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## Pocket PC 2002 Reviewers Guide August 2001

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## HIGHLIGHTS OF THE MICROSOFT WINDOWS-POWERED POCKET PC

### **Overview**

The next version Pocket PC software, named Pocket PC 2002, is the latest innovation from the Microsoft Mobility Group and improves on the already successful Pocket PC. Pocket PC 2002 is state-of-the-art PDA software that offers a better Pocket PC experience with key improvements in personalization, connectivity and enterprise functionality. Pocket PC 2002 is the evolution of Microsoft Corp.'s truly revolutionary handheld platform.

### **History**

The revolutionary Pocket PC software, introduced in April 2000, set a new industry benchmark in mobile computing. The Pocket PC, Microsoft's third PDA software release, dramatically simplified the user interface and delivered state-of-the-art functionality to help manage the mobile professional's personal information. The Pocket PC extended the utility of a PDA beyond the conventional personal information manager to give users a richer e-mail and Internet experience as well as the ability to play music, read eBooks and more. Pocket PC was customizable, portable and powerful.

Before introducing the Pocket PC, Microsoft developed the first multimedia PDA with color display, which enabled major hardware revisions, including 64K color screens, stereo sound output and superior processing speeds. The device also became more flexible and customizable with its support for CompactFlash expansion, allowing for the first time digital imaging, gaming with animation and high-fidelity music.

Starting it all in 1998 was the first-generation Microsoft® Windows® CE operating system-based PDA, then called Palm-size PC. Although the Palm-size PC didn't offer color screens, it was the first to use the CompactFlash card slot to foster expandability and connectivity options.

### **What Is Pocket PC 2002?**

Pocket PC 2002 represents an even better Pocket PC experience with improved personalization, groundbreaking enterprise features and improved connectivity.

### ***A Better Pocket PC***

Pocket PC 2002 brings even more power and choice to users with new input options, such as transcriber and Graffiti® support in ROM. The Pocket PC incorporates most-requested features, such as the ability to sort by company name in Contacts, subfolder synchronization for Inbox, and a spell-checker for Word.

The Pocket PC now offers universal beaming support through the OBEX (Object Exchange) protocol for easier data exchange between mobile phones, Pocket PC and Palm devices, allowing users to beam information between the devices. In addition to beaming across platforms, the Pocket PC allows for tap-and-hold

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support within the Pocket Office applications and browser. The new Pocket Internet Explorer features selective image management and file download management.

With the new Windows Media™ Player 8.0 for Pocket PC, users can watch their favorite video clips and listen to music with the device's support for streaming and static audio and video. In addition to video, users can now read their favorite best-selling eBooks with Pocket PC's support for Owner Exclusive (DRM 5) content, a level of digital rights management that ensures greater security and access to a vast library of eBooks now available.

The Pocket PC provides improved navigation through a "smart minimize" feature that allows users to easily navigate between different applications without having to close, then reopen them. The Pocket PC has also improved the notifications options with signal strength, battery-life indications and volume control. Pocket PC is also more personal. With a new look that adapts the Windows XP interface, the Pocket PC allows users to fully customize the Today screen with custom backgrounds or "skins," notifications, application settings, and configurable connections. Users who want a truly special experience can create and customize their own Today screens and backgrounds, incorporating photos or other personal images to make their device their own.

### ***Best Enterprise-Class Device***

The Pocket PC offers a comprehensive and secure handheld for corporations. With its support for strong passwords, anti-virus hooks and ability to upgrade the software, the Pocket PC is a natural fit for corporations or businesses wanting to provide their work force with a robust and reliable mobile device. Mobile professionals can now access their corporate networks via virtual private network (VPN) or the Terminal Services Client (TSC). VPN support is excellent for securely sending and receiving e-mail, while TSC works great for accessing line-of-business applications residing on a corporate server.

### ***Versatile Connectivity***

By centralizing and automating the management of different kinds of network connections, Pocket PC ensures intelligent connection routing based on location. And, with several enhancements to Pocket Internet Explorer and the inclusion of MSN® Messenger, Pocket PC is poised to deliver the best connected experience.

## NEW FEATURES AT A GLANCE

<b>Feature</b>	<b>Description</b>
<b>Graphical User Interface</b>	
Customizable Today screens	Today screen "skins" and backgrounds are fully customizable.
Enhanced navigation using "back through the stack" model	This allows users to navigate between most recently used applications, where the bottom of the stack is always the Home page, using the Smart Minimize button.
Notification bubbles and well	The New Notification System features a well that displays incoming information such as new messages and upcoming appointments. Users can choose to act on these animated notification bubbles or remain in their current application.
Animations	New animation is designed to increase user excitement and usability. Animations can be accessed via tap and hold, from the Start menu and from the list view.
<b>Security and Connectivity</b>	
VPN support	Users can now access their corporate data remotely over public airlinks.
Updateable ROM	This allows businesses and end users to update their Pocket PCs with new versions of software and operating systems with the addition of Flash ROM.
Strong passwords	Alphanumeric strong password support offers better data protection.
Terminal Services Client	This provides a view onto the server desktop, allowing remote access to any Win32 <sup>®</sup> application through a Pocket PC.
Connection Manager	This enables connectivity setup based on work or home location and automatic connection from applications.
Virus protection APIs	These provide hooks into the system for the development of anti-virus software, giving the enterprise and users additional security measures for protection of data.
Universal beaming	Industry standard OBEX support now exists in Merlin for beaming across operating system platforms, resulting in easier data exchange between Pocket PC, Palm and phones.
Desktop pass through	This enables direct-to-server access for synchronization and connectivity.
Enhanced file explorer	This enables access to network file shares and one-tap access to storage cards.
<b>Application Enhancements</b>	
<b>E-mail</b>	
Autoconfiguration of ISP settings	This reduces the complexity of configuring e-mail by automatically entering the user's server names into the setup wizard.
Synchronization support for user-defined folders	This allows for subfolder synchronization.
Support for embedded HTML mail	HTML mail is now viewable.
Spell-checker	This prompts users to spell-check e-mail prior to being sent; it also checks and corrects misspelled words.
Edit meeting responses	This enables the desktop equivalent functionality for Outlook <sup>®</sup> group scheduling to accept/decline meeting requests while adding additional response.
My Text for quick replies	This saves users time by saving frequent e-mail responses. When replying to an e-mail, users can now choose from a range of My Text responses, which are end-user definable.
<b>Pocket Internet Explorer</b>	
Increased standards support	The browser has implemented an extensible viewer mechanism that allows greater flexibility in accessing many types of Internet sites (e.g., HTML 3.2, WAP 1.2.1 and CHTML)
Text download priority	This allows users to choose text as a priority when downloading Web pages to the Pocket PC. Because graphic-intensive Web pages can take time to download, this function saves users time by downloading text only.

Selective image downloading	Hide Images icon allows users to choose whether to download all images and sounds with one tap. Users can then selectively download images using tap and hold.
File download support	This allows the user to choose where to download a file, to view the size and progress of the download, and to cancel out of the download at any time.
<b>PIM</b>	
View contacts by company option	This option allows users to view by company name while in Contacts.
Reordered Contacts fields	Most frequently used fields (e.g., e-mail and mobile number) are now more accessible.
Meeting attendees visible in Calendar	This valuable tool allows users to see meeting attendees while viewing their Calendar.
View switching buttons in Calendar	Icons allow for easy switching between agenda, day, week, month and year views.
<b>Windows Media Player</b>	
Streaming	Audio and video file streaming is supported.
Web favorites	Users can add streamed media locations as favorites.
“Skinable” interface	Integrated skin chooser allows users to customize the look and feel of the Media Player.
Unmap buttons option	Button mapping can now be toggled off outside the Media Player application.
<b>Microsoft Reader</b>	
Owner Exclusive (DRM 5) support	This enables the highest level of digital rights management support, making available thousands of the most compelling copyrighted eReading titles which were not previously available to Pocket PC customers.
Enhanced design integrity	The design features and improved look through a new user interface, font consistency, new icons, better image scaling, improved table support and new riffle control to aid in eBook navigation.
Active feature improvements	The customer experience is improved through external links, better technical support for Audible.com audiobooks, multiple dictionary support, Help support and a new server-side bookstore (“Shop”).
<b>MSN Messenger</b>	
Auto logon and logoff	Pocket PC automatically logs the user onto MSN Messenger whenever the device detects a connection. This is a user-selectable feature, and if the connection is lost, the chats are maintained until the user closes them out or a connection is reestablished.
Supports Passport and Exchange user accounts	This allows users to sign into the Exchange messenger client as well as Passport. It is the same as general MSN Messenger sign in, and Exchange messenger supports multiple-device sign in.
Multiple chat sessions	Users can have simultaneous chats while using the Pocket PC.
Privacy controls (Allow/Block)	This allows users to invoke privacy controls, such as away, busy or block.
My Text for quick replies	Frequently used MSN Messenger responses are saved so that the user can reply to MSN Messenger chats by simply tapping on the appropriate response, which are end-user definable.
Companion typing notification	Shows users that their chat buddy is typing a response, making the communication more interactive and real time. MSN Messenger maintains the desktop experience with Pocket PC with this feature.
<b>Pocket Word</b>	
Spell-checker	This checks and corrects misspelled words.
<b>Pocket Excel</b>	
Tap and hold context menus	Context menus exposed through tap and hold enables the desktop familiar “right-click” experience.

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## TESTING RECOMMENDATIONS

Although you can certainly get a good feel for what the Pocket PC is all about by using it on its own, Microsoft suggests synchronizing with a desktop PC to fully experience all its great features. The system can be running Windows 98, Windows Millennium Edition (Windows Me), the Windows NT<sup>®</sup> 4.0 operating system, or Windows 2000. The demonstrations in this guide are based on a system running Windows 2000.

Use the following guidelines to assist you in the setup of your test environment. (For a complete list of minimum hardware requirements and detailed setup data, please see the System Requirements section in the online documentation.)

### **Desktop Platform**

#### System Requirements

- ◆ Windows 98, Windows Me, Windows NT 4.0 (Service Pack 6), or Windows 2000 Professional (Service Pack 1 or greater)
- ◆ CD-ROM drive
- ◆ Super VGA or better video card
- ◆ One available USB port
- ◆ TCP/IP protocols
- ◆ A dial-up or direct connection to the Internet
- ◆ Microsoft Internet Explorer 4.01 or later
- ◆ Microsoft Outlook<sup>®</sup> 98, Outlook 2000 or Outlook 2002 messaging and collaboration client (Outlook 2002 is supplied on the Pocket PC Companion CD).
- ◆ Microsoft Windows Media Player 7 or later
- ◆ Microsoft ActiveSync<sup>®</sup> 3.5
- ◆ Microsoft Reader 2.1 or later

### **Optional Components**

- ◆ Wired or wireless Network Interface Card (NIC)
- ◆ Modem
- ◆ Storage Card
- ◆ Palm OS<sup>®</sup> compatible PDA

### **Additional Configuration Notes**

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It's a good idea to enter a few contacts, calendar events and e-mail items into Outlook before you set up the Pocket PC to provide some information to transfer to the device. You'll also need a second desktop Outlook client to facilitate exchanging e-mail and appointments and to set up — or have access to — a Microsoft Exchange Server. This can also double as a POP3/IMAP4 server if you

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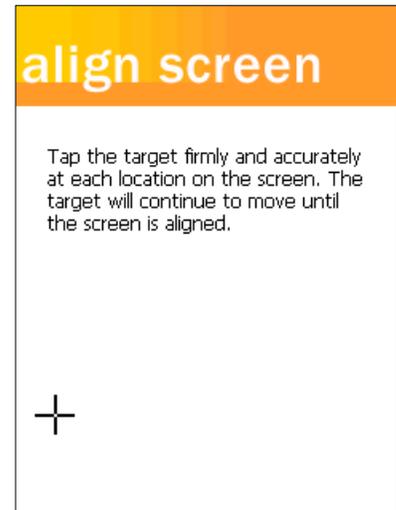
decide to test those services. (Consult the Outlook and Exchange Server documentation for detailed setup information.)

## CONFIGURING AND CUSTOMIZING THE POCKET PC

### Welcome Wizard

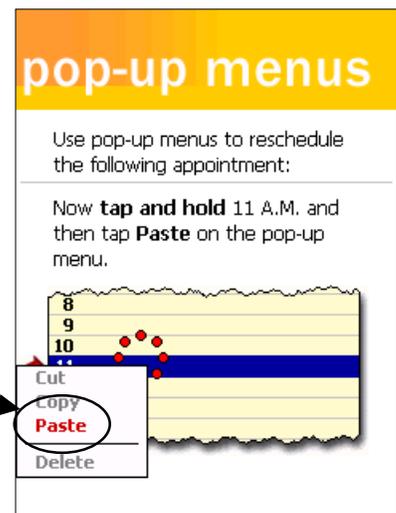
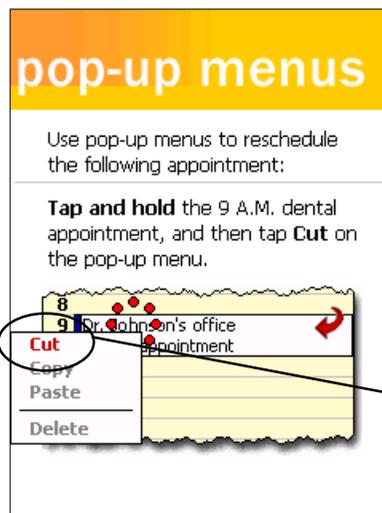
Before you use the Pocket PC, there are a few initial setup steps to be performed. (If this is the first time you've plugged the device in, allow it to charge for three to four hours first.)

1. Turn the unit on; a screen like the one below left will appear. Tap anywhere on the screen to continue. Now use the stylus to tap on the center of the cross as it moves about the screen. This is important to ensure accurate positioning when entering text and selecting menus.

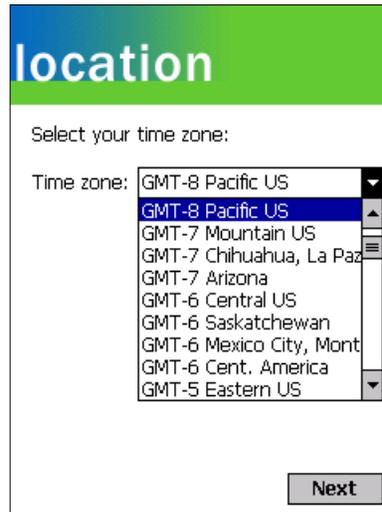


2. The next few screens are designed to give you a taste of how tap and hold works. Tap on **Next** to move on. Tap and hold the stylus on the dental appointment until the pop-up menu appears, and then tap on **Cut**. Tap and hold once more in the 11 a.m. slot, and tap on **Paste** on the resultant menu. At the Congratulations screen, tap on **Next**.

☛ You probably noticed the little circle of red dots as you held the stylus down on the words **Cut** and **Paste**. These are part of the improved feedback and animation elements in this latest version of Pocket PC.



- There are only two more items to set. Using the drop-down boxes, choose your zone, and then tap on **Next**.



- Tapping once more takes you to the Today screen. The first thing you might want to do is enter an owner name, so tap where it tells you to. Fill in at least the Name and Telephone fields, and then tap on **OK**.



That's it for the preliminary setup. You'll now move on to the installation of the ActiveSync technology.

## Key Enhancements

- Desktop pass through
- Automatic detection of proxy settings
- Single CD
- Improved performance

## ActiveSync Setup

After installing the operating system and desktop applications, attach the cable from the Pocket PC cradle to an available USB port. Then plug in the power transformer and connect it to the cradle. (Note: Do not insert the Pocket PC into its cradle until instructed to do so.)

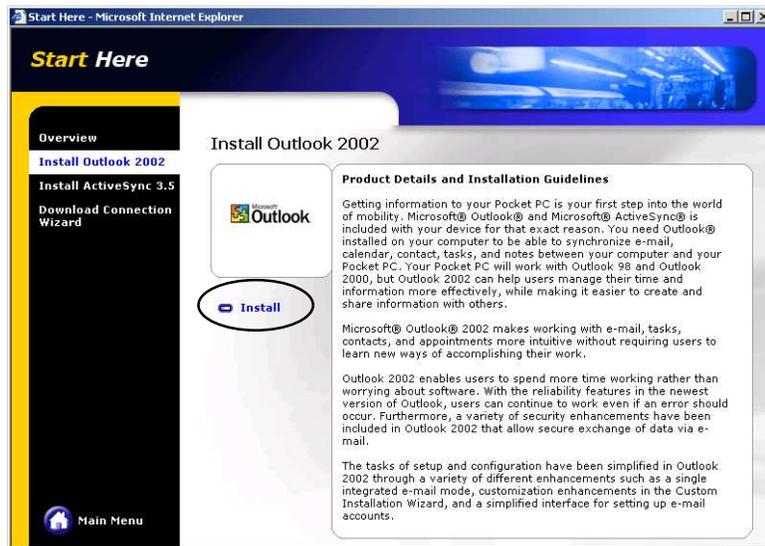
1. Insert the Pocket PC Companion disk into your CD-ROM drive. If AutoPlay is disabled, double-click on **SETUP.EXE** in the root directory of the CD. The initial screen will disappear after a brief pause, or you can click on the blue button.



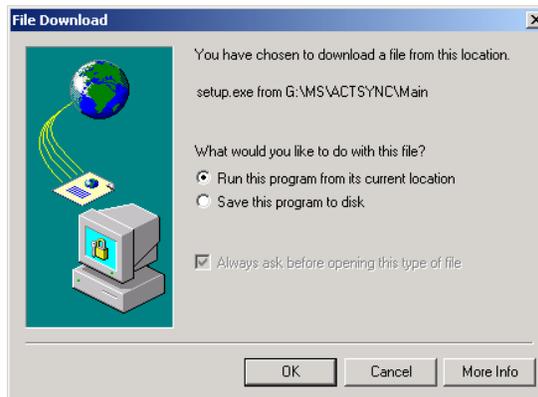
2. Once at the main screen, select **Start Here**.



3. If you haven't already installed Outlook on your desktop, click on **Install Outlook 2002**, click on the **Install** button, and follow the on-screen instructions.

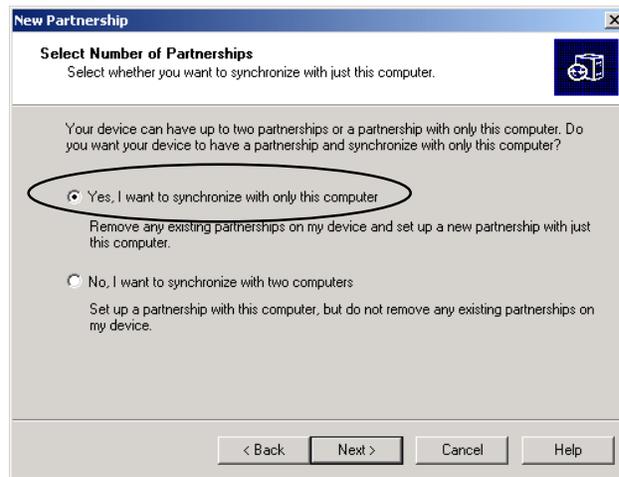


4. Now select **Install ActiveSync 3.5** and click on its **Install** button. Click on **OK** at the first message box. At the next dialog box, change the setting to **Run this program from its current location** and click on **OK**.

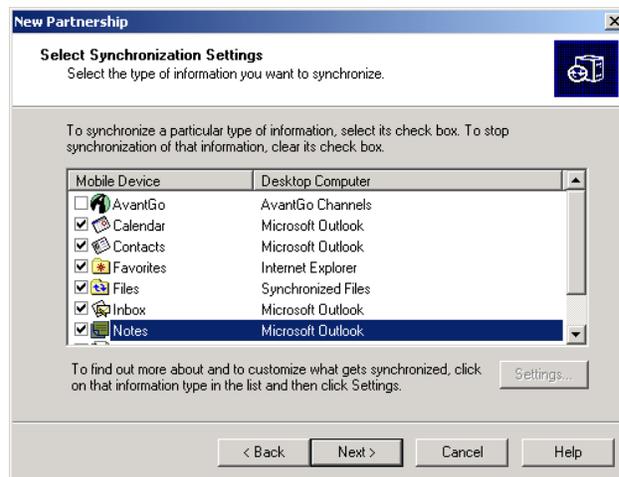


5. When you see the Security Warning dialog box, click on **OK**. The setup wizard will now start. Click on **Next >**. Leave the default installation folder and click on **Next >**.
6. The Get Connected dialog box should now appear. Click on **Next >**. At the **New Partnership** screen, leave **Yes** selected and click on **Next >**.

7. Leave the number of partnerships set to one, and click on **Next >**.

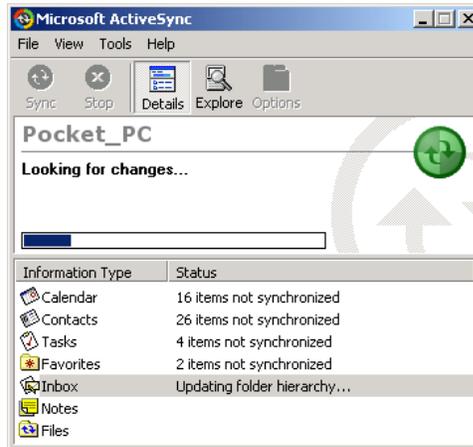


8. On the **Synchronization Settings** page, place a check next to the items you want to synchronize with the desktop. Make sure you select the **Inbox** and **Notes** options. Leave **AvantGo** unchecked for now.



9. At the Setup Complete screen, click on **Finish**.

10. The ActiveSync status box will now appear, and you'll see the items you choose synchronize, one by one. Wait until synchronization is complete before removing the Pocket PC from its cradle.

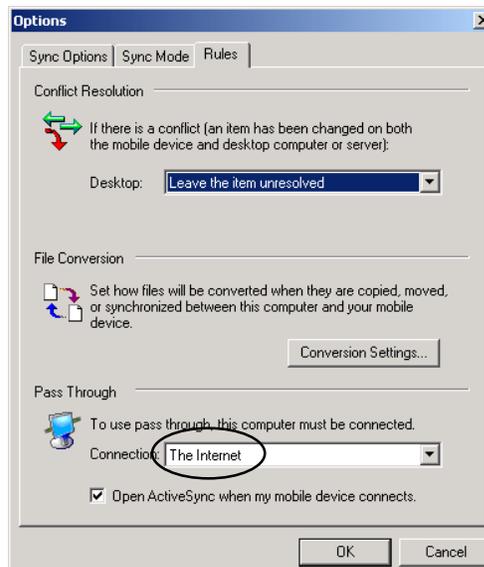


☛ The Pass-Through feature will let you perform many of the exercises in this guide right from the cradle. However, not all networking protocols are supported. In particular, the Terminal Services Client, File Share access and VPN connections will not work.

### **Desktop Pass Through**

With ActiveSync 3.5 installed, your Pocket PC has network connectivity directly from the device cradle. Users with multiple POP3 or IMAP4 e-mail accounts will really appreciate this feature

1. To view the Pass-Through settings, select the ActiveSync **Options** menu, and then click on the **Rules** tab. During installation, ActiveSync will detect if your desktop's browser is configured to use a proxy server. If so, the **Connection:** box will display **Work**. If you have a direct connection to the Internet, then **The Internet** should appear.

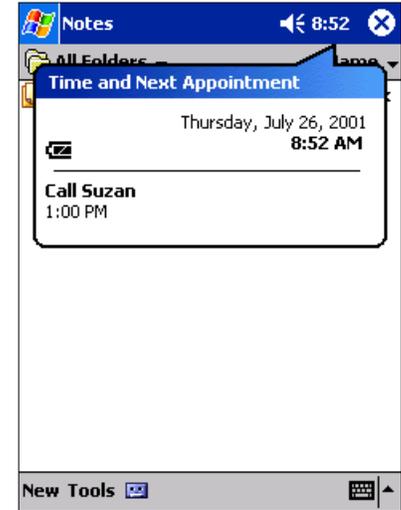
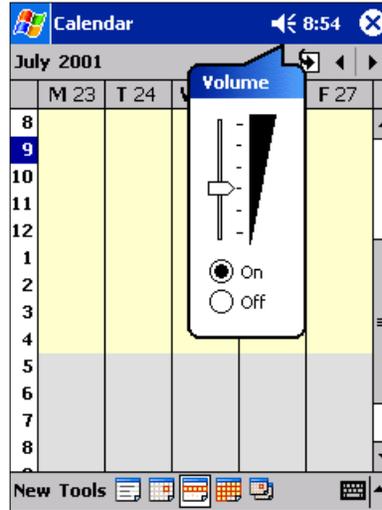


## A BETTER POCKET PC

### Notifications

1. When it comes to notifications, the next version Pocket PC is both more configurable and more informative than its predecessor. The most obvious example is at the top of the screen. Tapping on the speaker icon reveals the volume control. A quick tap on the clock will show your next appointment and

The improved notification system allows for more comprehensive feedback on system status and settings, while remaining nonintrusive to users.

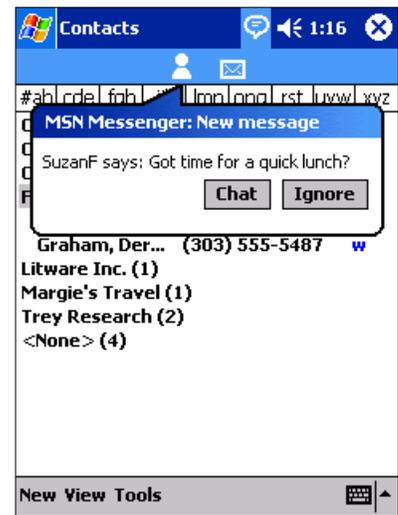
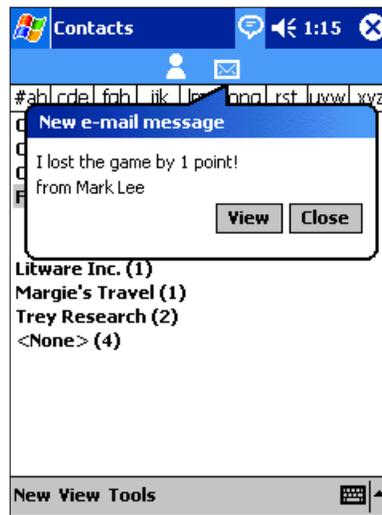


battery status. And notifications are now accessible from within any Pocket PC application.

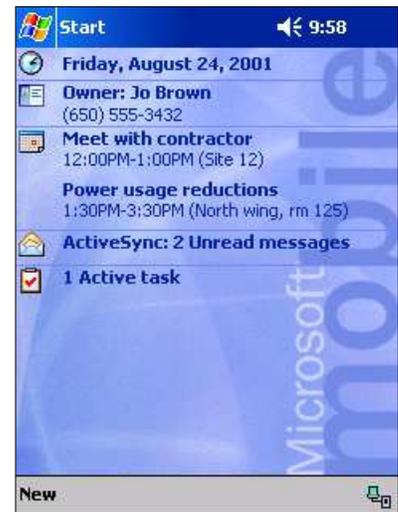
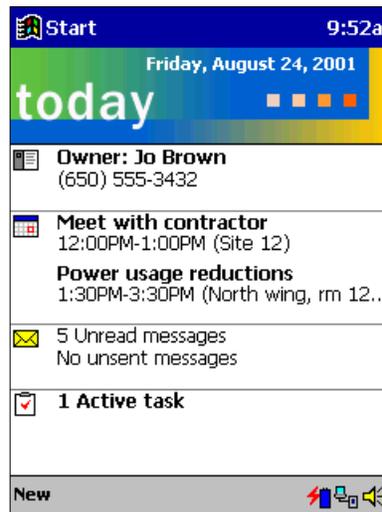
2. Further improvements include the new notification icons and notification well. If you receive a new MSN Messenger alert, an appointment is coming up, or a new e-mail message arrives, various icons and message bubbles such as these will appear.



- If more than one type of alert is pending, a balloon icon will be displayed. Tapping the balloon reveals the notification well, from which you can access each message.



- The Today screen in Pocket PC 2002 has changed considerably from its predecessor. Here's a side-by-side look at the old and new.



## Personalization

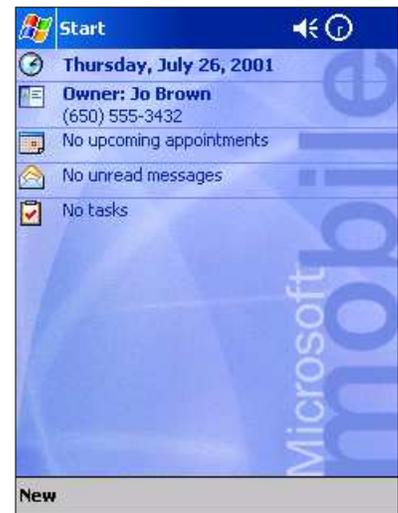
From setting up the basics to complete color schemes, it's easy to mold the new version of Pocket PC to suit your tastes and requirements.

1. Just as everyone can decorate their homes and offices to match their individual style, the Pocket PC lets you personalize the Today page and color schemes using "skins." Here is the standard screen, and one called Fire.

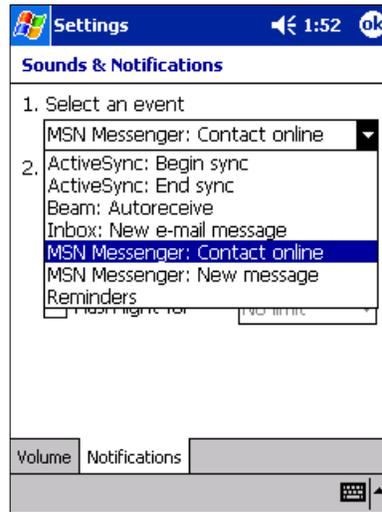
☛ The Fire "skin" shown here is not part of the product, but we wanted to give you an idea of what this feature will look like. Microsoft will make a variety of skins available for customers to download.



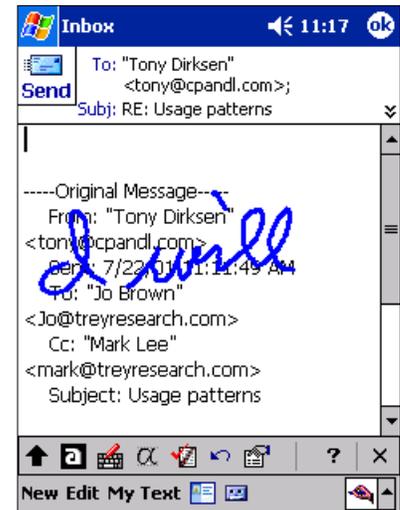
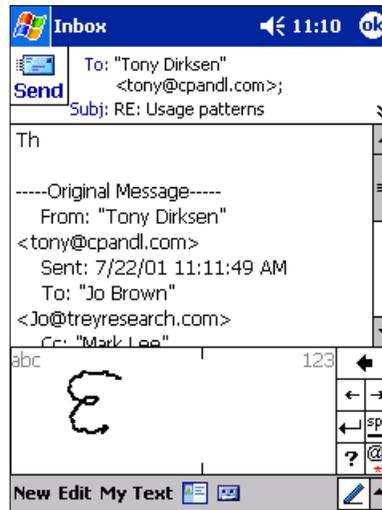
2. For those who prefer viewing their time displayed the old-fashioned way, tap and hold on the clock, and then choose **Analog**.



- Tapping on **Start >Programs >Sounds & Notifications** lets you further customize each Pocket PC event notification to best fit your current needs.



- The Pocket PC now provides four different methods for entering text. Along with the Letter Recognizer (and Keyboard options), long-time Graffiti users can instantly be productive using the new Block Recognizer. And Transcriber — formerly software installable only — is now built in to the device's ROM.



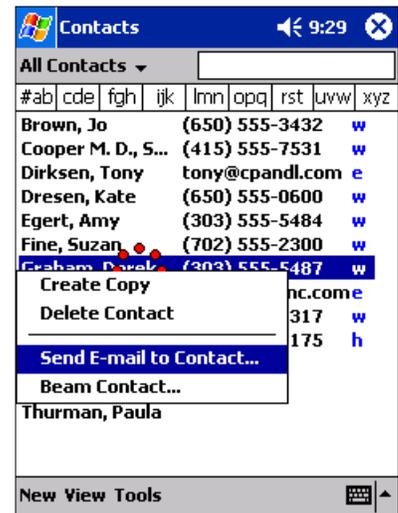
## Contacts

Having mobile access to Contacts information (e.g., phone numbers and addresses) is a key benefit of the Pocket PC Contacts application, allowing users to keep such vital information with them at all times.

### Key Enhancements

- View by company or by contact name
- Most commonly used data fields placed first
- No Category filter

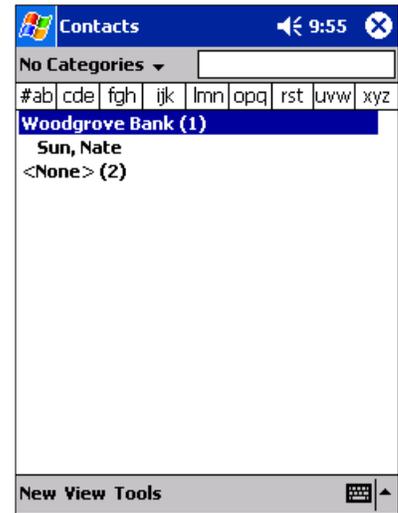
1. Using either the Start menu or hardware button, bring up the Contacts program. By default, the list is sorted by the person's last name and all categories are listed. If you've ever used a Pocket PC, this screen will look familiar. You can still tap once on the blue letter in the right column to change the item displayed next to the person's name, or tap and hold on the entry to view the context menu.



2. Now tap on **View**, and choose **By Company**. The number of contacts associated with a company is shown in parentheses next to each company's name. Tapping once on a listing expands the view, showing all contacts for that company. People with no company field entry will appear under **<None>**.



- You can now easily locate contacts with no assigned categories. Just tap on the drop-down arrow next to **All Contacts** and choose **No Categories**.



- Now you'll enter a new contact so you can see the more logical entry template. Tap on **New**. The most commonly used fields (i.e., Work tel, E-mail and Mobile tel) are now on the first screen, making it easier and faster to add names when you're on the go. When you're done, tap on **OK** to save the new entry.



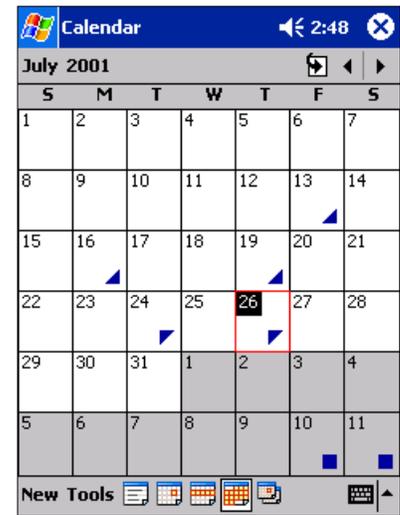
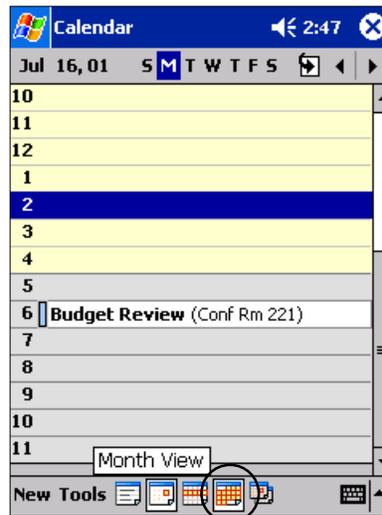
## Key Enhancements

- On screen View by buttons for fast switching
- Week numbers view option in month view
- Meeting attendees visible for nonowned appointments

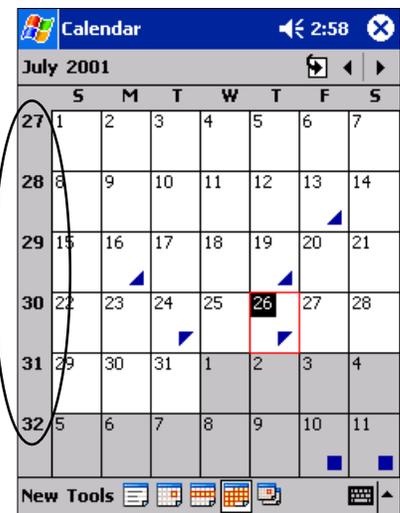
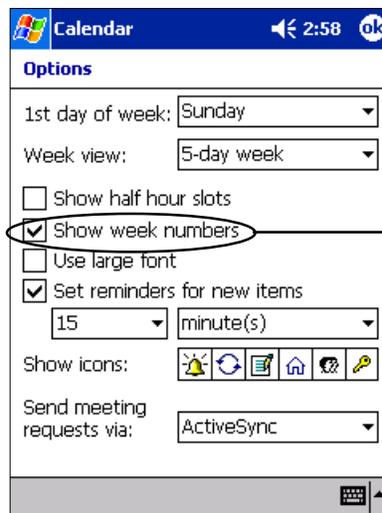
## Calendar

For personal or business use, keeping track of appointments and scheduled activities is essential, and the Pocket PC Calendar application adds new features to help you make the most of your day.

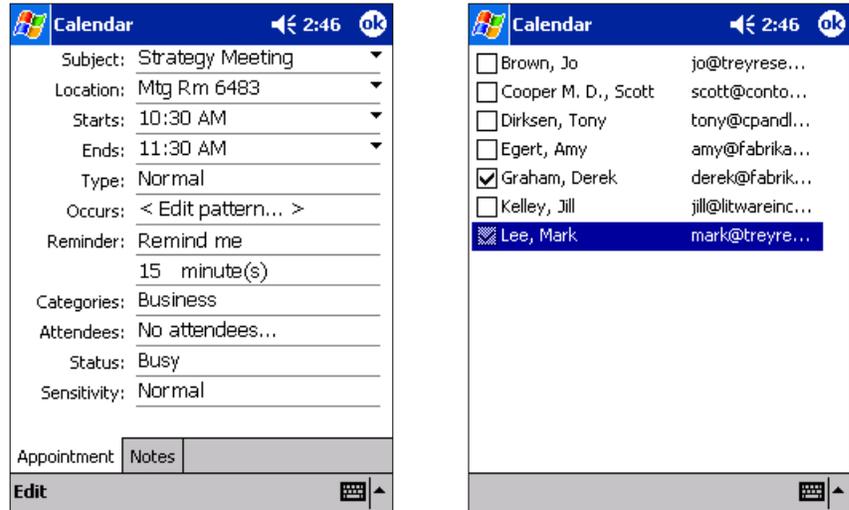
1. The most visible change to Calendar is the addition of five view-switching buttons along the bottom of the screen. These replace the more cumbersome process of tapping on the Tools menu, then your selection, as you had to do with previous Pocket PC devices. Tap on the **Month View** icon and you'll see a slowly pulsing red outline around the current day.



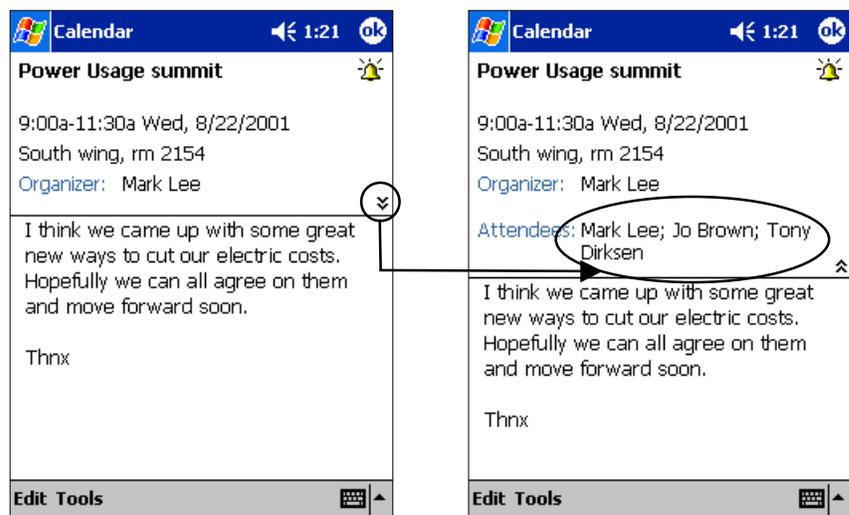
2. If you want to see the week numbers in this view, tap on **Tools >Options**, check the **Show week numbers** box, and then tap on **OK**.



- Next, you will add a new appointment. Tap on **New** and then fill in the fields. Be sure to set a start and end time and add several attendees from your Contacts list. (Do this by tapping on the **Attendees:** field, check the box next to each person's name and tap on **OK**.) When finished filling in the form, tap on **OK** to save the appointment and queue a meeting request in your outbox.



- For this last step you'll need to view a multiuser meeting that someone else has sent to you and that you've already accepted. (If you don't have a meeting set up, use your second desktop Outlook client to send this sample appointment to the machine your Pocket PC is connected to, and accept the appointment to add it to the Calendar.) Open the appointment, and then tap on the expansion arrows in the lower-right corner of the upper pane. In previous Pocket PC devices, only the owner of the event could see all the attendees, but with the Pocket PC 2002, anyone can see the entire list of participants.



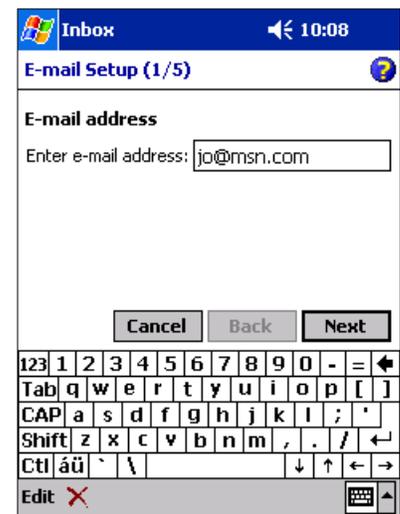
## Key Enhancements

- Auto-configuration of ISP settings
- User folder synchronization
- Spell-checker
- SMS message support
- Embedded HTML message support
- Editable meeting responses
- Dictation creation from composition window
- My Text

## Inbox

Because e-mail is an increasingly common form of communication, Pocket PC 2002 focuses on expanding the many robust e-mail features. With such key enhancements as editable meeting responses, auto-configuration of e-mail and spell-checker, Pocket PC 2002 makes it easier than ever to make the most of the mobile inbox.

1. For many computer users, getting their e-mail account setup properly can be daunting. The Pocket PC goes a long way toward removing that hurdle with its automated setup process. You will go through the creation steps now. (Be sure you have a network connection or the device cradled.) Tap on **Start >Inbox**, and from the **Services** menu choose **New Service**. Enter your e-mail address and tap on **Next**.

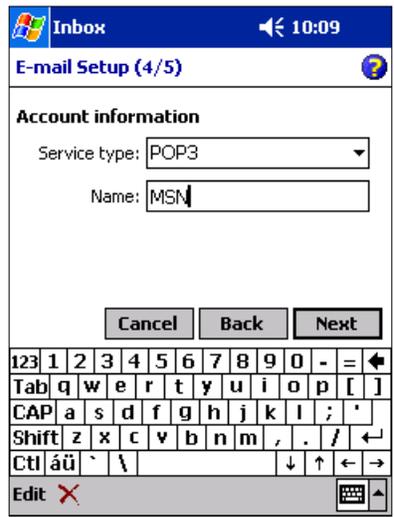


2. Pocket PC determines the appropriate ISP settings based on the domain portion of your e-mail address. Tap on **Next**, fill in your user information and tap on **Next** again.

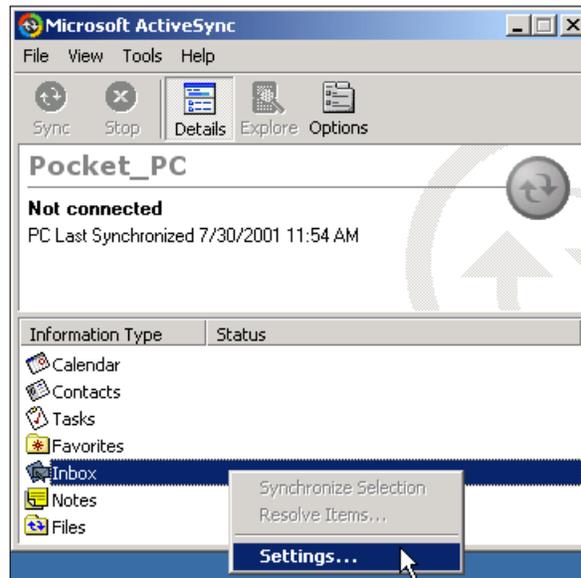
Automated configuration works for more than 85 of the nation's top ISPs. Still, there will be some cases in which you must configure the e-mail service manually.



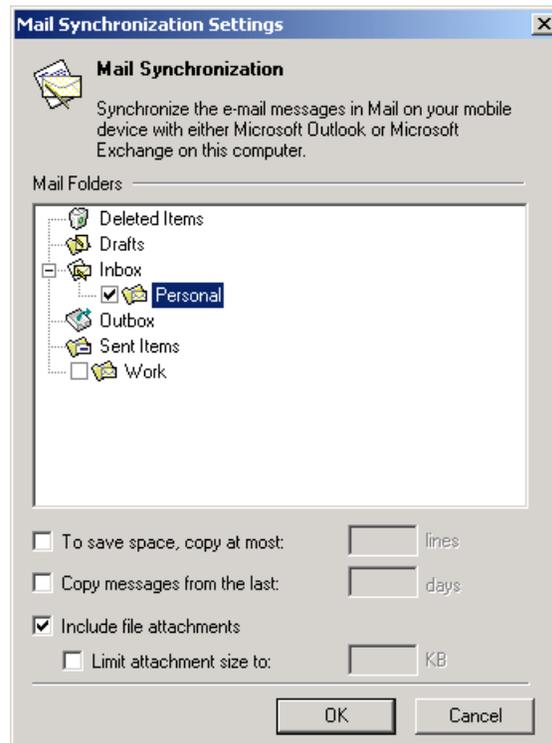
3. You may want to give the new service a more meaningful name, and if you're creating an IMAP4 account, change the service type. Tap on **Next**. The mail server fields are already filled in for you. You're all done, so just tap on **Finish**. (If you want to adjust the advanced e-mail settings, such as how often to check for mail or whether the inbox should download headers only or the full message, tap on **Options**.)



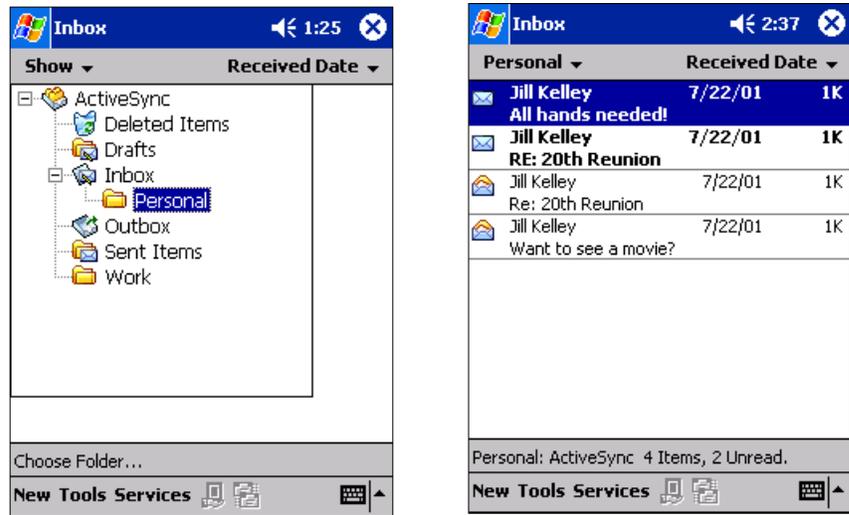
4. Like most people, you probably get lots of e-mail. And to keep it organized, you probably have separate folders for important messages, maybe another for jokes, and even one for spam. The Pocket PC's new subfolder synchronization lets you keep that same tree structure intact on the Pocket PC. To see this, create a new folder or two in desktop Outlook, then copy several messages to them. Next, right-click on **Inbox** in the ActiveSync window and choose **Settings**.



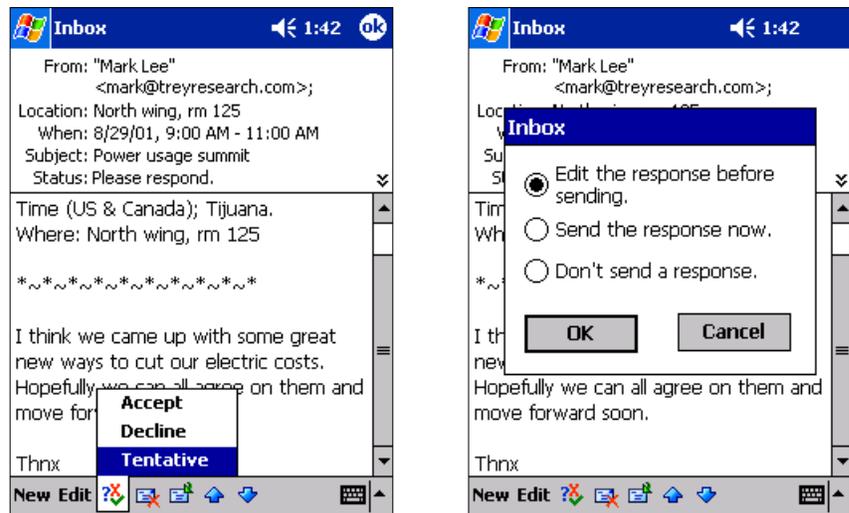
5. Each new folder will have a check box beside it. Check the folders you want to sync with the Pocket PC and then click **OK**.



- If your device is in its cradle, synchronization happens immediately. Otherwise, you will need to perform a manual synchronization and then tap on **Inbox** to reveal the **Show** menu. The new folders will be part of the list and your message will all be there, just as on the desktop.



- Another great improvement to the Pocket PC inbox is editable meeting responses, as featured in desktop Outlook. This lets you suggest an alternate meeting day or time without having to send a separate message.



8. And for the spelling-challenged among us, The Pocket PC's inbox now has a spell-checker to help keep your correspondence looking its best.



### Key Enhancements

- Streaming audio and video support
- Web favorites
- Landscape option for video playback
- “Skinable” interface
- File properties viewable in content window
- Button unmapping option for background play

## Windows Media Player

Just because you're a highly mobile worker doesn't mean you don't need to find time to relax. If you're an on-the-go type, you'll be able to appreciate taking along more than just your favorite music on the road. With the introduction of Windows Media Player 8 for Pocket PC, the mobile experience is taken to a higher plateau, allowing playback of both audio and video files. And with a live Internet connection, you can listen to and watch streaming content too.

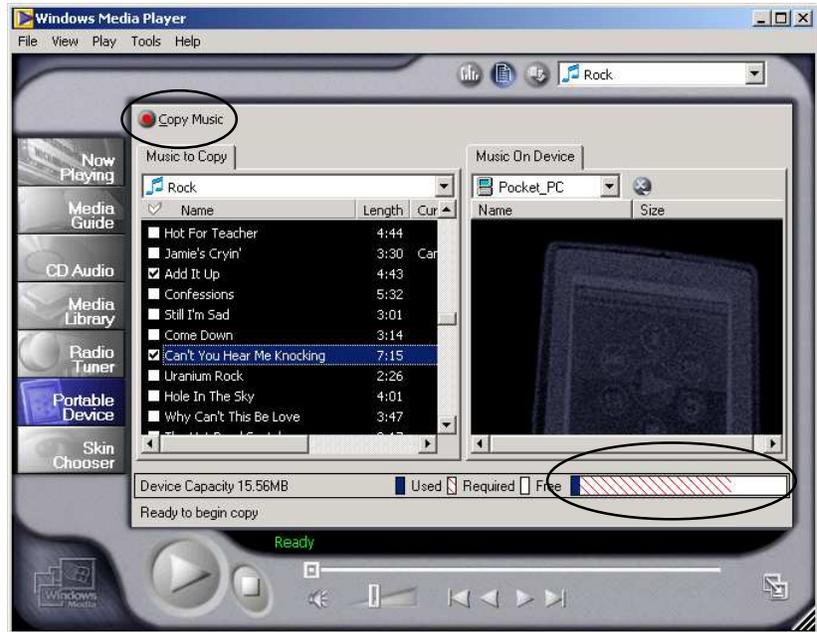
1. From the Start menu, choose **Windows Media**. The interface is obviously quite different than in the previous Windows Media Player, but still retains the large control icons to allow direct operation with your fingers.



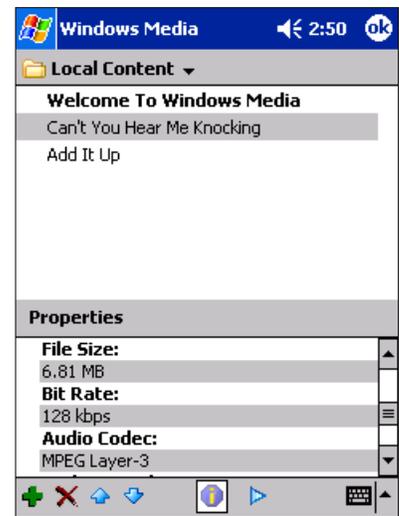
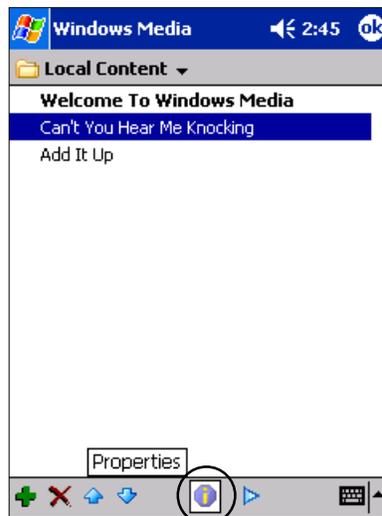
The recommended way to add music to the Pocket PC is via desktop Windows Media Player 7.0 or later. This lets you convert and compress your recordings during the transfer process to save RAM. It's also the mechanism that handles management of your DRM-protected files: Copying these files directly to the device will not work.

- Now you'll copy a few songs into your Pocket PC. Ensure that you have an ActiveSync connection, then start desktop Windows Media Player and click on **Portable Device**. Because song files can be quite large, check the box next to just one or two for now. Check the Device Capacity indicator to be sure you have enough free space, and then click on the **Copy Music** button.

When moving audio files to a portable music device, the desktop Windows Media Player queries the attached device for a list of its supported file types. The default action for the Pocket PC is to pass MP3 files directly to the device; other files are converted into Windows Media Audio format.



- When the transfer is finished, tap on **Select** on the Pocket PC to view the song titles. New in the Pocket PC is the ability to view the properties right from this screen. Tap on one of the titles, and then tap on the **Properties** button to see details such as file size and encoding method.

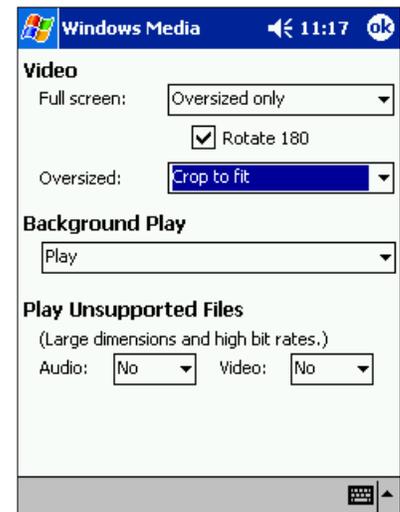


- Next, you'll examine streaming content. Media Player supports direct entry of URLs, but since they are often very long, nonintuitive, and change often, you'll use Pocket Internet Explorer to get where we want to go. Open the **Favorites** menu and then tap on **WindowsMedia.com**. Tap on the **MSNBC News** link, and when the Download dialog appears, tap on **Yes**.

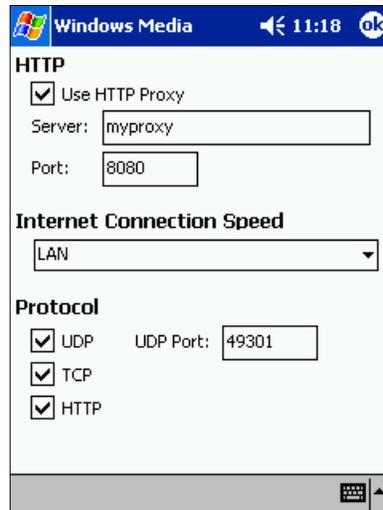
Windows Media Player for Pocket PC recognizes the following file types: MP3, Windows Media Audio, WMV, WMP and ASF. It can also handle these streaming formats: ASX, WAX, WVX, WMX and WM. While this is an impressive list, occasionally you may find a file with an extension that doesn't play correctly. This can happen if the file creator used a CODEC that Windows Media Player doesn't support.



- Windows Media Player will begin buffering the data for a few seconds and then start playing the streaming video. If the content provided is larger than the Windows Media Player screen, you can choose to play it in full screen mode, rotate it sideways or crop it to fit the screen. You'll find these options under **Tools >Settings >Audio & Video**.



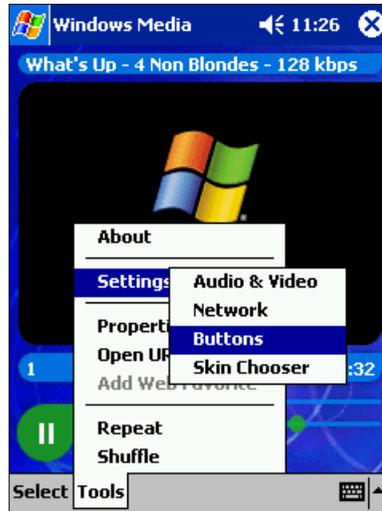
6. If you experience problems playing streaming files and you're on a corporate network using an HTTP proxy server, you may need to configure the Windows Media Player proxy settings. Tap on **Tools >Settings >Network**. Enter the server's name or IP address and port number. Tap on **OK**.



7. The MSNBC site is a handy place to catch up on news of the day, and now you'll make it easy to return to. Tap on **Tools >Add Web Favorite**. The default name is fairly cryptic, so change it to MSNBC and tap on **OK**. To view this broadcast again, choose the **Web Favorites** folder from the **Select** menu, tap on the file and then tap on the **Play selection** button, or tap and hold on the file and pick **Play selection** from the pop-up menu.



8. As before, you can control Windows Media Player using the Pocket PC's hardware buttons. But a new option lets you turn off button mapping when switching to another application. To activate this feature, tap on **Tools >Settings >Buttons**, map the buttons as you'd like, and then check the **Un-**



map buttons... box.

9. Like the Pocket PC shell itself, Windows Media Player supports skins to alter its appearance. This is one example.

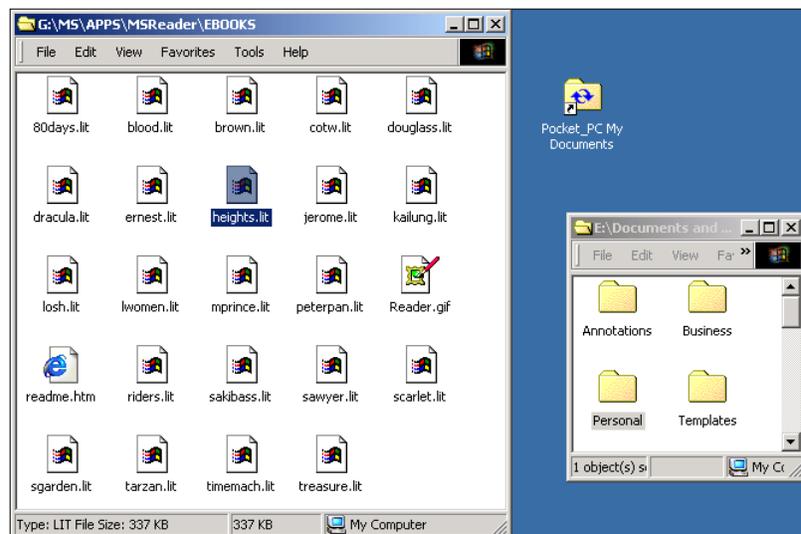




## Microsoft Reader

A completely new interface makes the latest Microsoft Reader easier to use and navigate. With full support for Owner Exclusive titles (books) protected with Digital Rights Management level 5, or DRM 5, content from all major eBook publishers and suppliers can be purchased and read using the Microsoft Reader.

1. Before starting Microsoft Reader you'll need to add some content to view. You'll find a variety of sample eBooks on the Pocket PC Companion CD in the folder <CD drive>:\MS\APPS\MSReader\EBOOKS.
2. Open the Pocket PC's My Documents folder on the desktop, and then just drag and drop a few of the books into the personal folder. (At the very least, you'll want the file `cotw.lit` so you can follow along with the examples here.) Wait until ActiveSync replicates the changes to the Pocket PC.



Here's a list of several Web sites offering a wide variety of eBook content for the Microsoft Reader.

### **Barnesandnoble.com**

[http://ebooks.barnesandnoble.com/ms\\_reader/](http://ebooks.barnesandnoble.com/ms_reader/)  
<http://ebooks.barnesandnoble.com/pocketpc/>

### **Amazon.com**

<http://www.amazon.com/exec/obidos/tg/browse/-/573368/103-4332899-5928613>

### **eBookMall**

<http://www.ebookmall.com/microsoftreader/>

### **University of Virginia Library Electronic Center**

<http://etext.virginia.edu/ebooks>

- If you're curious what the book titles are, open the readme.htm file.

With version 2.0 of Microsoft Reader for Pocket PC, all types of eBooks, even those with the most secure levels of encryption, are now available to readers upon activation. The three incremental levels of security available are listed below:

**Sealed (DRM 2).** eBooks are encrypted during the conversion to the .lit file, ensuring the authenticity of the content. A sealed eBook can be read with any copy of Microsoft Reader.

**Inscribed (DRM 3).** eBooks are sealed and then further encrypted. An inscribed eBook can be read with any copy of Microsoft Reader and always displays information about the purchaser on the cover page.

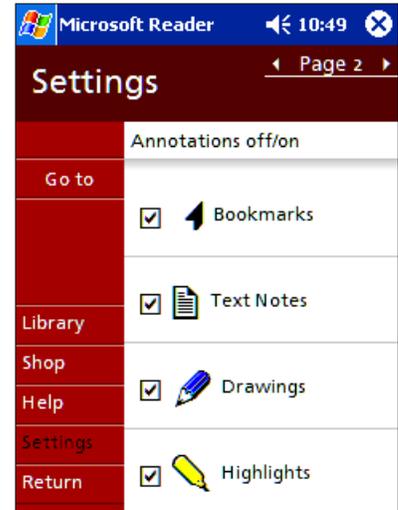
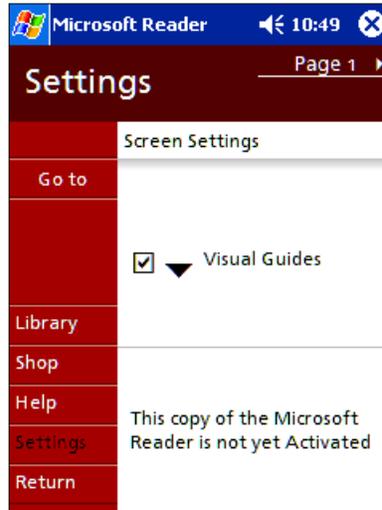
**Owner Exclusive (DRM 5).** eBooks are inscribed and then an encrypted license is added to allow only the legitimate purchaser to read it. This security level requires the consumer's copy of Microsoft Reader to be activated.

File Name	Book Title	Author
lwomen.lit	Little Women	Alcott, Louisa May
peterpan.lit	Peter Pan	Barrie, J. M.
kailung.lit	Kai Lung's Golden Hours	Bramah, Ernest
heights.lit	Wuthering Heights	Bronte, Emily
sgarden.lit	Secret Garden	Burnett, Francis Hodgson
tarzan.lit	Tarzan of the Apes	Burroughs, Edgar Rice
brown.lit	Innocence of Father Brown	Chesterton, G. K.
douglass.lit	My Bondage and My Freedom	Douglas, Frederick
scarlet.lit	Study in Scarlet	Doyle, Arthur Conan
riders.lit	Riders of the Purple Sage	Grey, Zane
losh.lit	Legend of Sleepy Hollow	Irving, Washington
jerome.lit	Three Men in a Boat	Jerome, Jerome K.
colw.lit	Call of the Wild	London, Jack
mprince.lit	Prince	Machiavelli
blood.lit	Captain Blood	Sabatini, Raphael
sakibass.lit	Unbearable Bassington	Saki (Munro, H. H.)
treasure.lit	Treasure Island	Stevenson, Robert Louis
dracula.lit	Dracula	Stoker, Bram
sawyer.lit	Tom Sawyer	Twain, Mark
80days.lit	Around the World in 80 Days	Verne, Jules
timemach.lit	Time Machine	Wells, H. G.
ernest.lit	Importance of Being Earnest	Wilde, Oscar

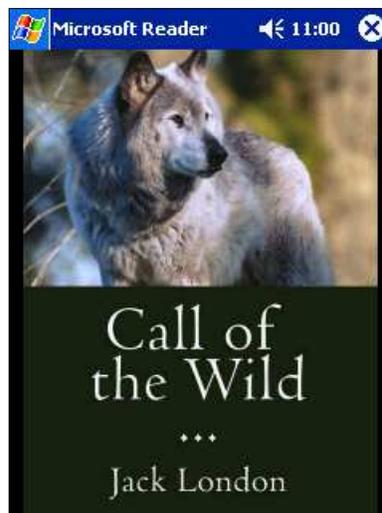
- Now launch **Microsoft Reader** by tapping on **Start >Programs >Microsoft Reader**. After a brief splash screen, the main Library page will appear, along with a suggestion to activate Microsoft Reader. This is only required when using Owner Exclusive (DRM 5) content. Our demonstration books are not copy-protected, so tap anywhere on the screen to dismiss this box and reveal the Library listings.



- Before you open any books, take a few moments to look at the various options in Microsoft Reader. Tap on **Settings**. The first screen lets you toggle the Visual Guides; please leave these on. At the top right of the screen, tap on the arrow to the right of **Page 1** to see the annotations page and their associated icons. Page 3 shows the font size selector.

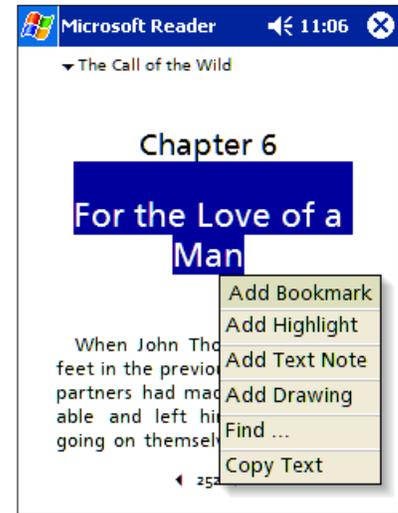
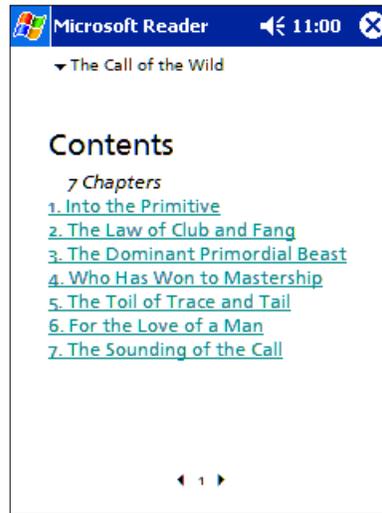


- Now tap on **Return**, and then tap on one of the books you copied. You'll first see the cover art, followed by the title. Tap on the title to go to the table of

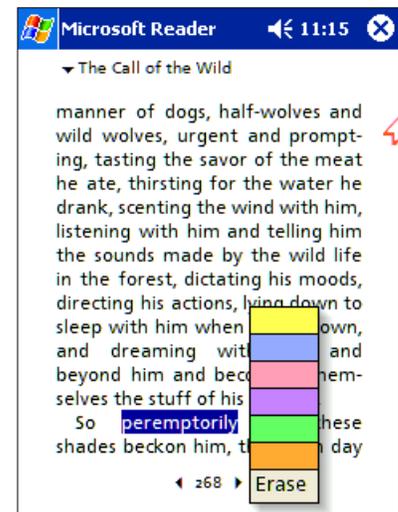
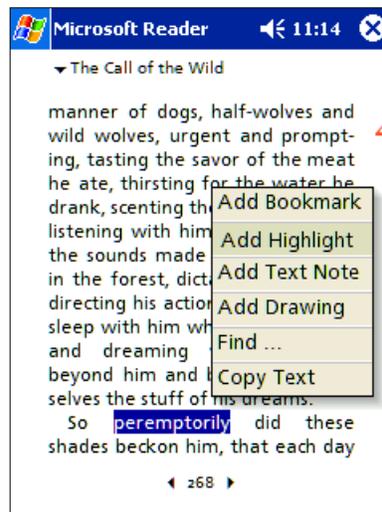


contents.

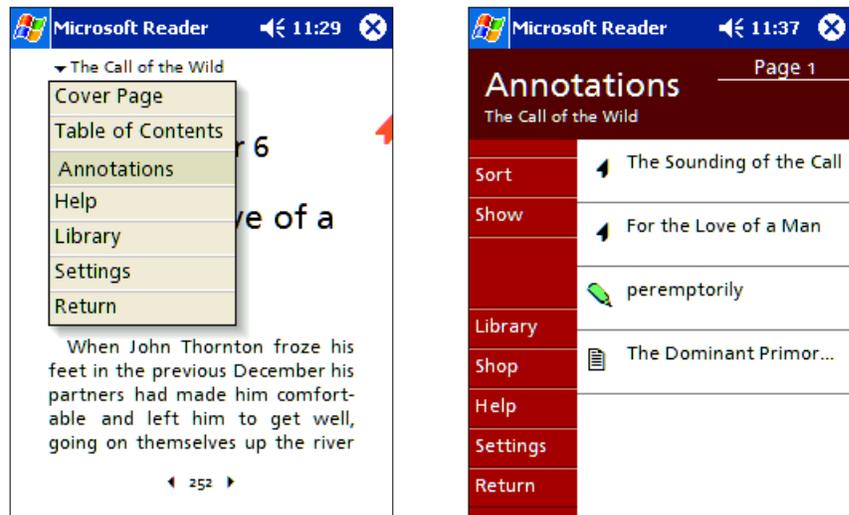
- Quickly jump to Chapter 6 by tapping on it. Drag the stylus over the chapter name itself to reveal the annotations options. Choose **Add Bookmark**. A colored flag will appear on the right side of the page.



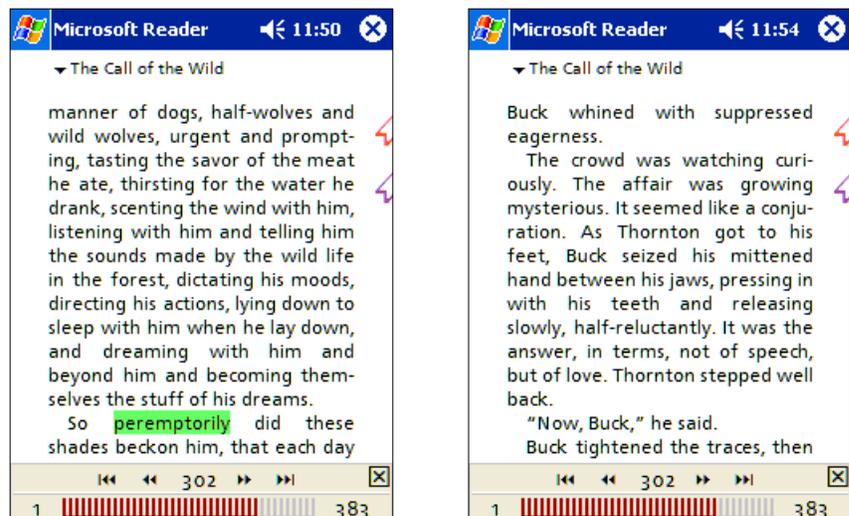
- Select an interesting word or phrase. This time choose **Add Highlight**. Unlike the previous version of Reader, users can better manage bookmarks and highlights by the use of color. Tap on the word you highlighted, choose **Edit Highlight**, then pick a new color.



- Add a few more annotations to the book if you want to. Next, tap on the book's title at the top of the screen and choose **Annotations**. Tap on any of the items you've added to jump directly to that page.



- Another innovation in the new Microsoft Reader is the Riffle Control. Instead of moving forward or back in a book using the hardware buttons or the visual guide arrows, you can now quickly jump to any point in the book. Tap and hold on the page number itself for approximately two seconds. Now tap and hold your stylus in the bottom portion and drag it left or right. Release it when you reach the desired page.



- The inner double arrows (◀▶) move a page at a time, while the outer ones (◀▶) let you jump a chapter at a time. To close the Riffle Control, tap on the ☒.

## BEST ENTERPRISE-CLASS DEVICE

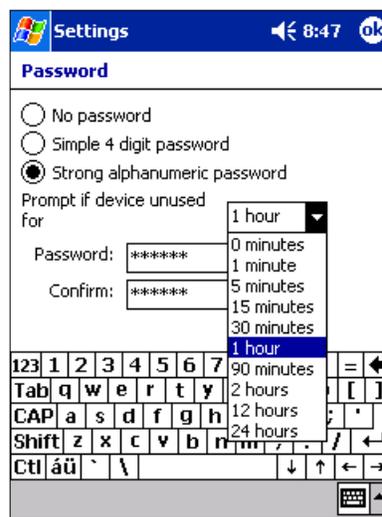
### Key Enhancements

- Strong passwords
- Terminal Server Client
- Virtual private network
- Anti-virus hooks
- Software Updateability and Upgradeability (XIP support)

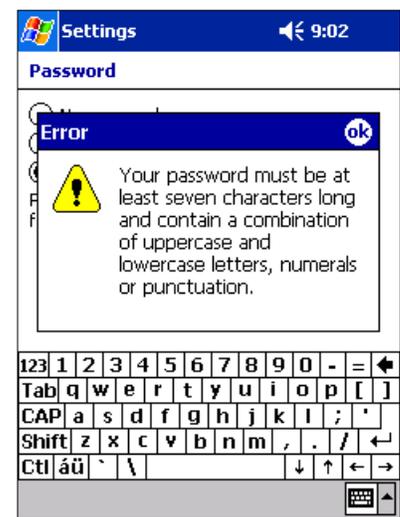
## Staying Secure

Small portable devices such as the Pocket PC can be easily misplaced or, worse, stolen. If that happens, it's comforting to know that no one besides you can access the information in your Pocket PC. Pocket PC 2002 goes a step further in protecting your private data by including a strong password option. It enforces the same stringent password rules as Windows 2000 does.

1. To set up a strong password, tap on **Start >Settings >Password**, and pick the Strong option. The **Prompt if device unused for:** setting lets you turn the Pocket PC on and off in meetings without having to re-enter your password each time. If you want to test strong passwords, you can easily change this to **0 minutes**, tap on **OK** to save the changes, and then turn the device off and back



on.



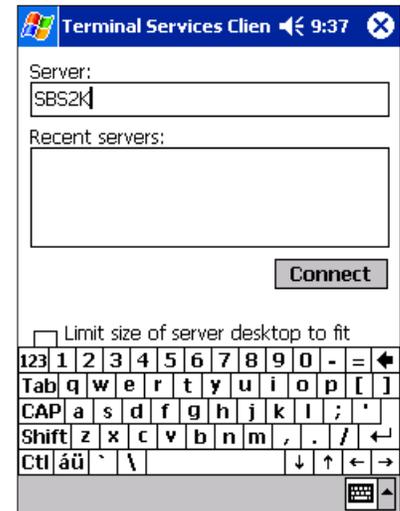
## Brand New Features

- Fit-to-screen option
- Ability to troubleshoot problems by logging onto server remotely

## Terminal Services Client

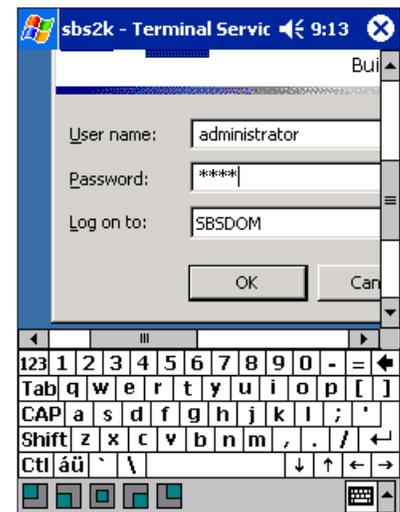
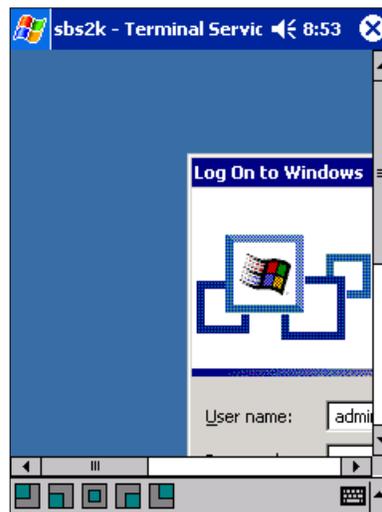
Just imagine that a busy mobile professional is relaxing with friends in a restaurant when she gets a page regarding a user who can't log on. Instead of getting in her car and driving to the office to fix the problem, she just pulls out her Pocket PC and — using a wireless VPN connection — instantly logs on to the corporate Windows 2000 server. In the time it takes the appetizers to arrive, she's been able to troubleshoot and fix the problem. And it was done using the Pocket PC's new Terminal Services Client (TSC).

1. From the Start menu, choose **Program >Terminal Services Client**. Enter the name of the server and then tap on the **Connect** button.

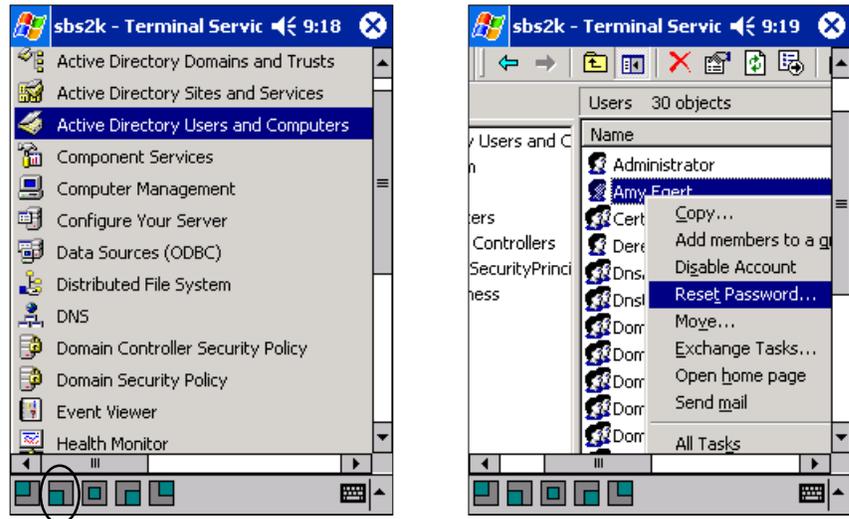


Although the Pass-Through feature will let you perform many of the exercises in this guide, not all networking protocols are supported. For instance, the Terminal Services Client, File Share access, and VPN connections will not work.

2. Because the Pocket PC screen is much smaller than a desktop display screen, a row of five buttons along the bottom of the TSC lets you quickly move to any corner or the center of the virtual screen. You can also use the horizontal and vertical scroll bars to position the screen exactly where you need it.



3. After logging on to the server, a tap on the lower-left corner button lets you access the Start menu to reach the desired program.



4. With your tasks completed, just disconnect from the TSC session and you're done. Enjoy your dinner!



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## **Virtual Private Network, Upgradeability and Anti-Virus Hooks**

In addition to Terminal Server Client and Strong Password features, Pocket PC 2000 offers several other new features of particular interest to corporations deploying Pocket PC.

### **Virtual Private Network**

For mobile users who have had to scour a remote location for an analog port from which to dial in to their company's server, VPN is great news. VPN allows users to access their resources from a remote or foreign network by providing a data connection that can offer higher speeds than a dial-up connection. In the past, Pocket PC users had to access their e-mail using a modem and analog line; now they can use VPN as their mode of connection to their e-mail and network services. With the VPN feature, Pocket PC 2002 allows users to access their own networks and e-mail using faster data connections. *(Detailed information on using VPN is contained in the Connection Manager section beginning on page 42.)*

### **Anti-Virus Hooks**

For corporations concerned about security, this feature is key because it provides hooks in the system for the development of anti-virus software. For example, if a user were to wirelessly download e-mail using a modem and get a notification that a virus has been detected in one of the messages, the user can then click on Fix, which allows the scanner to delete the offending file. The remainder of the e-mail can then be downloaded securely.

### **XIP Update**

The ability to remotely manage and configure devices is an important benefit for mobile professionals. With the addition of FLASH ROM, enterprises or end users can now update or upgrade their existing software with important patches and operating system upgrades using XIP (Execute in Place) technology. XIP updating allows for complete operating system upgrades and can be used to update specific applications by isolating particular regions of the Flash memory and updating those parts.

## VERSATILE CONNECTIVITY

### Brand New Features

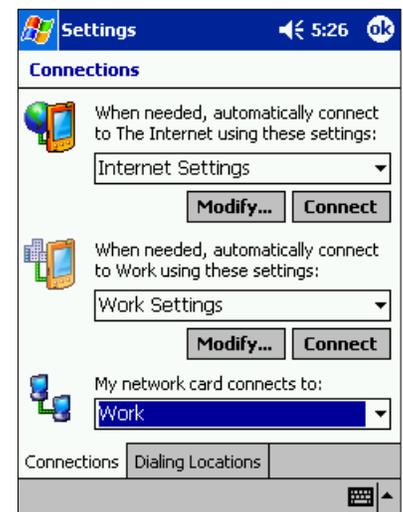
- Intelligent connection routing based on location
- VPN support

## Connection Manager

The primary purpose of Connection Manager is to centralize and automate the establishment and management of various kinds of network connections. Connection Manager can handle many different types of connections including PPP (RAS) connections PPTP connections, and NDIS adapters. It can also configure proxy server settings in applications that are capable of using them.

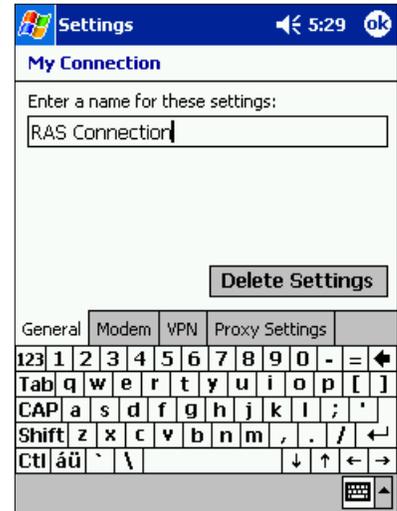
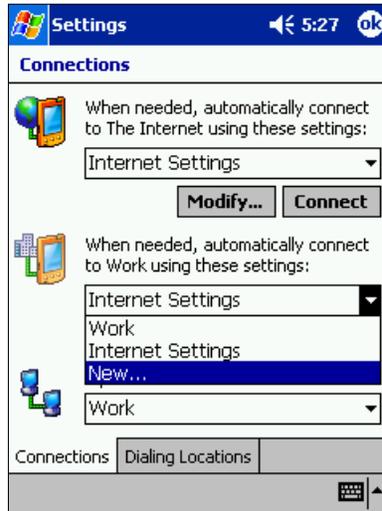
Connection Manager works by abstracting all connection knowledge from the applications themselves. It also auto-disconnects networks when they idle for a specified time. This frees applications from having to deal with these low-level connection issues.

1. To get to Connection Manager, tap on **Start >Settings**, select the **Connections** tab, and then tap on the **Connections** icon. The top two settings let you set and configure the Internet and Work connections. The bottom box is used to tell Connection Manager what your network card connects to.

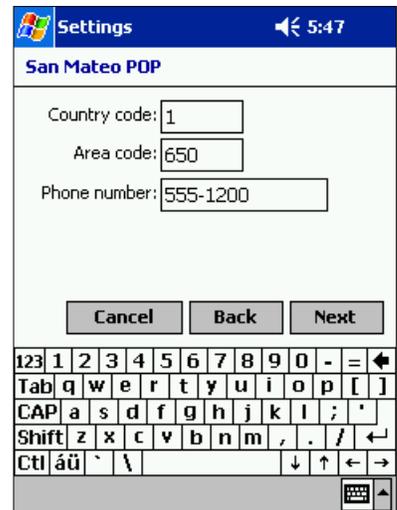
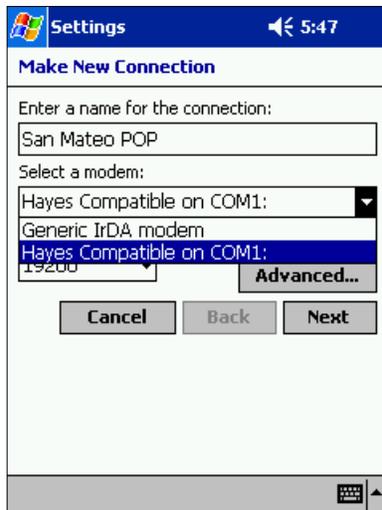


Though there isn't time to walk through all the possible connection scenarios that Connection Manager can handle, the next steps will show you each of the settings options available to Pocket PC users.

- Imagine you're on the road and need to configure a dial-up connection to the home office. Tap on the arrow next to Work and choose **New** from the drop-down box. Give the connection a name, tap on the **Modem** tab, and then tap on **New**.



- Give the connection a meaningful name, and choose your modem from the drop-down list. (If you don't have a modem you can pick Hayes Compatible from the list.) Tap on **Next**. Fill in the phone number fields and tap on **Next**.



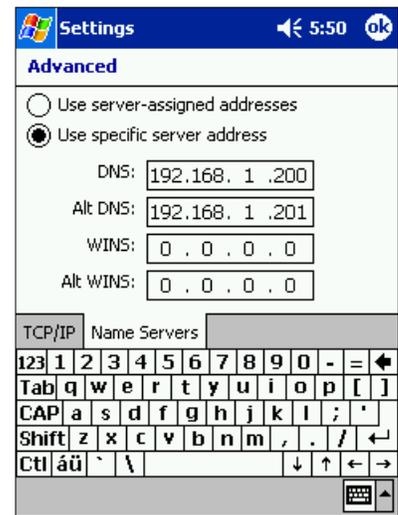
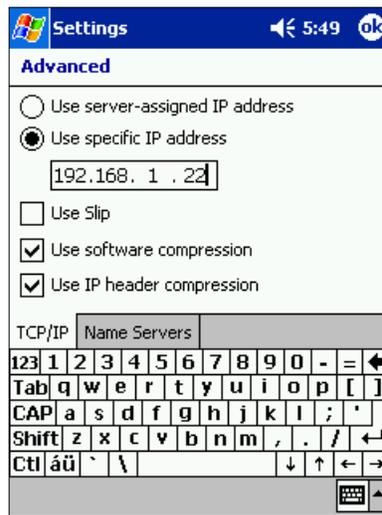
- On the final page, leave the default options and then tap on **Finish**.



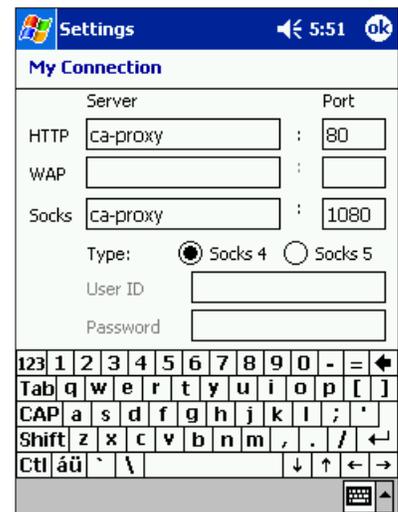
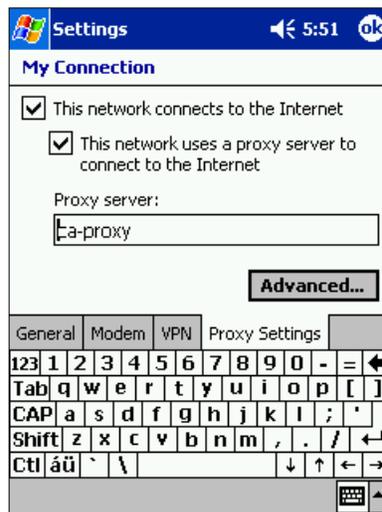
- Now you'll define a VPN connection and proxy too. Tap on the **VPN** tab, and then tap on **New**. Name the connection, and enter the host information.



- Tapping the **Advanced** button lets you configure the Pocket PC's IP address, while the **Name Servers** tab lets you configure your DNS and WINS servers. When finished, tap on **OK**.



- The last step is to tap **Proxy Settings** tab, and then enter the proxy's options. The **Advanced** button lets you set individual ports for the HTTP, WAP and Socks protocols. When you're done, tap on **OK**.



- For Connection Manager to make the right choices about how to connect, you must make sure your location information is correct. Tap on the **Dialing Locations** tab, then tap on **New**. Name the location and tap on **OK**. Now set the correct country and area code for this entry and tap on **OK** to save them.



Remember this about Connection Manager: Once it has been properly configured, Connection Manager will always use the most suitable connectivity path for any given connection request.

## Brand New Feature

- Desktop-like experience
- My Text
- Easy multiple chat switching

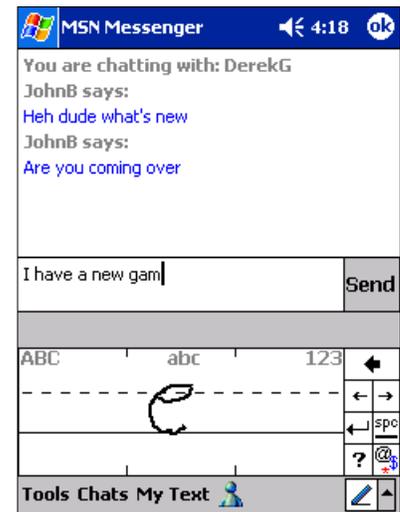
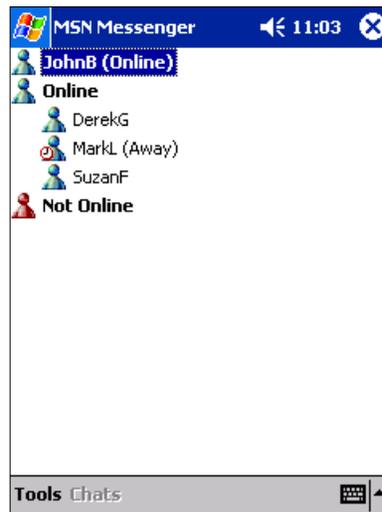
## MSN Messenger

Microsoft's popular MSN Messenger Service is now available to Pocket PC customers. With the new MSN Messenger client for the Pocket PC, you can chat instantly with any of your MSN Messenger contacts from your device.

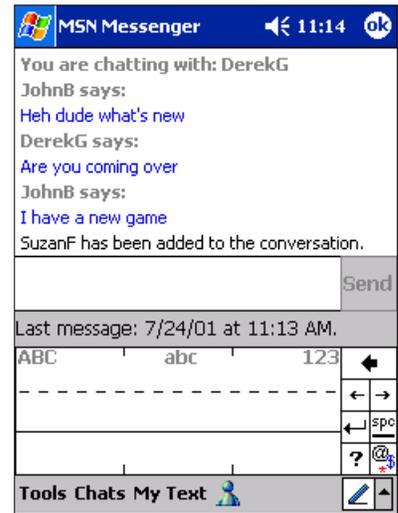
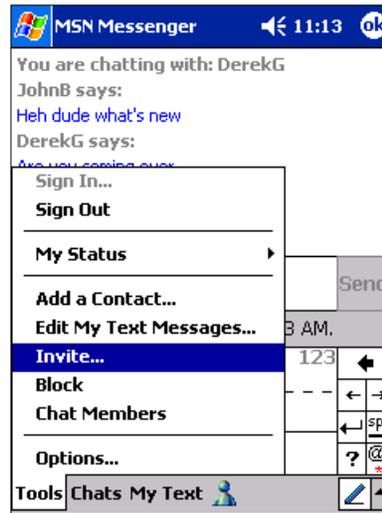
1. Tap on **Start >Programs >MSN Messenger**, then tap again on where it says **Tap here to sign in**. Enter your account information and tap on **Sign in**.



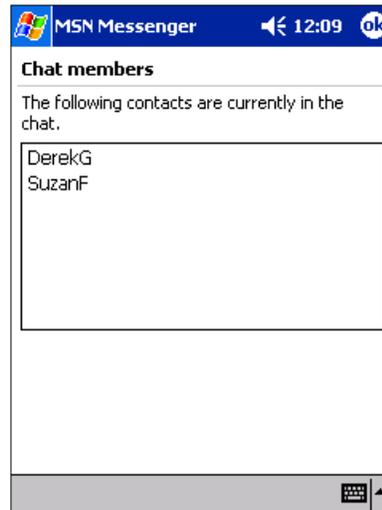
2. If you already have a list of Contacts, they'll appear as they do your desktop. Tap on any of them to start chatting.



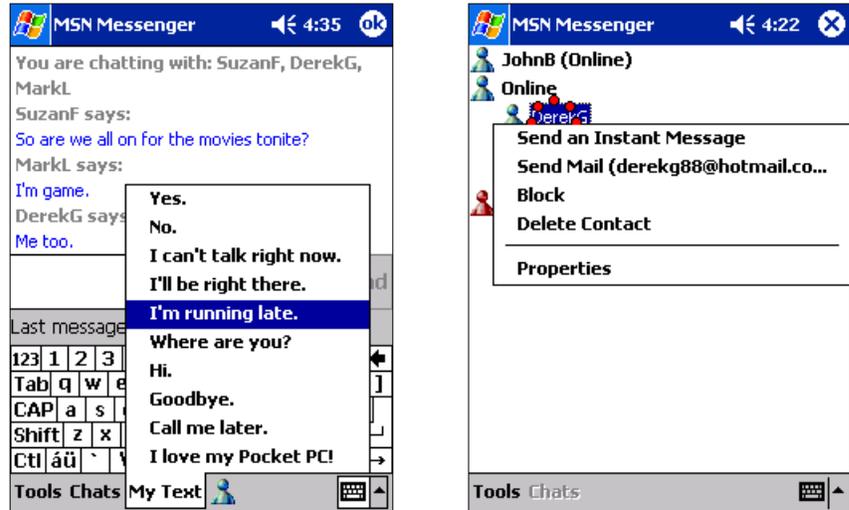
- If you want to invite another person into the conversation, just tap on **Tools >Invite...** then tap that user's icon.



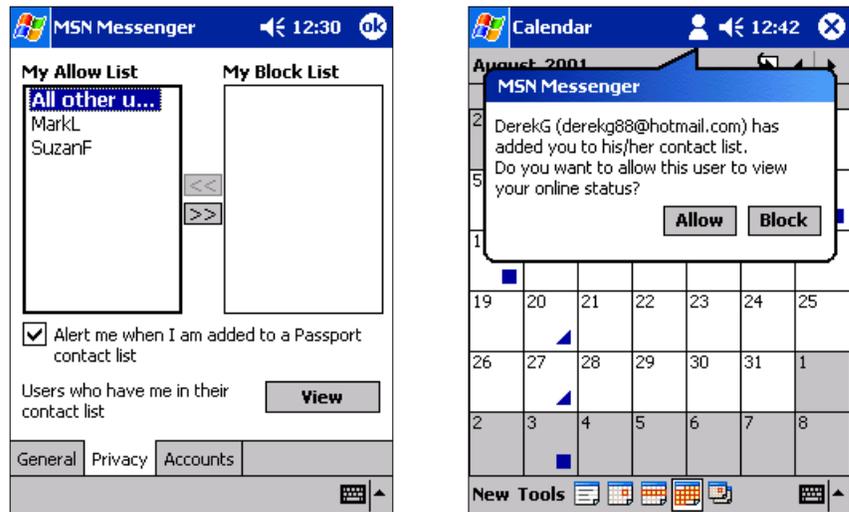
- Tap on **Tools >Chat Members** to see the participants of any chat session. With Pocket PC's MSN Messenger you can carry on multiple chatting sessions too. To switch from one to the other, tap on **Chats**, then pick the conversation you'd like to resume.



- Tap on **My Text** to quick reply with often-used phrases. You can edit them from the **Tools** menu. If you need to send e-mail to one of your chat friends, just tap and hold on their name in the buddies list, and then tap on **Send Mail**. You're then taken to the Inbox to compose your message. Once you tap on **Send**, Pocket PC returns you to MSN Messenger.



- Pocket MSN Messenger lets you manage Allow and Block lists and alerts you if someone adds you to their contact list. Tap on **Tools >Options >Privacy** to see the complete lists. If you've checked the alert box, MSN Messenger informs you with a pop-up bubble when a user tries to add you to their list.



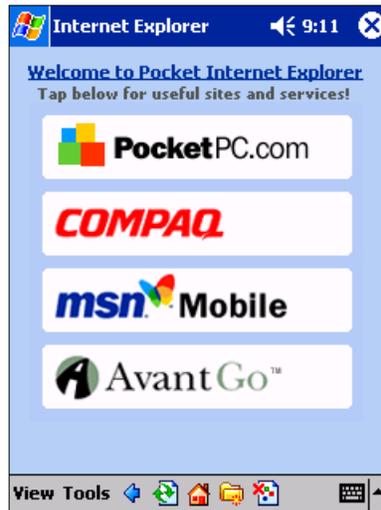
## Key Enhancements

- Selectable image downloading
- WAP support
- File download support
- Improved frame support

## Pocket Internet Explorer

Like nearly everything in the Pocket PC, Pocket Internet Explorer has also been improved to enhance the user experience. Key enhancements were made to expand support for Internet standards and improve browser performance.

1. Tap on **Start >Internet Explorer**, and then tap on **MSN Mobile**. Tap once more on the MSN Mobile hot link in the middle of the page.



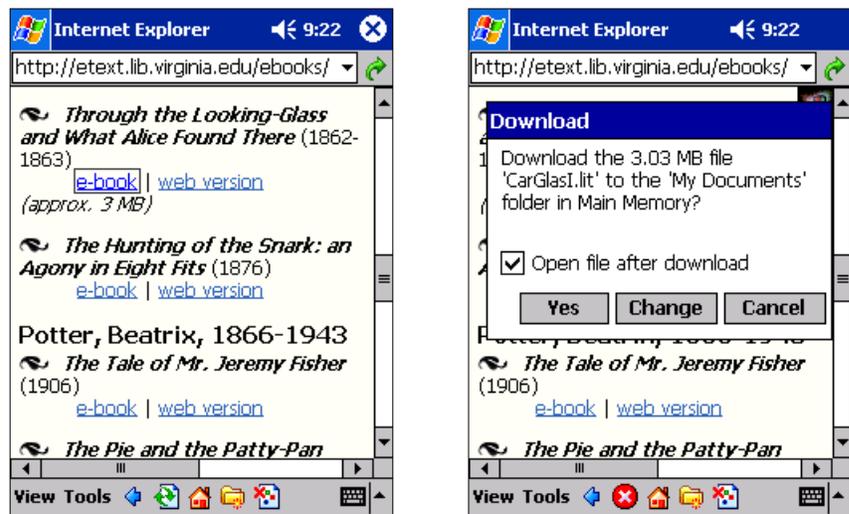
2. Content on the MSN Mobile site is designed to fit and display well on the smaller screen of a PDA. Spend a few minutes browsing the site, and then find a page you'd like to return to often, perhaps one with your horoscope. Tap and hold anywhere on the page, and choose **Add to Favorites**. Change the name if you'd like, or simply tap on **Add**.



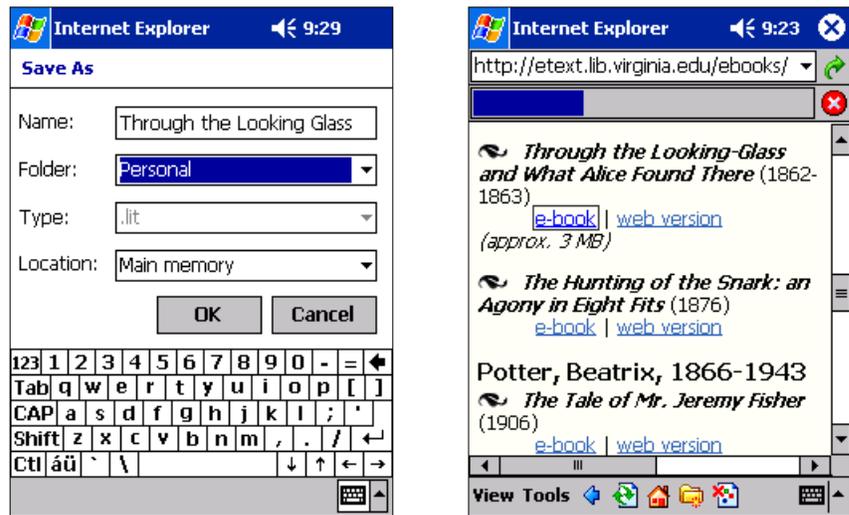
- To view and jump to any of your Web favorites, just tap on the **Favorites** button and choose one of the entries. From the **Add/Delete** page you can also create additional folders to store and organize your favorite lists. Tap on **OK**.



- The addition of download support in Pocket Internet Explorer allows you to retrieve files off the Web directly from your device. For example, suppose your connecting flight gets delayed and you've got time to kill. You could download a new eBook and spend the time catching up on your reading. Here you've gone to the University of Virginia's eBook library and selected a title.



5. Instead of accepting the defaults, tap on **Change** to rename the file, and designate a folder to save it to. An indicator bar shows the download progress.

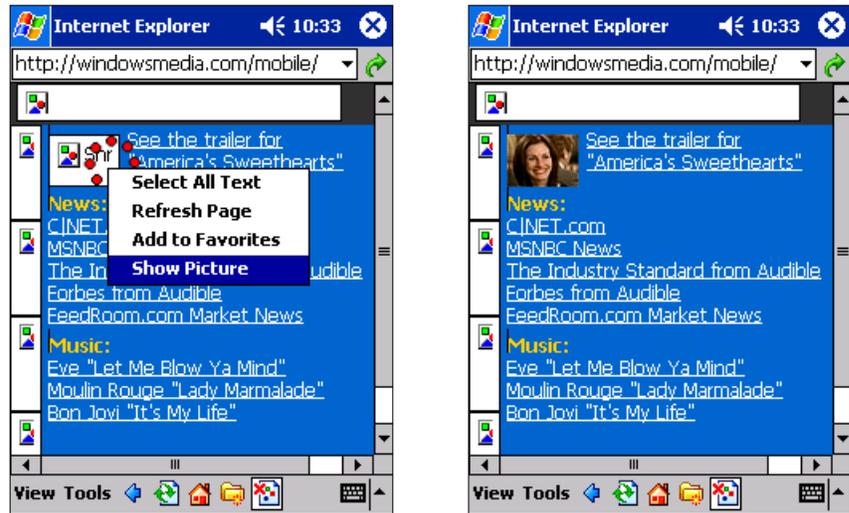


6. If you're browsing the Web over a slow connection, graphics are something you can probably do without. Pocket Internet Explorer helps speed Web page downloading in two ways. First, it always requests a page's text content before it tries to download images. Second, it allows users to turn off all image downloads, and/or selectively pull down only the ones they need. To see this for yourself, tap on the **Hide Pictures** icon.



7. Next, tap on **Favorites** and choose **WindowsMedia.com**.

8. The page appears very quickly, but as you can see there are no images. To selectively display a picture, tap and hold on its placeholder, and choose **Show Picture** from the context menu. The individual image is retrieved.



9. If you decide you'd rather see all the images, tap on **Hide Pictures** once more to toggle it off and the Web page will render completely.



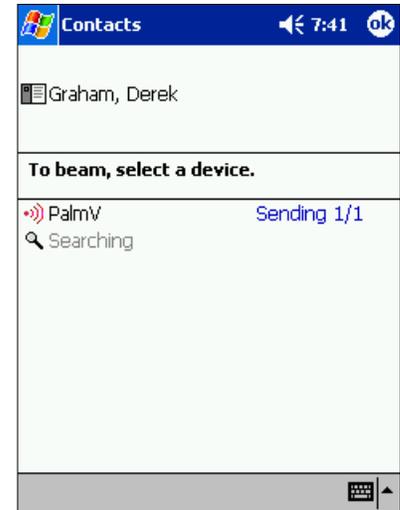
## Brand New Feature

- Data can now be beamed between Pocket PC, mobile phones and Palm devices

## Universal Beaming Support

By supporting the industry standard OBEX protocol, Pocket PC allows customers to easily exchange data between Pocket PCs, mobile phones and Palm devices.

1. A prime usage of Universal Beaming is sending contact information to friends or business associates. In this example, you'll send one of the Pocket PC contacts to a Palm device. Place the two devices face to face, then go to Contacts, tap and hold on one of the names, and then choose **Beam Contact**. When the Pocket PC locates the receiving device, its name appears on screen and the transfer initiates.



Due to the different data structures each device uses to store information, not all items can be transferred between a Pocket PC and a Palm unit. The most notable example is the notes field. Notes are stored in Pocket Word format, which is not compatible with Palm.

Records on the Palm that include notes will successfully transfer to the Pocket PC.

2. On the Palm device, you'll be asked to accept the data. Tap on **Yes**. The new record will appear in the Unfiled category.



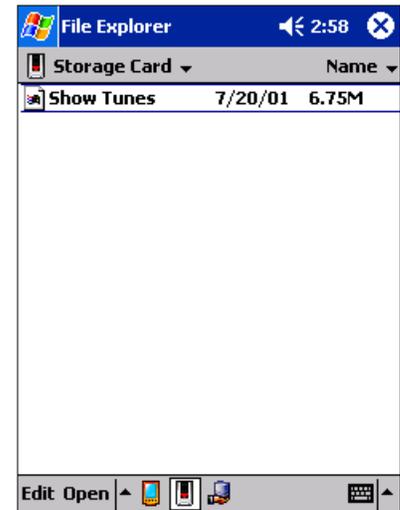
## Key Enhancements

- Supports direct access to network shares
- On-screen buttons for storage card and network
- Previously opened history window

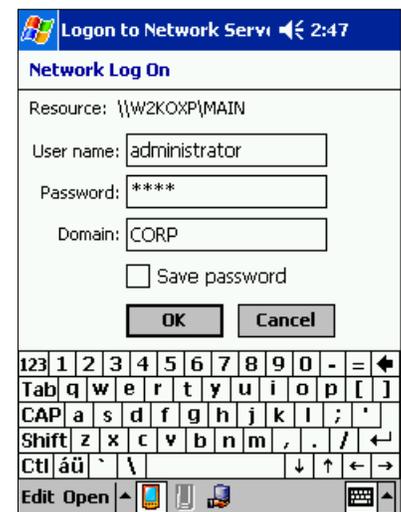
## File Explorer

File Explorer has been improved with several new features that make managing your data — whether on the Pocket PC or on the network — easier than ever. With its improved network support, File Explorer now gives Pocket PC users the ability access network shares.

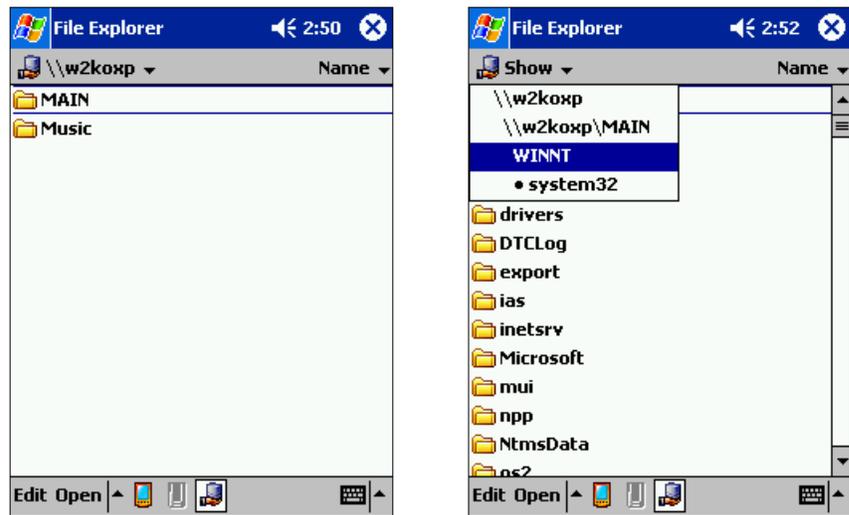
1. From the **Start** menu, tap on **Programs >File Explorer**. Unlike its predecessor, the improved File Explorer defaults to the **My Documents** folder the first time only; it then returns to the last folder you had open. Gaining access to an add-on memory card is now as simple as tapping on the Storage Card icon.



2. When your device is connected to a network, you can now use File Explorer to directly browse shared folders, using either the Network Share icon or the **Open** menu. Tapping either one brings up the Open dialog box. Just as you'd do on a desktop PC, enter the UNC formatted name ( \\server\share ) and tap on **OK**. You'll be prompted for your user identification. Fill these in and tap on **OK**.



- Once you're authenticated, the remote share will be displayed. You can navigate down the directory tree by tapping on the folders, and back up again using the **Show** drop-down menu.



- Tap on the arrow to the right of **Open** to bring up a history of the local or remote paths you've recently accessed.



Whether you're a network administrator who needs quick access to files located out on the LAN or just a user who left an important spreadsheet on the server by mistake, File Explorer will make your life easier.

**Note:** Just as you wouldn't delete any system files on your desktop PC, take care not to move or delete any of the Pocket PC system files.

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## CONCLUSION

This guide has given you a quick look at some of the many enhancements for Pocket PC 2002. Think of Pocket PC 2002 as a miniature, general-purpose PC that can be customized for your personal needs, and that now has even greater Pocket PC application functionality that can help you stay organized. Pocket PC 2002 organizes your daily schedule, manages your social plans and records your activities with the most essential tools to sustain your productivity while you are away from your desktop PC. The enhanced functionality and enterprise features of Pocket PC 2002 provide increased opportunities for corporations to make the most of Pocket PC, providing their human resources with tremendous technology resources to make the most of the mobile experience.

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