call.

Call notes

The Call Notes feature allows you to create a written or recorded note during a call. The call note will be saved as an attachment to your call as viewed in Call History.




To create a call note:

- 1 During an active call, tap **Note** .
- 2 On the **Notes** screen, use any of the input methods to compose your call note.

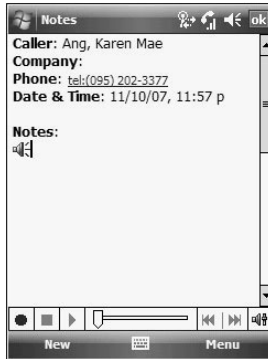


- 3 After you finished your call note, tap **ok**.

To add a recording to a call note:

- 1 During an active call, tap **Note** .
- 2 On the **Notes** screen, tap **Menu > View Recording Toolbar**.
- 3 Position your device's built-in microphone near your mouth or other source of sound.
- 4 On the Recording toolbar, tap .
- 5 Tap  to stop recording.



The new recording appears as an embedded icon.

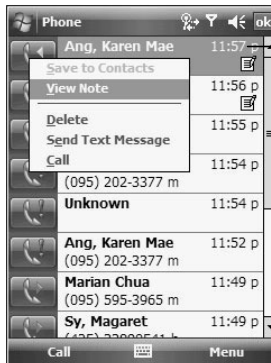


6 Tap **ok**.

To view a call note:

You can view call notes either from the Call History screen or from the Notes program.

- On the Call History screen:
 - (a) Tap **Call History** .
 - (b) Select a log item marked with this .
 - (c) Tap and hold the selected log item, then tap **View Note** from the pop-up menu.

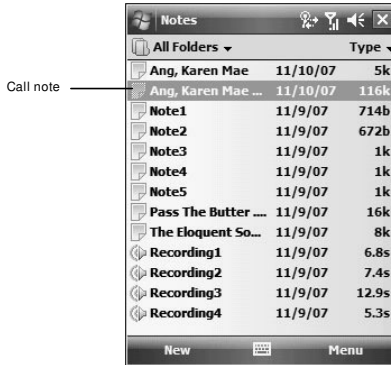


Tap a call note.

7 Using Phone

Phone features

- On the **Notes** screen:
 - Tap the call note from the list.
- A call note's label corresponds to the name or phone number of the related contact.




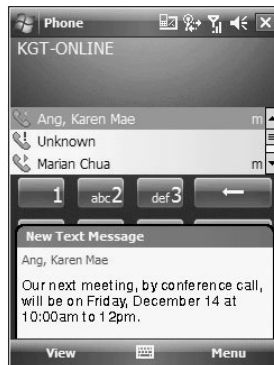
Text messaging service

Just like a regular mobile phone, you can send and receive text messages using your device. Your account is automatically setup in Inbox when you activated your mobile service subscription.

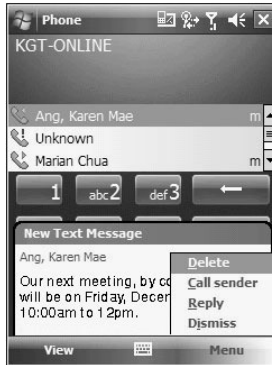
To view a text message:



You can view a text message whether the phone function is on or off.

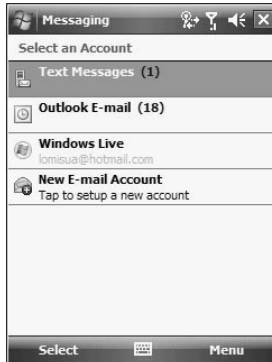
- When the phone function is on, you can view a text message from its notification callout:
 - Tap the **text message notification** icon  on the navigation bar to display the message.



The Caller Identification feature matches incoming text message numbers with those stored in Contacts so you know who is sending you a message. Furthermore, the "New Text Message" callout gives you the option to call the sender or save, dismiss, or delete the message.



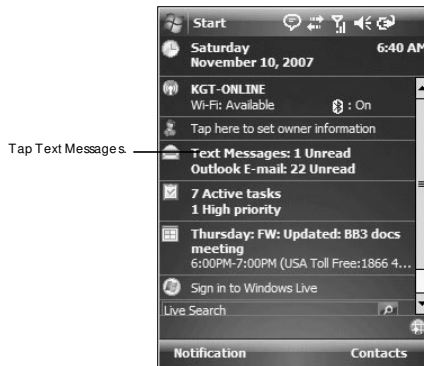
- When the phone function is off, you can still view received text message in Messaging:
 - (a) Perform one of the following:
 - Tap  > **Messaging**  > **Text Messages**.



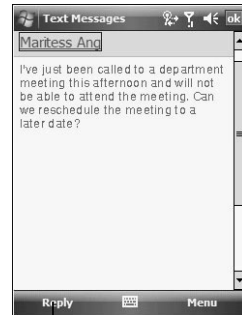
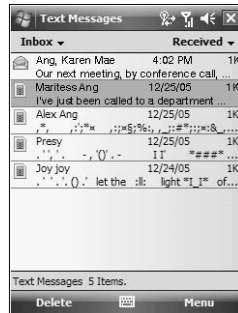
-or-

7 Using Phone *Phone features*

- On the Today screen, tap **Text Messages**.



- (b) In the message list, tap a text message.



NOTE: If the phone function is turned off and you tried to call the sender, send a reply, or forward the message, you will be prompted to turn the phone function on.

To create a text message:

- 1 On the **Dialer** screen, select a contact name that you want to send a message to.
- 2 Tap **Menu** > **Send Text Message**.



- 3 Compose your message.



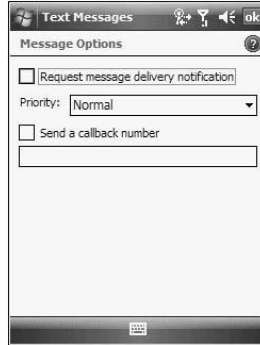
7 Using Phone

Phone features

The auto-correct feature automatically fixes common spelling errors as you type so your messages are more accurate.

The character counter lets you see and control the size of the message as you compose.

If you want to know if your text message was received, tap **Menu > Message Options**, then select the Request SMS text message delivery notification check box.



- 4 Tap **Send** when you've finished the message.


If the phone function is turned on, your text message will be sent out. If it's off, you will be prompted to turn on the phone function. If you do so, the message will be sent out; otherwise when you tap **ok**, the message will be saved in the Drafts folder and you can send it out later.


Voice mail

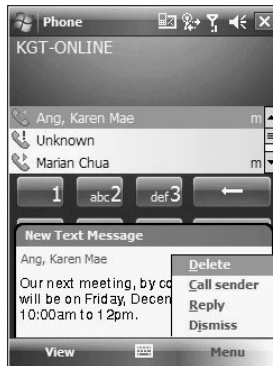
With the voice mail service you need not miss a message when you miss a call. Unattended calls (i.e., no answer, phone function is turned off or is out of network service) or a busy line will automatically forward callers to your voice mailbox where they can leave their messages.

When you insert your SIM card into your device, it will automatically detect and set as default the voice mailbox number provided by your mobile service provider. By default, the first Speed Dial location is assigned to your voice mailbox.

To retrieve your voice mails:

- Tap and hold the  button on the Dialer keypad.
Your voice mail retrieval number is automatically dialed.

- Tap the **New Text Message Notification** icon  informing you of the new voice mail, then tap **Menu > Call sender** from the “New Text message” callout.



Contacts integration

Your device's phone function is integrated with other applications making it easy for you to share contacts—phone numbers—between programs. Listed below are the places where contacts can be stored on your device:

- Microsoft Contacts
Your contact list contains phone numbers that you can use in Phone.
- Your SIM card
You interchange your SIM card between your SP510 and another device; while using the other device you can create new contacts on the SIM card.
- Call History
New contact numbers can be found in incoming or missed calls.

Sharing contacts in Microsoft Contacts

Below are several advantages for exporting contact information to Microsoft Contacts:

- As a backup in case you lose your SIM card while using it with another device.
- If you are using your SIM with another device, you may need the numbers stored in Microsoft Contacts.
- Exporting phone numbers to Microsoft Contacts allows you to create a more detailed record.

To add contacts to Microsoft Contacts:

You can choose to create new contacts or add contacts from SIM Contacts or from Call History.

- See “To create a contact” on page 66 for more information on creating new contacts.
- See “Sharing contacts in call history” on page 129 for more information on adding Call History items.
- See “Sharing contacts in SIM Contacts” on page 129 for more information on adding SIM contacts.

To export contacts from Microsoft Contacts:

- 1 Perform one of the following:
 - Tap and hold a contact to display the pop-up menu.
 - Tap a contact to select it, then tap **Menu**.If you do not select a contact, the first entry on the list will be exported.
- 2 Select the location where to export the contact.

7 Using Phone

Phone features

To export a contact to Speed Dial:

- 1 Tap a contact to select it, then tap **Menu > Add to Speed Dial**.



- 2 In the next screen add the contact details.
- 3 Select a location. You can either:
 - Accept the default location which is the first available position in the Speed Dial list.
 - Use the up and down arrows in the **Location** field to scroll and select the desired location. If you want to put a number in a position that is already occupied, the new number will overwrite the number already there.
- 4 Tap **ok**.

Sharing contacts in SIM Contacts

SIM Contacts enable you to manage all contacts stored in your SIM card with the option to export this information to Microsoft Contacts.


To export SIM contacts:

You can choose to export individual or all SIM Manager contacts to Microsoft Contacts.

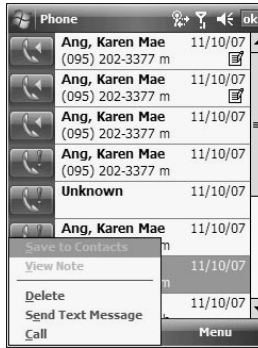
Sharing contacts in call history

Call History is a record of all incoming, outgoing, and missed calls. You have the option to export new numbers under the Incoming and Missed categories to Microsoft Contacts.

To export Call History entries to Microsoft Contacts:

- 1 On the **Dialer** screen, tap **Call History** .
The Incoming or Missed categories appear.
- 2 Tap and hold the number you want to export.

- 3 In the pop-up menu that appears select **Save to Contacts**.



- 4 On the Contact screen add additional contact details.


- 5 Tap **ok** or press the joystick.

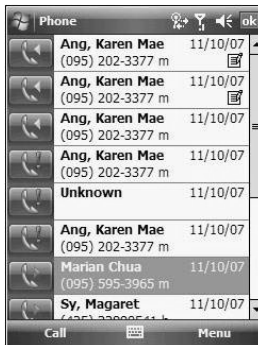
The call details in the **Call History** for the transferred number will change to display the contact name specified.

Call History

All calls made on your device are recorded in Call History. It provides the time and duration of all incoming, outgoing, and missed calls, and a summary of total calls. You can refer to it to access any notes taken during a call. You can also set a limit on the number of entries or delete them as necessary to save memory space.

To view Call History:

- On the Dialer screen, tap **Call History** 



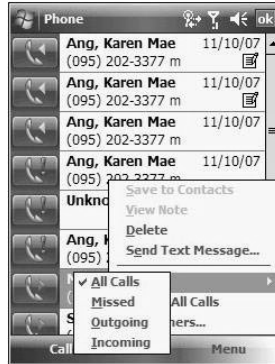
7 Using Phone

Phone features

To change the Call History view:

You can limit the number of entries that appear on the Call History list according to specific criteria, such as All Calls, Missed, Outgoing, Incoming, or By Caller.

- 1 On the **Dialer** screen, tap **Call History**.
- 2 Tap **Menu > Filter**, then select a different view. For example, you can view only missed or incoming calls.



The Call History list can be filtered according to the following criteria.

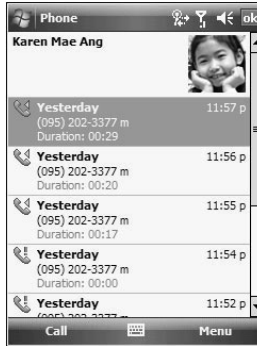
| Category | Description |
|-----------|--|
| All Calls | Shows all calls made to and from your device in a chronological order. |
| Missed | Shows calls made to your device that were not answered. |
| Outgoing | Shows all calls made from your device. |
| Incoming | Shows all calls made to your device. |

Call details

Call History allows you to check the date and time a call was made, as well as the duration.

To view call details:

- Find the call you are interested in, then tap it once.

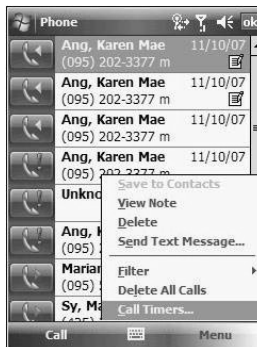


Call history limit

To minimize the memory space occupied by the Call History items, you can set a limit for the number of entries retained after a specific period of time. You can also delete items that you no longer need.

To set the Call History limit:

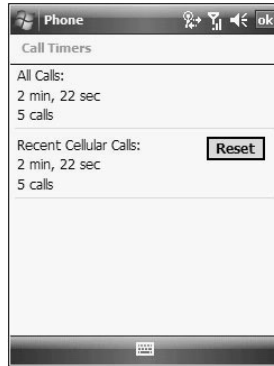
- 1 On the command bar, tap **Menu > Call Timers**.



7 Using Phone

Phone profiles

- 2 On the **Call Timers** screen, tap the "Delete call history items older than" pick list, then, tap a time period option.



- 3 Tap **ok**.

To delete individual Call History entries:

- Tap and hold the entry you want to delete, then from the pop-up menu, select **Delete**.

To delete all Call History entries:

- From the command bar, tap **Menu > Delete All Calls**.

Phone profiles

Your device supports five types of preset profiles. These preset profiles allow you to personalize the ring tone, image, and profile expiration time settings of your device, and to activate a profile for different events and environments.

To activate a pre-defined phone profile:

- 1 Tap **Settings**.
- 2 On the **System** tab, tap **Phone Profiles**.
- 3 Select a profile setting.
- 4 Tap **Menu > Active**.



To create a new phone profile:

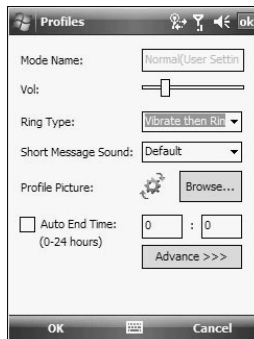
- 1 Tap **Settings**.
- 2 On the **System** tab, tap **Phone Profiles**.
- 3 Tap **New** > **Yes**.



- 4 Define the phone profile settings.
- 5 Tap **OK** > **ok**.

To change a phone profile setting:

- 1 Tap a profile setting that you want to change.
- 2 Tap **Menu** > **Edit**.



- 3 Enter a profile name.
- 4 Set the ring volume for incoming voice calls and messages by pressing the **Volume** key up or down.
- 5 Select a ringing option for incoming voice calls in the **Ring Type** list.
- 6 Select a ringing option for incoming messages; tap the **Short Message Sound** list.
- 7 Select a picture to add to your profile by tapping **Browse**.
- 8 Set the duration of the alerting signal prior to an incoming voice call or SMS message.
- 9 Tap **Advance**.
- 10 On the **Incoming**, **Reminders**, and **Message** tab, define settings for an incoming voice call or SMS message.
- 11 Tap **Save** > **OK**.
- 12 Tap **OK** > **Yes**.

7 Using Phone

Phone preferences




To delete a phone profile:

- 1 Tap a profile setting.
- 2 Tap **Menu > Delete**.
- 3 Tap **Yes > OK**.

To activate the HAC profile:

SP510 is compliant with the FCC HAC (Hearing Aid Compatibility) requirements. When some wireless devices are used near hearing devices (such as hearing aids and cochlear implants), a buzzing, humming, or whining noise may be detected. Some hearing devices may be more immune than others to this interference, and wireless devices also vary in the amount of interferences they generate. SP510 has a predefined HAC profile that optimizes the audio performance for some hearing aids.

NOTE: Some hearing aids may be more immune than others are to interference. Consult your hearing health-care professional to determine the rating of your hearing aid and whether the hearing aid will work with this device.

- 1 Tap  > **Settings** .
- 2 On the System tab, tap **Phone Profiles** .
- 3 Tap **HAC**.
- 4 Tap **Menu > Active**.



Phone preferences

You can configure most features of the phone function to suit your preferences. You do this by accessing the Phone option under Settings.

To access Phone settings:

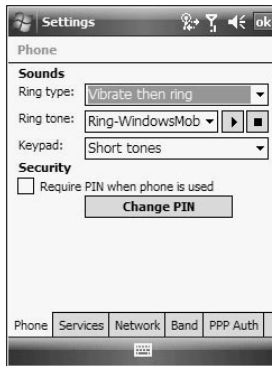
- On the Dialer screen, tap **Menu > Options**.
- or -

From any other screen, tap  > **Settings**  > **Personal** tab > **Phone** .

The Phone Settings screen has five tabs—Phone, Services, Network, Band, and PPP Auth. Refer to the following sections for the configuration options available for each tab.

Phone tab

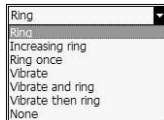
Configure sound and security settings in this tab.



NOTE: Before proceeding with the configuration, make sure Phone is turned on.

To configure ring type, ring tone, and keypad sounds

- 1 Turn on Phone.
- 2 In the **Sounds** option, tap the pick list for each field, then select your choice from the drop-down list.



Ring Type



Ring Tone



Keypad Sounds

To listen to a ring tone:

- Select the ring tone file you want to play, then tap the **Play** button. To stop ring tone playback, tap the **Stop** button.


To customize the ring tone options:

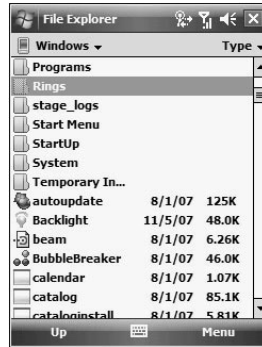
To have a more personalized batch of ring tones to choose from, you can download additional sound files to your device. File formats supported include .wav, .wma, .mp3, and .mid.

- 1 To add more ring tone options to your device, you can:
 - Synchronize sound files from your computer using ActiveSync.
 - Download sound files from a network using a GPRS connection
 - Received sound files from other IR- or Bluetooth enabled devices.

7 Using Phone

Phone preferences



- 2 After receiving the sound files in your device, use **File Explorer**  to make sure that they are located in the My Device | Windows | Rings folder. Only then will they be listed as ring tone options.

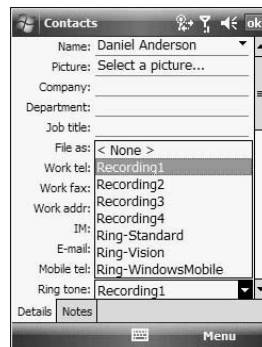


- 3 Create customized ring tone options by creating stand-alone recordings in Notes. These recordings are automatically copied to the **My Device | Windows | Rings** folder. See "To set a voice recording as ringtone" on page 30 for related instructions.

To associate a ring tone with a contact:

Rings tones can be set to be triggered by a contact to let you know at once when an incoming call is from that contact without looking at the display.

- 1 Tap  > **Contacts** .
- 2 Tap a contact in the contact list (or select it using the joystick), a summary screen displays. This is referred to as a contact card.
- 3 Tap **Menu > Edit**.
- 4 On the **Ring tone** list, select a voice recording.



- 5 Tap **ok**.

Configuring your PIN

Under the Security options, you can change your PIN and have it enabled or disabled.

To enable your PIN:

- Select the "Require PIN when phone is used" check box.

To disable your PIN:

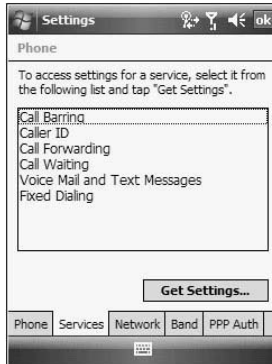
- Deselect the "Require PIN when phone is used" check box.

To change your PIN:

- 1 Tap the **Change Pin** button. The Dialer screen displays.
- 2 Enter the old PIN, input a new one, then retype it for confirmation.

Services tab

Configure the different phone services in this tab—Call Barring, Caller ID, Call Forwarding, Call Waiting, Voice Mail and Text Messages, and Fixed Dialing.



NOTE: The availability of some of the phone services described in this section may depend on your mobile service subscription. Contact your mobile service provider for information.

Call barring

You have the option to block calls in specific situations.

To enable or disable call barring:

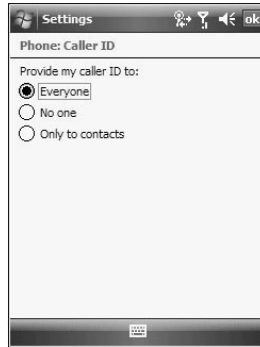
- 1 On the services list, tap **Call Barring**.
- 2 Tap the **Get Settings** button (retrieving settings may take a few minutes).
- 3 On the next screen, define the call barring settings.
 - Block incoming calls
 - All calls - to prevent any calls from coming through
 - When roaming - to block incoming calls when in phone service is in roaming status
 - Off - to accept all incoming calls
 - Block outgoing calls
 - All calls - to prevent any calls from being made from your device
 - International - to block outgoing international calls
 - International except to home country - to block all outgoing international calls other than those being made to the set home country
 - Off - to disable call barring for all outgoing calls
- 4 Tap **ok**.

Caller ID

When this service is enabled and you make a call, your phone number will be displayed on the phone screen of the person you're calling.

To enable or disable Caller ID:

- 1 On the **services** list, tap **Caller ID**.
- 2 Tap the **Get Settings** button (retrieving settings may take a few minutes).
- 3 On the next screen, define the caller ID settings.
 - Everyone - to enable Caller ID
 - No one - to disable Caller ID
 - Only to contacts - to enable caller ID for selected phone numbers only



- 4 Tap **ok**.

Call forwarding

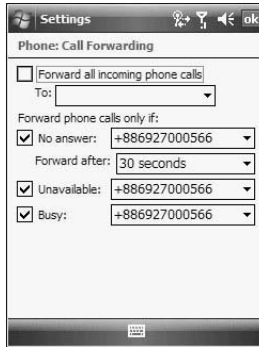
This service allows you to forward incoming calls to another phone number. You can choose to forward all calls to the same number or specify a number based on the following conditions:

- Unavailable - the phone function is turned off or is out of network service
- Busy - when you are attending to a phone call
- No answer - when you are not answering your phone calls

To enable or disable call forwarding:

- 1 On the **services** list, tap **Call Forwarding**.
- 2 Tap the **Get Settings** button (retrieving settings may take a few minutes).
- 3 On the next screen, follow these steps to enable or disable call forwarding:
 - To enable call forwarding:
 - Tap the "Forward all incoming phone calls" check box, then specify the call forward phone number on the "To" field.
 - or -
 - To forward incoming calls to a different number based on the following conditions, then specify the call forward phone number on the box opposite it:
 - No answer - forward calls to a specific phone number when you can't answer your phone
 - Unavailable - forward calls to a specific phone number when the phone is turned off or you are unreachable
 - Busy - forward calls to specific phone number when the line is busy

- To disable call forwarding, deselect all the check boxes.



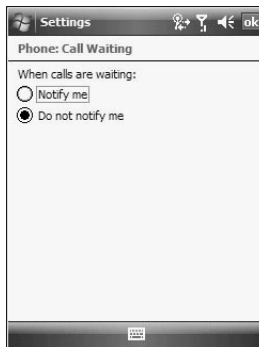
4. Tap **ok**.

Call waiting

This service allows you to receive another call during an active call.

To enable or disable call waiting:

- 1 On the services list, tap **Call Waiting**.
- 2 Tap the **Get Settings** button (retrieving settings may take a few minutes).
- 3 In the next screen, define the call waiting settings.
 - Notify me - to enable call waiting, or
 - Do not notify me - to disable call waiting



4 Tap **ok**.

7 Using Phone

Phone preferences

Voice mail and text messages

By default your device will automatically detect and set the voice mail and text messages access numbers provided by your mobile service provider. You can view these numbers for your reference.

To view voice mail and text messages numbers:

- 1 On the [services](#) list, tap **Voice Mail and Text Messages**.
- 2 Tap the **Get Settings** button (retrieving settings may take a few minutes).

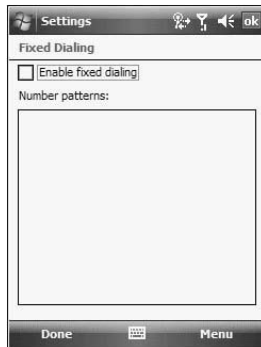


Fixed dialing

This service allows you to set predefined numbers or prefixes that you would like to call.

To create fixed number entries:

- 1 On the services list, tap **Fixed Dialing**.
- 2 Tap the **Get Settings** button (retrieving settings may take a few minutes).



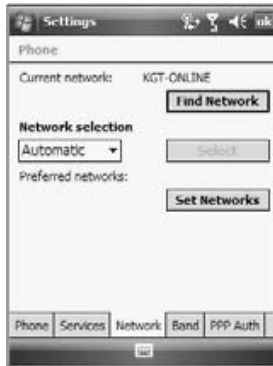
- 3 Tap the "Enable fixed dialing" check box, then tap **Done**.
- 4 To add a number to the list, tap **Menu > Add**.
- 5 Enter the phone number or area code you want to be restricted, then tap **Done**.
- 6 Repeat steps 4 and 5 to add more numbers, then tap **Done**.
- 7 Enter the unblock (PUK2) code.
- 8 Enter the PIN2, then tap **Done**.

To edit entries:

- 1 On the **services** list, tap **Fixed Dialing**.
- 2 Tap the **Get Settings** button (retrieving settings may take a few minutes).
- 3 Select the number pattern, then tap **Menu**.
- 4 Tap **Edit**, then enter PIN2 and tap **Done**.
- 5 Enter the new number, name, and position, then tap **Done**.

Network tab

This tab allows you to configure settings related to mobile service networks. The currently activated network is indicated on the first line of this tab.



To find a network:

Do this when the network status is currently out of network service and you want to conduct a search.

- Tap the **Find Network** button (search process may take a few minutes).

To select a network:

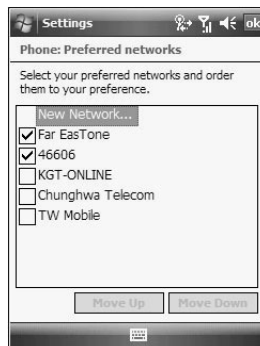
Set the mode for conducting a network search.

- In the **Network selection** drop-down list, tap either **Automatic** or **Manual**. Retrieving network settings may take a few minutes if you select **Manual**.

To set preferred networks:

If there are many mobile phone service providers available in your area, you can configure this function to select your preferred ones and set its priority level.

- 1 Tap the **Set Networks** button (search process may take a few minutes).



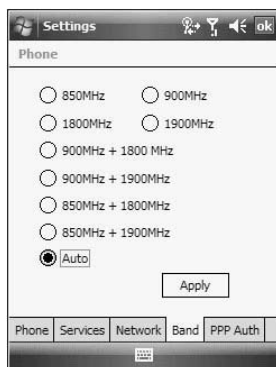
7 Using Phone

Phone preferences

- 2 To include a listed network as a preferred network, tap the check box opposite it.
- 3 To set the priority level, tap a preferred network, then tap the **Move Up** or **Move Down** buttons.
- 4 Tap **ok**.

Band tab

SP510 operates on the GSM 850/900/1800/1900 bands. Use the Band tab to select a GSM band for your device to operate on.

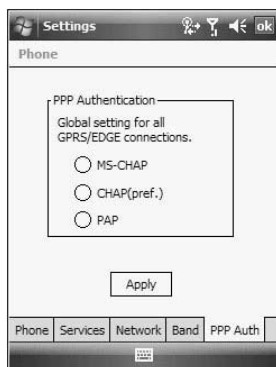


To set your device's roam mode:

- 1 On the **Band** tab, select a GSM band.
- 2 Tap **Apply**.

PPP Auth tab

The PPP Auth tab provides option for setting up PPP authentication to provide secure communications over the network. With PPP authentication protocols such as Challenge Handshake Authentication Protocol (CHAP), Microsoft Challenge Handshake Authentication Protocol (MS-CHAP), and Password Authentication Protocol (PAP), the integrity and privacy of sensitive data is ensured.



To set the global settings for your network connection:

- 1 On the **PPP Auth** tab, select a PPP authentication protocol.
- 2 Tap **Apply** > **ok**.

