WORKABOUT PRO M/C
Hand-Held Computer

User Manual

August 6, 2004 **Part No. 8000024.B**

ISO 9001 Certified
Quality Management System

PSION TEKLOGIX

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Revised 8/12/2002

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Application of Council Directive(s):	EMC Directive: 89/336/EEC Low Voltage Directive: 73/23/EEC
Conformity Declared to Standards:	EN 55022: 1998 Class B; EN 61000-3-2; EN 61000-3-3 EN 55024:1998; EN 61000-4-2; ±4kV CD; ±8kV AD EN 61000-4-3; 3V/m, 80-1000 MHz EN 61000-4-4; ±1kV Power lines EN 61000-4-5; ±1kV Differential mode EN 61000-4-6; 3VRMS, 150kHz-80MHz EN 61000-4-11; AC Mains Ports EN 60950: 2000 IEC 60825-1:1993+A1:1997+A2:2001
Manufacturer:	ASKEY COMPUTER CORP. 10F, NO. 119, ChienKang Rd., Chung-Ho, Taipei, Taiwan, R.O.C.
Year of Manufacture:	2004
Manufacturer's Address in the European Community:	PSION TEKLOGIX S.A. La Duranne; 135 Rue Rene Descartes; BP 421000 13591 Aix-En-Provence Cedex 3; France
Type of Equipment:	Information Technology Equipment
Equipment Class:	Commercial and Light Industrial

I the undersigned hereby declare that the equipment specified above conforms to the above directives and standards.

Manufacturer:	**Legal Representative in Europe:**
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Signature	Signature
John Chiou	Dominique Binckly
Position	Position
Product Certification Manager	Vice President International Sales
Place	Place
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Applicant's Name & Address:	ASKEY COMPUTER CORP. 10F, NO. 119, ChienKang Rd., Chung-Ho, Taipei, Taiwan, R.O.C. Contact Person: Piyang Chiang Telephone No.: (510) 440-8694 47849 FREMONT BLVD. FREMONT, CA, 94538, USA
US Representative's Name & Address:	PSION TEKLOGIX 1810 Airport Exchange Blvd., Suite 500 Erlanger, KY, 41018, USA Contact Person: Kyle Day Telephone No.: (859) 372-4329
Equipment Type/Environment:	Computing Devices
Trade Name / Model No.:	WORKABOUT PRO, Model 7525
Year of Manufacture:	2004

Standard(s) to which Conformity is Declared:

The WORKABOUT PRO, model 7525, supplied by Askey Computer Corp., has been tested and found to comply **with FCC PART 15, SUBPART B - UNINTENTIONAL RADIATORS, CLASS B COMPUTING DEVICES FOR HOME & OFFICE USE.**

I, the undersigned, hereby declare that the equipment as tested is representative within manufacturing tolerance to units.

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Piyang Chiang Full Name	Kyle Day Full Name
General Manager Position	V.P. Channel Sales Position
Askey International Corp Place	Erlanger, KY 41018, USA Place
Feb. 4, 2004 Date	Feb. 4, 2004 Date

This equipment complies with Class B Part 15 of the FCC rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Psion Teklogix, the party responsible for compliance, may void the user's authority to operate the equipment.

1. FCC Information to Users

For Class B Unintentional Radiators:

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

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

2. Warning to Users

Warning: **Changes or modifications not expressly approved by Psion Teklogix Inc. could void the user's authority to operate the equipment.**

This product complies with CDRH 21 CFR 1040 Class II and IEC 60825-1:1993+A1:1997+A2:2001 laser product.

Laser Warnings

For your own safety, it is critical that you comply with the following warnings:

Caution

The laser aperture is located in the front of termnial. Do not look into the laser beam or point the beam at people or animals.

Caution

Using controls or adjustments, or performing procedures other than those specified herein may result in hazardous radiation exposure.

Caution

The use of optical instruments with this product will increase eye hazard.

This product contains a laser scanner that emits less than 1.2 mW maximum radiant power at a wavelength of 650nm to 680nm. This product complies with CDRH 21 CFR 1040 Class II and IEC 60825-1:1993+A1:1997+A2:2001 Class 2 laser product.

Do Not Operate In An Explosive Atmosphere

Operating Psion Teklogix equipment where explosive gas is present may result in an explosion.

Do Not Remove Covers Or Open Enclosures

To avoid injury, the equipment covers and enclosures should only be removed by qualified service personnel. Do not operate the equipment without the covers and enclosures properly installed.

Before removing the cover and enclosures, remove the battery pack at first

CAUTION!

Danger of explosion if a battery is incorrectly handled, charged, disposed of or replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the instructions described in “Lithium Ion Battery Safety Precautions” on page 140. Carefully review all battery safety issues.

VORSICHT!

Explosiongefahr bei unsachgemäßem Austausch der Batterie Ersatz nur durch denselben oder einen vom Hersteller empfohlenen gleichwertigen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

1 INTRODUCTION

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1.1 About This Manual

This manual describes how to configure, operate and maintain the WORKABOUT PRO hand-held computer.

Chapter 1: Introduction
provides a basic overview of the WORKABOUT PRO hand-held.

Chapter 2: Basic Checkout
describes the steps required to get the unit ready for operation.

Chapter 3: Getting To Know The WORKABOUT PRO
describes the features and outlines how to charge and maintain the battery. This chapter also provides indicators, installing a SD/MMC card and general maintenance.

Chapter 4: Working With Windows CE .NET
describes the Microsoft® Windows CE .NET desktop and how to use it. This chapter also outlines the basics of moving around a Windows CE .NET window, selecting and opening icons, files, folders and working with a dialogue box.

Chapter 5: Configuration
provides a description of the Windows CE .NET Control Panel and how to use it to configure the WORKABOUT PRO, along with the scanners attached to the hand-held, and so on.

Chapter 6: Connecting To A LAN With 802.11b
describes how to insert and configure an 802.11b radio.

Chapter 7: Expansion Modules
provides instructions about installing expansion modules – the PCMCIA module, the GSM/GPRS module and the scanner module.

Chapter 8: Peripheral Devices & Accessories
describes the peripherals and accessories available for your hand-held.

Chapter 9: Specifications
details radio, hand-held computer, scanner and battery specifications.

Appendix A: Support Services And Worldwide Offices
provides the helpdesk phone number at the Mississauga, Ontario, Canada office and details the support services available. This appendix also lists the world-wide office addresses and phone numbers.

Appendix B: Port Pinouts
includes port pinouts.

Appendix C: USB Setup Application
details how to use the USB Setup application.

1.2 Text Conventions

Note: *Notes highlight additional helpful information.*

Important: ***These statements provide particularly important instructions or additional information that is critical to the operation of the equipment.***

Warning: ***These statements provide critical information that may prevent physical injury, equipment damage or data loss.***

1.3 About The WORKABOUT PRO Hand-Held Computer

The WORKABOUT PRO is a ruggedized hand-held personal computer, running the Microsoft® Windows CE .NET operating system. It is intended for use in commercial and light industrial applications with a focus on real time wireless data transactions. This hand-held is optimized for mobile computing applications and third party expansion. It is available with a monochrome or colour touchscreen.

1.3.1 Features

- Rugged design:
  - sealed from water and dust to IP54 (light rain) rating.
  - withstands multiple drops of up to 1.2m (4 ft.) drop to concrete.
- WORKABOUT PRO Model Variants
  - WORKABOUT PRO M:
    - Monochrome touchscreen display
    - 32 MB Flash
    - 64 MB RAM
  - WORKABOUT PRO C:
    - 32 MB Flash
    - 128 MB RAM

  - Integrated Bluetooth

- Processor:
  - 400 MHz Intel Xscale PXA255
- Operating System:
  - Microsoft Windows CE .NET 4.2
- Programming Environment:
  - HTML, XML
  - Psion Teklogix Mobile Devices SDK
  - HDK - Hardware Development Kit for third-party developed expansion modules.
  - Compact Framework
  - java
  - Standard protocol APIs
    Windows sockets (Windows CE .NET)
  - Psion Teklogix Mobile SDK
- Wireless Communications:
  - Optional expansion modules for:
  - 802.11b (via expansion interface)
    GSM/GPRS (via expansion interface)
    CDMA/lxRTT (via expansion interface) *(future project)*
  - Internet Bluetooth class II, version 1.1 standard on WORKABOUT PRO C
    Note: WAN, 802.11b and Bluetooth are available simultaneously on WORKABOUT PRO C units.
- Application Software:
  - Internet Explorer 6.0 for CE
  - Open TekTerm (optional)
  - ANSI, TESS terminal emulations IBM 3270, IBM 5250, HP 2392 (optional)

- User Interface:
  - Monochrome Touchscreen Display
    - 3.5 in. (8.9 cm) diagonal, 1/4 VGA 240 x 320 transflective portrait mode LCD
      Backlight on/off control, adjustable contrast
      Sunlight readable for outdoor use
      High reliability EL backlight
  - Colour Touchscreen Display
    - 3.5 in. (8.9 cm) diagonal 1/4 VGA, 240 x 320 transflective portrait mode TFT
      16-bit colour
      Adjustable backlight
      Sunlight readable for outdoor use
      High reliability LED backlight
  - Touchscreen
    - Passive stylus or finger operation
      Signature capture
      Stylus held on main unit
  - Keyboards
    - Alphanumeric
      Ergonomic ambidextrous one-hand operation
      Backlit, high durability hard-capped keys
  - Indicators and Controls
    - Internal speaker with volume control
      LED indicating battery charge status
- Bar Code Applications:
  - Optional 2D Imager expansion module*
  - Optional 1D SE 1223HP laser scanner expansion module*
  - Optional field-upgradeable/replaceable pistol grip*

  * Note: All are field upgradeable
- Expansion Slots:
  - One SD/MMC memory card slot – user accessible

  - 100 Pin High-Speed Expansion connector, accessible through end-cap or back cover
    Supports serial, USB, PCMCIA
  - Type II Compact Flash slot accessible through end-cap
- Other Expansion Modules:
  - Type II PCMCIA slot – field upgradeable
  - Third Party accessories
- External Ports:
  - USB Host port on base of tethered USB devices (printers, etc.)
  - Low Insertion Force Docking Station Port with:
    USB device port
    USB Host port
    Power
- Power Management:
  - Lithium Ion 3.7V Standard Battery
  - Long life Lithium Ion 3.7V High-Capacity Battery
  - Quick swap pack
  - Advanced Smart Battery with gas gauge
  - 3 power source options:
    Battery
    Wall adaptor
    Cigarette light adaptor
  - Built-in charger
  - Also accepts standard consumer available AA Alkaline batteries
  - Rechargeable, user replaceable coin-cell backup battery
- Environmental (Standard):
  - Operating temperature: 14˚ F to 122˚ F (-10˚ C to 50˚ C)
  - Storage temperature: -13˚ F to 140˚ F (-25˚ C to 60˚ C)
  - Humidity: 5-95% RH non-condensing
  - Rain/Dust: IEC 529, classification IP54
  - Shock: Multiple 4 ft. (1.2m) drops to polished concrete
- Power Accessories
  - AC Wall adaptor (charge and operate hand-held)

  - Single battery charger
  - Quad battery charger
  - Charger/Docking Station (charges hand-held and spare battery)
  - Vehicle cradle with optional charge capability
  - Automotive adaptor
- Communication Accessories:
  - Quad Dock (4-site) with 10/100BaseT Ethernet and charge functions
  - Desktop Charger/Docking Station supports USB host and device ports and optional 10/100Base T Ethernet module.
  - Powered/non-powered cradle for vehicle applications
  - Port Replicator for vehicle cradles (field installable option) includes 3 RS232 ports plus USB device port.
- Carrying Accessories:
  - handstrap, pistol grip w/ trigger, shoulder strap.
  - holster, belt loop, protective vinyl carrying case with belt clip.

1.3.2 The WORKABOUT PRO Hand-Held Computer

Figure 1.1 WORKABOUT PRO

Figure 1.2 Tether Port, Low Insertion Force (LIF) Port And Audio Jack

1.3.3 Regulatory Labels

Warning: ***Using controls or adjustments or performing procedures other than those specified herein may result in hazardous radiation exposure.***

Figure 1.3 Scanner Module–Laser Warning Label

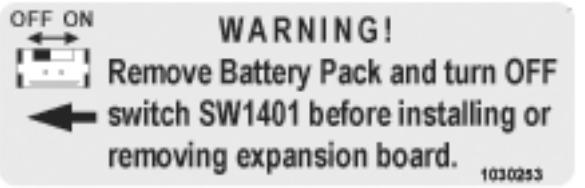

Figure 1.4 End- Cap–Expansion Module Warning

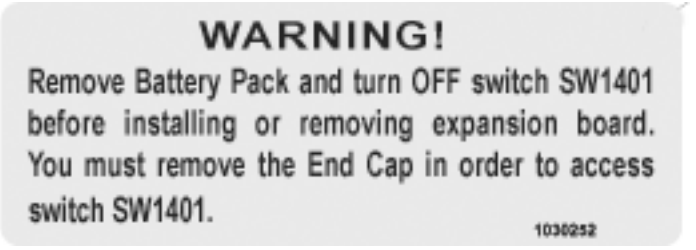

Figure 1.5 Back Plate–Expansion Module Warning Label

Figure 1.6 Manufacturer Label – WORKABOUT PRO C Unit

Figure 1.7 Manufacturer Label – WORKABOUT PRO M Unit

Figure 1.8 FCC Compliance Label

Figure 1.9 Standard Capacity Battery Label

Figure 1.10 High-Capacity Battery Label

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2.1 Preparing The WORKABOUT PRO For Operation

2.1.1 The Main Battery

The WORKABOUT PRO can be powered with one of the following battery packs:

- Standard Battery
- High-Capacity Battery, *or*
- 3 AA alkaline batteries.

2.1.2 Charging The Battery

Important: ***It is critical that you review the battery safety guidelines in "Lithium Ion Battery Safety Precautions" on page 140 before charging the battery.***

Battery packs shipped from the factory are not charged. They must be fully charged prior to use. Full capacity may not be reached until at least 5 full charge/discharge cycles have been performed.

Batteries can be charged using a variety of chargers and docking stations along with a Workabout internal charger. When using the internal charger, a suitable power source is required. All chargers and docking stations are described in *Chapter 8: Peripheral Devices & Accessories* beginning on page 150.

2.1.3 The Internal Battery

To preserve data stored in your WORKABOUT PRO while you swap the main battery, the unit is equipped with an internal battery – a standard Lithium Alloy Manganese Dioxide coin battery – a Maxell ML2032. This battery is easily accessible by removing the back cover of the unit.

2.2 Turning The WORKABOUT PRO On and Off

2.2.1 Installing The Battery And Switching The Unit On

- Turn the fasteners at the base of the battery cover counter-clockwise to unlock the cover and remove it. The top of the stylus is shaped to help you loosen the fasteners.
- Slide the *charged* battery into the unit. Replace the battery cover, and turn the fasteners at the base of the battery cover clockwise to lock the battery in place.

Note: *If you are using a docking station or an external power supply, you can insert an uncharged battery, dock the unit and switch it on.*

To switch on the WORKABOUT PRO:

- Press and hold down the <ENTER/ON> key for at least one second.
- When the LED flashes green, release the <ENTER/ON> button.

A splash screen displaying the Psion Teklogix logo and the Microsoft® Windows CE .NET logo appears followed by the startup desktop.

Note: *If the unit was already in use – the unit may be off (suspend state) – pressing <ENTER/ON> 'wakes' the unit from this state. The screen in which you were working prior to the suspend state is displayed.*

2.2.2 Switching The Unit Off (Suspend)

- Press the <BLUE> key, and then press <ENTER/ON> to switch off the WORKABOUT PRO.

2.3 Connecting The WORKABOUT PRO To A PC

Note: *Refer to "Linking A WORKABOUT PRO To A PC" on page 146 for more details about the desktop docking station and how to link to a PC.*

The WORKABOUT PRO can be connected to a PC using the desktop docking station.

- Insert the unit in the desktop docking station,
- Use the Client USB connector to complete the communication link between the hand-held and the PC.

2.3.1 Using Microsoft® ActiveSync® To Work With Files

ActiveSync® – Microsoft PC connectivity software – can be used to connect the WORKABOUT PRO to PCs running this software. By connecting the hand-held to a PC through your desktop docking station and running ActiveSync on the PC, you can view WORKABOUT PRO files, drag and drop files between the WORKABOUT PRO and the PC, back up WORKABOUT PRO files to the PC, and so on.

Note: *You'll need the USB setup utility to configure the .ini file. For information about this USB application, refer to Appendix C: USB Setup Application.*

To install ActiveSync, follow the step-by-step instructions provided with the program's setup wizard. Refer to the following website for details:
http://www.microsoft.com/windowsmobile/resources/downloads/pocketpc/activesync35.mspx

2.4 Calibrating The Touchscreen

Refer to "Calibrating The Touchscreen" on page 30 for details.

2.5 Resetting The WORKABOUT PRO Hand-Held

Important: ***Because Psion Teklogix cannot guarantee what has been saved (registry) after a reset, this should be considered as a last resort.***

To reset the unit:

- Press and hold down the <BLUE> key and the <ENTER/ON> key simultaneously for a minimum of six seconds.

A reset results in a complete reboot of the unit. All RAM memory contents are lost. The contents of the flash memory and memory card may be preserved, but Psion Teklogix cannot guarantee this.

Note: *You do not need to reset your WORKABOUT PRO after configuring the radio.*

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3.1 Features Of The WORKABOUT PRO

Figure 3.1 Front Of WORKABOUT PRO M Or C

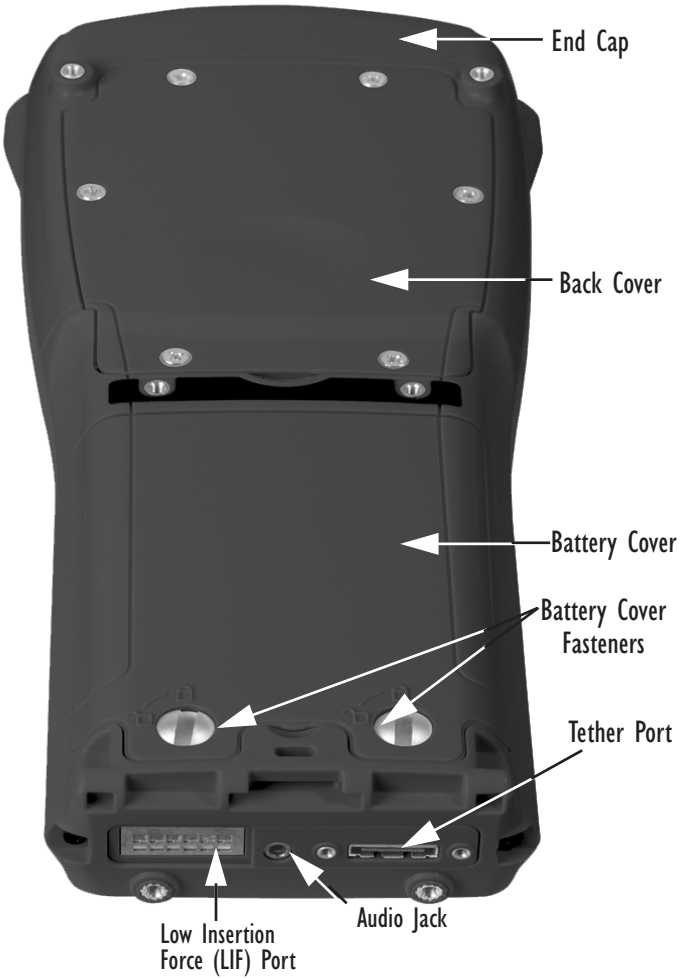


Figure 3.2 Back Of WORKABOUT PRO

3.2 The Batteries

The WORKABOUT PRO hand-held can operate with a Standard Lithium Ion battery pack, a High Capacity Lithium Ion battery pack or three AA alkaline batteries. If you are using a Lithium Ion battery pack, preparing the hand-held unit for operation requires that the battery pack be charged before it is installed in the unit.

To maintain data during a battery swap, the WORKABOUT PRO is also equipped with an easily accessible coin backup battery.

3.2.1 Battery Safety

Important: ***Before attempting to install, use or charge the battery pack, it is critical that you review and follow the important safety guidelines in the section entitled "Lithium Ion Battery Safety Precautions" beginning on page 140.***

3.2.2 Removing And Installing The Battery Pack

Removing The Battery Cover

- Turn the fasteners at the base of the battery cover counter-clockwise to unlock the cover. The top of the stylus has a screwdriver shaped end to help you loosen the fasteners.
- Lift and remove the cover.

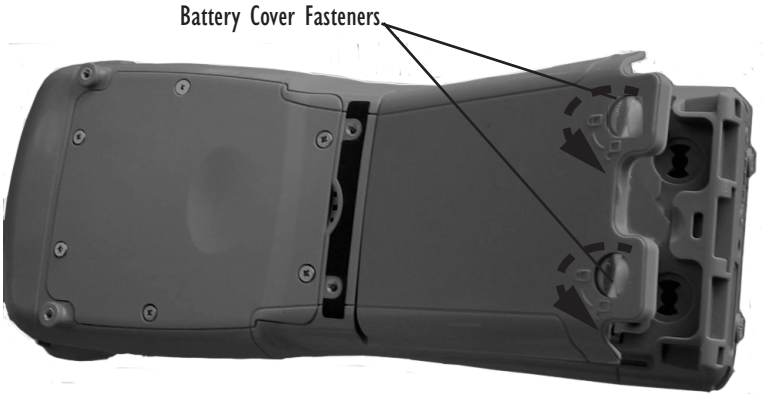


Figure 3.3 The Battery Cover

Installing The Battery

- Insert the ***charged*** battery in the unit.
- Replace the battery cover, and turn the fasteners at the base of the battery cover **clockwise** to lock the battery in place.

Note: *If you are using a docking station or other external power source, you can insert an uncharged battery, dock the unit and switch it on.*

3.2.3 Charging The Battery

Important: ***FOR DETAILED INFORMATION about chargers and docking stations, refer to*** *Chapter 8: Peripheral Devices & Accessories* ***beginning on page 131.***

For battery safety, refer to "Lithium Ion Battery Safety Precautions" beginning on page 140.

Lithium Ion battery packs must be charged before use. These batteries can be charged with a variety of chargers and docking stations. These include:

- Desktop Docking Station (Model #WA4002) – operates as both a charger and a docking station. Operating as a charger, both the battery installed in the hand-held and a spare battery can be charged simultaneously.
- Quad Docking Station (Model #WA4004) – can charge the battery of up to four WORKABOUT PROs inserted in the docking station.
- Single Battery Charger (Model #WA3001) – charges a single battery.
- Quad Battery Charger (Model #WA3004) – charges up to four spare Standard or High-Capacity WORKABOUT PRO battery packs.

It can take up to 5 hours to charge a battery. The WORKABOUT PRO's intelligent charging system protects the battery from over-charging by terminating the charge process when the battery is at maximum capacity.

Note: *Refer to "Monitoring The Battery And Maximizing Run Time" on page 35 for additional information about the battery.*

Important: ***To avoid damaging the battery, chargers will not begin the charge process until the battery temperature is between 0˚ C to 45 ˚C (32˚ F to 113˚ F).***

3.3 Switching The Hand-Held On And Off

Switching On The WORKABOUT PRO

- Press and hold down the <ENTER/ON> key for at least one second.
- When the LED flashes green, release the <ENTER/ON> button.

A splash screen displaying the Psion Teklogix logo and the Windows CE .NET logo appears followed by the startup desktop.

Note: *If the WORKABOUT PRO is in suspend state, pressing <ENTER/ON> key 'wakes' the unit from this state. The screen in which you were working before the computer entered suspend state is displayed.*

Switching Off The WORKABOUT PRO (Suspend)

Important: ***Keep in mind that turning off the WORKABOUT PRO does <u>not</u> result in a complete reboot; rather, the unit enters a power-saving, "suspend" state. When the unit is turned on from suspend state, operation resumes within a few seconds.***

To switch off the WORKABOUT PRO:

- Press the <BLUE> key, and then press the <ENTER/ON> key.

3.4 The Keyboard

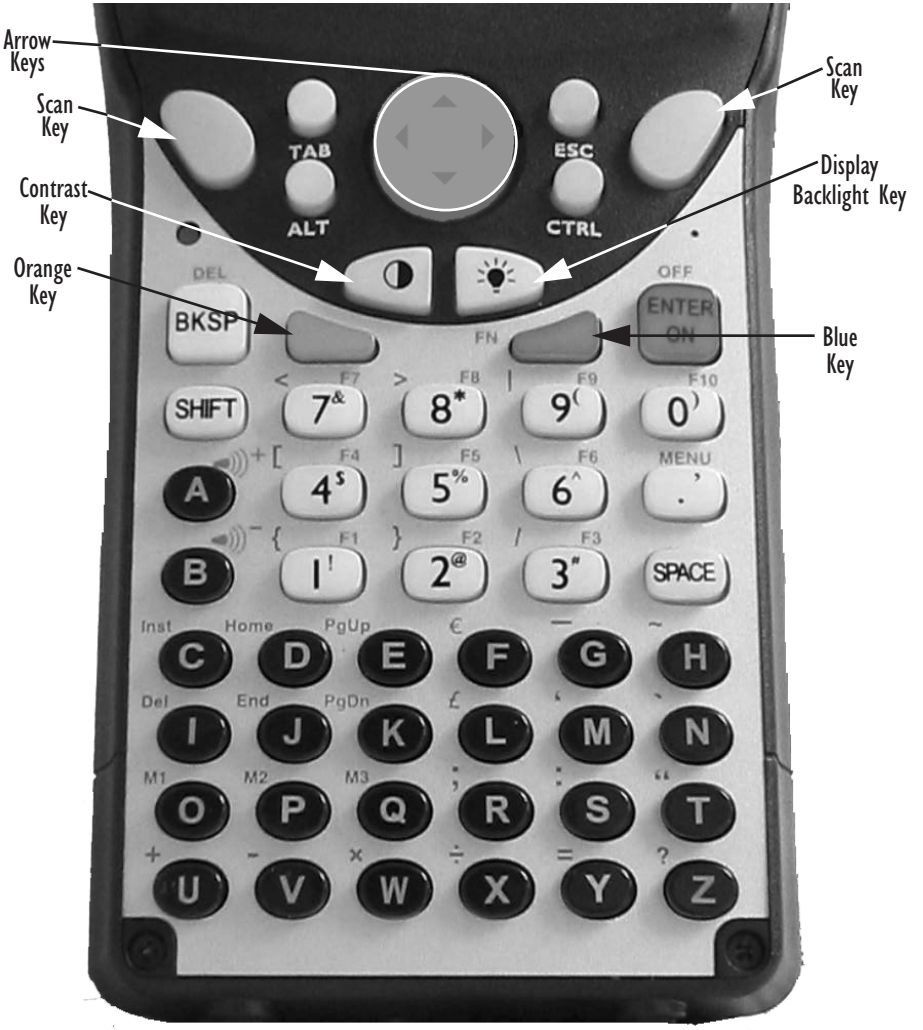


Figure 3.4 The Keys

The WORKABOUT PRO is equipped with a 55-key alphanumeric keyboard. Along with the standard keyboard keys, the <ORANGE> and <BLUE> modifier keys provide access to additional keys and system functions. These functions are colour coded in *orange* and *blue* print above the keyboard keys.

Note: *Almost all keys can be reprogrammed to suit your requirements.*

3.4.1 Modifier Keys

The <SHIFT>, <CTRL>, <ALT>, <ORANGE> and <BLUE> keys are *modifier* keys. Pressing a modifier key changes the function of the next key pressed. For example, a square bracket is printed in *orange* print above the <4> key. Pressing the <ORANGE> key followed by the <4> key displays a square bracket rather than the number 4.

The <SHIFT>, <CTRL> and <ALT> keys operate like a desktop keyboard except that they are not chorded (two keys held down simultaneously). The modifier key must be pressed first followed by the key whose function you want modified.

3.4.1.1 Activating Modifier Keys

When a modifier key is pressed once, it is displayed in lowercase letters in the taskbar at the bottom of the screen. For example, if the <CTRL> key is pressed once, ctrl key is displayed in the taskbar. Once the next key is pressed, the modifier key becomes inactive and disappears from the taskbar.

3.4.1.2 Locking Modifier Keys

When a modifier key is pressed twice, it is 'locked' on. A 'locked' modifier key is displayed in uppercase letters in the taskbar. For example, pressing the <BLUE> key twice locks it on – it is displayed as BLUE KEY in the taskbar at the bottom of the computer screen.

The locked modifier key will remain active until it is pressed a third time to unlock or turn it off. Once a modifier key is unlocked (pressed a third time), the uppercase representation in the taskbar is no longer displayed.

Note: *The locking function of the <ORANGE> and <BLUE> keys can be disabled so that pressing either of these keys* ***once*** *will lock the keys 'on'.* *Refer to "Keyboard One Shot Modes" on page 69 for details.*

3.4.2 The Keys

The <SHIFT> Key

The <SHIFT> key is used to display uppercase alpha characters and provide access to the symbols above the numeric keys. Pressing this key twice locks it 'on' so that when you press an alpha key, an upper case character is displayed. When you press a numeric key, the associated symbol on the numeric key is displayed

The Arrow Keys

The Arrow keys are located on the grey circular key at the top of the keyboard, directly below the display. The arrow keys move the cursor around the screen – up, down, left and right. The cursor is the flashing box or underline character that indicates where the next character you type will appear.

The <BKSP/DEL> Key

The <BKSP> key (sometimes referred to as destructive backspace) moves the cursor one character to the left, erasing the incorrectly entered key stroke.

The <DEL> key (<BLUE> <BKSP>) erases the character at the cursor position.

The <CTRL> And <ALT> Keys

The <CTRL> and <ALT> keys modify the function of the next key pressed and are application dependent.

The <TAB> Key

Typically, the <TAB> key moves the cursor to the next field to the right or downward.

The <ESC> Key

Generally, this key is used as a keyboard shortcut to close the current menu, dialogue box or activity and return to the previous one.

The <SPACE> Key

Pressing this key inserts a blank space between characters. In a Windows dialogue box, pressing the <SPACE> key enables (√) or disables a checkbox.

The <SCAN> Keys

Pressing either of the <SCAN> keys – the two yellow keys situated in upper-left and upper-right corner of the keyboard – activates the scanner beam. For units that ***do not have*** internal scanners, these keys are inoperable.

The Function Keys – <F1> to <F10>

Function keys <F1> to <F10> perform special, custom-defined functions. These keys are accessed by pressing <BLUE> followed by numeric keys <1> to <10>. They can be used with the Windows CE .NET operating system or another application.

The Macro Keys – <M1> to <M3>

Macro keys <M1> to <M3> contain up to 20 programmable characters ("positions") and executable keys. These keys are accessed by pressing <ORANGE> followed by alpha keys <O>, <P> or <Q>. When pressed, the macro key executes a custom-defined string of characters, including executable keys.

3.4.3 The Keypad Backlight

The intensity of the keypad backlight and the conditions under which this backlight is activated can be configured using the Keyboard icon in the Control Panel. The behaviour of the keypad backlight is tailored in the Keyboard Properties dialogue box. Refer to "Keyboard Backlight" on page 68 for details about this option.

Note: *Keep in mind that this option may be restricted to supervisory use only.*

3.5 The Display

Depending on the type of display – colour or monochrome – you can adjust the backlight behaviour or the contrast of the display to improve character visibility.

Note: *Display backlight and contrast adjustments may be restricted to supervisory use only.*

3.5.1 Colour Display

Adjusting The Backlight

Note: *For units equipped with monochrome screens, the Backlight key <☼> turns the backlight on or off. Backlight intensity cannot be adjusted.*

On colour screens, the display backlight can be adjusted using the keyboard.

- Press the Backlight key <☼> to cycle from the lightest to darkest settings, and then back to lightest. Press <ORANGE> <☼> to cycle backward from darker to lighter.

To set the *range* of the backlight intensity and the duration of time that the backlight will remain on, you'll need to choose the Display icon in the Control Panel. **Refer to "Display Backlight" on page 65** for details about the Display Properties Backlight tab.

3.5.2 Monochrome Display

Adjusting The Contrast

Note: *Contrast adjustment is only available on hand-helds equipped with monochrome screens. Contrast has no effect on units with colour screens.*

The display contrast can be adjusted from the keyboard using the Contrast key <◑> just below the arrow keys.

- Press this key until you are satisfied with the contrast adjustment. Press <ORANGE> <◑> to shift contrast backward.

To set the maximum *range* of the contrast on a monochrome screen, you'll need to choose the Display icon in the Control Panel. **Refer to "Display Contrast" on page 64 for details about the** Display Properties Contrast **tab.**

Keep in mind that this option may be restricted to supervisory use only

3.5.3 Calibrating The Touchscreen

If your touchscreen has never been calibrated or if you find that the stylus pointer is not accurate when you tap on an item, use the Stylus Properties dialogue box in the Control Panel to recalibrate the screen.

- In the Control Panel, choose the Stylus icon to display the Stylus Properties window.

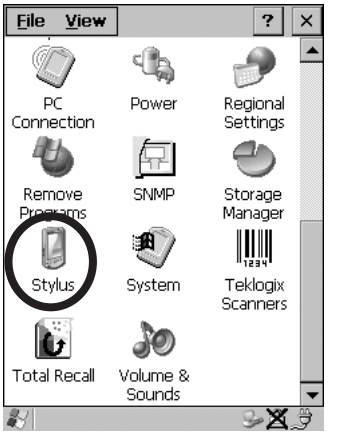


Figure 3.5 Stylus Icon

- Select the Calibration tab, and then tap on the 'Recalibrate' button.

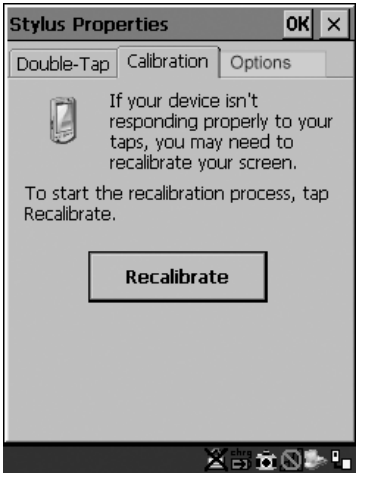


Figure 3.6 Calibration Screen

- Follow the directions on the calibration screen to calibrate the screen.

Note: *The* Stylus Properties *dialogue box provides two additional tabs:* Double-tap *and* Options. *The* Double-Tap *tab allows you to adjust the sensitivity of the double-tap and the physical distance between taps. The* Options *tab allows you to disable the touchscreen.*

3.6 Indicators

The WORKABOUT PRO uses an LED (Light Emitting Diode), onscreen messages and audio tones to indicate the various conditions of the hand-held, the batteries, the scans and so on.

3.6.1 The LED

The WORKABOUT PRO is equipped with a single, dual-coloured LED. When the <ENTER/ON> key is pressed, the LED flashes green to indicate that the unit has been powered up.

If the unit is attached to an external power supply, the hand-held LED reflects the battery charge status.

LED Behaviour	Charge Status
Off	No battery detected in the charge well.
Solid green	Battery is fully charged.
Fast flashing green	Battery is charged to 75% capacity.
Slow flashing green	Charge in progress.
Solid red	Battery is outside ambient temperature range of 0˚ C to 45 ˚C (32˚ F to 113˚ F).
Flashing red	Charge alarm indicating a charging circuit problem. Refer to “Troubleshooting” on page 151 for details.
Flashing red then green in a 3 second cycle	Power up test sequence.

Table 3.1 WORKABOUT PRO LED BEHAVIOUR

Note: *The application installed on your WORKABOUT may alter the behaviour of the LED on your unit. Refer to your application manual for details.*

3.6.2 Onscreen Indicators

The taskbar at the bottom of the screen displays a variety of system status indicators.

Figure 3.7 Taskbar

Taskbar icons change dynamically, and only those icons that are applicable are displayed. For example, if a Bluetooth radio is not installed in your hand-held, the Bluetooth radio icon is not displayed in the taskbar.

Note: *To access these icons and display the associated menu and dialogue boxes, refer to "Using The Taskbar" on page 46.*

Windows® Start Button

This icon provides access to the Start Menu. Tapping on the Windows® Start button displays the menu.

Modifier Key Indicators

<SHIFT>, <CTRL>, <ALT>, <BLUE> and <ORANGE> are modifier keys that have associated onscreen indicators to show when a key is active or locked. If a modifier key is pressed once to activate it, the key is displayed in the taskbar in *lowercase* characters – for example, pressing the <BLUE> key once displays 'blue key' in the taskbar. If a modifier key is pressed twice, it is 'locked on' and the onscreen indicator is displayed in *uppercase* letters in the taskbar – for example, pressing <BLUE> twice displays 'BLUE KEY' in the taskbar.

Battery Gauge

The battery shaped icon displayed in the taskbar provides a visual indication of the remaining battery power. The icon acts as a meter that is either full, at three-quarter level, half, quarter level or empty.

When the battery level is low – approximately 15 minutes from empty – a warning window pops up. When the battery power is completely depleted, a final warning window indicates that the WORKABOUT PRO will be powered down.

If the unit is being powered externally, an external power icon is displayed in the taskbar.

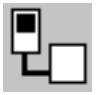
Battery Charge

The battery charge icon is displayed in the taskbar when the battery is being charged.

LIF and USB Devices

When a device such as a docking station or a charger is connected to the USB (tether) port or the LIF (Low Insertion Force) port and is activated, an associated icon appears in the taskbar. A message also appears on the screen recognizing that a new device has been connected through either the USB or the LIF port.

New device connected: LIF Port



New device connected: USB Port

Bluetooth Radio

If a Bluetooth radio is installed in your unit, this icon is displayed in the taskbar.

Security Level

Security levels can be set to limit user access to the settings. In addition, applications can be restricted to prevent inadvertent changes.

3.6.3 Audio Indicators

The audio speaker provides a variety of sounds and can be configured to emit a sound when a key is pressed, a keyboard character is rejected, scan input is accepted or rejected, an operator's entry does not match in a match field or the battery is low. The volume keys are located above the <A> and <B> keys. The *increase* volume key is labelled with a plus symbol and the *decrease* volume key is labelled with a minus symbol .

3.6.3.1 Adjusting The Speaker Volume

To adjust the speaker volume:

- Press the <BLUE> key twice to lock the key 'on' and then, press the *increase volume* key + or the *decrease volume* key − until the volume meets your requirements.
- Remember to press the <BLUE> key again to turn it 'off'.

3.7 Monitoring The Battery And Maximizing Run Time

Under normal operating conditions, fully charged Standard Batteries hold a charge for up to 8 hours. High-Capacity batteries can hold a charge for up to 12 hours.

As Lithium Ion batteries age, their capacity decreases gradually, and they are generally considered depleted after approximately 2 years of use (less than 60% of original capacity remaining). Keep in mind however that heavy usage or operating the unit at temperature extremes will shorten the battery life.

Lithium Ion batteries do not require conditioning cycles and the WORKABOUT PRO battery system (including chargers) requires no user interaction to maintain peak performance.

To maximize the run time of your batteries, consider the following:

- The display backlight is the largest drain on the battery. Try to keep its brightness as low as possible.
- The hand-held is 'event' driven – that is, when the unit is not in use, it reverts to *sleep* mode (even when it appears to be running), saving battery power. Events include a key press, touchscreen taps and scan triggers. Power consumption is reduced if you avoid unnecessary events, and allow the unit to *sleep* as much as possible.
- The battery is a 'smart battery' with built-in intelligence. The taskbar battery icon is a linear gauge used to estimate the remaining run time of the battery. It is important to note that the battery capacity icon displays quarter percentages of *nominal* capacity (the capacity of a new battery). An aged battery, even when fully charged, shows somewhat less capacity than nominal.

  Double-tapping on the battery icon displays a dialogue box that provides detailed information about the battery status and performance.

- When the hand-held is switched off, it goes into a low-power, suspend state but continues to draw a small amount of power from the battery. This should not be an issue unless the unit is left in suspend state for more than a week – in this case, the battery should be removed.

3.7.1 Storing Batteries

Long term battery storage is not recommended. If storage is necessary:

- Always try to use a 'first-in first-out' approach to minimize storage time.
- Lithium Ion batteries age much faster at elevated temperatures. Store batteries at temperatures between 0˚ C and 20˚C.
- Always charge batteries to at least 40 to 60% before storing them. Batteries can be damaged by an over-discharge phenomenon that occurs when an empty battery is stored for a long period of time such that the cell voltage drops below a lower limit.
- To minimize storage degradation, recharge stored batteries to 40 to 60% every 4 or 6 months to prevent over-discharge damage.
- A 'never used' Li-Ion battery that has been stored for 3 years may have limited or no useful life remaining once put into service. Think of batteries as perishable goods.

3.8 Uploading Data In A Docking Station

Important: ***Review the documentation provided with the user application installed in your WORKABOUT PRO before performing data uploads.***

The *desktop docking station* and *quad docking station* allows the WORKABOUT PRO to link to an Ethernet network. They are typically used to upload transaction data to a server computer when a radio link in not available.

Note: *Refer to "Chargers And Docking Stations" on page 141 for more details.*

The desktop docking station can complete batch uploads to a Client USB connected PC or server. An optional10/100baseT Ethernet module is also available.

Unlike the desktop docking station, the quad docking station supports only TCP/IP connections to a PC or server through a 10/100baseT Ethernet connection.

When a WORKABOUT PRO is properly inserted in a docking station, a dock icon is displayed in the taskbar at the bottom of the screen. The unit also detects the presence of the Ethernet network.

3.9 Bluetooth Radio

Note: *Integrated Bluetooth class II radios are standard on WORKABOUT PRO C units. Keep in mind also that Bluetooth is available simultaneously with WAN and 802.11b on a single unit.*

A WORKABOUT PRO C is equipped with an on-board Bluetooth radio. This type of radio enables short range data communication between devices. The Bluetooth also provides the capability to use a Bluetooth-enabled cellular phone as a data modem, exchanging information with other Bluetooth devices and providing network access. Keep in mind too that a Bluetooth and an 802.11b radio card can operate simultaneously in your unit. Refer to “The Bluetooth GPRS Phone” on page 84 for setup details.

3.10 The SD/MMC Card – Adding Memory

To add additional non-volatile memory to your hand-held, you can insert a Secure Digital/Multi-Media Card (SD/MMC) through the battery compartment.

3.10.1 Inserting The Card

- Remove the battery cover and the battery.

A hinged door at the top of the battery compartment protects the connectors.

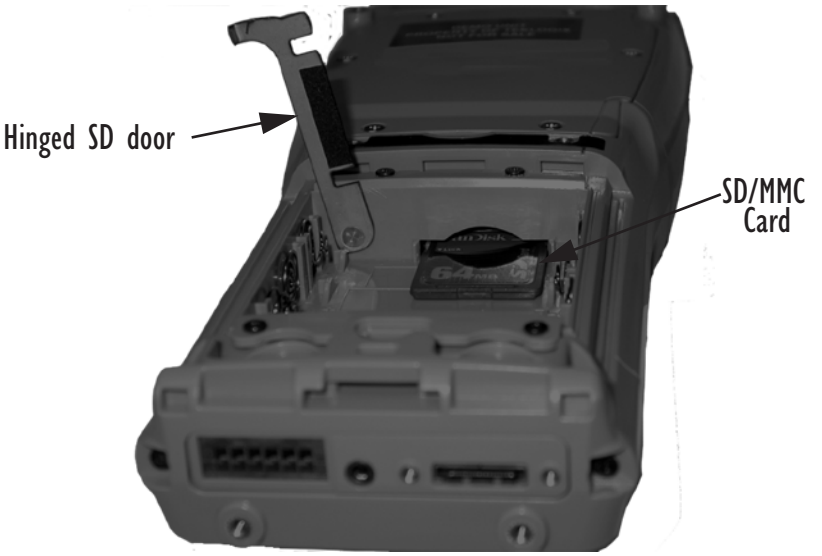


Figure 3.8 Inserting the SD.MMC Card

- Lift the hinged SD door by gently pulling upward on the metal tab.
- Orient the SD/MMC card according to the legend stamped into the battery well plastic.
- Place the card in the slot with the card contacts down, and slide it inward until it latches into place.
- Swing hinged door back into place.

To remove the card:

- Gently press it inward slightly until the detent unlatches, and the card is expelled from the slot.

3.11 General Maintenance

3.11.1 Caring For The Touchscreen

The top of the touchscreen is a thin, flexible polyester plastic sheet with a conductive coating on the inside. The polyester can be permanently damaged by harsh chemicals and is susceptible to abrasions and scratches. Using sharp objects on the touchscreen can scratch or cut the plastic, or crack the internal conductive coating.

The chemicals listed below must not come into contact with the touchscreen:

- mustard,
- sodium hydroxide,
- concentrated caustic solutions,
- benzyl alcohol, and
- concentrated miner acids.

If the touchscreen is used in harsh environments, consider applying a disposable screen protector (WA6110). These covers reduce the clarity of the display slightly but will dramatically extend the useful life of the touchscreen. When they become scratched and abraded, they are easily removed and replaced.

3.11.2 Cleaning The WORKABOUT PRO

Important: ***Do not immerse the unit in water. Dampen a soft cloth with mild detergent to wipe the unit clean.***

- Use ***only*** mild detergent or soapy water to clean the hand-held unit.
- Avoid abrasive cleaners, solvents or strong chemicals for cleaning. The plastic case is susceptible to harsh chemicals. The plastic is partially soluble in oils, mineral spirits and gasoline. The plastic slowly decomposes in strong alkaline solutions.
- To clean ink marks from the keypad and touchscreen, use isopropyl alcohol.

4 WORKING WITH WINDOWS CE .NET

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4.1 Navigating In Windows CE .NET And Applications

Graphic user interfaces like Windows CE .NET for portable devices or desktop Windows (2000, XP, etc.) utilize 'point and click' navigation. On the WORKABOUT PRO, this is accomplished using a touchscreen and stylus rather than a mouse. An equivalent keyboard shortcut is also available for every 'point and click' action.

4.1.1 Navigating Using A Touchscreen And Stylus

Note: *If the touchscreen is not registering your screen taps accurately, it may need recalibration. Refer to "Calibrating The Touchscreen" on page 30.*

A touchscreen is a ***standard*** feature on all WORKABOUT PROs. Each is equipped with a *stylus* – a pointing tool that looks like a pen – stored in a slot at the top of the unit. The stylus is used to select objects on the touchscreen.

- Tap the stylus on the appropriate icon to open a file or launch an applet.

4.1.2 Navigating Using The Keyboard

If the touchscreen on your unit is disabled, choosing icons and navigating dialogue boxes, displaying the desktop, and so on will require keyboard input.

Operation	Key or Key Combination
Switch between active applications	<ALT> <TAB>
Open task manager	<ALT> <ESC>
Move the cursor	Arrow keys
Open file, folder or icon	<ENTER>
Exit & Save	<ENTER>
Close/Exit & Do Not Save	<ESC>
Navigate Dialogue Boxes	<TAB> To move cursor up <SHIFT> <TAB> To display contents of the next 'tab' <CTRL><TAB>
Select Radio Button/Press Button	<SPACE>
Go to Start Menu	<BLUE><.>

Table 4.1 Keyboard Navigation

Keep in mind that unlike a desktop computer, the WORKABOUT PRO does not support key chording (pressing two keys at the same time). You must press one key followed by the next in sequence.

4.2 Working With Files, Folders And Programs

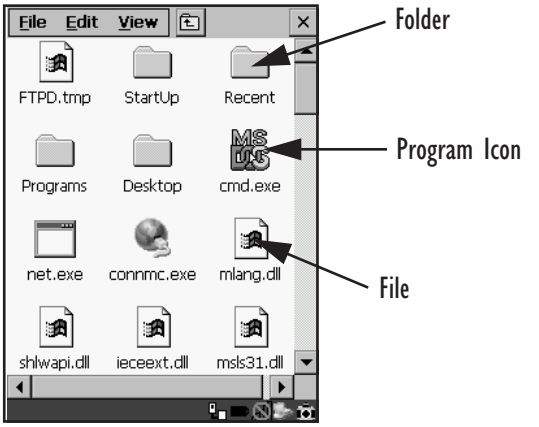

Figure 4.1 Working With Windows Icons

- Double-tap on the appropriate icon – a folder icon, a program icon or a file icon – to open or launch your selection.

4.3 The Startup Desktop

When the WORKABOUT PRO boots up, the startup desktop (shell) is displayed. Any applications stored in the Startup folder start up immediately.

Figure 4.2 The WORKABOUT PRO Startup Desktop

Note: *The startup folder is in: \Windows\StartUp and \Flash Disk\Start Up.*

- Tap on an icon to open a window or, in the case of an application icon, launch an application.

4.3.1 The Desktop Icons

The icons displayed in the startup desktop operate in much the same way as those displayed on any standard PC desktop that is running Windows®.

My Computer

Choosing this icon displays the contents of your WORKABOUT PRO. If you're not sure how to work with the files, folders and programs displayed, refer to "Working With Files, Folders And Programs" on page 44.

Recycle Bin

This option temporarily contains items that were deleted, allowing you to either permanently delete or restore the items.

Command Prompt

Command Prompt is used to access the DOS command prompt. At the prompt, you can type DOS commands such as *dir* to display all the directories in the drive.

Inbox

Inbox is used to access and view your email.

Internet Explorer

Choosing this icon launches Internet Explorer – a standard Windows CE .NET version. Keep in mind that your supervisor will need to set up access using the Internet Options and the Network and Dial-up Connections icons in the Control Panel.

Microsoft Wordpad

This application, an abbreviated version of Microsoft Word, allows you to create documents on the WORKABOUT PRO.

Remote Desktop Connection

This option allows your WORKABOUT PRO to communicate with a remote desktop PC. "Remote Desktop Connection" on page 59 provides a website address with step-by-step instructions.

4.3.2 The Taskbar

Figure 4.3 The Taskbar

The WORKABOUT PRO is equipped with a taskbar at the bottom of the screen. It displays icons through which you can view the battery capacity and identify any active modifier keys – <SHIFT>, <ALT>, <CTRL>, <ORANGE> and <BLUE>. Keys that have been locked "on" are displayed in *uppercase* letters. When a peripheral is attached to the tether or LIF port, the associated icon is displayed. In addition, the taskbar displays the application(s) currently running on your unit and the security level assigned to it.

4.3.2.1 Using The Taskbar

- Using the stylus, tap on an icon to display the associated dialogue box. For example, tap on the battery icon to display a **Power Properties** dialogue box that indicates the current battery capacity.

Note: *If your touchscreen is disabled, type <BLUE> <.> <Y> to choose* `System Tray` *from the* **Start Menu**. *Press the <LEFT> or <RIGHT> arrow keys to choose a taskbar icon and press <ENTER> to display the associated dialogue box.*

4.3.2.2 Customizing The Taskbar

To customize the taskbar so that it displays only those icons you require:

- Tap on the `Settings` option, and then tap on **Taskbar...** in the sub-menu,

The **Taskbar and Start Menu** dialogue box is displayed.

Figure 4.4 Taskbar And Start Menu Settings

- Tap the stylus on the items you want to activate or deactivate. A check mark indicates an active item.

4.4 The Start Menu

Note: *Some of the Start Menu items may be disabled based on the WORKABOUT PRO's current security settings.*

The **Start Menu** lists the operations you can access and work with. It is available from the startup desktop or from within any application.

To display the menu:

- Tap on the Windows® Start button in the left-most corner of the taskbar.

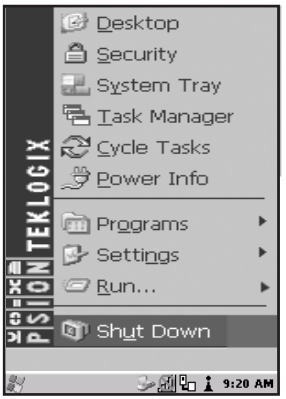

Figure 4.5 Start Menu

- Tap on the item in the menu with which you want to work.

4.4.1 The Desktop

Choosing the Desktop option from the Start Menu displays the WORKABOUT PRO desktop.

4.4.2 Security Settings

Choosing the Security option from the Start Menu displays a dialogue box in which you can define the WORKABOUT PRO access level – Teklogix, Supervisor or User.

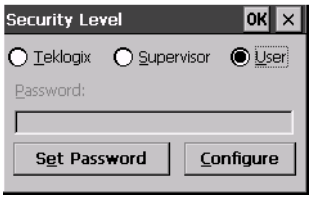

Figure 4.6 Security Levels

Security Level

These security levels define the options accessible to the operator in the Start Menu and the taskbar. When you change security levels, you'll need to enter the appropriate password in the Password textbox. The security level is represented by an icon in the shape of a lock in the taskbar.

Changing A Password

Note: *Keep in mind that this is the same password as that assigned through the* Password *control panel applet. Refer to "Control Panel Icons" on page 60.*

To assign a password:

- Choose a security level, and enter the existing password in the Password field
- Choose the Set Password button.

A dialogue box labelled Password Properties is displayed.

- Type the new password in the Password: text box
- In the Confirm Password: text box, retype the new password.

Configuring Security

Choosing the Configure button displays the Configure Security dialogue box.

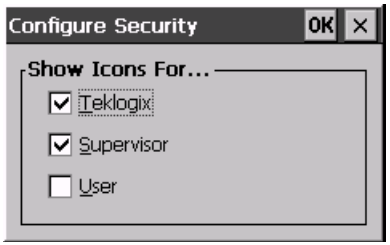

Figure 4.7 Configuring Security

This dialogue box allows you to determine which security levels will have an associated icon displayed in the taskbar. By default, a security icon is not displayed for user-level security.

4.4.3 The System Tray

Note: *This option is useful if your touchscreen has been disabled. Activating* `System Tray` *allows you to access taskbar icons using keyboard keys in place of the stylus.*

The `System Tray` option allows access to the icons in the taskbar using your keyboard. The taskbar displays indicators such as a battery capacity gauge and the security level. These indicators are attached to dialogue boxes that provide additional information.

- Choose `System Tray` from the Start Menu.

To display the dialogue box attached to an icon:

- Press the <LEFT> or <RIGHT> arrow keys to choose a taskbar icon and press <ENTER> to display the associated dialogue box.

4.4.4 The Task Manager

The Task Manager option allows you to switch to another task or to end an active task. To display the task manager window:

- Tap on the Task Manager in the Start Menu.

Figure 4.8 Task Manager

4.4.5 Cycle Tasks

When Cycle Tasks is selected (and the Task Manager is not open), you can cycle through active applications. To choose this option:

- Tap on Cycle Tasks in the Start Menu.

4.4.6 Power Info

Selecting Power Info from the Start Menu displays the Power Properties dialogue box. This dialogue box indicates the remaining charge capacity of the battery.

4.4.7 Programs

- Tap on Programs to display a sub-menu of options.

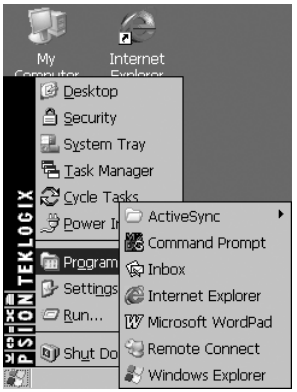

Figure 4.9 Program Sub-Menu

This sub-menu allows you to access to the following options:

ActiveSync®

This option allows you to connect to another device using ActiveSync.

Command Prompt

Command Prompt is used to access the DOS command prompt. At the prompt, you can type DOS commands such as *dir* to display all the directories in the drive.

Inbox

Inbox is used to access and view your email.

Internet Explorer

The WORKABOUT PRO is equipped with Microsoft® Internet Explorer consistent with all Windows CE .NET devices on the market. You can access the **Internet Options** icon through the **Start Menu** under Settings>Control Panel or by double-tapping on the desktop icon labelled **My Computer** and then, double-tapping on the **Control Panel** icon.

Microsoft Wordpad

This application, an abbreviated version of Microsoft Word, allows you to create documents using the WORKABOUT PRO.

Windows Explorer

Windows Explorer installed on your unit is consistent with all Windows CE .NET devices. You can access this option either from the **Start Menu** under `Programs>Windows Explorer`.

Remote Desktop Connection

Remote Desktop Connection is an application used to connect to a Windows Terminal Server so that you can run a "session" on the Server machine using the WORKABOUT PRO (Windows CE .NET device). "Remote Desktop Connection" on page 59 provides a website with details about this option.

4.4.8 Settings

Tapping on `Settings` displays a sub-menu of options, including **Control Panel**, **Network and Dial-up Connections** and **Taskbar and Start Menu** settings.

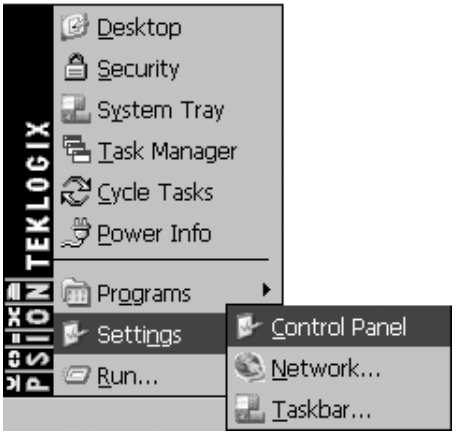

Figure 4.10 Settings Sub-Menu

Control Panel

The **Control Panel** contains applets used to configure hardware, the operating system and the shell. If your unit is running with the Psion Teklogix Open Tekterm application or another application, additional configuration applets may appear in the **Control Panel**.

Network And Dial-Up Connections

The **Network and Dial-up Connections** window allows you to configure the radio or execute an existing configuration. Refer to “Configuring An IEEE 802.11b Radio” on page 111 for radio setup details.

Taskbar And Start Menu

The **Taskbar and Start Menu** option displays a dialogue box in which you can customize the taskbar, choosing which options will be displayed. Refer to “Customizing The Taskbar” on page 46 for additional details about this option.

4.4.9 Run

Choosing the Run option from the **Start Menu** displays a dialogue box in which you can enter the name of the program, folder or document you want to open or launch.

Figure 4.11 Run Dialogue Box

4.4.10 Shutdown

With Shutdown highlighted, pressing the <RIGHT> arrow key displays a sub-menu of options, including **Suspend, Warm Reset** and **Cold Reset**.

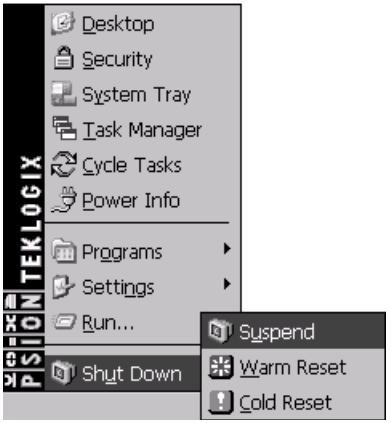

Figure 4.12 Shutdown Sub-Menu

Note: *This menu varies slightly depending on the security level chosen. When the unit is set to **User** level, the* **Shutdown** *option is replaced by* **Suspend**. *A sub-menu is not available.*

*At **Teklogix** security level, an additional option is available in the sub-menu – **Bootloader**. This option behaves like cold-reset, except that the WORKABOUT PRO starts Bootloader rather than Windows CE .NET*

Suspend

The **Suspend** option suspends the WORKABOUT PRO immediately – this is equivalent to turning the hand-held off.

Warm Reset

The **Warm Reset** option resets the WORKABOUT PRO, leaving all saved files and (registry) settings intact. Any unsaved data is lost.

Cold Reset

The **Cold Reset** option resets the WORKABOUT PRO. Any files not stored in permanent memory are lost. However, the registry settings are saved.

4.5 Using A Dialogue Box

A dialogue box (like the samples in Figure 4.13) appears when you need to make selections and enter further information.

You can move between dialogue items by tapping on them, or by pressing the arrow keys and the <TAB> key. (<SHIFT> <TAB> moves the cursor backwards.)

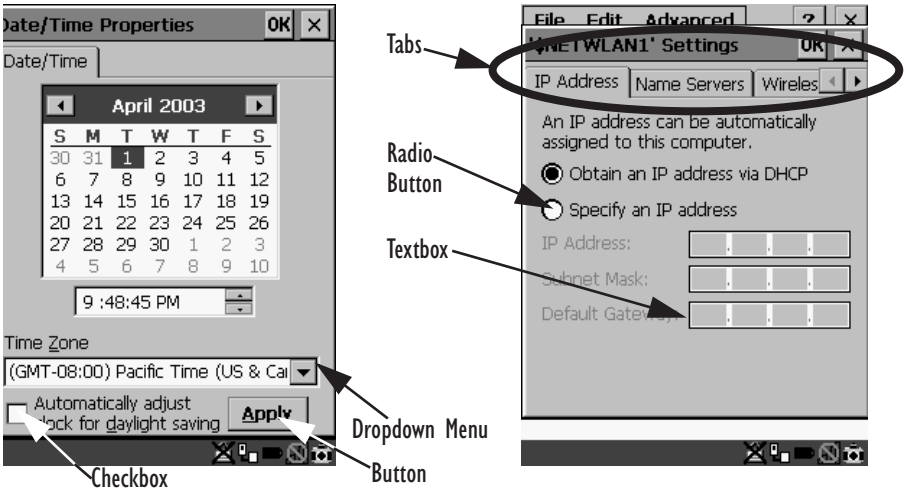

Figure 4.13 Dialogue Boxes

Dialogue boxes contain one or more of the following elements:

Tab: A tab separates different elements of a dialogue box. Tapping on a tab displays its contents.

Textbox: A textbox requires that you type information. Use the stylus to highlight the textbox and then type the appropriate information.

Dropdown: This type of menu is identified by up and down arrows next to the dropdown menu to indicate that additional options are available. Tap on the menu to highlight it, and use the arrows to cycle through the options.

Checkbox: This box allows you to select or deselect an option. To select or deselect a checkbox, tap the stylus in the checkbox to select (√) or deselect it.

Radio buttons: These buttons allow you to choose from a number of options. For example, in the sample screen in Figure 4.13 on page 55 you can choose to 'Obtain an IP address via DHCP' or 'Specify an IP address'. Tap on a radio button to activate the option next to it.

Buttons: This type of button allows you to 'Save', 'Delete' and so on the options you've chosen in a dialogue box. Tap the stylus on the button you want to activate it.

Saving Your Choices: Once you've made all your changes, tap on the OK button or press the <ENTER> to save your changes and exit the dialogue box.

Note: *A dialogue box item that is displayed in grey text indicates that it is not currently available.*

CONFIGURATION 5

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5.1 Remote Desktop Connection

Remote Desktop Connection is a WORKABOUT PRO application used to connect to a Windows Terminal Server so that you can run a "session" on the Server machine, using the hand-held (Windows CE .NET device).

Refer to the following website for step-by-step information about setting up this connection:

http://www.microsoft.com/WindowsXP/pro/using/howto/gomobile/remotedesktop/default.asp

5.2 Pocket PC Compatibility

The WORKABOUT PRO supports the AYGShell API set that allows PocketPC-compatible applications to run on the hand-held. Microsoft® Windows CE .NET 4.2 is designed to include application programming interface (API) compatibility support for the Microsoft Windows Powered Pocket PC 2002 shell in units running Windows CE .NET 4.2.

The website below describes the APIs exposed through AYGShell and the application compatibility between Windows Powered Pocket PC 2002-based applications and Windows CE .NET 4.2-based devices:

http://msdn.microsoft.com/library/default.asp?url=/library/en-us/dncenet /html/WINCENET_CEPCC_App.asp

5.3 The Control Panel

The Control Panel provides a group of icons through which you can set a variety of system-wide properties, such as mouse sensitivity, network configuration and the desktop color scheme.

Note: *If you are uncertain how to move around a dialogue box and make selections, review "Using A Dialogue Box" on page 55.*

When the WORKABOUT PRO boots up, the startup desktop (shell) is displayed, and any applications stored in the Startup folder start up immediately.

To access the Control Panel:

- Use the stylus to tap on the Start button in the taskbar to display the Start Menu. Tap on Settings>Control Panel.

The **Control Panel** folder contains icons used in the setup of your WORKABOUT PRO.

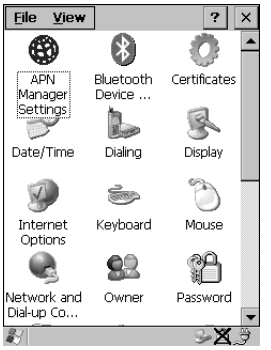

Figure 5.1 Control Panel

5.4 Control Panel Icons

The **Control Panel** provides a group of icons that allow you to customize and adjust settings on your WORKABOUT PRO.

APN Manager Settings

APN Manager Settings

Allows you to specify the APN (access point name) settings for units equipped with a GSM/GPRS card.

Date/Time

Date/Time

Allows you to set the current Month, Date, Time and Time Zone on the unit.

Display

Display

Changes the appearance (window colour scheme) on the unit desktop.

Keyboard

Keyboard

Toggles character repeat on and off and specifies delay and rate for repeated characters. It also allows you to adjust the keyboard backlight.

Volume & Sound

Allows you to adjust the volume of the sound emitted to indicate events like warnings, key clicks and screen taps. This option also allows you to tailor sounds (wave files) emitted from your WORKABOUT PRO.

Mouse Properties

This icon allows you to customize the sensitivity and speed of the stylus double-tap.

Owner

Provides fields in which you can specify owner information. A **'Notes'** tab allows additional information to be entered and displayed when the unit is powered up. **'Network ID'** tab information is used to access network resources. (This information should be provided by your System Administrator.)

Password

Allows you to assign a password to restrict access to elements of the unit. Once assigned, password access cannot be circumvented so it is important that you write down your password and keep it in a safe place. Refer to "Security Settings" on page 48 for details.

Power

Displays battery pack power status. (Alternately, battery status can be accessed through the taskbar.) The **'Power Scheme'** tab allows you to determine a suspend states, and the **'Charger'** tab determines whether or not a battery that requires it, can be recalibrated. (Refer to "Power Saving Schemes" on page 75 for details.)

Regional Settings

Allows you to specify the local language the display text will use along with the format of numbers, currency, time and date for your region.

Remove Programs

Lists the programs that can be removed from your unit. To remove a program, select it and then click on the **Remove** button.

Stylus

Adjusts how Windows CE .NET recognizes your double-tap (as slow or rapid successive taps).

Under the '**Calibration**' tab, you can recalibrate your touchscreen by tapping on the 'Recalibrate' button and following the directions on the calibration screen.

System

Displays system and memory properties. Under the **Memory** tab, you can allocate memory between storage memory and program memory.

Dialing

Specifies dialing settings, including area code, country code, dial type and the code to disable call waiting. You can store multiple patterns – for example, 'Work', 'Home', and so on using this dialogue box.

Certificates

A public key is transmitted as part of a certificate. The certificate assigned through this icon is used to ensure that the submitted public key is, in fact, the public key that belongs to the submitter. The client checks that the certificate has been digitally signed by a certification authority that the client explicitly trusts. "Certificate Assignment" on page 77 directs you to the appropriate setup information.

PC Connection

Enables direct connections to a desktop computer. Selecting the '**Change Connection**' button allows you to change the type of direct connect to your PC.

Teklogix Scanners

If your WORKABOUT PRO is equipped with a scanner, this option provides the set up parameters and choose the bar code symbologies that the unit will successfully read.

Network And Dial-up Connections

Displays a network window from which the radio can be configured and an existing configuration can be executed.

Internet Options

Used to configure your Internet browser including options such as identifying the default and search page that the browser applies when connecting to the Internet, setting the cache size, specifying the Internet connection options, and defining the security level that is applied when browsing.

SNMP

SNMP (Simple Network Management Protocol) is the protocol used to monitor and manage devices attached to a TCP/IP network.

Bluetooth

A short-range wireless technology that enables data communication between devices. It also provides the capability to use a Bluetooth-enabled cellular phone as a data modem, exchanging information with other Bluetooth devices and providing network access.

Total Recall

Total Recall is a Psion Teklogix utility developed to maintain the persistence of installed applications and settings over cold boots. This is based on a backup and restore concept and is extended to incorporate many advanced features.

5.5 Basic Setup

5.5.1 Display Properties

- In the **Control Panel**, choose the **Display** icon.

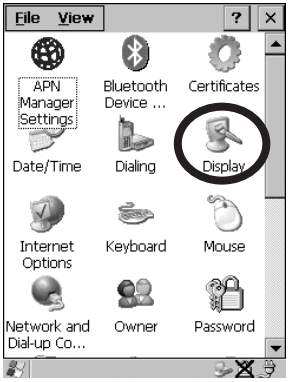

Figure 5.2 Choosing The Display Icon

5.5.1.1 Display Contrast

The **Contrast** tab allows you to adjust the display contrast to suit the environment in which you are using the hand-held. Keep in mind that contrast adjustments only an affect monochrome displays.

- In the **Display Properties** dialogue box, open the **Contrast** tab.

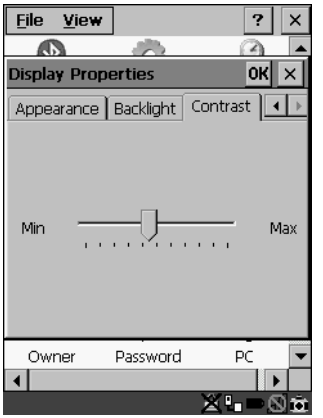

Figure 5.3 Display Contrast Properties

Sliding bar in the Contrast tab to the ***left*** decreases or ***darkens*** the display contrast. Sliding the bar to the ***right*** to increases or ***lightens*** the display contrast.

5.5.1.2 Display Backlight

The Display Properties dialogue box in the Control Panel allows you to specify the intensity of the backlight along with the duration of time it stays on after an event like a key press or scanner trigger.

Note: *Keep in mind that this option may be restricted to supervisory use only.*

- In the Display Properties dialogue box, open the Backlight tab.

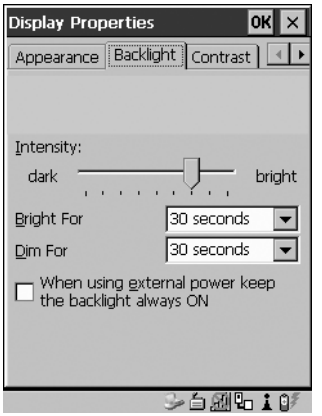

Figure 5.4 Display Backlight Properties

Note: *Backlight changes take affect immediately. You do not need to reset the WORKABOUT PRO.*

Intensity

This parameter is used to adjust the light intensity of the backlight. Sliding the bar to the left lowers the light intensity, and sliding it to the right raises the intensity.

Bright For

The value chosen from this dropdown menu determines the duration of time that the backlight stays on at the configured intensity when a unit is not in use.

Dim For

The value chosen from this dropdown menu determines the duration of time that the backlight stays on at half the configured intensity (dimmed backlight) when a unit is not in use.

External Power Checkbox

When you select (√) the checkbox next to 'When using external power keep the backlight always ON.', the backlight remains ON at the configured intensity ***when the WORKABOUT PRO is operating with external power*** (not battery power). If power is being drawn from the battery, this option is ignored and the other parameters defined in Display Properties dialogue box take affect.

5.5.1.3 Display Appearance

- In the Display Properties dialogue box, open the Appearance tab.

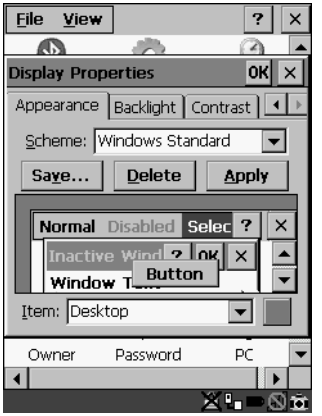

Figure 5.5 Display Appearance Properties

This dialogue box allows you to customize the display colour scheme.

5.5.2 Keyboard Properties

This icon displays the **Keyboard Properties** dialogue box in which you can adjust the repeat rate of the keys, the intensity of the keyboard backlight and the behaviour of the <BLUE> and <ORANGE> modifier keys. This dialogue box also allows you to define macro keys and Unicode characters.

- In the **Control Panel**, choose the **Keyboard** icon.

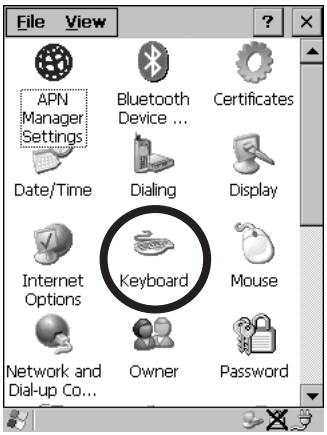

Figure 5.6 Choosing The Keyboard Icon

5.5.2.1 Key Repeat

- In the **Keyboard Properties** dialogue box, open the **Repeat** tab.

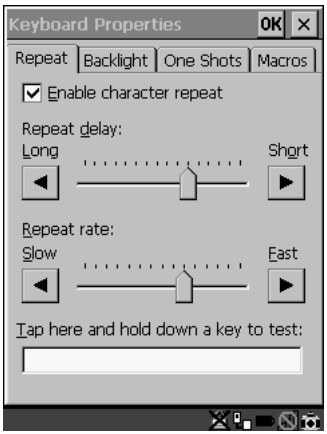

Figure 5.7 Key Repeat Properties

Repeat Delay

The value assigned for this parameter determines the delay in milliseconds between repeat characters. Sliding the **Repeat Delay** bar to the left increases the delay between key repeats while sliding the bar to the right shortens the repeat delay time.

Repeat Rate

The value assigned for the **Repeat Rate** parameter determines how quickly the key you press repeats and is measured in characters per second (cps). Sliding the bar to the left slows the repeat rate, and sliding the bar to the right increases the repeat rate.

Note: *Use the field at the bottom of this dialogue box to test the repeat delay and rate settings you've chosen.*

5.5.2.2 Keyboard Backlight

- In the **Keyboard Properties** dialogue box, open the **Backlight** tab.

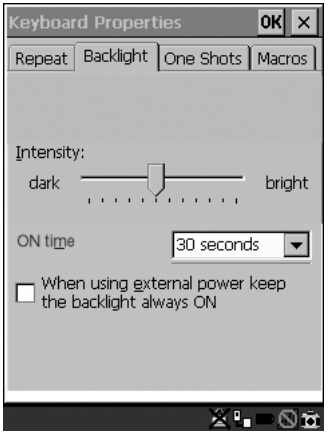

Figure 5.8 Keyboard Backlight Properties

Intensity

This parameter is used to adjust the light intensity of the keyboard backlight. Sliding the bar to the left darkens the keyboard backlight intensity, and sliding it to the right lightens the intensity.

ON Time

The value chosen from this dropdown menu determines the duration of time that the keyboard backlight stays on when a unit is not in use.

5.5.2.3 Keyboard One Shot Modes

- In the Keyboard Properties dialogue box, open the One Shots tab.

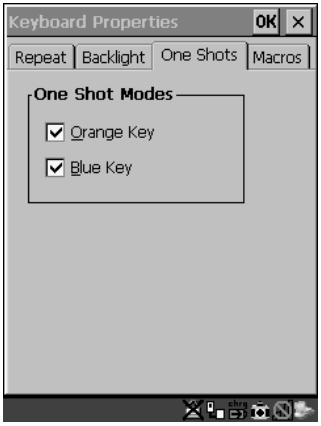

Figure 5.9 Keyboard One Shot Properties

When these options are enabled (√), the <ORANGE> and <BLUE> keys only remain active until the next key is pressed. If the 'One Shots' options are disabled (the checkbox is left blank), the <ORANGE> and <BLUE> keys are locked 'on' when pressed only **once**; they remain 'on' until they are pressed a second time to unlock them.

Note: *Keep in mind that checking the taskbar lets you know whether or not these keys are locked on. When the <ORANGE> and <BLUE> keys are locked 'on', the taskbar at the bottom of the screen displays them in* ***uppercase*** *characters –* ORANGE KEY *and* BLUE KEY. *If these keys are displayed in* ***lowercase*** *characters in the taskbar, you'll know that the* orange key *and the* blue key *are* ***not*** *locked. They will become inactive following a key press.*

5.5.2.4 Keyboard Macro Keys

- In the **Keyboard Properties** dialogue box, open the **Macros** tab.

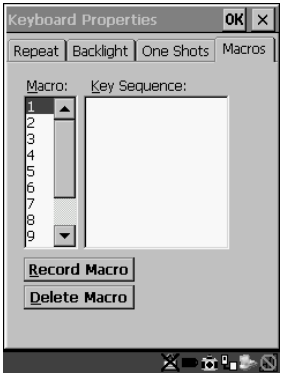

Figure 5.10 Macro Dialogue Box

A macro has 20 programmable characters (or "positions"). The macro keys can be programmed to replace frequently used keystrokes, along with the function of executable keys including <ENTER>, <BKSP> and <DEL> (<BLUE>-<BKSP>), function keys and arrow keys.

Recording And Saving A Macro

You can program up to 3 macro keys.

- In the **Macro:** menu, highlight a macro key number – for example, macro 1 to assign a macro to macro key <M1>. Tap on the **Record Macro** button.

A message screen is displayed instructing you to '**Please Enter Key Strokes**'.

Figure 5.11 Recording A Macro

- Type the macro sequence you want to assign to the Macro key. You can type text and numbers, and you can program the function of special keys into a macro.
- When you've finished recording your macro sequence, press the key sequence – <CTRL> <ALT> <ENTER>.

A new screen displays the macro sequence you created. The **Save Macro** button is highlighted.

- Tap on **Save Macro** to save your macro.

Note: *If you want to discard the macro you've just created, tap on the* **Discard Macro** *button.*

Executing A Macro

- Press the macro key to which you've assigned the macro. For example, if you created a macro for macro key '1', press <M1> to execute the macro.

Deleting A Macro

- In the **Macros** tab, use the stylus to highlight the macro number you want to delete.
- Tap on the **Delete Macro** button, and press <ENTER>.

5.5.2.5 Unicode Mapping

- In the **Keyboard Properties** dialogue box, open the **Unicode Mapping** tab.

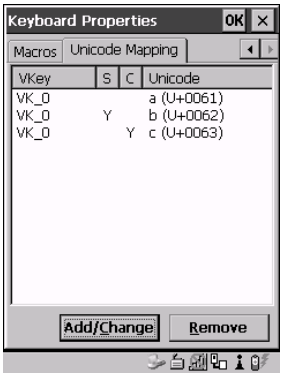

Figure 5.12 Unicode Mapping

The **Unicode Mapping** tab is used to map combinations of virtual key values and <CTRL> and <SHIFT> states to Unicode™ values. This tab shows the configured Unicode character along with the Unicode value. For example, the sample screen above shows "a (U+0061)" indicating that the character "a" is represented by the Unicode value "0061", and so on. Keep in mind that Unicode configurations are represented as hexidecimal rather than decimal values.

All user-defined Unicode mappings are listed in the **Unicode Mapping** tab in order of virtual key value, and then by order of the shift state. If a Unicode mapping is not listed, the Unicode mapping is mapped to the default Unicode value.

Adding And Changing Unicode Values

Important: ***Changes to Unicode mappings are not saved until you exit the* Keyboard Properties *dialogue box.***

- Tap on the **Add/Change** button.

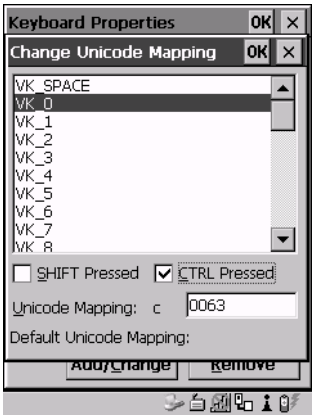

Figure 5.13 Adding And Change Unicode Values

- Highlight a value in the Unicode mapping list – in the sample screen above, a value will be assigned to virtual key 0 (VK 0).
- Position the cursor in the 'Unicode Mapping' field and type a Unicode value for the highlighted key.

Note: *To add a shifted state – <SHIFT> and/or <CTRL>, tap the stylus on the checkbox next to 'SHIFT Pressed' and/or 'CTRL Pressed'.*

Removing Unicode Values

- In the 'Unicode Mapping' tab, highlight the item you want to delete, and tap the **Remove** button.

5.5.3 Volume And Sound Properties

- In the **Control Panel**, choose the **Volume & Sounds** icon.

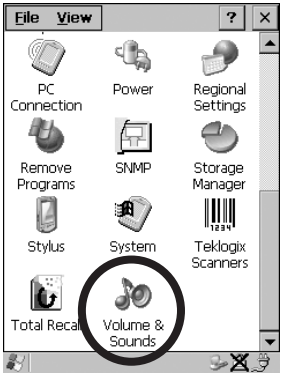

Figure 5.14 Choosing The Volume Icon

5.5.3.1 Volume Adjustments

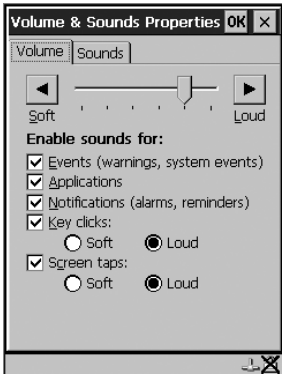

Figure 5.15 Volume Settings

- Slide the volume button to the left to lower the beeper volume or to the right to increase the beeper volume.
- Under the heading **'Enable sounds for:'**, enable (√) the conditions under which you want the WORKABOUT PRO to emit a beep.

5.5.4 Power Management Properties

This icon displays a **Power Properties** dialogue box that indicates the unit's battery capacity and allows you to manage battery use.

- In the **Control Panel**, choose the **Power** icon.

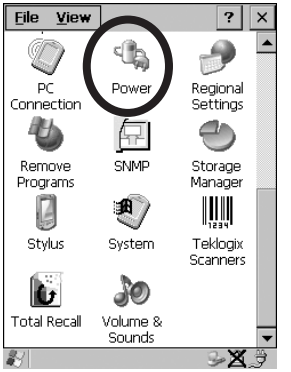

Figure 5.16 Choosing The Power Icon

5.5.4.1 Battery Capacity

- In the **Power Properties** dialogue box, open the **Battery** tab.

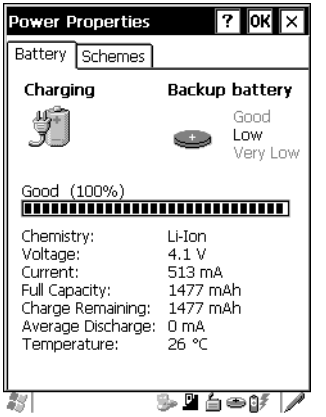

Figure 5.17 Power Battery Properties

The **Battery** tab details information about the battery installed in your WORKABOUT PRO.

5.5.4.2 Power Saving Schemes

- In the Power Properties dialogue box, open the Schemes tab.

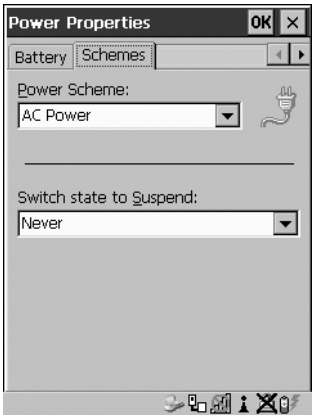

Figure 5.18 Power Scheme Properties

Power Scheme

This dropdown menu allows you to specify whether the unit is using AC Power or Battery Power.

Switch State To Suspend

Important: ***If a WORKABOUT PRO is using battery power, Psion Teklogix recommends setting the Suspend value to 10 minutes. Setting 'Switch State To Suspend' to values greater than 10 or setting the suspend state to 'Never' will adversely affect the battery run time.***

To further reduce power consumption, carefully consider the duration of time that the display backlight is 'on' (see "Display Backlight" on page 65).

When the WORKABOUT PRO is idle – not receiving any user input (a key touch, a scan, and so on) or system activity (serial data, an activity initiated by an application, and so on), the hand-held uses the value assigned in the Switch State To Suspend field to determine when the unit will go to sleep (appear to be off).

When the time in the Suspend field elapses without any activity, the unit enters Suspend state. In Suspend state, the WORKABOUT PRO CPU enters a *sleep* state, and any radios are shut off. The state of the device (RAM contents) is preserved. Pressing

<ENTER> wakes the system from suspend state. When the unit is in suspend state, the network connection will not be broken immediately. If the connection is dropped, you must re-establish the network connection.

5.5.5 Stylus Properties

Note: *Touchscreen calibration may not be enabled on your unit. If your screen appears to require recalibration, contact your supervisor.*

- In the **Control Panel**, choose the **Stylus** icon.

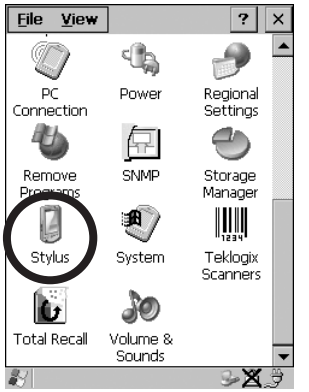

Figure 5.19 Stylus Icon

5.5.5.1 Setting Double-Tap Sensitivity

- In the **Double-Tap** tab, follow the directions to tailor the sensitivity of the stylus when you tap on the touchscreen.

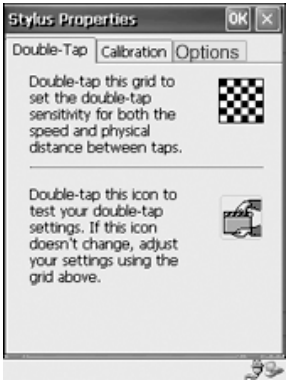

Figure 5.20 Setting Stylus Sensitivity

5.5.5.2 Touchscreen Calibration

Touchscreens rarely require recalibration. However, if your touchscreen has never been calibrated or if you find that the stylus pointer is not accurate when you tap on an item, follow the directions below.

- Choose the **Calibration** tab and then tap on the **Recalibrate** button.

Figure 5.21 Calibrating The Touchscreen

- Follow the directions in the **Calibration** tab to recalibrate the screen.

5.5.5.3 Touchscreen Options

This tab allows you to disable the touchscreen.

- Choose the **Options** tab and then tap on the **'Disable the touch panel'** checkbox.

5.5.6 Certificate Assignment

- In the **Control Panel**, choose the **Certificate** icon.

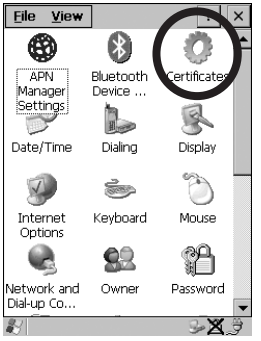

Figure 5.22 Certificate Icon

The dialogue box is used in conjunction with 802.1x authentication to enhance security.

Figure 5.23 Certificates Dialogue Box

For a detailed description about Certificate setup for both the server and client-side devices (WORKABOUT PROs), refer to the following website:

www.microsoft.com/windows2000/techinfo/planning/walkthroughs/default.asp - "Security Services"

Note: *When importing certificates, the unit only recognizes .cer files.*

5.6 Bluetooth Setup

Bluetooth is a global standard for wireless connectivity for digital devices and is intended for Personal Area Networks (PAN). The technology is based on a short-range radio link that operates in the ISM band at 2.4 GHz. When two Bluetooth-equipped devices come within a 5 meter range of each other, they can establish a connection. Because Bluetooth utilizes a radio-based link, it does not require a line-of-sight connection in order to communicate.

Note: *The Bluetooth radio card uses an internal antenna.*

- In the **Control Panel**, choose the **Bluetooth Device Properties** icon to display the **Bluetooth Manager** screen.

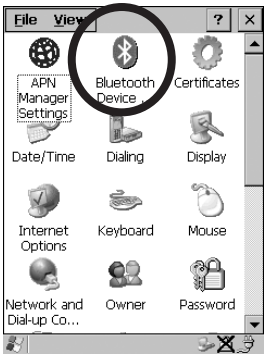

Figure 5.24 Bluetooth Icon

The **Bluetooth Controls** dialogue box is used to display the other Bluetooth devices with which you can communicate.

Figure 5.25 Bluetooth Devices Tab

5.6.1 The Devices Tab

Scan

- Click on the <Scan> button to list available devices.

Wait for the WORKABOUT PRO to complete its scan (approximately 20 seconds). When scanning starts, the <Scan> button will change to <Stop> – if necessary, you can tap on this button to stop the process. Once scanning is complete, all discovered devices will be displayed in the list box, with **Name**, **Address**, **Active** status, and **PIN** information.

Note: *During the scanning process, addresses are located first, followed by names. Therefore, only the names of devices that are within the Bluetooth radio coverage range will be retrieved.*

The **Active** column indicates whether any service is activated for that device. When a service is activated, the device is displayed in the list even when it is not detected during the scan.

The **PIN** column indicates whether you have a PIN (password) set for the device.

At this point you can either query for services or set the PIN for each device. Once you highlight a device in the list box, both the <Services> and <Set PIN> buttons become available.

Services

A discovered device may display several service profiles that it can use to communicate, and you will want to activate the type you need. Supported profiles that can be activated include: DUN (Dial-Up Networking service), Printer (serial service), and LANPPP (LANAccessUsingPPP service). ASync (ActiveSync) is another available profile.

- To start the service scan, highlight a device in the Devices tab list, and then click on the <Services> button or double-click on the device entry.

Note: *If the remote device is out of reach or turned off, it can take a considerable amount of time for the Services dialogue box to appear – it may appear to be frozen.*

Once the device's service profiles are displayed in the Services list box:

- Highlight the desired service, and then click on <Activate> or <Deactivate>, as required.

Once the service is successfully activated, the assigned port (if applicable) will appear in the **Port** column of the *Services* list box. You can choose to use **BSP** or **COM** as the port name. BSP is the latest Microsoft Bluetooth stack standard, but

older applications assume serial ports are COM. When using *COM* as the port name, the Bluetooth manager will try to find and use a free port between COM7 and COM9. When using *BSP* as the port name, BSP2 to BSP9 are available for use. The port is available as soon as it is activated.

Note: *The* **CH** *column shows the RFCOMM channel of the service IF the service is RFCOMM-based. This information is not generally needed except for debugging purposes.*

The **Authentication** and **Encryption** options can be changed only before activation. To change those after activation, deactivate the service first, then change the options.

Once a service is activated, all the information regarding the service, including the RFCOMM channel number, is saved in the registry. (Some remote devices may change their RFCOMM channel numbers when they reboot, so your saved setting may not work when the remote device is rebooted. In that case, you must deactivate the service and reactivate it to detect the current RFCOMM channel.)

Set PIN

PINs can be set for each device by pressing the <Set PIN> button in the Devices tab, or you can skip this step and try to connect to the device first.

Important: ***The remote device must have authentication enabled, otherwise the PIN authentication will fail.***

- Highlight a device, click on the <Set Pin> button, and type the PIN.

You will receive a message, either that the PIN has been successfully validated or that it has been rejected.

If the PIN has been validated, an asterisk (*) appears in the PIN column in the *Devices* list box, indicating that this device has a PIN set. Once a PIN is entered, it is saved in the registry.

To remove the PIN:

- Click on <Set PIN> and press <ENTER>.

If the WORKABOUT PRO attempts to connect to a remote device that has Authentication enabled and does not have a required PIN set, an *Authentication Request* dialogue box appears.

- Enter the PIN, and click on <OK> to connect the devices.

5.6.2 The Server Tab

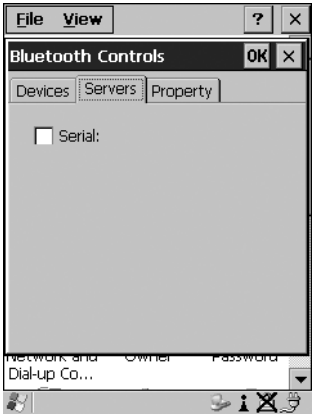

Figure 5.26 Bluetooth Servers Tab

The Bluetooth connection is initiated from your WORKABOUT PRO to the remote device – therefore the WORKABOUT PRO is called the 'client' and the remote is called the 'server'. The **Servers** tab displays the server profiles that can be activated in your WORKABOUT PRO. There is currently one server profile available: **Serial**.

- Tap on the checkbox to activate (√) the server, and it will display the associated port name beside the server name.

Once you activate a server profile, it is recommended that the WORKABOUT PRO be rebooted before you try to bond from a server.

Note: *You do not need to reboot if you are deactivating a server.*

5.6.3 The Property Tab

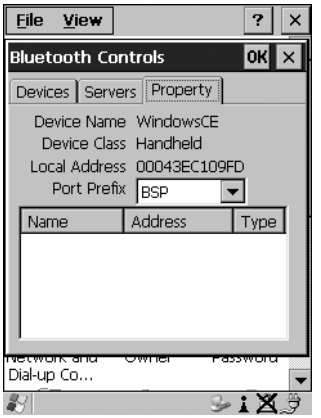

Figure 5.27 Bluetooth Servers Tab

The Property tab displays information about your WORKABOUT PRO, and provides some port options.

The **Device Name** field shows the device name of your WORKABOUT PRO. This name can be changed (see the ***Note*** in this section for details).

Device Class shows the Class of Device (e.g. desktop, hand-held), which is always set to **Handheld**.

Local Bluetooth Address shows the address of your WORKABOUT PRO radio.

Port Prefix is used to set the port name to either **BSP** or **COM**. When the name is set to **BSP**, BSP2 to BSP9 are available for activated services (including the server). When **COM** is chosen, COM7 to COM9 are available.

The **Connection list table** shows the *Name*, *Address*, and *Type* of the currently active connections. The table is periodically updated while on display, but it can take a few seconds before it reflects the actual list of connections. The *Type* column of the table shows 'ACL' or 'SCO'. The Connection list table shows the connections for scanning as well as the service connections.

Note: *You can change the device-name and description of your radio by clicking on the* System *icon in* Control Panel*, which will open the* System Properties *dialogue box. Click on the* Device Name *tab to access the menu and change your settings. Then click on* **OK**.

Although the name will have changed in the Property menu in Bluetooth Controls, the radio only reads it on boot-up. For the changes to take effect, you must reset the WORKABOUT PRO.

5.6.4 The Bluetooth GPRS Phone

Once you've completed the Bluetooth settings described beginning on page 78, you can go ahead and set up communication through your GPRS phone.

1. To set up the internet parameters, select the **Network And Dial-up Connections** icon from the **Control Panel**.

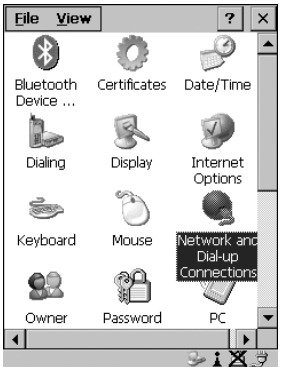

Figure 5.28 Network And Dial-up Connection Icon

2. Select the **Make New Connection** icon.

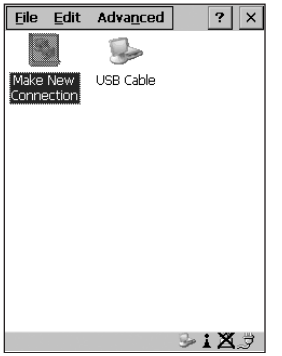

Figure 5.29 Creating A GPRS Connection

3. In the **Make New Connection** dialogue box, choose **Dial-Up Connection.** Enter a name for your GPRS network connection.

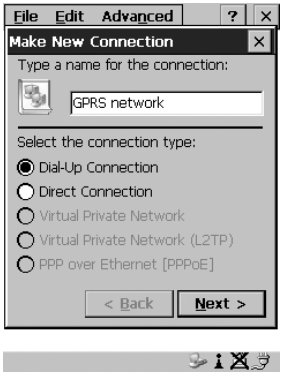

Figure 5.30 Setting Up The Connection

4. Highlight the **Next>** button, and press <ENTER> to display the **Modem** dialogue box.

Figure 5.31 Setting Up The Modem

5. In the dropdown menu labelled **Select a modem:**, choose the name of the modem with which you want to connect, and then choose the **Configure** button to display the **Device Properties** dialogue box.

The WORKABOUT PRO communicates with your phone and retrieves the parameters for the **Device Properties** dialogue box. The unit then disconnects.

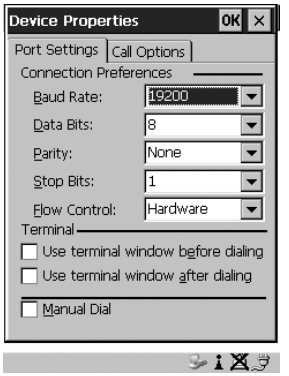

Figure 5.32 Port Settings

6. Under the **Call Options** tab, turn off **Cancel the call if not connected within...** and press <ENTER> to save your changes.

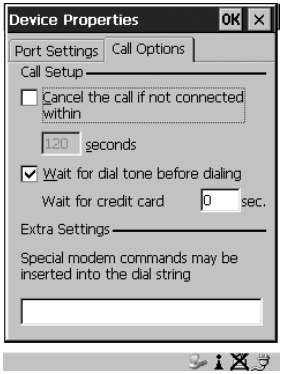

Figure 5.33 Call Options

7. In the **Modem** dialogue box, select the **Next>** button to display the **Phone Number** dialogue box.

Figure 5.34 Setting The Phone Number

The phone number you enter is network carrier dependent. Once you've specified all the necessary information, choose the **Finish** button.

8. In the **Control Panel**, choose the **Dialing** icon.

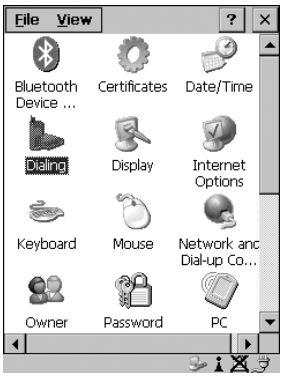

Figure 5.35 Dialing Icon

9. The values in the **Dialing Properties** dialogue box need to be edited according to your network carrier specifications.

Figure 5.36 Setting Up Dialing Properties

Once you've edited this dialogue box to reflect your network carrier requirements, press <ENTER> to save your changes.

10. At this point, you'll need to return to the **Control Panel** and select the **Network and Dial-up Connections** icon.
11. In the network connection window, the new network configuration – in this case – **GPRS Network** – is displayed. Choose the new icon.

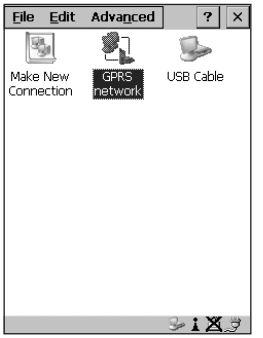

Figure 5.37 GPRS Network Connection

This onscreen message indicates the status of your connection – connected, disconnected, error messages, and so on.

Figure 5.38 Successful Connection

- Select the **Hide** button to move this message to the background.

You can now access the internet.

Figure 5.39 Accessing The Internet

5.7 SNMP (Simple Network Management Protocol) Setup

Simple Network Management Protocol (SNMP) is the protocol used to monitor and manage devices attached to a TCP/IP network (providing they support SNMP). SNMP uses Management Information Bases (MIBs) that define the variables an SNMP Network Management Station can access. Each product has a defined set of MIBs that determine how SNMP operates, the type of access allowed and so on.

All Teklogix products support the TEKLOGIX-GENERIC-MIB – a MIB that defines some common features across Teklogix products. All devices also support MIB-II, a management information base that defines the common features of TCP/IP networks. The SNMP Agent software embedded in the WORKABOUT PRO supports SNMPv1 (RFC 1157).

- In the **Control Panel**, choose the **SNMP** icon.

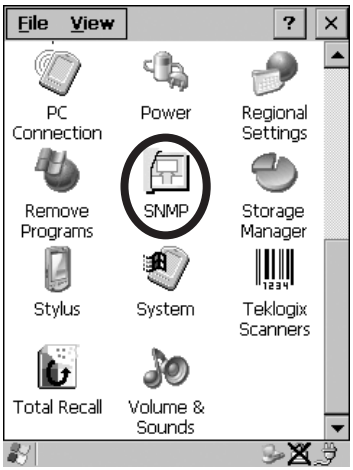

Figure 5.40 SNMP Icon

5.7.1 Contact Tab

The SNMP dialogue box is displayed.

Figure 5.41 Contact Tab

Contact

This field identifies the contact person for this managed node along with information about how to get in touch with this person. The content of this parameter is accessible through MIB-II's `sysContact` object.

Location

This parameter is used to identify the physical location of this node (e.g., Warehouse A: Pillar 32B). The content of this parameter is accessible through MIB-II's `sysLocation` object.

5.7.2 Communities Tab

Figure 5.42 Community Settings

The “Communities” tab provides a means of limiting access to SNMP managed devices to those SNMP Managers with matching “community names”, as specified by RFC 1157.

Enable SNMP

Enabling (√) ‘**Enable SNMP**’ allows the device to respond to SNMP queries and to send Traps. After enabling this option and rebooting the device, the SNMP Agent will automatically start up. To disable this feature, remove the check mark from the check box.

5.7.2.1 Adding A Community

- Choose the **Add** button to add a new 'community'.

Figure 5.43 Adding A Community

Name

The value assigned here is the name assigned by the network administrator to the set of devices to which this managed node belongs.

Rights

This menu allows you to specify access – that is, 'Read-Only' or Read-Write'

5.7.2.2 Modifying A Community Setting

To modify an existing community:

- Highlight the community you want to alter.
- Tap the Change button.

Figure 5.44 Changing Or Removing A Community

A Modify Community dialogue box is displayed, listing the community you highlighted.

- Edit the Name and/or Rights, and press <ENTER> to save your changes.

5.7.2.3 Removing An Existing Community

To remove an item:

- Highlight the community you want to remove in the Communities tab and then choose the Remove button.

A Delete Confirmation screen is displayed.

- To remove a community, tap the Yes button.
- If you decide not to remove the community, tap the No button.

5.7.3 Trap Destination Tab

A trap is an unsolicited report sent to SNMP Managers by the SNMP Agent running on the managed node. This option allows you to define where the report will be sent.

Figure 5.45 Trap Destination Tab

5.7.3.1 Enabling Authentication TRAPS

Enabling (√) **'Enable Authentication TRAPS'** allows authorization traps to be sent when a failure is detected (e.g., an SNMP message received with a bad community name).

5.7.3.2 Adding A Destination

To add a new destination:

- Tap on the **Add** button.

Figure 5.46 Adding A Trap Destination

- Type a destination in the text box provided, and press <ENTER>.

5.7.3.3 Changing A Destination

To change an existing trap destination:

- Highlight the destination you want to alter in the **Trap Destination** tab, and then tap on the **Change** button.

A dialogue box like the one displayed when you *add* a destination is displayed.

Figure 5.47 Changing A Destination

- Make the changes to the destination, and press <ENTER> to save the changes.

5.7.3.4 Removing A Trap Destination

To remove a trap destination:

- In the **Trap Destination** tab, highlight the destination you want to delete.
- Tap on the **Remove** button.

A **Delete Confirmation** screen is displayed.

- To remove a destination, tap on the **Yes** button.
- If you decide not to remove the destination, tap on the **No** button.

5.7.4 Permitted Hosts Tab

For security reasons, the Network Administrator may want to restrict SNMP-node access to a known sub-set of SNMP Managers. This tab lists the IP addresses of all the SNMP Managers which are allowed to monitor and manage this device. If no entries are listed, the device will accept SNMP queries from any host.

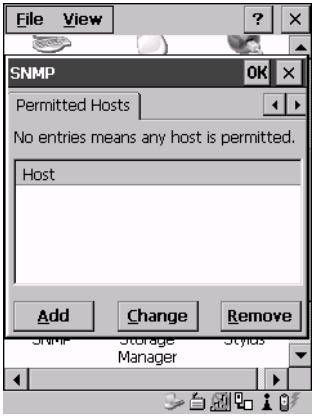

Figure 5.48 Permitted Hosts Tab

5.7.4.1 Adding A Host

To add a new host:

- Tap on the Add button.

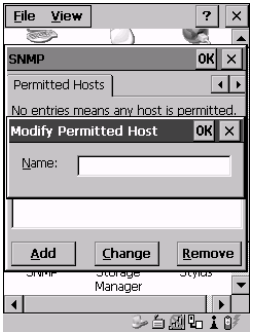

Figure 5.49 Adding A Host

- Type a new host IP address in the text box provided, and press <ENTER>.

5.7.4.2 Changing A Host

To change an existing host IP address:

- Highlight the IP address you want to alter in the **Permitted Hosts** tab, and then tap on the **Change** button.

A dialogue box like the one displayed when you *add* a host is displayed.

- Make the necessary changes, and press <ENTER>.

5.8 Total Recall

Total Recall is a Psion Teklogix utility developed to maintain applications and setting over cold boots. This utility is based on a backup and restore concept and is extended to incorporate power advanced features.

- In the **Control Panel**, choose the **Total Recall** icon.

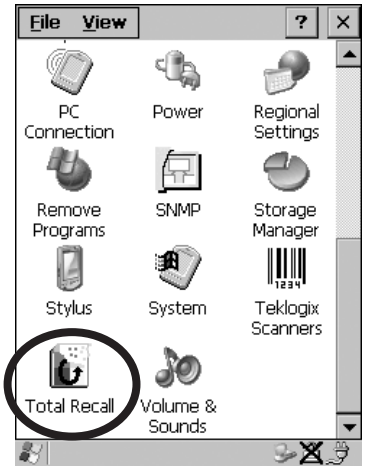

Figure 5.50 Total Recall Icon

5.8.1 Creating A Backup Profile

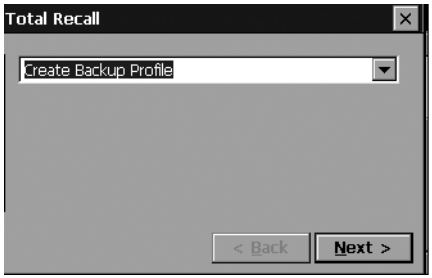

Figure 5.51 Backup Profile

In the dropdown menu, you can choose from four options: **Create Backup Profile**, **View Selected Profile**, **Restore Selected Profile** and **Delete Selected Profile**. Keep in mind however that until a profile is created, the only available option is **Create Backup Profile**.

- Tap on the **<Next>** button to begin the process.

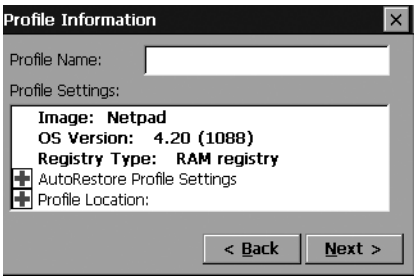

Figure 5.52 Profile Details

Profile Information

This dialogue box lists the possible storage destinations for the profile file.

- To begin, type a name for the profile in the field labelled **Profile Name**.

This dialogue box also lists the image type – **OS Version** and **Registry Type** for the WORKABOUT PRO.

- Tap on the ⊞ icon to expand your settings for **AutoRetore Profile** and **Profile Location**.

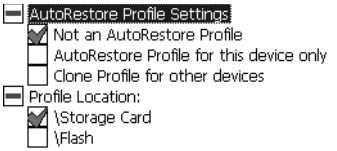

Figure 5.53 Profile Options

  - **Not an AutoRestore Profile** – creates a backup that is manually restored by the operator.
  - **AutoRestore Profile for this device only** – creates a profile that automatically restores itself following a cold boot.
  - **Clone Profile for other devices** – creates a profile that automatically restores after resuming from a cold boot, but it will not contain the touch screen calibration coordinates or the Wireless radio settings.
  - **Profile Location** – allows the operator to specify where the profile is to be saved. The location for the profile will typically be Flash or a Storage card.
- Tap on the <**Next**> button to display the next dialogue box – **Add Files**.

Add Files

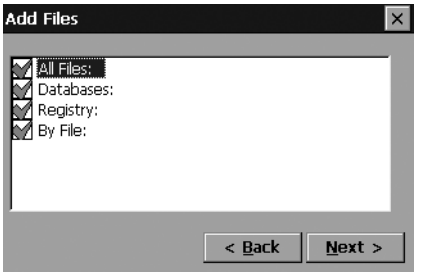

Figure 5.54 Adding Files

By default, **All Files:** is selected so that all installed or copied files, database entries, and the Registry will be saved. You can, however, limit the backup to database, and/or the registry only.

- Tap on the <**Next**> button to view your selections.

View Selections

Depending on what you have selected for inclusion in your profile, you can view a list of the selected files, databases, and/or registry.

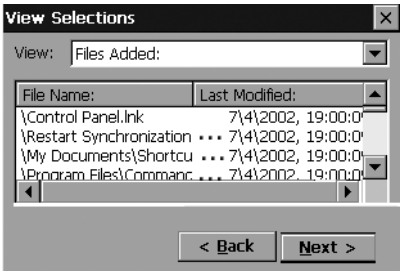

Figure 5.55 Viewing Selections

- Tap on the <**Next**> button to perform the operation.

Performing The Backup

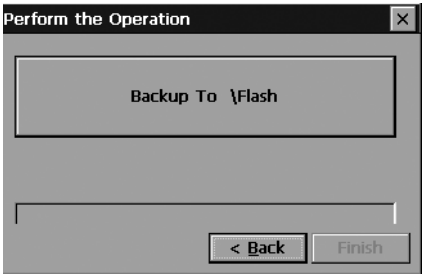

Figure 5.56 Performing The Backup

- Tap on Select the <**Backup To \Flash**> or <**\Storage Card**> button to start the process and create a profile.

5.8.2 Restoring A Profile

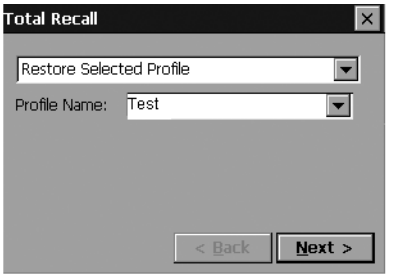

Figure 5.57 File Restoration

To manually restore a profile:

- Choose **Restore Selected Profile** from the dropdown menu, and select the **Profile Name** displayed in the drop down box.

Note: *You can also manually restore an auto restore profile located in flash or a storage device.*

5.9 APN Manager Settings

The **APN Settings Manager** icon in the **Control Panel** is used to set up APN (Access Point Name) settings for units equipped with GSM/GPRS radios.

Important: ***Typically, APN setup information is automatically configured for you. The APN Manager Settings icon is only necessary if automatic setup fails.***

5.9.1 Automatic GSM Setup – Connecting To The Network

When you initially attempt to connect to a network using a GSM radio, a dialogue box is displayed asking if you would like your GSM automatically configured.

1. Choose **Yes** to initiate automatic configuration.
2. In the **Start Menu**, choose `Settings>Network...` and in the connection window, double-tap on the **GPRS** icon that has been set up for you.
3. In the **Dial-Up** dialogue box, tap on the <**Connect**> button.

PIN (Personal Identification Number) Request

The SIM (Subscriber Identity Module) card in your unit may be password protected. In this case, a dialogue box will appear, requesting that you enter your PIN (Personal Identification Number).

1. Type the PIN assigned to your unit SIM.
2. In the **Start Menu**, choose `Settings>Network...` and in the connection window, double-tap on the **GPRS** icon that has been set up for you.
3. In the **Dial-Up** dialogue box, tap on the <**Connect**> button.

5.9.2 Manual GSM Setup – APN Settings Manager

Note: *Before using the APN Manager, close any active connections.*

- In the **Control Panel**, choose the **APN Manager Settings** icon.

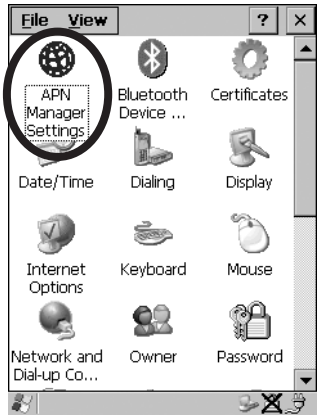

Figure 5.58 APN Manager Settings Icon

If automatic configuration has failed, you'll need to set up your details manually, using the APN (Access Point Name) settings tab.

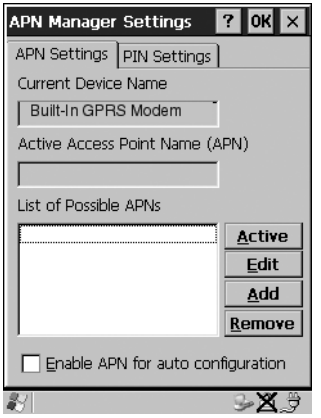

Figure 5.59 APN Settings Tab

- Tap on the <Add> button.

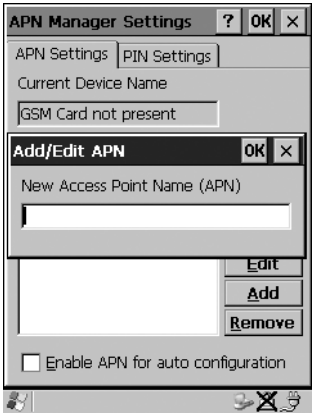

Figure 5.60 Adding A New APN

- In the **Add/Edit APN** dialogue box, type a new APN, and tap on <OK>.

Your new APN is added to the 'List of Possible APNs' under the **APN Settings** tab.

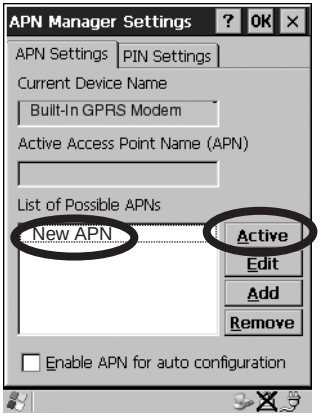

Figure 5.61 Adding A New APN

- To use your new APN, tap on the <**Active**> button.

Note: *To avoid overwriting your newly created APN, disable the checkbox next to* '**Enable APN for auto configuration**'.

5.9.3 PIN Settings

The **Pin Settings** tab is used to change, enable or disable the PIN (Personal Identification Number) assigned to your SIM card.

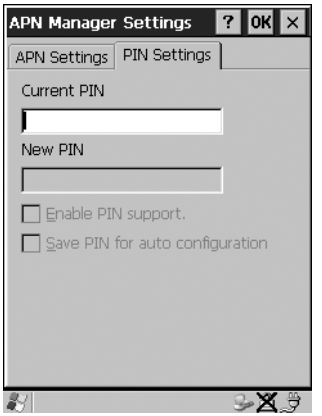

Figure 5.62 PIN Settings Tab

To change your PIN:

- Type your existing PIN in the text box labelled Current PIN.
- Type the new PIN in the text box labelled New PIN.

Enabling (√) Enable PIN Support. activates the PIN entry requirement – each time you connect to a network, your PIN will be requested. Leaving this checkbox unchecked disables PIN requirement.

Note: *Some SIM cards do not allow the PIN support to be disabled.*

Enabling (√) Save PIN for auto configuration. causes the PIN to be stored in the hand-held. At power up, the PIN is automatically submitted to the modem.

Important: ***Keep in mind that if the WORKABOUT PRO is starting from a 'cold reboot', the PIN is deleted. If unauthorized use of the hand-held is a serious issue at your site,*** Save PIN for auto configuration ***should be disabled.***