



Addendum
for Embedded Windows[®] CE .NET 4.2

***PPT 8800 Series
Addendum
for Embedded Windows[®] CE .NET 4.2***

72-67695-01

Revision A

April 2004

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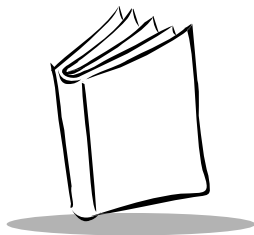
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Revision History

Changes to the original manual are listed below:

Change	Date	Description
-01	4/2004	Initial Release



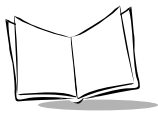
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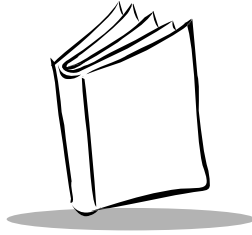
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About This Addendum

Introduction

This addendum describes the differences between the Windows CE .NET 4.1 and CE .NET 4.2 operating system as it pertains to the PPT 8800 with Windows Embedded CE .NET terminal. The PPT 8800 Series includes the following variations of the terminal:

PPT 8800 Performs 1-dimensional scanning and batch communication. Memory configuration: 32 MB ROM/32 MB RAM, optional 128 MB additional CF memory.

PPT 8846 Performs 1-dimensional scanning and uses the Symbol Spectrum24[®] radio to perform 11 MB local area network (LAN) wireless communication. Memory configuration: 32 MB ROM/32 MB RAM.

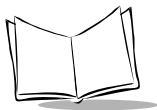
Chapter Descriptions

Topics covered in this guide are as follows:

- [Chapter 1, CE .NET 4.2](#) explains the changes between CE .NET 4.1 and CE .NET 4.2.
- [Chapter 2, Spectrum24 Network Configuration](#) details specific operation when using PEAP authentication.
- [Appendix A, Technical Specifications](#) includes a table listing the technical specifications for the terminal.

Notational Conventions

This document uses these conventions:



- “terminal” or “PPT 8800” refers to any model of the terminal.
- “User” refers to anyone using an application on the terminal.
- “You” refers to the End User, System Administrator or Technical Support person using this manual as a reference to install, configure, operate, maintain and troubleshoot the terminal.
- *Italics* are used to highlight specific items in the general text, and to identify chapters and sections in this and related documents. It also identifies names of windows, menus, menu items, and fields within windows.
- **BOLD** identifies buttons to be tapped or clicked on windows.
- Bullets (•) indicate:
 - lists of alternatives or action items.
 - lists of required steps that are not necessarily sequential.
- Numbered lists indicate a set of sequential steps, i.e., those that describe step-by-step procedures.

Related Documents

The following documents provide more information about your terminal.

- *PPT 8800 Series Quick Reference Guide*, p/n 72-58093-xx
- *PPT 8800 Product Reference Guide for Embedded Window CE. NET*, p/n 72-58094-xx
- *CRD8800-1000S Serial Cradle Quick Reference Guide*, p/n 72-58095-xx
- *CRD8800B-1000S Serial Cradle Quick Reference Guide*, p/n 72-64181-xx
- *CRD8800-4000S Serial Cradle Quick Reference Guide*, p/n 72-58096-xx
- *CRD8800-4000E Ethernet Cradle Quick Reference Guide*, p/n 72-59203-xx
- *MSR8800 Magnetic Stripe Reader Quick Reference Guide*, p/n 72-64824-xx
- *TRG8800 Trigger Handle Quick Reference Guide*, p/n 72-64623-xx
- *AirBEAM Package Builder Product Reference Guide*, p/n 72-55769-xx
- *AirBEAM Smart Windows® CE Client Product Reference Guide*, p/n 72-63060-xx
- *Windows CE Help File for Symbol Terminals*, p/n 72E-38880-xx
- *Symbol Windows CE Software Developer's Kit (SDK) for PPT 8800*, available at <http://software.symbol.com/devzone>
- ActiveSync software, available at <http://www.microsoft.com>.

Service Information

If you have a problem with your equipment, contact the [Symbol Support Center](#) for your region. See [page ix](#) for contact information. Before calling, have the model number, serial number, and several of your bar code symbols at hand.

Call the Support Center from a phone near the scanning equipment so that the service person can try to talk you through your problem. If the equipment is found to be working properly and the problem is symbol readability, the Support Center will request samples of your bar codes for analysis at our plant.

If your problem cannot be solved over the phone, you may need to return your equipment for servicing. If that is necessary, you will be given specific directions.

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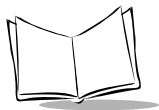
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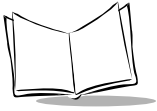
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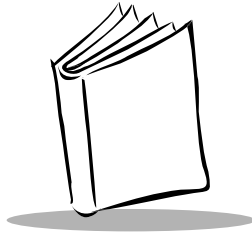
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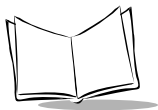


Chapter 1

CE. NET 4.2

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Introduction

Differences between the CE .NET 4.1 and CE .NET 4.2 operating systems include:

- Desktop taskbar functionality changes
- New Control Panel settings
- Changes to Internet Explorer functionality
- New Symbol CtlPanel applet.

The following paragraphs describe additions and changes between the operating systems.

Desktop

When the PPT 8800 is turned on, the desktop window appears.

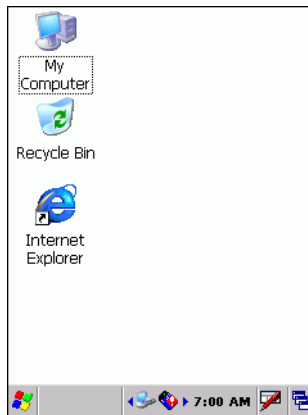


Figure 1-1. PPT 8800 Desktop

Major functions on the desktop include:

- Recycle Bin: Dragging and dropping an unnecessary file on this icon transfers it to Recycle Bin folder and the file is stored there until you empty the bin for deletion.
- My Computer: Double tapping on this icon opens My Computer.
- Internet Explorer: Double tapping on this icon open Internet Explorer application.



- Taskbar: This contains the Start Button, Open Programs, Status Icons, Date/Time Properties, Input Panel Button and the Desktop Button.

Taskbar

The *Taskbar* at the bottom of the window displays the active programs, current time, battery status and communication status.

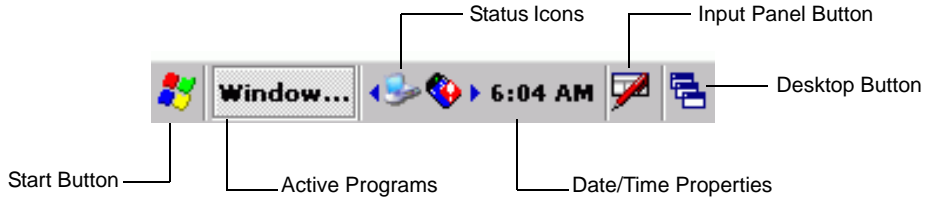


Figure 1-2. Taskbar

Start Button

The *Start* button is used to quickly start a program, find a file, access the settings window or access help.

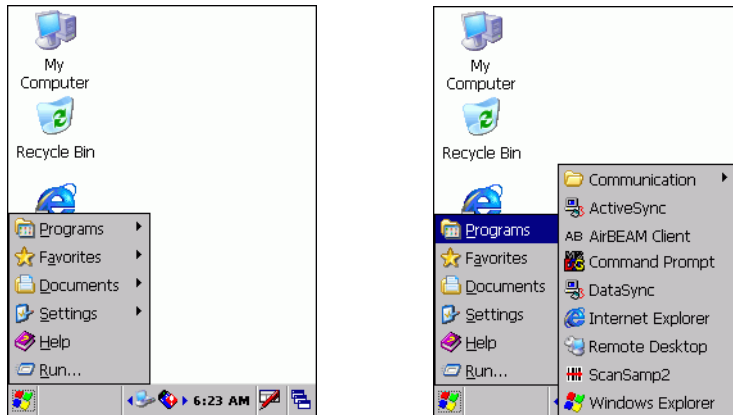


Figure 1-3. Start Menu

- Tapping *Programs* displays Programs menu. See [Chapter 3, Applications](#) for detailed information on available programs.
- Tapping *Favorites* displays a list of files as your Favorites.

- Tapping *Documents* displays files you have used or edited recently.
- Tapping *Settings* displays Settings menu. See [Chapter 2, Settings and Applications](#) for detailed information on terminal settings.
- Tapping *Help* opens Windows CE Help.
- Tapping *Run* opens Run... dialog to open a program.









Active Program

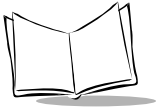
If there are programs open, the active program's name displays in the taskbar. Tapping the button opens and hides the program.

Status Icons

Status icons are shown in the taskbar to indicate present status of the terminal. Double tapping each status icon displays the corresponding setup window and enables you to change or adjust its settings from the window.



Table 1-1. Status Icons

Status Icon	Description
	Indicates the current time.
	This icon indicates that the main battery is under charged or that the terminal is operating on AC power. Double tapping on this icon opens the Power Properties window.
	This icon is displayed when the memory backup battery level is low. Charge the battery.
	This icon is displayed when the memory backup battery level is very low. Charge the battery immediately.
	This icon is displayed when the main battery level is low. Charge the battery.
	This icon is displayed when the main battery level is very low. Charge the battery immediately.
	It is displayed when the terminal is connected to a host computer with a serial cable.
	Spectrum24 wireless connection status icon. Double-tap to open the Mobile Companion utility (PPT 8846 Only).



Input Panel Button

The Input Panel Button shows or hides the *Input Panel* display.

	Indicates that the keyboard input panel is selected. Tap the icon, then select <i>Hide Input Panel</i> .
	Indicates that the keyboard input panel is hidden. Tap the icon, then select <i>Keyboard</i> .

Date/Time Properties

Double-tapping on the current time opens the *Date/Time Properties* window. Use this window to customize the date and time for the terminal.

Desktop Button

The *Desktop* button allows you to select an open program or hide all open programs and display the desktop.

Taskbar and Start Menu Settings

The behavior of the taskbar is controlled by the *Taskbar and Start Menu Properties* window. To open the window:

1. Select *Start - Settings - Taskbar and Start Menu...*
2. Select the *General* tab.
3. To enable the taskbar to always appear on top, select *Always on top* checkbox.
4. To allow the taskbar to disappear (hide) when not being used, select *Auto hide* checkbox. To show the taskbar, tap the bottom of the display.
5. To display the clock on the taskbar, select *Show Clock* checkbox.

Settings

There are two new setting applications in CE .NET 4.2; ClearType and Internet Options and two applications were remove; Device Management and Mouse.



To view available options for your terminal settings, tap *Start - Settings - Control Panel*.



Figure 1-4. Control Panel Window

[Table 1-2](#) lists the applications available in the *Control Panel* for both the *CE .NET 4.1* and *CE .NET 4.2* operating systems. New applications are described in the following paragraphs.

Table 1-2. Control Panel Applications

Icon	WinCE .NET 4.1	WinCE .NET 4.2	Description
 Certificates	Yes	Yes	View and modify digital certificates which are used by some applications for establishing trust for secure communications.
 ClearType	No	Yes	See Clear Type on page 1-11 for more information.

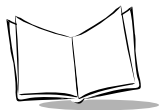


Table 1-2. Control Panel Applications (Continued)









Icon	WinCE .NET 4.1	WinCE .NET 4.2	Description
 Date/Time	Yes	Yes	Change date, time and time zone information.
 Device Management	Yes	No	Configure device management, install and view available software.
 Dialing	Yes	Yes	Set dialing properties for modem communication and change telephony settings.
 Display	Yes	Yes	Change desktop background, appearance, backlight, and brightness.
 Input Panel	Yes	Yes	Switch input methods and set input options.
 Internet Options	No	Yes	Configure See Internet Options on page 1-12 for more information.
 Keyboard	Yes	Yes	Change keyboard repeat delay and rate.
 Mouse	Yes	No	Adjust double-click sensitivity for both the speed and timing.

Table 1-2. Control Panel Applications (Continued)













Icon	WinCE .NET 4.1	WinCE .NET 4.2	Description
 Network and Dial-up	Yes	Yes	Connect to other computers, networks, and the Internet through a modem.
 Owner	Yes	Yes	Change owner's personal profiles.
 Password	Yes	Yes	Change owner's password and set security options.
 PC Connection	Yes	Yes	Change settings for connectivity of a host computer.
 Power	Yes	Yes	View battery status and change power management options.
 Regional Settings	Yes	Yes	Change how numbers, currencies, dates, and times are displayed.
 Remove Programs	Yes	Yes	Remove loaded programs from RAM.
 Storage Manager	Yes	Yes	Manage storage media and disk partitions.



Table 1-2. Control Panel Applications (Continued)

Icon	WinCE .NET 4.1	WinCE .NET 4.2	Description
 Stylus	Yes	Yes	Calibrate the touch screen and adjust double-tap timing.
 Symbol Settings	Yes	Yes	Change settings unique to the PPT 8800.
 System	Yes	Yes	View system information, and change memory settings.
 Volume & Sounds	Yes	Yes	Set event sounds and volume options.

To change a terminal setting:

1. Tap *Start - Settings - Control Panel*. The *Control Panel* window appears.
2. Double-tap on the item for which you would like to change settings.
3. If necessary, tap on the each tab to switch displayed window.
4. Change setting(s).
5. Tap **OK**. The *Properties* window closes.

Note: Depending on what you set, you may be required to reset the terminal.

Clear Type

ClearType improves font display resolution and increases screen readability. With ClearType font technology, the words on the screen look almost as sharp and clear as those printed on a piece of paper.

Select the **Enable ClearType** check box to enable easier reading of text in programs that support ClearType.

1. Tap *Start - Setting - Control Panel - Clear Type* icon.
2. Select *Enable Clear Type* checkbox.
3. Move the slider at the bottom of the window to adjust the type appearance. The *ClearType Tuneing* window changes as the setting is adjusted.

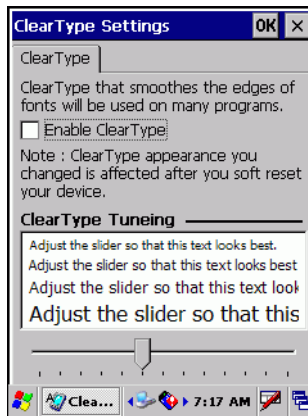


Figure 1-5. Clear Type Settings



Internet Options

Use Internet Options to change *Pocket Internet Explorer* properties. These properties are organized under three tabs: *General*, *Connection* and *Security*.

General Tab

Tap *Start* - *Settings* - *Control Panel* - *Internet Options* - *General* tab.

The *Start Page* field displays the internet address for the page that is currently set as the home page.

The *Search Page* field displays the internet address for the page that is currently set as the search page.



Figure 1-6. Internet Settings - General Tab

The *Cache Size* field specifies how much disk space to use for temporary internet files. The more disk space allotted the more pages can be stored in memory.

To clear the data in the cache, tap the **Clear Cache** button.

Internet Explorer creates shortcuts to pages viewed in browsing sessions. To clear the list of web pages visited, tap the **Clear History** button.

Connection Tab

The *Connection* tab enables setting the way *Internet Explorer* access the internet.

Tap *Start - Settings - Control Panel - Connection tab.*

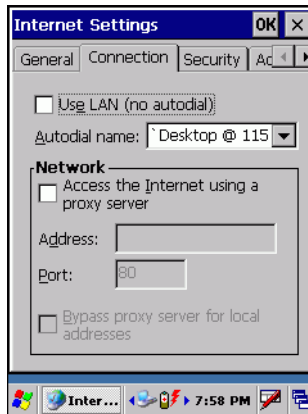


Figure 1-7. Internet Settings - Connection Tab

Security Tab

Pocket Internet Explorer supports the security protocols used by secure sites. When accessing a secure site, personal information can be sent safely. To determine if a web site is secure, check for a lock icon on the *Pocket Internet Explorer* button on the status bar.

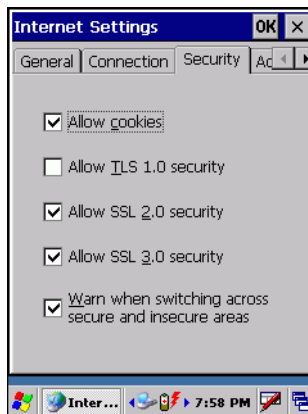


Figure 1-8. Internet Settings - Security - Tab

1. Select *Allow cookies* to enable *Pocket Internet Explorer* to except cookies.



2. Select *Allow TLS 1.0 security* to specify whether to send and receive secured information through Transport Layer Security (TLS), an open security standard similar to (Secure Sockets Layer) SSL 3. Note that some web sites might not support this protocol.
3. Select *Allow SSL 2.0 security* to specify whether to send and receive secured information through SSL 3.0, the standard protocol for secure transmissions. All web sites support this protocol.
4. Select *Allow SSL 3.0 security* to specify whether to send and receive secured information through SSL 3.0, a protocol that is intended to be more secure than SSL 2.0. Note that some web sites might not support this protocol.

Advanced Tab

Use the *Advanced* tab to set the way Web pages display on the terminal.

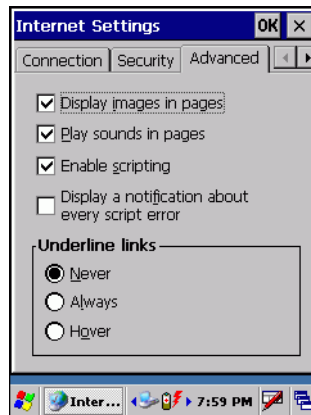


Figure 1-9. Internet Options - Advanced Tab

To display images when a Web page displays select *Display images in pages* check box. Sometimes pages that contain several graphical images display very slowly. To display pages more quickly, deselect *Display images in pages* check box. To display the images, tap on the image and hold until the menu appear then select *Show Image*.

To enable audio or sounds to play when a Web page displays select *Play sounds in pages* check box. Sometimes pages that contain audio clips display very slowly.

To enable Internet Explorer to allow scripting, select *Enable scripting*.

To display the actual script errors when a page does not appear properly due to problems with its scripting select the *Enable scripting* check box. This feature is off by default, but is useful to developers when testing Web pages.



Internet Explorer

Note: *In CE .NET 4.2, some functionality of Internet Explorer changed.*

With Internet Explorer, you can view Internet or intranet Web pages on your terminal. You need to use a modem, an Ethernet connection or a Spectrum24 connection to connect to an Internet service provider (ISP) or network.

To open Internet Explorer, tap *Start - Programs - Internet Explorer*.

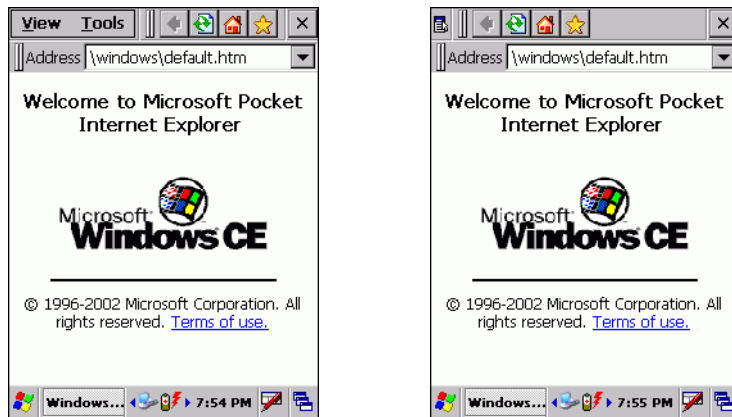


Figure 1-10. Pocket Internet Explorer

Browsing the Web

To browse the Web:

1. Connect to a network using a wireless connection. See *Connecting to the Internet on a Wireless Network* on page 4-36.
2. Once connected, go to a specific Web page in one of the following ways:
 - Select *View*, then *Address Bar* (if the Address bar is not already displayed). In the address bar, using the soft keyboard or 15-key keypad, enter the Web address. Press or tap the ENTER key. You can also tap the Address Bar drop-down arrow to choose from previously entered addresses.
3. To end the connection, select *File - Close*.

Note: *If you select Internet Explorer before setting up the network connections, a window may appear allowing you to proceed to the connection settings window. After you select your settings, you return to Internet Explorer.*

Setting up a Proxy Server

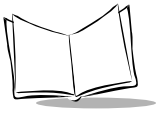
Proxy servers are often used when connecting to the Internet through a local network, such as a corporate network, for added security. To set the proxy server settings:

1. From the Menu bar, select *Tools - Options*. The Internet Options window appears.
2. Tap the *Connection* tab.
3. Select *Access the Internet using a proxy server*.
4. Enter the proxy server address and port. For more information, see your network administrator.
5. To bypass the proxy server for local addresses, such as corporate intranet pages, select *Bypass Proxy for Local Addresses*.
6. Tap **OK**.

Enable Cookies

A cookie file contains information about your identity and preferences so that a Web site can tailor information to your needs. The Web site sends the file, and it is stored on the terminal.

1. From the Menu bar, select *View - Options*. The *Internet Options* window appears.
2. Tap the *Security* tab.
3. Select *Allow cookies*.
4. Tap **OK**.



Symbol CtlIPanel

Use the *Symbol CtlIPanel* to change settings for the mobile computer. Tap Start - *Programs* - *Symbol CtlIPanel* to display the *Control Panel* window.



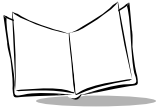
Figure 1-11. Control Panel Window

Table 1-3. Control Panel Menu

Menu Item	Description
About	Displays the Control Panel software information, see About on page 1-20.
System Versions	Displays the system software information, see System Version on page 1-21.
Persist	Select the Persist setting, Yes or No, see Persist on page 1-22.
Battery	Displays the battery status information, see Battery on page 1-23.
Power Settings	Set power parameters, see Power Settings on page 1-24.
Date and Time	Select the date and time settings, see Date and Time on page 1-25.
Touch Calibrate	Calibrate the touch panel, see Touch Calibration on page 1-27.
Printer Settings	Select the printer settings, see Printer Settings on page 1-27.
Comm Settings	Select the communication settings, see Comm Settings on page 1-31.
Audio Settings	Select the sound settings, see Audio Settings on page 1-32.
Scanner Settings	Set scan parameters, see Scanner Settings on page 1-33.

Table 1-3. Control Panel Menu (Continued)

Menu Item	Description
Symbol Security	Displays the security information, see Battery on page 1-23.



About

Use the *About* window to view the system's control panel software version information.

1. Tap *Start - Programs - Symbol CtlPanel - About*. The *About* window appears.

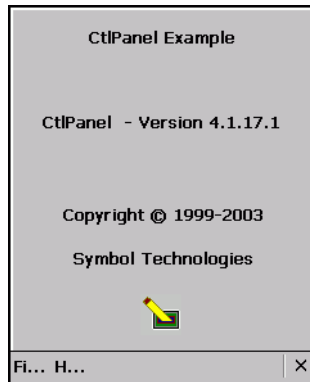


Figure 1-12. About Window

2. Press **Enter** key to return to the *Symbol CtlPanel* window.

System Version

Use the *System Version* window to view the system software versions.

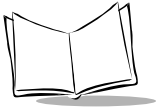
1. Tap *Start - Programs - Symbol CtlPanel - System Versions*. The *System Versions* window appears.



Figure 1-13. System Version Window


2. Tap **OK** to return to the *Control Panel* window.

Note: Version data shown is example data only.



Persist

The *Persist* setting is made in the *Control Panel* window, see [Figure 1-11 on page 1-18](#). It is used in conjunction with a parameter settings to save the new setting(s) in a .reg file in the */Applications* directory. Enable *Persist* prior to changing any settings if the settings are to be saved over a cold boot.

1. From the *Control Panel* window, tap *Persist*.
2. Use the right arrow  button to toggle the value to between *Yes* or *No*.

The created registration files can be found in the root directory of the application drive and the filenames are the same as the registry key names. For example, for a key called ZOT with a registry path of \HARDWARE\ONE\FUZZY the filename would be HARDWARE.ONE.FUZZY.ZOT.REG.

Battery

Use the *Battery* window to view the battery status.

1. Tap *Start - Programs - Symbol CtlPanel - Battery*. The *Battery* window appears.

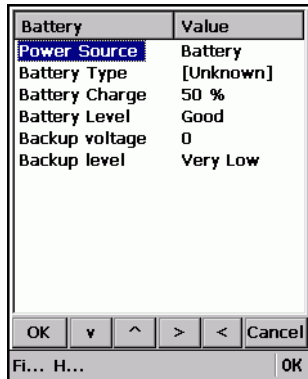


Figure 1-14. Battery Status Window

Note: Do not use the Backup voltage value.

2. Tap **OK** to return to the Control Panel window.



Power Settings

Select *Power Settings* on the *Symbol Control Panel* to specify the settings to use for the terminal's devices.



Figure 1-15. Power Settings Window

Tap each device listed to select the appropriate settings, where applicable. Scroll through the device values to select the appropriate value.

To turn the Spectrum24 radio on and off, tap the *wlp1* device and tap either *D0* to turn the radio on or *D4* to turn the radio off.

Tap **OK** to save the settings.

Date and Time

Use the *Date and Time* window to set the date, time and time zone information for the terminal.

1. Tap *Start - Programs - Symbol Ctl Panel - Date and Time*. The *Date and Time Settings* window appears.



Figure 1-16. Date and Time Settings Window

2. To change the date and time, tap the *Set Date Time* field. The *Date and Time* window appears.

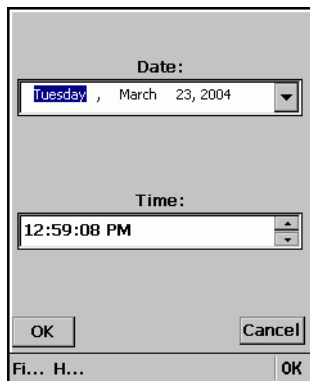
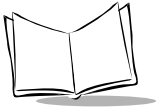




Figure 1-17. Date and Time Window



3. To change the date, tap the down arrow in the *Date:* field. A calendar box appears. Select the month and then select the day.
4. To change the time, tap the *Time:* field and tap the up and down arrows to change the value.
5. Tap **OK** to return to the *Date and Time Settings* window.
6. To change the time zone, tap the *Zone* item in the *Date and Time* column.
7. Use the left  and right  arrows to select the time zone.
8. Tap **OK** to return to the *Symbol CtlPanel* window.

Touch Calibration

Select *Touch Calibrate* to re-align the window.



Printer Settings

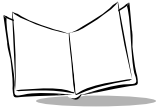
Use the *Printer Settings* window to select the printer information.

1. Tap *Start - Programs - Symbol Ctl Panel - Printer Settings*. The *Printer Settings* window appears.



Figure 1-18. Printer Settings Window

2. To select a printer, tap the *Selected Printer* item in the *Printer Settings* column.
3. Use the left  and right  arrows to select the printer. Available printer selections include:
 - Cameo_Series
 - Comtec_RP3
 - Encore_Series
 - Monarch9450
 - Monarch9460
 - Monarch9490
 - Oneil_MF2T
 - Oneil_Series
 - Oneil_MF4T
 - PGP1000



- PrintPad
 - QL320
 - QL420
 - Zebra_Series.
4. Tap *Printer Parameters* to enter the *Printer Parameters* window.

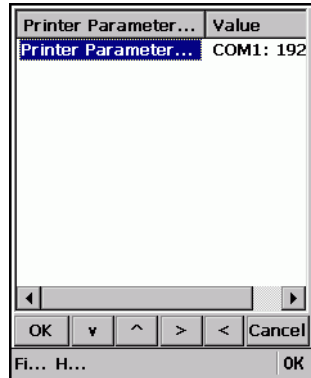


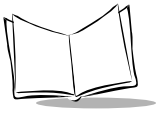


Figure 1-19. Printer Parameters Window

5. Tap the *Selected Printer* item in the *Printer Settings* column.
6. Use the left  and right  arrows to select the communication and baud rate. Values include:
- Com1: 38400
 - Com1: 19200
 - Com1: 9600
 - Com2: 38400
 - Com2: 19200
 - Com2: 9600
 - Com3: 38400
 - Com3: 19200
 - Com3: 9600
 - Com4: 38400
 - Com4: 19200
 - Com4: 9600

- LPT1:
- Not Supported.



7. To view the *Version Information*, tap the *Version Info* item in the *Printer Settings* column.
8. Version information includes:
 - API Version
 - PDD Version
 - MDD Version
 - TldVersion.



Figure 1-20. Printer Version Information Window

9. Tap **OK** to return to the *Control Panel* window.

Comm Settings

Use the *Comm Settings* window to select the communications settings.

1. Tap *Start - Programs - Symbol Ctl Panel - Comm Settings*. The *Comm Settings* window appears.

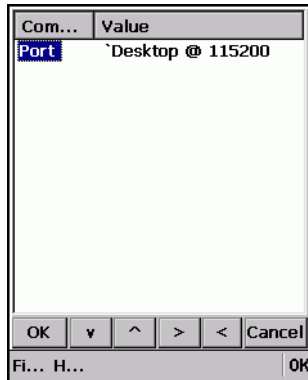


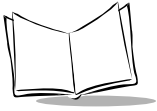


Figure 1-21. Comm Settings Window

2. With *Port* highlighted, use the left  and right arrow  buttons to select the appropriate communication setting. *Comm* port selection values are:
 - Desktop @ 115200
 - Desktop @ 57600 (default setting)
 - Desktop @ 19200.
3. Tap **OK** to return to the *Control Panel* window.



Audio Settings

Use the *Audio Settings* window to set the audio parameters.

1. Tap *Start - Programs - Symbol Ctl Panel - Audio Settings*. The *Audio Settings* window appears.

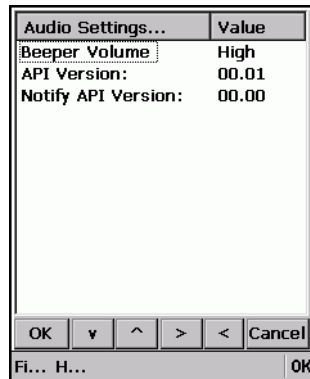




Figure 1-22. Audio Settings Window

2. Tap *Beeper Volume* in the *Audio Settings* column.
3. Use the left  and right arrow  buttons to select the volume value to High, Med or Low.
4. *API Version* and *Notify API Version* are display values only.
5. Tap **OK** to return to the *Control Panel* window.

Scanner Settings

Use the *Scanner Settings* window to set the scanner information.

1. Tap *Start - Programs - Symbol Ctl Panel - Scanner Settings*. The *Scanner Settings* window appears.

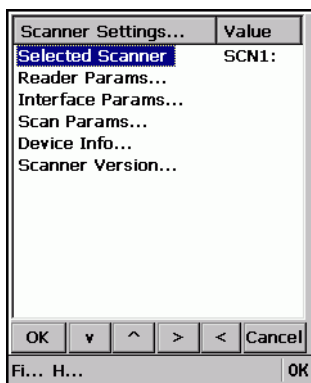


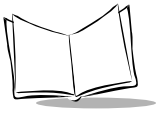


Figure 1-23. Scan Settings Window

2. To change any item in the *Scanner Settings* column, use the up  and down  arrows to select the item. *Selected Scanner* is a display only value.
3. Tap the item to open a new window.
 - *Reader Parameters*, see [Reader Parameters](#) on page 1-34.
 - *Interface Parameters*, see [Interface Parameters](#) on page 1-35.
 - *Scan Parameters*, see [Scan Parameters](#) on page 1-36.
 - *Device Information*, see [Device Information](#) on page 1-40.
 - *Scanner Version*, see [Scanner Version](#) on page 1-41.
4. Tap **OK** to return to the *Control Panel* window.



Reader Parameters

Use the *Reader Parameters* window to set the scanning read parameters.

1. Tap *Start - Programs - Symbol Ctl Panel - Scanner Settings - tap Reader Parameters*. The *Reader Parameters* window appears.



Figure 1-24. Reader Parameters Window





2. To change any item in the *Reader Parameters* column, use the up  and down  arrows to select the item.
3. Use the left  and right arrow  buttons to increment the value. [Table 1-4](#) list the Reader Parameter value options.

Table 1-4. Reader Parameters

Reader Parameters	Values
Reader Type	Laser
Aim Type	Trigger, Timed hold, Timed Release
Aim Duration	0-60,000 in increments of 100
Aim Mode	Dot, Slab, Reticle, None
Beam Width	Normal, Narrow
Raster Mode	Smart, Cyclone, None, Always Open,
Beam Timer	0-60,000 in increments of 100
Control LED	False, True
LED Level	High, Low

Table 1-4. Reader Parameters (Continued)

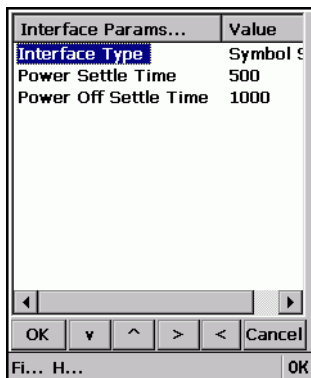
Reader Parameters	Values
Class 1 Sup	False, True
Redundancy	None, Bidirectional
Linear Sec	(Short, Redun), (Short, Codabar), (All codes *2), (Long*2, Short*3), (All codes *3)
Pointer Timer	0-60,000 in increments of 100
Raster Height	0-100 in increments of 5

4. Tap **OK** to return to the *Control Panel* window.

Interface Parameters

Use the *Interface Parameters* window to set the scanning interface parameters.

1. Tap *Start - Programs - Symbol Ctl Panel - Scanner Settings - Interface Parameters*.
The *Interface Parameters* window appears

**Figure 1-25. Interface Parameters Window**

2. To change any item in the *Interface Parameters* column, use the up  and down  arrows to select the item.
3. Use the left  and right arrow  buttons to increment the value. [Table 1-5](#) list the Reader Parameter value options.

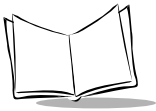


Table 1-5. Interface Parameters

Interface Parameter	Values
Interface Type	Symbol SSI
Power Settle Time	0-1000 in increments of 50
Power Off Settle Time	0-1000 in increments of 50

4. Tap **OK** to return to the *Control Panel* window.

Scan Parameters

Use the *Scan Parameters* window to set the scan parameters.

1. Tap *Start - Programs - Symbol Ctl Panel - Scanner Settings - Scan Params*. The *Scan Parameters* window appears.

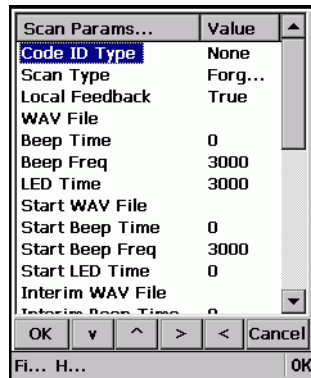


Figure 1-26. Scan Parameters Window





2. To change any item in the *Scan Parameters* column, use the up  and down  arrows to select the item.
3. Use the left  and right arrow  buttons to increment the value. [Table 1-6](#) list the Scan Parameter value options.

Table 1-6. Scan Parameters

Scan Parameters	Values
Code ID Type	None, Symbol, AIM
Scan Type	Forgrnd, Bkgrnd, Monitor
Local Feedback	True, False
WAV File	See Figure 1-27 on page 1-39 , Tap Decrement to move back on the WAV file listing and Increment to move forward on the WAV file listing. Tap OK to select the WAV file.
Beep Time	0-5000 in increments of 100
Beep Freq	2500-3500 in increments of 10
LED Time	0-5000 in increments of 500
Start WAV File	See Figure 1-27 on page 1-39 , Tap Decrement to move back on the WAV file listing and Increment to move forward on the WAV file listing. Tap OK to select the WAV file.
Start Beep Time	0-5000 in increments of 100
Start Beep Freq	2500-3500 in increments of 10
Start LED Time	0-5000 in increments of 500
Interim WAV File	See Figure 1-27 on page 1-39 , Tap Decrement to move back on the WAV file listing and Increment to move forward on the WAV file listing. Tap OK to select the WAV file.
Interim Beep Time	0-5000 in increments of 100
Interim Beep Freq	2500-3500 in increments of 10
Interim LED Time	0-5000 in increments of 500
Fatal WAV File	See Figure 1-27 on page 1-39 , Tap Decrement to move back on the WAV file listing and Increment to move forward on the WAV file listing. Tap OK to select the WAV file.
Fatal Beep Time	0-5000 in increments of 100

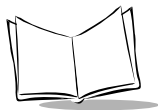


Table 1-6. Scan Parameters (Continued)

Scan Parameters	Values
Fatal Beep Freq	2500-3500 in increments of 10
Fatal LED Time	0-5000 in increments of 500
Nonfatal WAV File	See Figure 1-27 on page 1-39 , Tap Decrement to move back on the WAV file listing and Increment to move forward on the WAV file listing. Tap OK to select the WAV file.
Nonfatal Beep Time	0-5000 in increments of 100
Nonfatal Beep Freq	2500-3500 in increments of 10
Nonfatal LED Time	0-5000 in increments of 500
Activity WAV File	See Figure 1-27 on page 1-39 , Tap Decrement to move back on the WAV file listing and Increment to move forward on the WAV file listing. Tap OK to select the WAV file.
Activity Beep Time	0-5000 in increments of 100
Activity Beep Freq	2500-3500 in increments of 10
Activity LED Time	0-5000 in increments of 500

4. Tap **OK** to return to the *Control Panel* window.

WAV File

Use the *WAV File* window to select a .wav file. Use the **Increment** and **Decrement** buttons to scroll through the wav file listing.

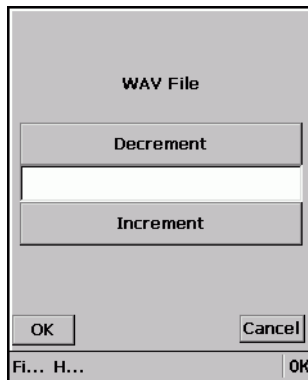


Figure 1-27. Scan WAV File Window

Tap **OK** to return to the *Control Panel* window.



Device Information

Use the *Device Information* window to view the scanner information.

1. Tap *Start - Programs - Symbol Ctl Panel - Scanner Settings - Scan Parameters*. The *Scan Parameters* window appears.

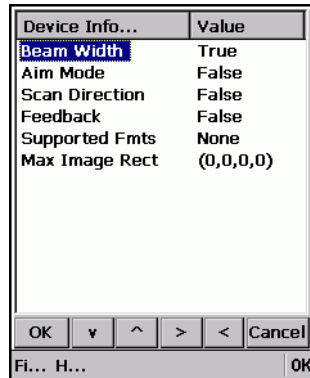


Figure 1-28. Device Information Parameters Window





2. To change any item in the *Device Information* column, use the up  and down  arrows to select the item.
3. Use the left  and right arrow  buttons to increment the value. [Table 1-7](#) list the Reader Parameter value options.

Table 1-7. Device Information Parameters

Device Info Parameter	Values
Beam Width	True
Aim Mode	True
Scan Direction	False
Feedback	False
Supported Fmts	None
Max Image Rect	(0,0,0,0)

4. Tap **OK** to return to the *Control Panel* window.

Scanner Version

Use the *Scanner Version* window to view the scanner version information.

1. Tap *Start - Programs - Symbol Ctl Panel - Scanner Settings - Scanner Version*. The *Scanner Version* window appears.

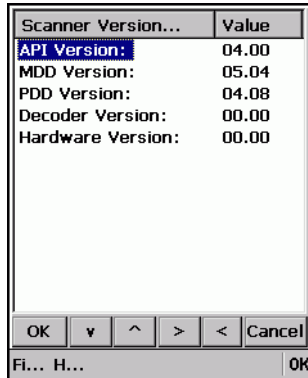


Figure 1-29. Scanner Version Window





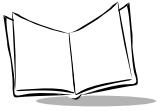
2. To change any item in the *Scanner Version* column, use the up  and down  arrows to select the item.
3. Use the left  and right arrow  buttons to increment the value. [Table 1-8](#) list the Reader Parameter value options.

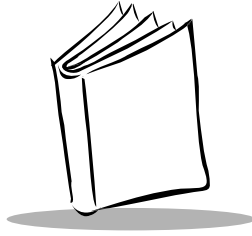
Table 1-8. Version Parameters

Version Parameter	Values
API Version	04.02
MDD Version	05.06
PDD Version	04.11
Decoder Version	00.00
Hardware Version	00.00

4. Tap **OK** to return to the *Control Panel* window.



PPT 8800 Addendum for Embedded Windows® CE .NET 4.2

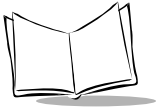


Chapter 2

Spectrum24 Network Configuration

Chapter Contents

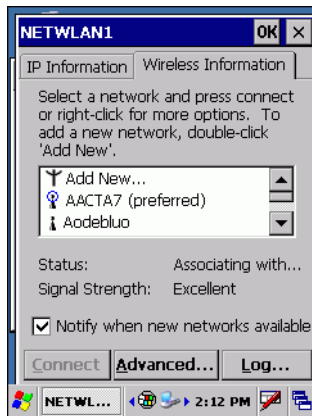
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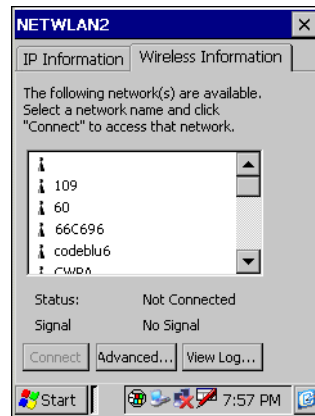
PPT 8800 Addendum for Embedded Windows® CE .NET 4.2

PEAP Authentication

When PEAP authentication is set in the *Mobile Companion V3.9.2 Authentication* tab and a PEAP enabled network is not available, a Microsoft “zeroconfig” dialog box may appear on the screen.



Win CE .NET 4.2



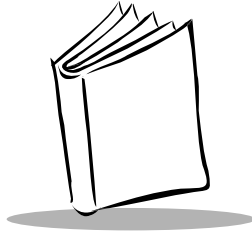
Win CE .NET 4.1

Figure 2-1. Wireless Information Tab

If the dialog box appears, tap the close button. Do not select a network listed in the dialog box.



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Appendix A

Technical Specifications

Environment

The following table summarizes the terminal's intended operating environment.

Table A-1. Technical Specifications

Operating Temperature	14° to 122° F (-10° to +50° C)
Storage Temperature	-13° to 158° F (-25° to 70° C)
Humidity	5% to 90% non-condensing
Electrostatic Discharge (ESD)	+/-15 kVDC (air); +/- 8 kVDC (contact)
Drop to Concrete	4 feet (1.2 meters)
Sealing	IP54 (dust category 2)
Dimensions	1.3 in. H x 3.1 in. W x 5.7 in. L (33 mm H x 80 mm W x 146 mm L)
Weight (including battery)	PPT 8800 with battery: 10.1 oz (286 g) PPT 8846 with battery: 10.8 oz (306 g)
Display	Transflective color TFT-LCD, 65K colors, 240 (W) x 320 (L) (QVGA size)
Touch Panel	Glass analog resistive touch
Main Battery Standard:	Standard: Rechargeable Lithium-Ion 1700 mAh minimum (3.7V) Optional: Larger capacity rechargeable Lithium-Ion 3400 mAh minimum (3.7V)

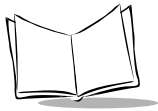


Table A-1. Technical Specifications (Continued)

Backup Battery	Ni-MH battery (rechargeable), 15mAh (2.4V) 2 cells
CPU	Intel® XScale™
Operating Platform	Microsoft® Embedded Windows® CE 4.2 (CE .NET)
Memory	32MB RAM/ 32MB ROM
Interface	RS-232, max. 115.2 kbps min. 1200bps
CF Card Slot	Type II (not user accessible) Options: 128 MB CF memory 802.11b radio
Keypad Options	Standard 6-key and 15-key versions with power button.
1D Decode Capability	UPC/EAN/JAN, Code 39, Code 93, Code 128, Interleaved 2 of 5, Discrete 2 of 5, Codabar (NW-7), UCC/EAN-128

COM Port Definitions

Table A-2. PPT 8800 COM Port Definitions

COM Port	Definition
COM1	Serial/Cradle
COM2	Available
COM3	IRComm
COM4	Raw IrDA
COM5	Available
COM6	Scanner
COM7	VCOM Ext Power
COM8	Available
COM9	Available



Pin-Outs

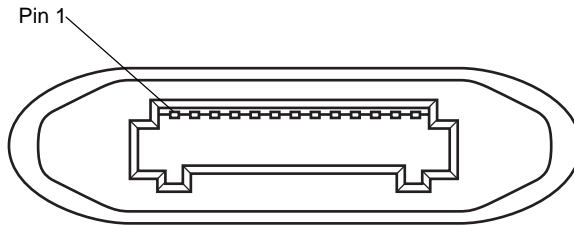
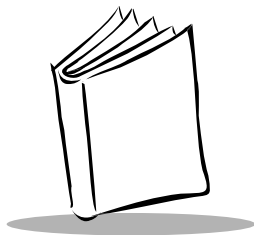


Figure A-1. ActiveSync Port (COM1)

Table A-3. PPT 8800 ActiveSync Port (COM1) Pin-Outs

Pin	Description
1	ext ± 5 volts
2	DSR
3	RXD
4	RTS
5	TXD
6	CTS
7	DCD
8	RI
9	DTR
10	RS232_gnd
11	Power_GND
12	9 Volts_In
13	NC
14	NC



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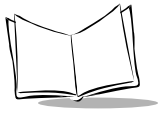
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