



EP10™

HAND-HELD COMPUTER

User Manual

(Windows Embedded 6.5)

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ISO 9001 Certified

Quality Management System

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1.1 About This Manual

This manual describes how to configure, operate and maintain the EP10 Hand-Held Computer (Model Number 7515).

Chapter 1: Introduction

provides a basic overview of the EP10 Hand-Held.

Chapter 2: Getting Started

describes the steps required to get the EP10 ready for operation.

Chapter 3: Getting to Know the EP10

describes the features and outlines how to charge and maintain the battery. This chapter also provides information about indicators, microSD and SIM card installation along with general EP10 maintenance.

Chapter 4: Using Windows Embedded 6.5

describes the Microsoft® Windows Embedded 6.5 *Today* screen and how to use it. This chapter also outlines basic operations like navigating a window, displaying menus, and so on.

Chapter 5: Programs

provides a description of the Windows Embedded 6.5 Programs options and how to use them.

Chapter 6: Settings

provides details about Windows Embedded 6.5 Settings options and how to use them.

Chapter 7: Peripheral Devices & Accessories

describes the peripherals and accessories available for your EP10.

Chapter 8: Specifications

details radio, imager and battery specifications.

Appendix A: Wireless Wide Area Network (WWAN)

provides details about the Wireless WAN radio.

Appendix B: Port Pinouts

describes port pinouts.

Appendix C: Imagers Applet

describes the Psion Imagers applet and outlines how to use it.

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 EP10 Hand-Held Features



Important: *For all safety, regulatory and warranty information, refer to the 'EP10 Hand-Held Regulatory & Warranty Guide', PN 8000235.
For a complete list of EP10 Hand-Held features, physical attributes and approvals, refer to Chapter 8, "Specifications".*

The EP10 hand-held computer is a small and durable PDA device that has been built to withstand challenging weather and environmental conditions. It features a 3.7" full VGA transfective display, 3G and CDMA, Wi-Fi and Bluetooth, and a full range of interactive sensors including Digital Compass, Gyroscope, light sensor, proximity sensor and Accelerometer.

If required, customization is available for unique and specialized applications through software development kits, hardware developer kits, and the EP10 expansion module.

Model

- EP10 Hand-Held - Model Number 7515

Platform

- AM3715 Processor
- 800 MHz (ARM Cortex A8)
- On-board RAM: 256 MB SDRAM
- On-board ROM: 2 GB Flash

Operating System

- Microsoft Windows Embedded 6.5

User Interface

- **Display (Backlit)**
 - 3.7 in. VGA portrait mode
 - Backlight feature 165 cd/m2 output
 - Sunlight readable with integrated touchscreen
 - Colour 480 x 640 graphic TFT
 - Passive stylus or finger operation
- **Audio**
 - Built-in 85db mono speaker
 - microphone
 - receiver
- **Keyboard (Backlit)**
 - QWERTY
 - Numeric
 - High reliability keypad ultra-white backlight
 - Ergonomically enhanced for ambidextrous one-hand operation
- **Camera**
 - 3.2 Mega Pixel Colour
 - Auto Focus
 - Dual LED Flash
 - Video capture capability

Wireless Communication

- On-board IEEE 802.11a/b/g/n
- Bluetooth v2.1 radio (CCX V4 Certified)
- UMTS 3.5G HSPA + CDMA EV-DO Rev A radio options
- Integrated 5 band Antenna, supports both voice and data
- SiRF starIV GPS



Note: 802.11a/b/g/n and Bluetooth are available simultaneously.

Enhanced Features

- Accelerometer
- Digital Compass
- Gyroscope
- Light Sensor
- Proximity Sensor

Expansion Slot

- One microSD slot

VOIP (Voice Over IP)

- Push-to-talk

1.3.1 The EP10 Hand-Held

Figure 1.1 EP10 Hand-Held - QWERTY and Numeric



Figure 1.2 Phone Keys



Note: Refer to "Sending & Ending Phone Calls using the Phone Keypad" on page 18 for details about these keys.

2

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2.1 Preparing the EP10 for Operation

2.1.1 The Batteries - 2400 mAh and 3600 mAh Lithium Ion

Two Lithium-Ion battery pack variants are available for the EP10: High Capacity 3600 mAh battery pack, Model Number RV3010 and Standard Capacity 2400 mAh battery pack, Model Number RV3005.

Before charging the battery, it is critical that you review the battery safety guidelines in the “EP10 Hand-Held Warranty & Regulatory Guide”, PN 8000235.



Important: *Always switch the unit off before changing the battery (see “Switching the EP10 Hand-Held Off” on page 9). If you do not turn the hand-held off before removing the battery, it may be necessary to reboot the unit. Any active sessions may be lost.*

Battery packs shipped from the factory are charged to approximately 40% and must be fully charged prior to use. Batteries can be charged using a variety of chargers and docking stations along with an EP10 internal charger. When using the internal charger, a suitable power source is required. All chargers and docking stations are described in Chapter 7: “Peripheral Devices & Accessories”.

2.1.2 Installing the Battery

- Match the contacts at the bottom of the battery with those in the battery well of the EP10 hand-held, and gently snap into place.

2.1.3 Removing the Battery

- Slide the battery release button (located just above the battery) to the right to release and remove the battery from the unit.

2.1.4 Switching the EP10 Hand-Held On

- Press and release the **Power** button.

The centre LED flashes yellow and the desktop *Today* screen is displayed.



Note: *If the EP10 was already in use, pressing the Power button ‘wakes’ it from suspend. The screen in which you were working prior to the suspend state is displayed.*



Important: *If your EP10 fails to power up, consider the following troubleshooting options: the battery capacity may be lower than the suspend threshold, it may be overheated (>60° C), or the battery may have fallen below the configured suspend threshold. Refer to [Section 6.5.5 Suspend Threshold and Estimated Battery Backup on page 106](#) for additional details about this setting.*

If you provide AC power to the EP10 and either the battery capacity is too low or is overheated, a yellow LED will flash and the unit will not switch on. To switch on the hand-held, replace the overheated battery or, in the case of a depleted battery, wait for the capacity to reach an acceptable level.

However, if you provide AC power to an EP10 with a battery that falls below the configured suspend threshold, the hand-held will switch on provided the battery capacity is above 0 mAh.

2.1.5 Switching the EP10 Hand-Held Off

- Press and release the **Power** button.

2.2 Data Transfer Between the PC & the EP10



Note: *For details about connecting your EP10 to a PC using a docking station, refer to “Linking an EP10 to a PC” on page 185.*

Data transfer options vary slightly depending on the type of operating system installed in your PC - Windows XP or earlier, Windows Vista or Windows 7.

By connecting the EP10 to a PC with a cable, you can:

- View EP10 files from Windows Explorer.
- Drag and drop files between the EP10 and the PC in the same way that you would between PC drives.
- Back up EP10 files to the PC, then restore them from the PC to the EP10 again, if needed, and so on.

2.2.1 Microsoft® ActiveSync®

If your PC is running Windows XP or earlier, your EP10 data transfers require ActiveSync software. If ActiveSync is not installed on your PC, locate and download it from the following web site:

<http://go.microsoft.com/fwlink/?LinkId=147001>

2.2.2 Windows Mobile Device Center®

If your PC is running Windows Vista or Windows 7, your EP10 data transfers require *Windows Mobile Device Center* software. If it is not already installed on your PC, locate and download it from the following web site:

<http://go.microsoft.com/fwlink/?LinkId=147001>

2.3 The Touchscreen

2.3.1 Aligning (Calibrating) the Touchscreen

Refer to "Aligning (Calibrating) the Touchscreen" on page 39 for details.

2.3.2 Locking the Touchscreen

Refer to "Locking the Touchscreen" on page 40 for details.

2.4 Configuring Your Wireless Network

EP10 contains an integrated 802.11a/b/g/n radio module. The *Wi-Fi Config* application is used to configure the radio for one or more wireless network profiles. To configure the radio, follow the steps outlined under the following heading "Setting Up the 802.11a/b/g/n Radio".

To configure your *Bluetooth* settings, go to "Bluetooth Setup" on page 108.

2.5 Setting Up the 802.11a/b/g/n Radio

This section describes the steps required to set up the Murata 802.11a/b/g/n radio.

To see specifications for this radio, refer to "Radio Specifications" on page 203.

A network profile contains settings for SSID (Service Set Identifier) and security options.



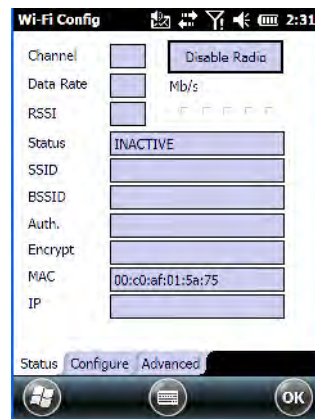
Note: In most situations, the configuration of your 802.11 radio will require parameter settings and access keys from a network administrator.

To launch the *Wi-Fi Config* application:

- Tap on the **Start** button followed by the following icons: **Settings>Connections>Wi-Fi Config**.

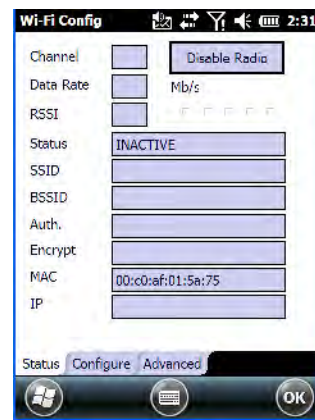


The *Wi-Fi* screen is displayed:



2.5.1 Wi-Fi Config: Status Tab

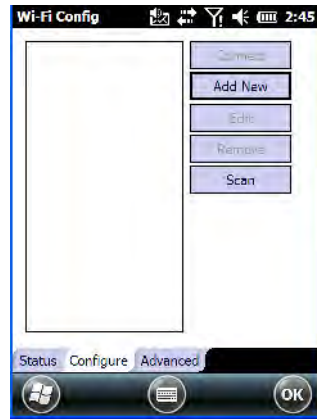
The *Status* tab displays information about the wireless network to which EP10 is configured to connect. When there are no network profiles configured, this tab is not populated.



Disable/Enable Radio: This button toggles between *Disable Radio* and *Enable Radio* depending on whether the radio is turned off or on.

2.5.2 Wi -Fi Config: Configure Tab

- To configure the radio for a wireless network, tap on the **Configure** tab.



Connect: Used to connect to an already existing wireless network configuration.

Add New: Used to create a new wireless network configuration.

Edit: Used to change values in an existing wireless network configuration.

Remove: Used to delete a wireless network configuration.

Scan: Used to detect and list available wireless networks. You can highlight a network in the list, and tap on **Add New** to activate the network.

There are two methods available when configuring a radio network – you can either scan for an existing network or manually create a network. If you tap on the **Scan** button, a list of networks detected by the radio is displayed. Highlighting one of the listed networks and tapping on the **Add New** button creates a new profile that is completed based on the security capabilities detected by the radio. You may need to add additional information, depending on your network requirements.

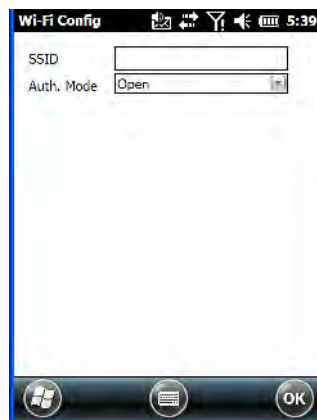
If you tap on the **Add New** button rather than the **Scan** button, you can create a network manually.



Important: *The steps below describe how to manually create a network. Keep in mind that this is intended only as an example and may vary from your own network requirements. If, for example, you are using a different type of security for your network, the fields you complete may not match those described here.*

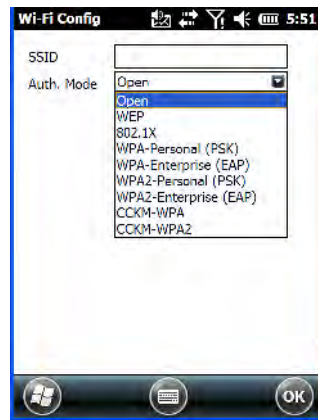
2.5.2.1 Manually Creating a Network

- In the *Configure* tab, tap on the **Add New** button.
- Enter the **SSID** (Service Set Identifier) for your network.



2.5.2.2 Authentication Mode

EP10 supports several classes of authentication - *Open*, *WEP*, *WPA/WPA2 (Personal PSK, Enterprise, CCKM-WPA, CCKM-WPA2)*, and *802.1x with EAP*. Tapping on the *Auth. Mode* menu displays your authentication options.



Note: Each Auth. Mode has a unique Configure Profile screen attached to it with fields appropriate to the authorization mode you've chosen.

Open Authentication

Open authentication does not provide security. When this option is chosen, EP10 will connect to wireless networks which do not use authentication or encryption.

WEP (Wired Equivalent Privacy)

WEP provides static security to prevent others from accidentally accessing your network. If you choose this option, you can specify the type of WEP authentication - *Open* or *Shared*, the WEP security key length - *64 bit* or *128 bit* and the key type - *ASCII* or *Hex*. WEP Key fields are also provided where you can specify a 5 or 13 ASCII character sequence or an equivalent 10 or 26 Hexadecimal digit sequence that matches the active WEP key on the access point.

802.1X, WPA & WPA2 Enterprise, CCKM-WPA & CCKM-WPA2

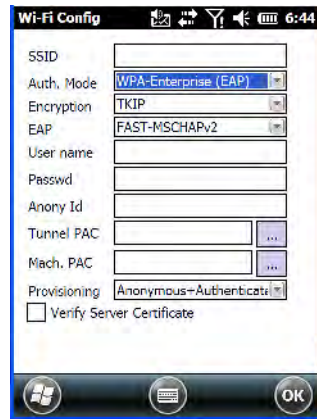
These authentication modes use *802.1X* with *EAP* authentication. When *802.1X* is selected, EP10 uses *WEP* encryption with automatic (as opposed to static) keying. For the others, the user may choose *TKIP*, *AES* or *TKIP+AES* encryption.

WPA & WPA2 Personal PSK (Pre-Shared Key)

When PSK is selected, either *WPA Personal PSK* or *WPA2 Personal PSK* – a shared key must be configured on both the access point and the hand-held computer. One of the following can be chosen from the *Encryption* drop-down menu: *TKIP*, *AES* or *TKIP+AES*.

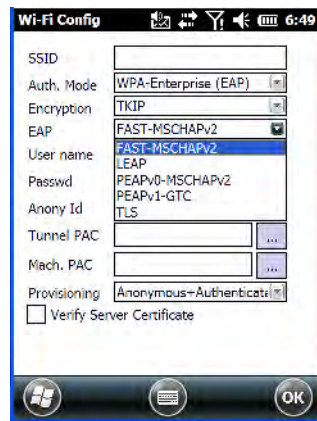
2.5.2.3 Encryption

The *Encryption* menu allows you to choose the type of encryption that will be used to protect transmitted data. Choose an *Encryption* method valid for your network from the drop-down menu. Only the *Encryption* options that are compatible with the type of *Auth. Mode* you've chosen will be listed. In fact, in some cases, this menu will not be available at all.



2.5.2.4 EAP

This menu allows you to choose the EAP (Extensible Authentication Protocol) type used for 802.1x authentication to an access point.

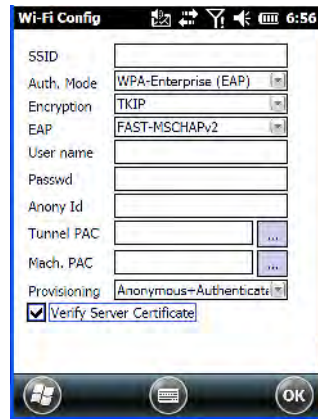


The following EAP types are supported by *Wi-Fi Config*:

- **FAST-MSCHAPv2:** Is a successor to LEAP and does not require strong passwords to protect against off-line dictionary attacks. Like LEAP, EAP-FAST does not require the use of server or client certificates and supports Windows Active Directory and domains.
- **LEAP:** Is an authentication method for use with Cisco WLAN access points. LEAP does not require the use of server or client certificates. LEAP supports Windows Active Directory and domains but requires the use of strong passwords to avoid vulnerability to off-line dictionary attacks.
- **PEAPv0-MSCHAPv2:** Provides secure user authentication by using a TLS tunnel to encrypt EAP traffic. *MSCHAPv2* is used as the inner authentication method. This is appropriate for use against Windows Active Directory and domains.
- **PEAPv1-GTC:** PEAP authentication using GTC as the inner method which utilizes one time passwords (OTPs) for authentication against OTP data bases such as SecureID.
- **TLS:** Provides strong security via the use of client certificates for user authentication.

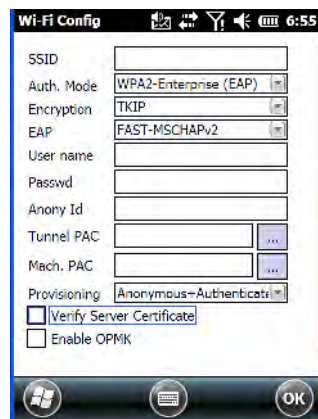
2.5.2.5 Verify Server Certificate

When the *Verify Server Certificate* box is checked, the EP10 will verify the certificate provided by the authentication server during the authentication process. This requires that an appropriate certificate be manually installed on EP10 for the verification.



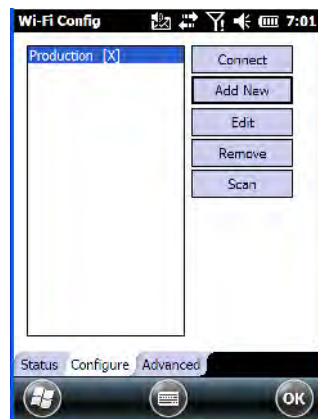
2.5.2.6 Enable OPMK

When used with compatible wireless infrastructure, Opportunistic Key Caching (OPMK) reduces the number of full authentications required when roaming. This option is only visible when WPA2-Enterprise (EAP) authentication mode is chosen.



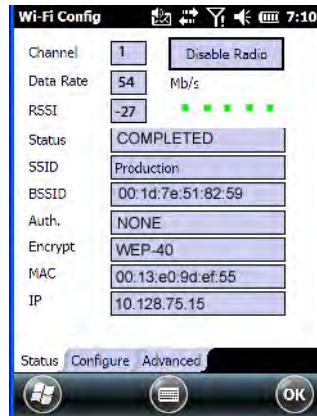
2.5.2.7 Connecting the Wireless Network

Your configured network is listed in the *Configure* tab. An [X] next to a network indicates that this is the network to which EP10 will connect.



- Tap on the **Connect** button to activate your network.

The *Status* tab is displayed. The *Status* field displays *ASSOCIATING* while the 802.11a/b/g/n radio attempts to connect to the network. Once the association is complete, the *Status* tab is populated with the appropriate information about your network.



2.5.3 Configuring TCP/IP

If your network is not using a DHCP server, you will need to assign an IP address.

2.5.3.1 IP Address and Name Servers

To assign an IP Address for the EP10:

- Tap on **Start>Settings>Connections** icon>**Wireless Manager** icon.
- Tap on the **Menu** button, and choose **Wi-Fi Settings**.



- In the *Wi-Fi* screen, use the scroll bar at the top of the screen to scroll to the **Network Adapters** tab.



- Tap on **RA2070 Wi-Fi Adapter**.



The *IP Address* screen offers two options: a server-assigned IP address or a user-assigned IP address. If you want an address assigned automatically:

- Tap on **Use server-assigned IP address** to have an address assigned automatically, or

If you want to define your *own* IP address:

- Tap on **Use specific IP address**.
- Type the preferred *IP address*, *Subnet mask* and *Default gateway*.

Name Servers

If you tap on the *Name Servers* tab at the top of the screen, you can statically configure the DNS servers; however, if you use DHCP for IP address assignment, DNS is usually supplied by the same server that supplied the IP addresses.

2.5.4 Wi-Fi Config: Advanced Tab

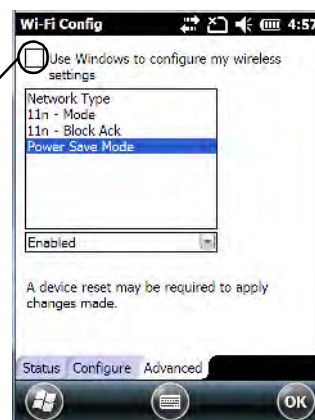
This screen provides a number of options which are described in this section.

2.5.4.1 Wireless Zero Config

If you prefer to use *Wireless Zero Config*, the Windows native supplicant, to configure the radio:

- Tap on the **Advanced** tab, and tap on the **checkbox** to the left of *Use Windows to configure my wireless settings* to add a check mark and activate this option.

Tap here to add a check mark to activate Windows radio configuration.



2.5.4.2 Network Type

This option allows you to select the full set or a sub-set of the IEEE 802.11 wireless network protocols. You can choose from the following:

- **b only:** forces the radio to operate in the 2.4GHz band only. The hand-held will only associate with an Access Point (AP) that supports the DSSS data rates 1, 2, 5.5 & 11 Mbps. This mode has the lowest data rate but yields the longest range.
- **b/g only:** forces the radio to operate in the 2.4 GHz band only. The EP10 will only associate with an AP that supports the DSSS data rates 1, 2, 5.5 & 11 Mbps and OFDM data rates: 6, 9, 12, 18, 24, 36, 48, 54Mbps. This mode offers the same range as *b only* mode but with higher data rate of 54 Mbps when possible
- **a only:** forces the radio to operate in the 5 GHz band only. The hand-held will only associate with an AP that supports the OFDM data rates: 6, 9, 12, 18, 24, 36, 48, 54 Mbps.

2.5.4.3 11n Mode

This radio supports MIMO data rates in both 2.4 GHz and 5 G band (although it only supports single stream operation (SISO)). This increases the maximum data rate to 65 Mbps.

- **Enabled:** If this option is enabled, it is activated for the band or bands that were selected in *Network type*. For example, if *Network Type* = *b only*, 11n is only switched on for the 2.4GHz band.

2.5.4.4 11n - Block Ack

When **11n - Block Ack** is enabled, the EP10 will not send an ACK for every packet received, but it will send an ACK after a block of data is received. The duration of time before sending an ACK is negotiated with the AP.

2.5.4.5 Power Save Mode

If **Power Save Mode** is enabled, the radio remains on continuously. The *disadvantage* to enabling this option is increased power consumption. The advantage to enabling this option is instant response to TCP/IP traffic.

It is recommended that *Power Save Mode* be enabled to increase battery run time. It should only be disabled if the application is sensitive to timing.

2.6 The Phone

EP10s are equipped with phone capabilities as a standard option.

2.6.1 The Phone Keypad

The phone keypad provides phone services like those you may find on your cellular phone. You can use the phone keypad provided with your EP10 to, for example, send and receive phone calls, make conference calls, view your call history, set up speed dial numbers, etc.

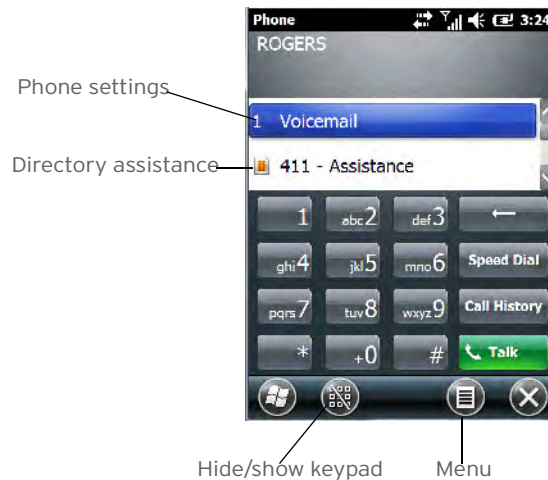
2.6.1.1 Sending & Ending Phone Calls using the Phone Keypad

To display the phone keypad:

- Tap on **Start>Phone** icon.



Note: You can also press the [Talk] key on the EP10 keyboard to display the phone keypad providing it has been activated. The [Talk] key is labelled with a green telephone receiver icon. Refer to "Sending & Ending Calls using the EP10 Keyboard" on page 22 for details.



To dial a phone number:

- Use the phone keypad to enter the phone number, and tap on **[Talk]** to dial the phone number.

To end a phone call:

- Tap on **[End]** on the phone keypad.



Note: You can also tap on the [End] key on the physical keyboard of the EP10 to end the call. The [End] key is labelled with a red phone receiver. Refer to "Sending & Ending Calls using the EP10 Keyboard" on page 22 for details.

2.6.1.2 Making a Conference Call

To set up a conference call between yourself and two or more other parties:

- In the phone keypad, type the **first phone number**. Tap on **[Talk]**.
- While you are connected to the *first number*, tap on **Menu>Hold**.
- Type the **second number**. Tap on **[Talk]**.
- Tap on **Menu>Conference**.
- To add another party, tap on **Menu>Hold**, type the **number**, and then tap **Menu>Conference**.
- Tap on **[End]** to disconnect all calls.

2.6.1.3 Receiving an Incoming Call

To answer an incoming call:

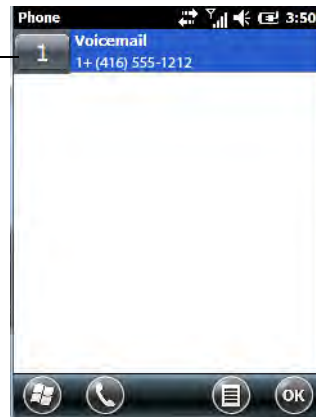
- Tap on the **[Talk]** button; it's labelled with a *green* phone receiver.

2.6.1.4 Programming Speed Dial

The phone keypad provides a *Speed Dial* button for quick access to frequently used numbers.

- In the phone keypad, tap on the **Speed Dial** button to display the *speed dial Phone* dialog box.

Speed Dial Number



Call softkey

This dialog box lists the phone numbers and the speed dial key to which the phone number has been assigned.

- Tap on the **Speed Dial Number** (the number to the left of the phone number you want to dial), or Tap on the **Call** softkey in the taskbar at the bottom of the screen - the phone receiver icon; the number is dialed for you.

Using the Phone Keypad to Program a Speed Dial

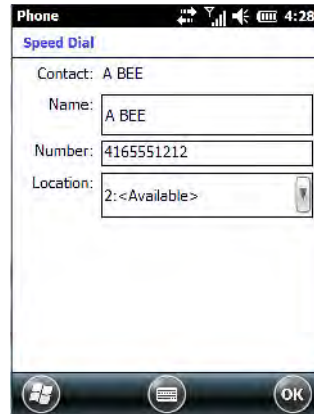
There are a number of ways to add a speed dial number. You can create a speed dial number using the *Contacts* list or by using the *Speed Dial* button on the phone keypad.

Adding a New Phone Number

- In the *phone keypad*, tap on the **Speed Dial** button.
- In the speed dial *Phone* dialog box, tap on **Menu>New**.
- In the list, choose a **contact** for a speed dial.



- Type a contact name in the field where the cursor is displayed, or tap on a name in the list.



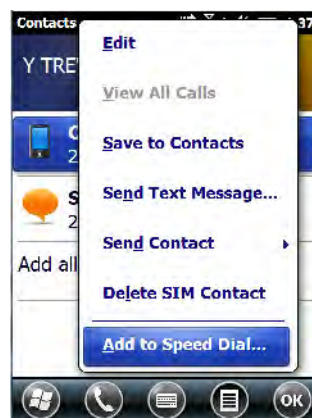
A sequential speed dial key is automatically assigned in the *Location* field. You can tap on the arrows to the right of the *Location* field to change the auto assignment.

Using the Contact List to Program a Speed Dial

- In the *Today* screen list, tap on **phone**. Tap on the **Contact** softkey in the taskbar at the bottom of the *Today* screen.



- Tap on the **Contact** to which you want to assign a speed dial number.



- In the *Summary* screen, tap on **Menu>Add to Speed Dial**.

2.6.2 Sending & Ending Calls using the EP10 Keyboard

An EP10 that supports the phone feature is equipped with a [Talk] and an [End] call key on the keyboard.

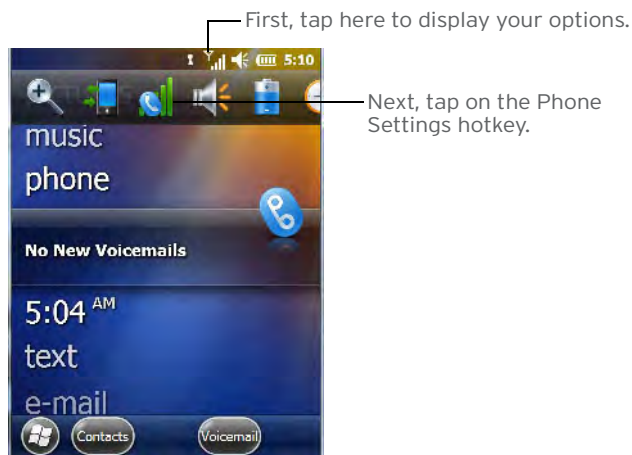


Using these phone keys, you can display the phone keypad and answer, send and terminate phone calls.

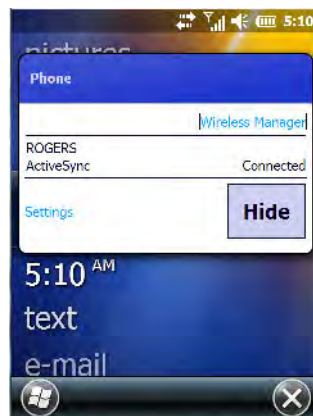
2.6.3 Managing Phone Settings

You can adjust phone settings such as the ring type and tone, choose phone services such as barring calls, and you can also determine network selections. There are a number of ways you can access phone settings.

- In the *Navigation Bar*, tap on the **Phone Settings** hotkey.

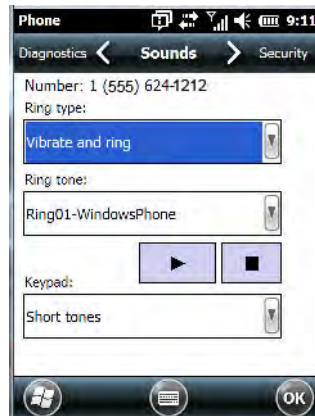


- In the pop-up *Phone bubble*, tap on the **Settings** link, **or**



Tap on **Start>Settings>Personal icon>Phone icon**.

2.6.3.1 Phone: Sounds Tab



Ring Type and Ring Tone

The SIM card phone number is displayed at the top of this screen. The *Ring Type* drop-down menu allows you to tailor the type of ring used for incoming calls. The *Ring Tone* drop-down menu allows you to determine the ring tone of incoming phone calls. To test the ring type and tone you've chosen, you can tap on the Play button just below the Ring tone menu. Tap on the Stop button to end the sound test.



*Note: For details about setting up **Ring type** and **Ring tone** to help you identify other 'events' such as successful scans, missed calls, voice mails, and so on, refer to "Notifications Tab" on page 107.*

Keypad

This option allows you to determine the type of sound that keypad keys emit as you press them. You can also turn off keypad sounds.

2.6.3.2 Phone: Security Tab



This option allows you to enable or change a *PIN* (Personal Identification Number) so that your phone function is protected from unauthorized use. Your SIM card manufacturer provides the default *PIN* which you can change in this field.

Changing a PIN

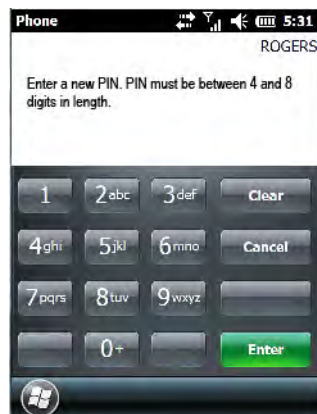
- Tap on the **Change PIN** button and use the phone keypad to enter your existing SIM card PIN. Tap on the **[Enter]** button in the phone keypad.



Important: If you enter an incorrect PIN, a message is displayed letting you know that you'll need to reenter the correct value.

You have a limited number of chances to enter the correct PIN. The number varies for different services. If you exceed this number, the SIM will be disabled automatically. You will be asked to enter a PUK (Personal Unlocking Key). In some cases, the PUK is printed somewhere on your SIM package. If this is not the case, you will need to call customer support.

Once you've entered the correct PIN, a new screen appears asking that you enter your new PIN.



- Type your **new PIN** - a number consisting of between 4 and 8 digits in length. Tap on **Enter**. A new message lets you know that you need to confirm your new PIN.
- Retype your **new PIN**. Tap on **[Enter]** when you're finished.

Enabling PIN Security

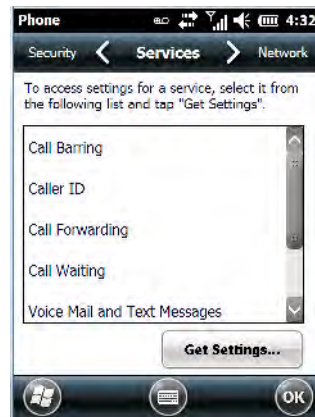
To activate PIN security:

- Tap in the **checkbox** to the left of *Require PIN when phone is used*.
When security is enabled, you will be prompted to enter a PIN before you are allowed to use the phone.



Note: Whenever this option is enabled or disabled, you will be asked to enter your PIN.

2.6.3.3 Phone: Services Tab



The *Services* tab allows you to customize the behaviour of your phone. You can, for example, block all incoming calls, tailor to whom your caller ID will be transmitted, set up call forwarding and so on.



Note: Keep in mind that some services may not be supported by your network, or they may not have been subscribed to.

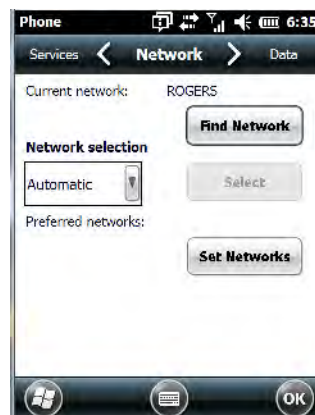
- Tap on the **service** you want to set up. Tap on **Get Settings**.

The *service* dialog boxes allow you to tailor your available services to meet your requirements.

Voice Mail Setup

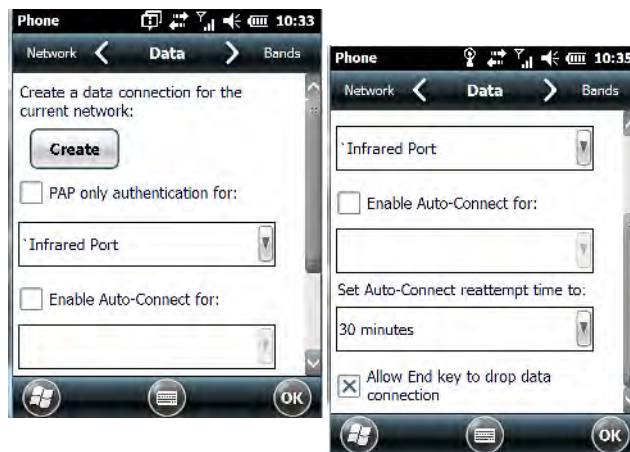
If your service includes *Voice Mail*, choosing this option for the first time displays a screen in which you can enter your voice mail provider phone number.

2.6.3.4 Phone: Network Tab



Note: For details about choosing networks, refer to "Network Configuration" on page A-8.

2.6.3.5 Phone: Data Tab

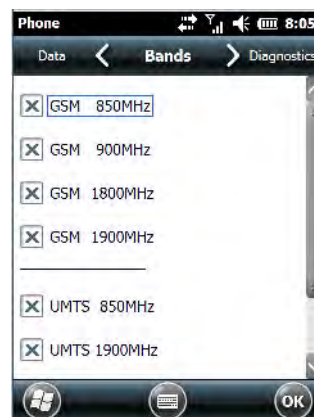


This screen is used to configure your WWAN data connection to the ISP.



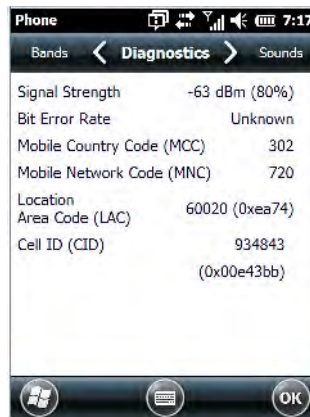
Note: For details about setting up your data connection, refer to "Establishing a GSM/UMTS Radio Modem Connection" on page A-3 or "Establishing a CDMA Radio Modem Connection" on page A-8 depending on the type of radio installed in your EP10.

2.6.3.6 Phone: Bands Tab



By default, all frequency bands are enabled. Bands should not be disabled without knowledge about which bands are used by your network; an incorrect setting will prevent the WWAN modem from finding the network.

2.6.3.7 Phone: Diagnostics Tab



The *Diagnostics* tab lists details about each network found. The information in this screen may be useful to support personnel if they are attempting to diagnose a problem with your network.

2.7 Resetting the EP10

2.7.1 Performing a Warm Reset

During a *warm reset*, running programs are halted. The contents of the flash memory and the registry are preserved. Keep in mind, however, that RAM content is not preserved.

- Press and hold down the **[BLUE/FN]** key and the **Power** button simultaneously for a minimum of six seconds.



Note: You do not need to reset your EP10 after configuring the radio.

2.7.2 Performing a Clean Start

A *clean start* returns the EP10 to factory settings, flushes the registry keys and deletes volatile storage. Please note that the Psion Software Advantage (add-on cab file) is saved and stored in volatile memory.

- Press and hold down the **[BLUE/FN]** key, the **Power** button and the **left [SCAN]** key simultaneously for a minimum of six seconds.

The EP10 displays the Boot to BooSt menu.

- On an *alpha keyboard*, type **.clean**.
- On a *numeric keyboard*, type **.25326**.

2.7.3 Boot to BooSt

If you choose Boot to BooSt, the BooSt menu is loaded.

- Press and hold down the **[BLUE/FN]** key, the **Power** button and the **left [SCAN]** key for a minimum of six seconds.
- Press **[1]** to launch the OS.

2.7.4 Performing a Hardware Reset

A hardware reset reinitializes all hardware. All RAM including the RAM disk is erased. Non-volatile storage such as the Flash disk is preserved.

- Press and hold down the **[BLUE/FN]** key, the **[SYM]** key and the **Power** button for a minimum of six seconds.

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3.1 Features of the EP10 Hand-Held



Figure 3.1 Back of EP10



Figure 3.2 Ports



3.2 The Battery

Two Lithium-Ion battery pack variants are available for the EP10: High Capacity 3600 mAh battery pack, Model Number RV3010 and Standard Capacity 2400 mAh battery pack, Model Number RV3005.

Preparing the EP10 for operation requires that a battery pack be charged and installed in the EP10.

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 quick reference guide entitled 'EP10 Hand-Held Computer & Accessories Regulatory & Warranty Guide', PN 8000235.

3.2.2 Removing the Battery Pack



Important: *Always shut down the EP10 before removing the battery. To safely remove the battery, press the Power button.*

Keep in mind also that all EP10s are equipped with internal super-capacitors that will save the current data for up to 2 minutes while the battery is swapped.

Refer to “Preparing the EP10 for Operation” on page 9 for more details about removing and installing the battery.

3.2.3 Battery Swap Time

Assuming the default power saving parameters and battery reserve level have not been altered, battery swap time is approximately 2 minutes – you will not lose data if the battery is replaced within this time frame.

To protect data, the safest place to store data is on a microSD memory card or externally to the device on a USB memory stick or on a PC.

The *Suspend Threshold* feature allows you to determine the battery capacity at which the EP10 will be shut down. If left at the default value, *Maximum Operating Time*, the EP10 will run until the battery is completely empty; the RAM is only backed up for a short period of time. If you choose *Maximum Backup Time*, the EP10 shuts off with more energy left in the battery so RAM can be backed up for a longer period of time.

(Refer to “Suspend Threshold and Estimated Battery Backup” on page 106 for details about reserving battery power for data backup purposes.)

3.2.4 Charging the Battery

Batteries shipped from the factory are charged to approximately 40% of capacity. They must be fully charged prior to use.



Important: *Do not leave a spare battery to charge for more than 72 hours. Charging for more than 72 hours may damage the battery or lead to charge capacity reduction.*



Important: *If the battery is overheated (>60° C) or if the battery capacity is very low (<100 mAh), the unit will not switch on when the Power button is pressed. Under the above conditions, when AC power is applied, the EP10 will still refuse to power up; instead, a yellow LED will begin blinking and until the battery is replaced, or in the case of low battery capacity, the battery is charged to an acceptable level, the EP10 will not switch on.*

Keep in mind also that, along with the battery, the EP10 is equipped with internal, super-capacitors that preserves data stored on the EP10 for approximately 2 minutes while the battery is swapped.

3.2.4.1 Chargers and Docking Stations



Important: *FOR DETAILED INFORMATION about chargers and docking stations, refer to Chapter 7: “Peripheral Devices & Accessories” beginning on page 179.*

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 No. RV4000) operates as both a charger and a docking station. Operating as a charger, both the battery installed in the EP10 and a spare battery can be charged simultaneously. (see “Desktop Docking Station – Model No. RV4000” on page 183)
- Quad Docking Station (Model No. RV4004) can charge the battery of up to four EP10s inserted in the docking station. (see “Quad Docking Station – Model No. RV4004” on page 186)

- Quad Battery Charger (Model No. RV3004) can charge up to four batteries inserted in the charger (see “Quad Charger – Model No. RV3004” on page 188)
- USB & Charger Snap Module (Model No. RV4001) allows you to connect a micro-USB cable and a power cable to the EP10. (see “Snap Modules – Model Nos. RV4001 & RV4002” on page 190)
- DE9 RS232 & charger Snap Module (Model No. RV4002) provides an RS-232 connection and charge power to the EP10. (see “Snap Modules – Model Nos. RV4001 & RV4002” on page 190)



Note: Refer to “Monitoring the Battery and Maximizing Run Time” on page 42 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 40°C (32°F to 104°F).

3.3 The Keyboard

3.3.1 EP10 Alpha and Numeric Keyboards

Both types of keyboards are equipped with [Talk] and [End] phone keys.

Figure 3.3 Alpha and Numeric Keyboards



Most of the keys on these keyboards operate much like a desktop computer. Where a key or key function is not consistent with the PC keyboard, the differences are noted.

The [BLUE/FN] modifier key provide access to additional keys and system functions. These functions are colour coded in blue print above the keyboard keys.



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

3.3.2 Locking the Keyboard

You can lock the keyboard to prevent accidental key presses. To set up the locking/unlocking key sequence:

- Tap on **Start>Settings>Personal>Buttons** icon. Tap and swipe on the scrolling tab bar at the top the screen to display the **Lock Sequence** tab.

Refer to “Lock Sequence Tab” on page 134 for details about setting up this function.

3.3.3 Modifier Keys

The [SHIFT], [CTRL], [ALT], [BLUE/FN] and [SYM] keys are modifier keys that change the function of the next key pressed.

The [SHIFT], [CTRL] and [ALT] keys operate much 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.

[SHIFT] and [BLUE/FN]

The [SHIFT] and [BLUE/FN] modifier keys provide access to additional keys and system functions. The functions related to these modifier keys are colour-coded in white and blue print respectively on the keyboard keys, dependant on your keyboard format.

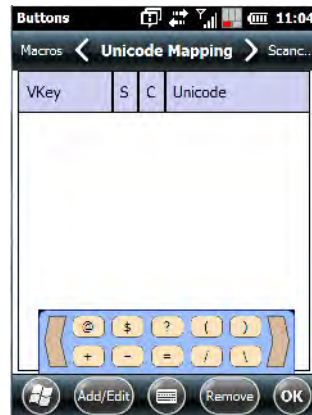
[SYM]



Note: When using the Mobile Devices SDK Developers' Guide (PN 8100016), note that the [SYM] key is interchangeable with the [ORANGE] key.

The Symbol [SYM] modifier key is represented on the keyboard by the characters *SYM* and provides access to commonly used symbolic characters.

- Press the **[SYM]** key to display the *Symbol soft input panel* (SIP) onscreen keyboard.



This onscreen keyboard displays the symbols mapped to each key.

- Tap on the **left** and **right** arrows in the SIP onscreen keyboard to display all the symbols available to you.



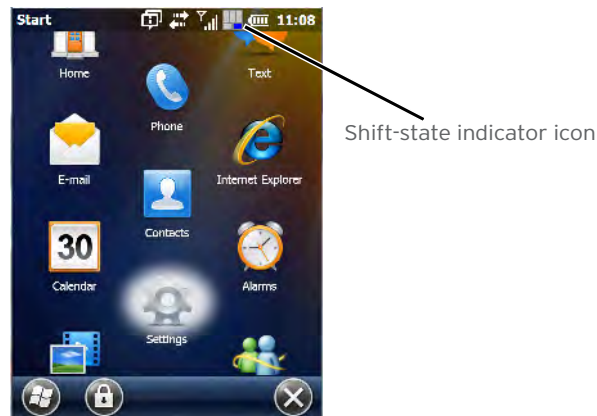
Note: Modifier keys are remapped in the Control Panel, and the Symbol SIP will automatically show and use the new mappings after the next reboot.

The onscreen keyboard corresponds to the specific keyboard on your EP10 - either numeric or alpha.

3.3.3.1 Activating Modifier Keys

When a modifier key is pressed, it is represented in the shift-state indicator icon in the navigation bar at the top of the screen, making it easier to determine whether or not a modifier key is active.

Figure 3.4 Shift-State Indicator Icon



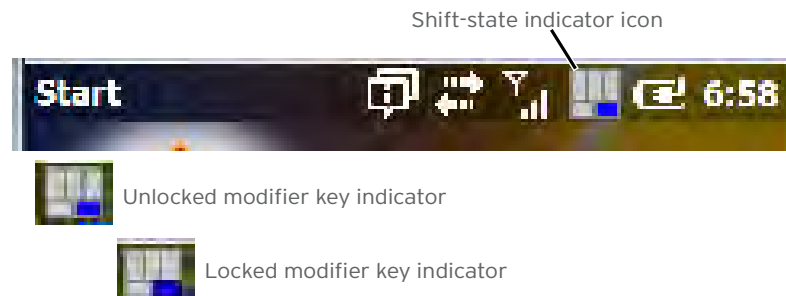
3.3.3.2 Locking Modifier Keys



*Note: The locking behaviour of the modifier keys can be changed so that, for example, pressing a modifier key **once** will lock the key 'on'. Refer to "OneShots" on page 130 for details.*

When a modifier key is locked 'on', it will remain active until it is pressed again to unlock or turn it off. To help you identify when a modifier key is locked 'on', the key is represented in the shift-state indicator icon with a black frame around it.

Figure 3.5 Shift-State Indicator Icon - Locked/Unlocked Modifier Key



Once a modifier key is unlocked or turned off, it is no longer displayed in the shift-state indicator icon.

3.3.4 The Keys

The [SHIFT] Key

The [SHIFT] key is used to display uppercase alpha characters.



Note: On numeric keyboards, the [SHIFT] key is also used to access the Function keys printed in white typeface on numeric keys [1] through [0].

[SHIFT] Key - Alpha Keyboards

The [SHIFT] key on the alpha keyboard, represented by an up arrow, is used to display uppercase alpha characters. To produce an uppercase character:

- Press the **[SHIFT]** key followed by the letter you want to appear in uppercase.

If you press the [SHIFT] key twice, it is locked 'on' essentially acting as a [CAPS] key, displaying uppercase characters until [SHIFT] is pressed again to turn the [CAPS] function off.

[SHIFT] Key - Numeric Keyboards

The [SHIFT] key on the numeric keyboard has a dual function; when used in conjunction with the [BLUE/FN] key, it allows you to display uppercase alpha characters and when used alone, the [SHIFT] key provides access to Function keys [F1] to [F10].

Creating Uppercase Alpha Characters

On numeric keyboards, the alpha characters are displayed in *blue* print to the right on the numeric keys. To produce an uppercase character on a numeric keyboard:

- Press the **[SHIFT]** key followed by the **[BLUE/FN]** key.
- Press the numeric key containing the alpha character you want to produce.

If you press the [SHIFT] key twice, it is locked 'on' essentially acting as a [CAPS] key, displaying uppercase characters. To turn off the [CAPS] function, press the [SHIFT] key again.

Accessing Function Keys

On a numeric keyboard, the Function keys [F1] to [F10] are represented in white print to the left on numeric keys [1] to [0]. To access a Function key:

- Press the **[SHIFT]** key followed by a numeric key from **[1]** to **[0]** depending on which Function key you want to use.

The Arrow Keys

The Arrow keys are located near the top of the keyboard. 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/FN] [BKSP]) erases the character at the cursor position.

The [ALT] and [CTRL] Keys

The [ALT] and [CTRL] keys modify the function of the next key pressed and are application dependent. A key combination is required to access these keys.

- To access the *[ALT]* key, press **[BLUE/FN] [TAB]**.
- To access the *[CTRL]* key, press **[BLUE/FN] [ESC]**.

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, dialog box or activity and return to the previous one.

The [SPACE] Key

Pressing this key inserts a blank space between characters. In a Windows dialog box, pressing the [SPACE] key enables or disables a checkbox.

The [SCAN] Keys

The EP10 is equipped with three [SCAN] keys; two are located on the keyboard just below the display and a third [SCAN] key is situated on the left side of the hand-held. [SCAN] keys activate the scanner beam. For a unit that does not have an internal imager, these keys can be remapped to serve other functions.

3.3.4.1 The Function Keys - [F1] to [F10]

Function keys [F1] to [F10] perform special, custom-defined functions. These keys are accessed differently depending on the type of keyboard: numeric or alpha. Function keys can be used with the Windows Embedded 6.5 operating system or another application.

Numeric Keyboard Access

On a numeric keyboard, the Function keys [F1] to [F10] are assigned to numeric keys [1] through [0].

- Press [SHIFT] followed by a numeric key from [1] to [10] to activate the associated Function key.

Alpha Keyboard Access

On an alpha keyboard, the Function keys are labelled in blue print in the lower-right corner of alpha keys [Y] through [N]. To access Function keys [F1] to [F10]:

- Press the [BLUE/FN] key followed by the alpha key that corresponds with the Function key you want to activate. For example, press [BLUE/FN] [Y] to activate [F1], press [BLUE/FN] [U] to activate [F2], and so on.

3.3.4.2 The Macro Keys

While Macro keys are not physically stamped on the keyboard, up to 12 macro functions can be added using the *Scancode Remapping* function. Refer to “Scancode Remapping” on page 132 for details about mapping keys.

For details about creating a macro, refer to “Macro Keys” on page 130.

3.3.5 The Numeric Keyboard – Accessing Alpha Keys

On numeric keypads, you’ll need to take a few extra steps to access the alphabetic characters.

3.3.5.1 Choosing a Single Alpha Character

The examples below illustrate how to access, A, B and C, all of which are printed in blue characters above the numeric key [2].



Important: *The letters you choose appear in the shift-indicator icon at the bottom of the screen, providing a visual indicator of which letter will be displayed on the screen.*

To choose the letter *a*:

- Press the [SHIFT] key, and type the numeric key [2].



Note: *To choose the second, third or fourth alpha character assigned to a numeric key, you may want to lock the [SHIFT] key ‘on’. Remember that depending on how your EP10 is set up in the ‘One Shots’ tab, you may find that you need to press the [SHIFT] key twice to lock it ‘on’. Refer to “OneShots” on page 130 for details.*

To choose the **second** letter in the sequence – in this example, the letter *b*:

- Lock the [SHIFT] key ‘on’. The shift-state indicator icon in the taskbar represents the [SHIFT] key in yellow with a black frame around it to indicate that this key is locked ‘on’.
- Press numeric key [2] **twice** to display the letter *b*.

To choose the **third** letter in the sequence – in this example, the letter *c*:

- Lock the [SHIFT] key ‘on’.
- Press numeric key [2] **three times** to display the letter *c*.



Note: *Keep in mind that there is a time-out if you pause for one second between key presses when selecting the second, third or fourth letters on a key. For example, suppose you want to type the letter ‘c’ – you would need to press the [2] key three times. With the [SYM] key locked ‘on’, if you press [2] twice and then pause between key presses for 1 second, the letter ‘b’ will be selected automatically.*

3.3.5.2 Creating Uppercase Letters

To display capital letters.

- Lock the [SHIFT] key ‘on’.

All alpha keys are displayed in uppercase until you press the [SHIFT] key again to ‘unlock’ (switch off) the function of this key.

3.3.5.3 Choosing Multiple Alpha Characters

- Lock the [SHIFT] key 'on'.

Each time you press a numeric key from [2] through [9], an alpha character will be displayed on the screen. Remember that you can refer to the shift-state indicator icon in the taskbar for a visual indication of which alpha key will be displayed on the screen.



Important: *Once you have finished typing alpha characters, remember to turn off or unlock the [SHIFT] key. Check the shift-state indicator icon (refer to Figure 3.5 Shift-State Indicator Icon – Locked/Unlocked Modifier Key on page 36) to make certain that the key is turned off.*

3.3.6 The Keypad Backlight

The intensity of the keypad backlight can be configured using the *Backlight* icon accessed by tapping on *Start>Settings>System>Backlight*. Refer to “Backlight – Screen and Keypad” on page 136 for details about this option.

3.4 The Display

EP10s are equipped with display backlighting to improve character visibility in low light conditions. The backlight switches on when a key is pressed or the screen is tapped.

3.4.1 Setting the Backlight Intensity & Duration

To set the backlight intensity and the duration of time that the backlight will remain on, you'll need to choose the *Backlight* icon.

- Tap on **Start>Settings** and then, tap on **System>Backlight** icon.

Refer to “Backlight – Screen and Keypad” on page 136 for details.

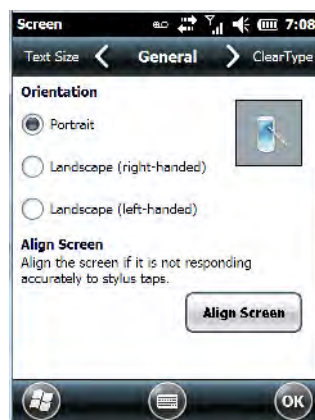
3.4.2 Aligning (Calibrating) the Touchscreen

If your touchscreen has never been aligned (calibrated) or if you find that the stylus pointer is not accurate when you tap on an item, follow the steps below.

- Tap on **Start>Settings>System**. Tap on the **Screen** icon.



The *General* tab is displayed in which you can correct alignment and choose screen orientation (see “Screen Orientation” on page 40 for details).



- Tap on the **Align Screen** button, and follow the directions on the screen to align (calibrate) the screen.



Note: This window provides two additional tabs: ClearType and Text Size. Tapping on the ClearType tab allows you to enable the ClearType option to smooth screen font appearance. The Text Size tab allows you to increase or decrease the size of the font displayed on the screen.

3.4.3 Screen Orientation

In addition to screen calibration, the Screen icon allows you to determine how your screen will be oriented - portrait or landscape (right- or left-handed).

- Tap on **Start>Settings>System** tab.
- Tap on the **Screen** icon.
- In the **General** tab, tap on the orientation that best suits the way in which you use your EP10.



Note: For information about screen rotation, refer to "Screen Rotation" on page 168.

3.4.4 Locking the Touchscreen

If you need to lock your touchscreen to protect against accidental actions:

- From the *Today* screen, tap on the **Start** icon.
- Tap on the **Lock icon** in the taskbar at the bottom of the screen. A sliding lock is displayed on the screen.



- Tap and hold the stylus on the sliding lock, flick it to the right and release to unlock the touchscreen and display the screen options. You can also tap on the sliding lock.

3.5 EP10 Indicators

The EP10 uses LEDs (Light Emitting Diodes), onscreen messages and audio tones to indicate the various conditions of the EP10, the batteries, the scans and so on.

3.5.1 LEDs

Three LEDs are located on the upper-right side of the EP10, just above the display. When you press the **Power** button, the LED flashes yellow to indicate that the EP10 has been powered up. The LED table following outlines the behaviour of the LED while the EP10 is docked in a charger.

Keep in mind that the application running on the EP10 can dictate how the application LED operates. Review the documentation provided with your application to determine LED behaviour.

Table 3.1 Function of EP10 LEDs

LED	Function
Green Charge LED (left-most LED)	Charge indicator. See the table below for descriptions of Charge LED behaviour.
Yellow Application LED (centre LED)	Application LED. The behaviour of this LED is application dependent.
Blue Radio Power LED (right-most LED)	Radio power indicator.

If the EP10 is attached to an external power supply, the charge LED (the left-most LED) reflects the battery charge status.

Table 3.2 EP10 Charge LED Behaviour

Charging Status	LED Colour	LED Flash Rate	Duty Cycle
No external power detected.	Not applicable	OFF	Not applicable
Battery charge complete.	GREEN	Solid ON	Continuous
Battery charging normally.	GREEN	Slow	Regular
Battery not charging because battery temperature is outside the allowable range: 0° C to 40° C, 32° to 104° F.	YELLOW	Normal	Regular
Battery charge failure. Unable to read battery or non Psion battery.	RED	Solid ON	Continuous



Note: When the Power button is pressed, the yellow LED will flash to let you know that the hand-held is powered up. At this point, you can go ahead and release the Power button.

3.6 Audio Indicators

The audio speaker provides a variety of sounds 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. To specify how you want your EP10 to respond under various conditions, refer to "Sounds Tab" on page 107.

3.6.1 Vibration Settings

You can set the EP10 to *Vibrate* or *Vibrate and Ring* when you receive an incoming phone call. Refer to "Notifications Tab" on page 107 for details about choosing *Events* and *Ring types*.

3.6.2 Adjusting Speaker Volume

The *Volume* button is located on the left side of the EP10, just above the *Scan* button. It is a rocker button; pressing the top half of the button increases volume while pressing the bottom half of the button decreases it.

3.7 Monitoring the Battery and Maximizing Run Time



Note: When the battery is at 50% capacity, a 'low battery' warning is displayed. When the battery is at about 10% capacity, a 'very low battery' notification bubble appears.

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 EP10 at temperature extremes will shorten the battery life. Lithium-Ion batteries do not require conditioning cycles and the EP10 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 a large drain on the battery. Try to keep its brightness as low as possible.
- The EP10 is 'event' driven - that is, when it is not in use, the EP10 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 EP10 to sleep as much as possible.
- The battery is a 'smart battery' with built-in intelligence.

Tapping on the *Start>Settings>Power* icon displays a dialog box that provides detailed information about the battery status of the battery installed in your EP10.

- When the EP10 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 EP10 is left in suspend state for more than a week - for long-term storage, 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' Lithium-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 EP10 before performing data uploads.*

The desktop docking station and quad docking station are typically used to upload transaction data to a server computer when a radio link is not available.



Note: Refer to "Chargers and Docking Stations" on page 182 for more details.

The desktop docking station can complete batch uploads to a Client USB connected PC or server.

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 an EP10 is inserted in a docking station, a dock icon is displayed in the navigation bar at the top of the screen. The EP10 also detects the presence of the Ethernet network.

3.9 Bluetooth Radio



Note: Integrated Bluetooth radios are standard on EP10 units. Keep in mind also that Bluetooth is available simultaneously with WAN and 802.11g on a single EP10.

The EP10 is equipped with an on-board *Bluetooth* radio. This type of radio enables short range data communication between devices. The *Bluetooth* radio also provides the capability to use a *Bluetooth*-enabled cellular phone as a data modem, exchanging information with other *Bluetooth* devices. Refer to "Connecting Using a Bluetooth GPRS Phone" on page 115 for setup details.

3.9.1 Pairing a Bluetooth Headset

Before pairing a headset or any other *Bluetooth* device with your EP10, make certain that the *Bluetooth* device power is enabled; it is *enabled* by default. If, for some reason, it has been disabled:

- Tap on **Start>Settings>Connections** icon and then, tap on the **Wireless Manager** icon.
- If the **Bluetooth** option is listed as *Off*, tap on **Bluetooth** to turn the radio on.



*Note: There is another route to enabling your Bluetooth radio - tap on **Start>Settings>Connections>Bluetooth** icon. In the scrolling tab bar at the top of the screen, display the **Mode tab**, and select **Turn on Bluetooth**. Tap **OK**. Note that if you want your EP10 to be visible to other Bluetooth devices, tap on **Discoverable**.*

- Turn your headset on and place it within a few feet of your EP10.
- Set your headset to visible so that the EP10 can detect it and establish a connection.

Follow the headset manufacturer's instructions to place the headset in pairing mode.

- Tap on **Start>Settings>Connections>Bluetooth** icon.
- In the *Device* tab, tap on the **Scan** button. Wait for the EP10 to scan for devices.
- Tap on the **headset device** in the list.
- In the pop-up menu, choose **Pair**.

If the headset has authentication enabled, the EP10 then prompts you to provide a passcode.

- Type the **passcode** (or PIN - Personal Identification Number), and then tap on **Next**.

The EP10 then displays a list of services. Choose the **Hands-free** service. (If you are attempting to pair another device, choose it from this list.)



*Note: If you are using an A2DP headset, this will appear in the list as **Wireless Stereo**. **Hands-free** is designed for phone conversations and **Wireless Stereo** is designed for stereo-quality music streaming. Both can be enabled on your headset (if offered).*

- Once you've completed your selection, tap on **OK**. The headset is now paired.

3.10 Inserting the microSD and SIM Card



Note: If the EP10 is equipped with a CDMA radio, only a microSD slot is available. A SIM card slot is not present.

There are two card holders available in the battery compartment of the EP10 - the lower holder is provided for a microSD (micro Secure Digital) card and the upper holder is for a SIM (Subscriber Identity Module) card. The microSD cards provide additional non-volatile memory to your EP10. SIM cards provide access to the voice option, the Internet, and so on.

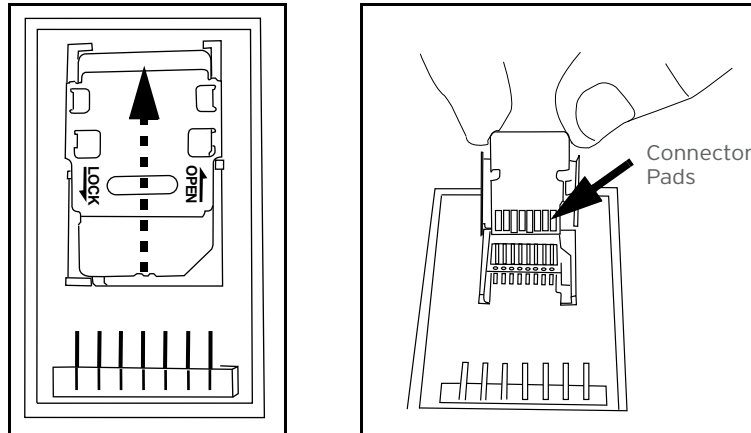
3.10.1 Inserting the Cards

- Press and release the **Power** button to turn the unit off.
- To access the card slots, slide the battery latch to the right to unlock the battery, and remove it.

EP10 Equipped with a CDMA Radio

Keep in mind that only a microSD slot is available if a CDMA radio is installed in the unit.

- Slide the card door up to unlock it. Flip it open.
- Slide the microSD card onto the guides on the SD door - position the card with the connector pads at the bottom so that when the door is closed, they make contact with the connectors on the unit.
- Close the card door, and slide it down to lock it in place.

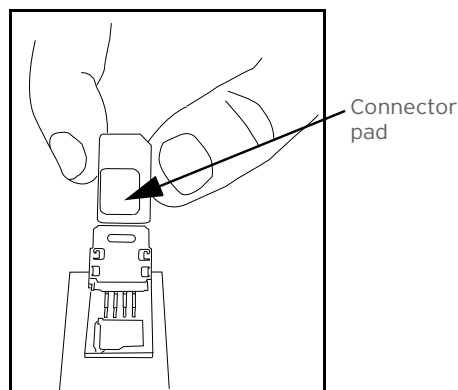


EP10 Equipped with an UMTS Radio

Both a SIM card slot and a microSD slot are present if the unit is equipped with a UMTS radio.

To insert the **SIM** card:

- Slide the card door up to unlock it. Flip it open.
- Slide the SIM card onto the guides on the SIM card door - position the card with the connector pad visible so that when the door is closed, the connector pad makes contact with the connectors on the unit.



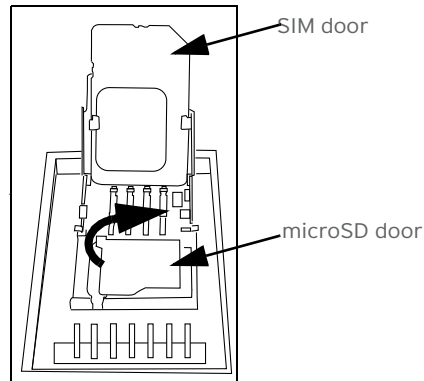
Important: The SIM card door must remain open to insert the microSD card.

To insert the **microSD** card:

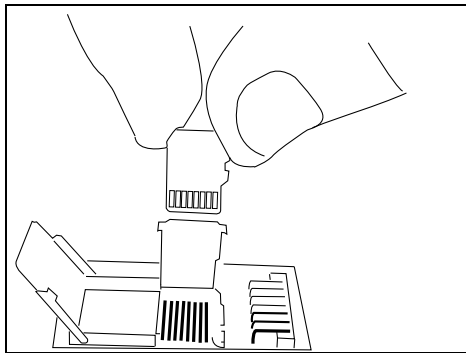
- Flip up the **left** side of the microSD door. Note that this door is hinged on the right.



Note: A label in the shape of a microSD card is affixed to the card door. Don't mistake the label for an actual microSD card.



- Slide the microSD card onto the guides on the card door with the connector pads at the bottom.



- Gently snap the microSD door closed.
- Close the SIM card door, and slide it down to lock it in place.

3.11 The Camera

A built-in digital camera is available for the EP10. This option allows you snap still photographs or create short video clips. The *Pictures & Videos* applet is used to access and configure the camera. For more details about the camera, refer to "Using the Camera" on page 75.

3.12 General Maintenance

3.12.1 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:

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

If the touchscreen is used in harsh environments, consider applying a disposable screen protector (model number ST6112). 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.

3.12.2 Cleaning the EP10



Important: *Do not immerse the EP10 in water. Dampen a soft cloth with mild detergent to wipe the unit clean.*

- Use only mild detergent or soapy water to clean the EP10 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 or touchscreen, use isopropyl alcohol.

4

USING WINDOWS EMBEDDED 6.5

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4.1 Navigating in Windows Embedded 6.5 and Applications

Graphic user interfaces like Windows Embedded 6.5 for portable devices or desktop Windows (2000, XP, etc.) utilize 'point and click' navigation. On the EP10, this is accomplished using a touchscreen and stylus rather than a mouse.

4.1.1 Navigating using the Touchscreen and Stylus



Note: If the touchscreen is not registering your screen taps accurately, it may need recalibration. Refer to "Aligning (Calibrating) the Touchscreen" on page 39.

A touchscreen is a standard feature on all EP10s. Each is equipped with a stylus - a pointing tool - stored in a slot at the top-right of the unit.

- Use the stylus to tap on the appropriate icon to open files and folders, launch applications and programs, make selections, and so on. You can also use your finger rather than the stylus.
- Tap and flick the stylus or your finger on the screen to scroll through the options on a screen.
- Tap on the navigation bar to display additional icons.

4.2 The Today Screen

The *Today* screen provides quick access to a default list of applets such as phone, voicemail, and so on. This screen is also equipped with a navigation bar along the top of the screen which provides access to hotkeys. Hotkeys act as shortcuts to apps. Along the bottom of the screen, a softkey bar contains softkeys that help you navigate - in particular, the *Start* button which provides access to everything else you'll need to work with Windows Embedded 6.5.



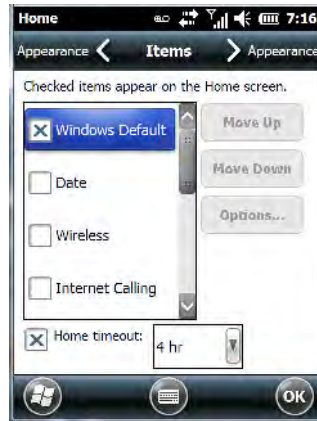
- Use the stylus or your finger to scroll to and highlight the option you want to work with. The highlighted option displays information specific to the applet. For example, highlighting the *Calendar* option lets you know if there are any appointments.
- Tap on any highlighted option to display the associated dialog box. Note that you can also double-tap on any option to display the dialog box.

Depending on which option you tap on, the softkeys at the bottom of the screen change to help support working with the particular option you've chosen.

4.2.1 Customizing the Today Screen

The items you see in the *Today* screen are *Windows* defaults. To customize the screen to suit your purposes:

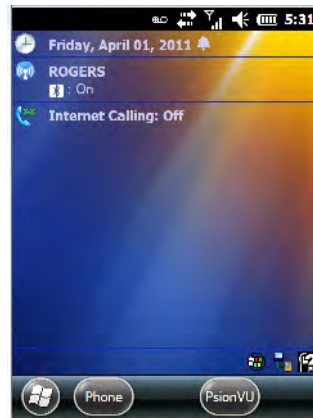
- Tap on the **Start** button. Tap on the **Settings** icon followed by the **Home** icon.
- In the scrolling tab bar at the top of the screen, scroll to **Items**.



The items you select will appear in the *Today* screen. Once you've chosen the items to appear on the *Today* screen, you can also tailor the order in which you want the items to appear:

- Highlight an **item**. Tap on the **Move Up** and **Move Down** buttons to order your selections.

When you choose items for the *Today* screen using this method, the appearance of the *Today* screen will change to a list format.



4.2.2 The Today Screen Default Options

A list of options are available from the *Today* screen. Keep in mind that these can be altered using the method described above in "Customizing the Today Screen" on page 49. You can also refer to "Shell Settings" on page 154 for additional customization options.

4.2.2.1 Pictures

This option provides access to the *Pictures & Videos* applet. Refer to "Pictures & Videos" on page 74 for details.

4.2.2.2 Music

Tapping on the *Music* option displays the Windows Media applet. Refer to "Windows Media" on page 78 for details.

4.2.2.3 Phone

- Scroll to and highlight the **Phone** option to learn if you've missed any calls.
- Tap the stylus on the highlighted **Phone** option to display the phone console.

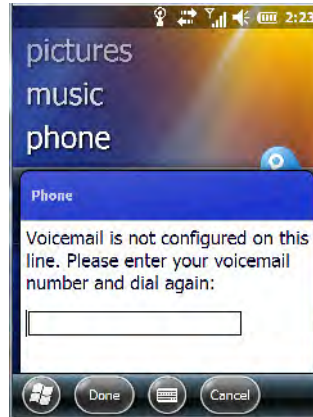
Refer to "The Phone" on page 37 for details about using the phone.

4.2.2.4 Voicemail

Highlighting *Voicemail* lets you know if you have any new voice messages. Tapping the stylus on this option displays the phone console so that you can dial the phone number to access your voice messages.

If your service supports voicemail but it has not been set up:

- Tap on **Voicemail** in the *Today* screen.



- Type your **voicemail number**.

4.2.2.5 Time, Date and Alarms

Highlighting the *Time* option displays the current time and date. Tapping on this option displays the *Clock & Alarms* dialog box.

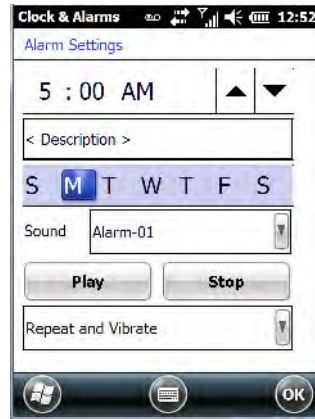
- Tap on the **Alarm hotkey**, or in the *Today* screen, tap on **today's time**. The *Clock & Alarms* screen is displayed.



Setting the Alarm

You can set a maximum of three alarms.

- Tap on the **Time** or **Day** in the *Clock & Alarms* screen. An *Alarm Settings* screen is displayed.

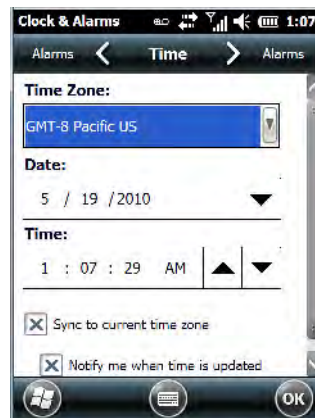


- To set the time, **highlight** the **hours** and then the **minutes** in the clock and use the arrow keys to increase or decrease the numbers, or type the hours and minutes directly from the keyboard or soft keyboard.
- Type a description in the *Description* field.
- Tap on the **day** on which you want the alarm to go off - **Sunday** through **Saturday**.
- Next, choose the **Sound** - you can tap on the *Play* button to experiment with the sounds. You can also choose *No Sound*.
- In the drop-down menu below the *Play* button, you can choose how the alarm will behave, whether or not it will repeat and so on.
- Tap on **OK** to save your changes.

Setting the Time and Date

To set the time on the EP10:

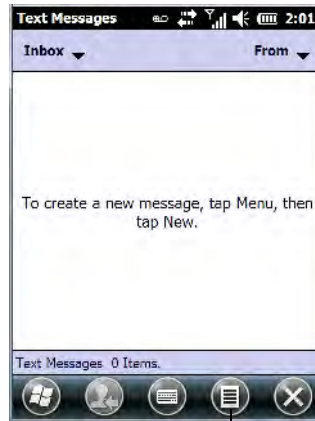
- Tap in the scrolling tab bar at the top of the screen to display the **Time** tab.



- Choose the appropriate **Time Zone**, set the **Date**, and the current **Time**.

4.2.2.6 Text Messages

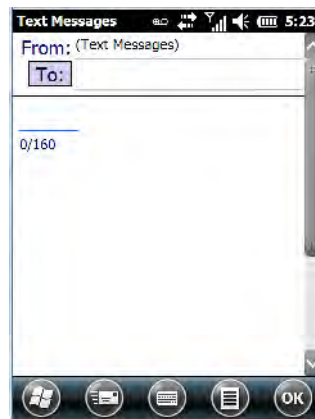
Highlighting *Text* lets you know if you have any new text messages. Tapping the stylus on this option displays the *Text Messages* screen.



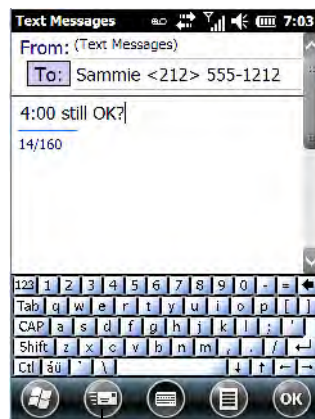
Menu softkey

To compose and send a text message on your EP10:

- Tap on the **Menu** softkey, and choose **New** from the menu.



- In the *To* field, type the **name** of the person to whom you want to send a text message, or to insert a number from your contacts list, tap on **Menu>Add Recipient**, and choose a name.
- Tap your stylus in the *message area*, and type your message.
- Tap on the **Send** icon to deliver your message.



Send softkey

Once you send the message, your message is displayed in the Inbox and a *conversation* icon is displayed in the softkey bar.



Conversation softkey

Highlighting the text message and tapping on the conversation softkey automatically connects to the sender's information so you can compose text and reply.

4.2.3 E-mail Notification

If you have any e-mail, highlighting this option lets you know if you have any unread e-mail. To view e-mail:

- Tap on the **E-mail** option in the *Today* screen, or tap on **Start>E-Mail** to launch your e-mail.



Note: Refer to "Synchronizing E-mail with Outlook (PC with Windows XP OS)" on page 129 or "Synchronizing E-mail with Outlook (PC with Windows Vista or Windows 7)" on page 132 for details about synchronizing your e-mail.

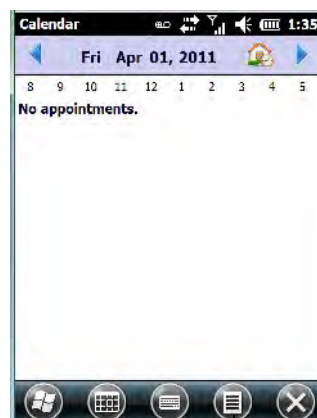
4.2.4 Calendar of Upcoming Appointments

This option is used to map out all your upcoming appointments, meetings and so on in the weeks, months and years ahead.



Note: You can synchronize the Calendar so that any meetings, appointments and so on are displayed on your EP10 Today screen as well as on your PC. Refer to "Synchronization" on page 85 for details.

- In the *Today* screen, tap on **Calendar**, or tap on **Start>Calendar** icon to display the calendar applet.

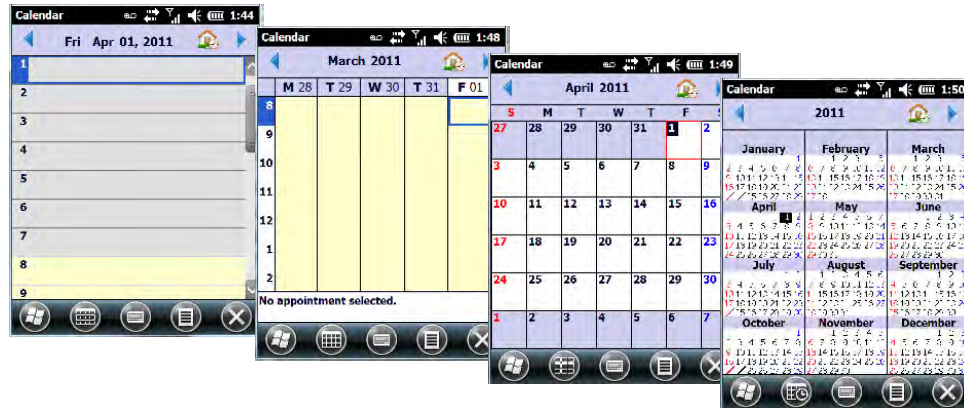


Calendar softkey

Menu softkey

The default calendar displays any scheduled appointments. To choose the format of your calendar:

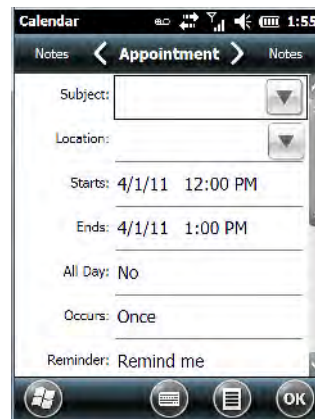
- Tap on the **Calendar** softkey - this key scrolls through the calendar formats.



4.2.4.1 Creating and Editing Appointments

- In the *Calendar* screen, tap on the **Menu** softkey in the softkey bar, and then tap on **New Appointment**.

Figure 4.1 Appointment Detail Screen

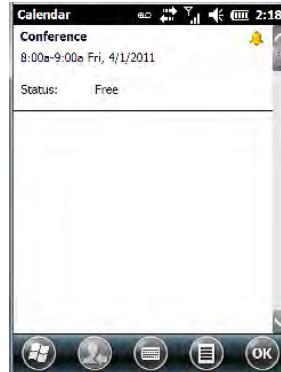


- In the *Subject* field, name the appointment.
- Complete the remaining fields to reflect your appointment details.

Adding Reminders

If you want to be reminded in advance of an appointment:

- Tap on the *Reminder* field, and choose **Remind me** from the drop-down menu.
- Tap the field below the *Reminder* field, and tap on the number in the field to display a drop-down menu where you can define a numeric value of 1, 5, 10, 15, 30. Tap on **minute(s)** to display a drop-down menu from which you can choose the time unit for your reminder - minute(s), hour(s), day(s) or week(s).
- Tap **OK** to finish. You are returned to the view you were in before adding the reminder.
- Tap the appointment in the **Calendar** screen to display it in a *summary* screen. The reminder is indicated by the small, bell icon.
- If you've no further additions for the appointment, tap on **OK**. Otherwise, move to the *Categories* section following.

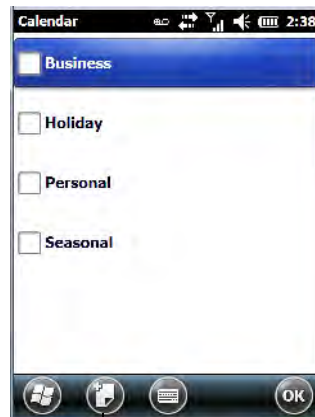


Using Categories

Categories help you organize and track the different types of data you keep on your EP10.

To assign an appointment to a category:

- Tap on the **Menu** softkey, and choose **Edit**. The *Appointment* tab is displayed.
- Scroll down to the **Categories** field, and tap on it to display your options.



New category softkey

- Tap in the **checkbox next to the category** to which you want to assign the appointment.
- Tap **OK**. Your appointment is assigned to the category or categories you chose.



Note: You can create a new category by tapping on the **New** softkey at the bottom of the screen.

Attendees

This option allows you to define required and optional attendees for your meeting. When you tap on this option, your contacts are displayed where you can choose attendees.

Status

Tapping on Status lists your availability - *Free, Tentative, Busy, or Out of Office*.

Sensitivity

This option allows you to indicate the nature of the appointment - *Normal, Personal, Private, or Confidential*.

4.2.4.2 Deleting Appointments

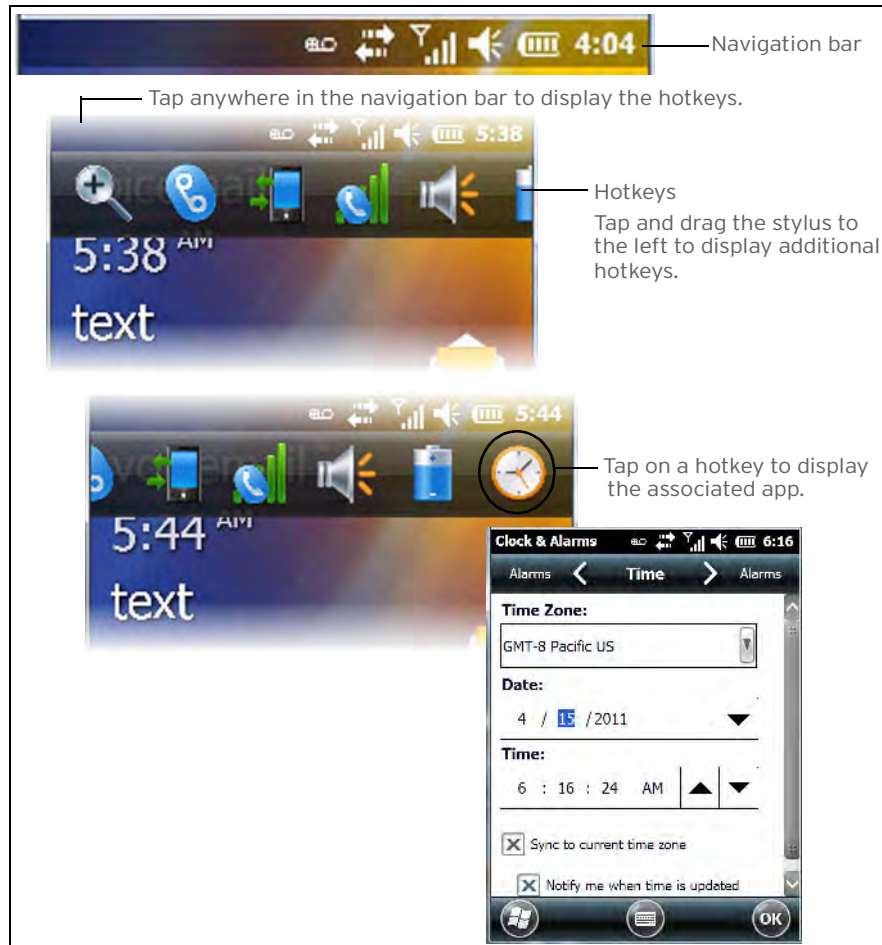
- Tap and hold the stylus on the **appointment** you want to delete.
- Tap on **Delete Appointment** in the pop-up menu.

4.2.5 Favorites

Tapping on the *Favorites* option in the *Today* screen connects you to internet favourites. If you tap and drag your stylus on this option, you can choose *Add/Remove* to edit your list of favourites.

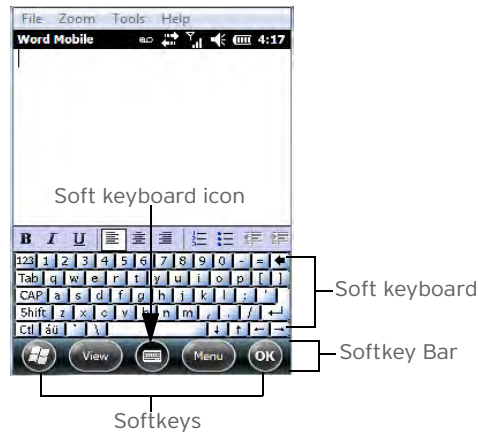
4.3 Using the Navigation Bar and Hotkeys

The *navigation bar* along the top of the *Today* screen provides access to icons or hotkeys that, when tapped, provide shortcuts to associated apps.



4.4 The Softkey Bar

The EP10 is equipped with a *softkey bar* at the bottom of the screen. It displays *softkeys* that allow you to access menus and commands. Note that the softkeys change to reflect the program with which you are working. It also displays the *soft keyboard* icon.



Softkeys

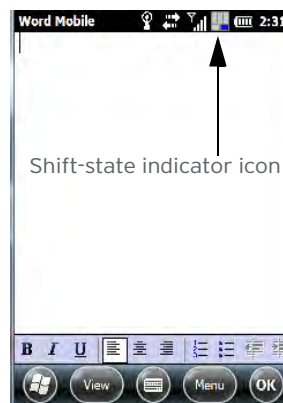
Tapping on a softkey displays information associated with the softkey - for example, in the sample screen above, the *Menu* softkey displays the commands associated with Word Mobile. The *View* softkey allows you to tailor how the Word document will be displayed.

The Soft Keyboard Icon

Tapping on the *soft keyboard* icon displays an onscreen keyboard you can use as an alternative to the EP10 keyboard.

Shift-State Indicator Icon

The softkey bar can also display the shift-state indicator icon. This icon indicates active modifier keys - [SHIFT], [ALT], [CTRL], [SYM] and [BLUE/FN].



When a modifier key is pressed, it is displayed in the *shift-state indicator* icon. In the example above, the [BLUE/FN] key was activated.

To distinguish a 'locked' modifier key - a key that has been locked 'on' - from a modifier key that is only active until the next key is pressed, 'locked' keys are encircled in a black frame in the *shift-state indicator* icon. Refer to "Activating Modifier Keys" on page 35 for details.

4.4.1 The Start Button

The *Start* button provides access to a screen of applets available on your EP10.

- Tap on the **Start** button in the lower-left corner of the *softkey bar* to display your programs.

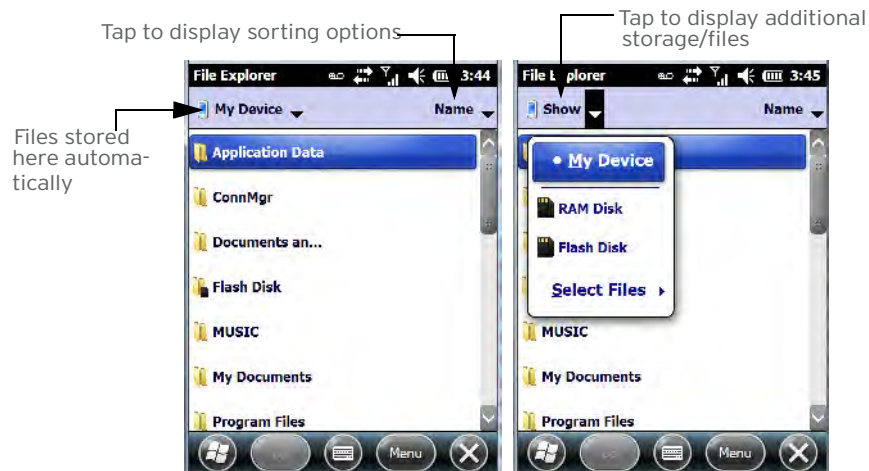
4.5 Managing Files and Folders

Windows Embedded 6.5 files are stored in folders and sub-folders that are accessible with *File Explorer*. You can open, save, rename, copy and paste files in the same manner as you would on any desktop PC.

- Tap on the **Start** button.
- Use the stylus to scroll to the **File Explorer** icon.



- Tap on the icon to display the *File Explorer* screen.



4.5.1 Creating a New Folder

- Tap **Start>File Explorer**.
- Tap the **Menu** softkey, and in the pop-up menu, choose **New Folder**.
- Use the EP10 keyboard or the soft keyboard to assign a name to the folder.

4.5.2 Renaming a File

- Press and hold the stylus on the file you want to rename. A ring of dots is displayed followed by a pop-up menu.
- Tap **Rename**. The file name is highlighted. Type a new name.

4.5.3 Copying a File

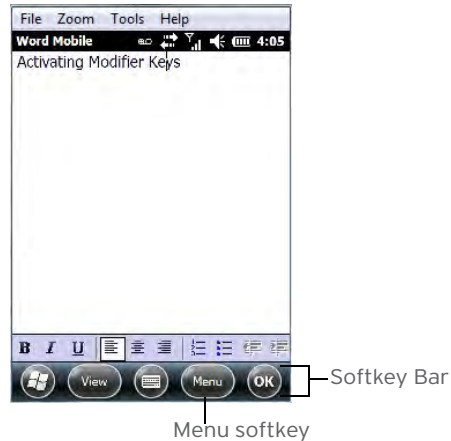
- Press and hold the stylus on the file you want to copy. A ring of dots is displayed followed by a pop-up menu.
- Tap on **Copy** in the pop-up menu.
- Navigate to the location where you want to copy the file.
- Press and hold the stylus in a blank area of the screen - away from other icons - until a pop-up menu is displayed.
- Tap **Paste** to copy the file to the new location.

4.5.4 Deleting a File

- Press and hold the stylus on the file or folder you want to delete until a pop-up menu is displayed.
- Tap **Delete** to remove the file.

4.6 Using Menus

In Windows Embedded 6.5, the menu is located in the *softkey bar* at the bottom of the screen.



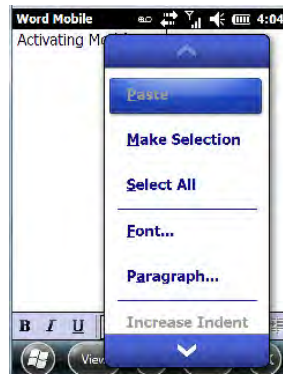
To execute a command:

- Tap on **Menu** to display the commands associated with it, and then tap on the command you want to execute.

4.6.1 Pop-Up Menu

Pop-up menus are available in many screens and programs. They offer quick access to a group of useful commands in addition to those available in the menu bar. To display a pop-up menu:

- Gently press and hold the stylus on the screen. A ring of dots is displayed on the screen followed by a pop-up menu.



- Tap on the **command** you want to execute.

4.7 Programs - Using Applications

- Tap the **Start** button in the softkey bar to display the programs installed on your EP10.

Figure 4.2 Program Icons

**Opening an Application**

- Tap on a **Program icon** to launch the associated program.

Minimizing an Application

- Tap on the **X** button in the lower-right corner of an application screen to minimize the application.



*Note: Although it looks like a Close button, this button does **not** close the application - it only minimizes it.*

Opening, Closing and Switching Applications

- Tap on **Start>Settings>System** icon. Use your stylus to scroll to the **Task Manager** icon.
- Tap on **Task Manager** to display the associated screen.

Application	Mem	CPU
ActiveSync	720K	0 %
Word Mobile	488K	0 %
Calendar	292K	0 %
Task Manager	112K	0 %

The screenshot shows the Task Manager screen with a list of running applications. The status bar at the top shows the time as 4:59. The taskbar at the bottom includes buttons for Start, End Task, Menu, and a close button (X).

The *Task Manager* screen lists all running tasks (applications). This applet provides a number of options to manage your opened applications.

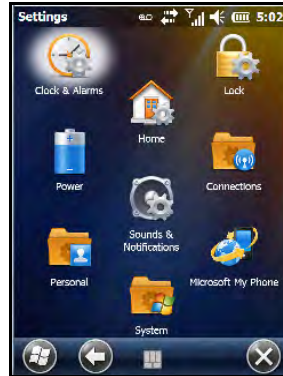
- **End Task:** To shut down an application, **highlight the program** in the list, and tap on the **End Task** softkey in the taskbar at the bottom of the screen.
- **End All Tasks:** To shut down *all* applications, tap on the **Menu** softkey, and choose **End All Tasks**.
- **Switch To:** To make an application listed in this screen active, highlight the application, and tap on **Menu>Switch To**.

For additional information about the *Task Manager*, refer to "Task Manager" on page 169.

4.8 Settings

- Tap **Start>Settings** to display the setting options for your EP10.

Figure 4.3 Settings Icons



Along with icons that provide information about your unit and allow you to adjust the appearance and behaviour of your EP10, an additional group of icons is stored in three folders - *Personal*, *System* and *Connections*. Refer to Chapter 6: "Settings" for details about the options available to you.

5

PROGRAMS

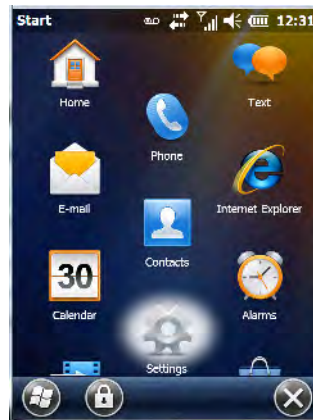
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5.1 Programs

EP10 programs are all available from the *Start* screen.

- Tap on the **Start** button in the lower-left corner of the *Today* screen to display the *Start* screen.



Tapping on an icon in this screen launches the associated applet.



Important: For details about the options contained under the 'Settings' icon, refer to Chapter 6: "Settings".

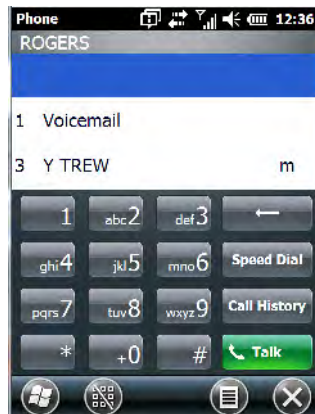
5.2 Home

Tapping on the *Home* icon in the *Start* screen displays the *Today* screen.



5.3 Phone

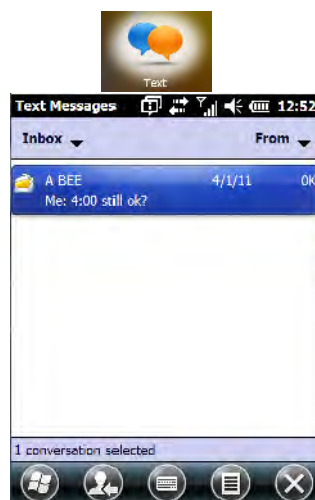
Tapping on the *Phone* item listed in the *Today* screen displays the phone keypad.



Important: For details about using the EP10 phone, refer to “The Phone” on page 18.

5.4 Text Messages

Tapping on the Text option in the Today screen displays this screen.

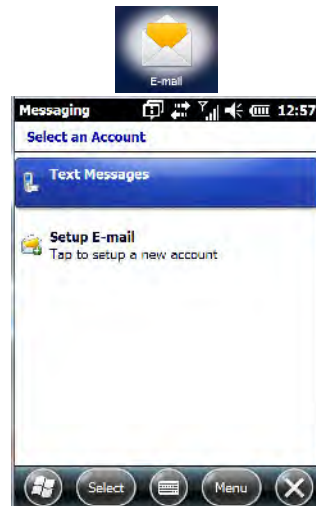


This option allows you to compose, send and receive text messages using your EP10.



Important: For details about using the Text Messages feature, refer to “Text Messages” on page 52.

5.5 E-mail



Note: If your e-mail is already synchronized, go to "Sending an E-mail" on page 70.

The *E-mail* program is used to send and receive e-mail on your EP10. It also provides access to text messages.

To send and receive e-mail, you'll need to synchronize your PC or connect to a Post Office Protocol 3 (POP3) or Internet Message Access Protocol 4 (IMAP4) mail server.

For each of these methods, you need to set up an e-mail account with one exception - Outlook e-mail accounts are set up by default.

5.5.1 Folders

If you use an Outlook e-mail account, messages in the Inbox folder in Outlook are automatically synchronized with your EP10. You can use ActiveSync on your PC to synchronize additional folders. The folders and messages you move are mirrored on the server.

For POP3 accounts, if you move e-mail messages to a folder you create, the link between the messages on the EP10 and the copies on the mail server are broken. When you next connect, the mail server will recognize that the messages are missing from the EP10 Inbox folder and delete them from the server, preventing duplication of messages. Keep in mind however that you will not have further access to messages that you moved to folders from anywhere except with the EP10.

For IMAP4 accounts, the folders you create and the messages you move are reflected on the server, making messages available any time whether you connect to your mail server from your EP10 or your PC.

5.5.2 Synchronizing E-mail with Outlook (PC with Windows XP OS)



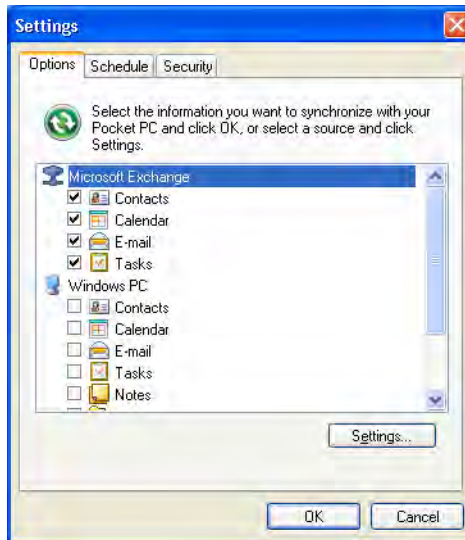
Important: *For PCs running Windows Vista or Windows 7, follow the guidelines under "Synchronizing E-mail with Outlook (PC with Windows Vista or Windows 7)" on page 69.*

By synchronizing the EP10 *E-mail* program with Outlook on your PC, your e-mail is available on both the EP10 and on your PC.



Note: Synchronizing e-mail does not require that the EP10 have an independent connection to the Internet.

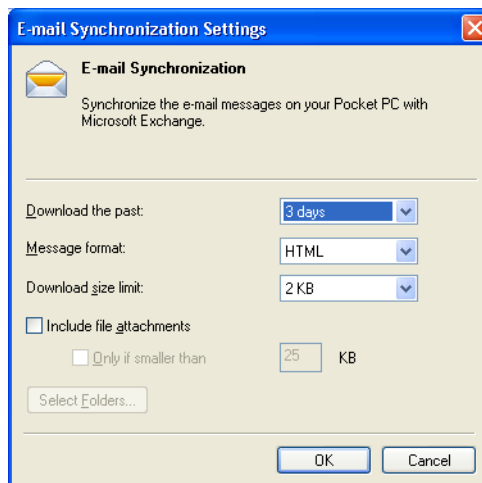
- In *ActiveSync* on your PC, tap on **Tools>Options** in the tool bar at the top of the screen.



- Make certain that a check mark is displayed in the checkbox next to *E-mail*. Tap on **OK**.
Once you check *E-mail* for synchronization, Outlook e-mail messages are synchronized as part of the general synchronization process. The next time you synchronize with ActiveSync, the e-mail in Outlook on your PC will be transferred to the Messaging program on your EP10.

5.5.2.1 Changing Synchronization Settings

- In *ActiveSync* on your PC, double-tap the **E-mail** item in the *Sync Options* tab.



- Tap on the **Select Folder** button.



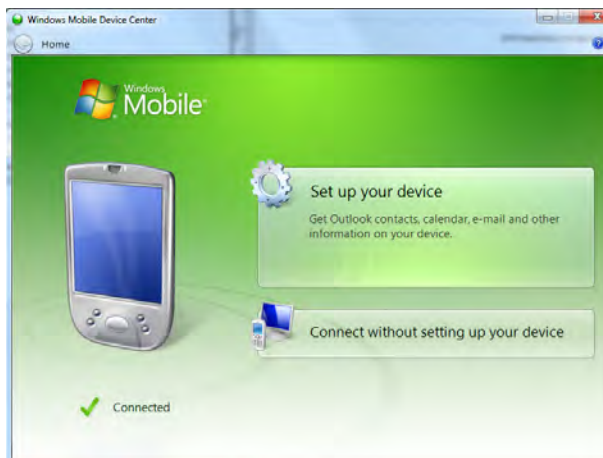
- Add a check mark next to the folders in this screen that you want to synchronize with your EP10, and tap on OK.

The *E-mail Synchronization* screen is displayed again.

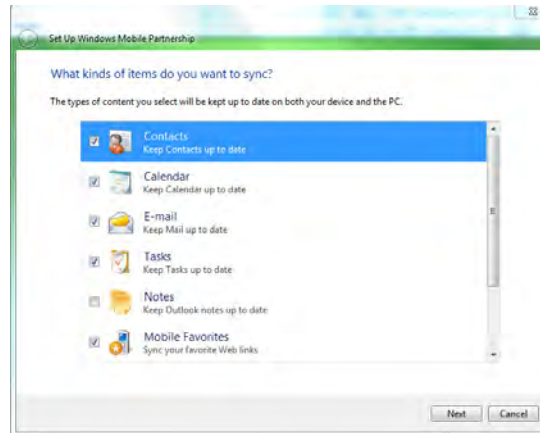
- If you want to accept file attachments, add a check mark next to *Include file attachments*. To limit the size, tap on *Only if smaller than*, and specify a size in the KB box.
- Tap on **OK**.

5.5.3 Synchronizing E-mail with Outlook (PC with Windows Vista or Windows 7)

PCs running Windows Vista or Windows 7 use *Windows Mobile Device Center* in place of ActiveSync.



- In the *Windows Mobile Device Center*, tap on **Set up your device**.



- Make certain that a check mark is displayed in the checkbox next to *E-mail*. Tap on **Next**.



Note: If an Exchange Server is detected, a screen is displayed where you can enter the Server address, your user name and so on, and sync the EP10 with the Exchange Server directly over a cellular or wireless network when you are not connected to your PC. This is an optional step that you can skip.

- Tap on **Skip** and then tap on **Setup**.

When *E-mail* is checked for synchronization, Outlook e-mail messages are synchronized as part of the general synchronization process. The next time you synchronize with Windows Mobile Center, the e-mail in Outlook on your PC will be transferred to the Messaging program on your EP10.

5.5.4 Sending an E-mail

E-mail messages are stored in the Outbox folder and are sent to recipients the next time you sync or connect to your e-mail server to send and receive mail.

- Tap on **Start>E-mail**.
- Choose the e-mail account you want to use.
- Tap on **Menu>New**.
- In the *To*, *Cc*, or *Bcc* fields, enter an **e-mail address**.

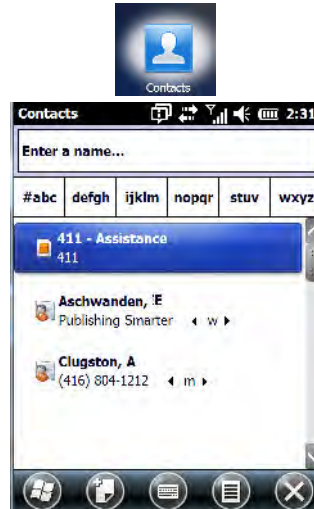
Keep in mind that you can also use your *Contacts* to choose an e-mail recipient provided an e-mail address is associated with the contact.

- Tap **Menu>Add Recipient**, and then choose a **contact** from the list.
- If you're sending an email to *multiple* people, use a **semicolon (;)** between addresses.

5.6 Contacts

Contacts are available with your e-mail, text messages, voice messages and your phone.

- Tap on **Start>Contacts** to display your contacts.

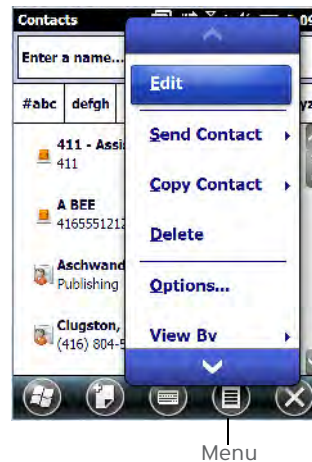


5.6.1 Working with the Contacts List

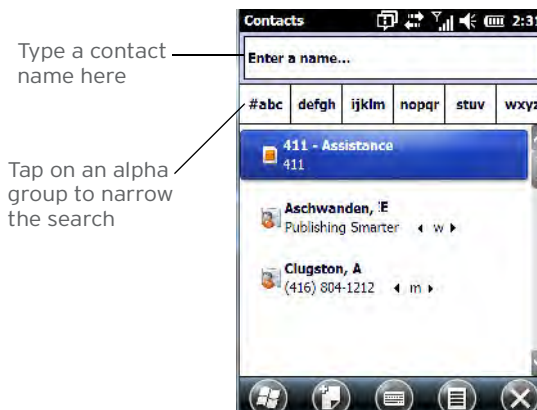
The *Contacts* screen allows you to work with existing entries, search for a particular contact and create new entries.

Contact Menu Commands

A *Menu* softkey at the bottom of the screen provides additional commands that allow you to work with the contacts in this list.



Searching for a Contact



To search for a particular entry:

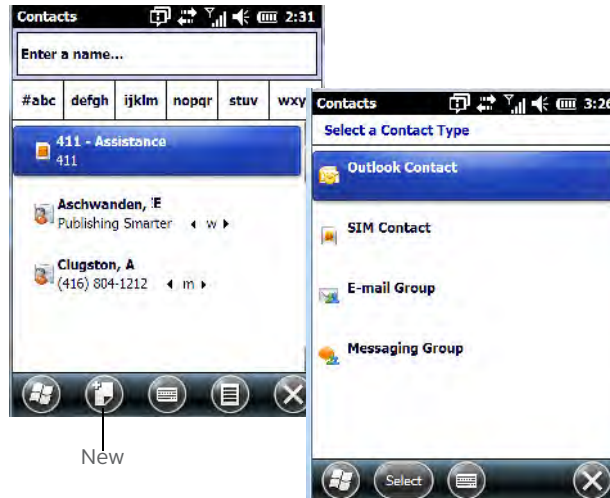
- Tap on the **Enter a name ...** field, and type the name you are searching for in the Contacts list.
- To narrow your search to names beginning with a particular letter, tap on the appropriate alpha character grouping.

5.6.2 Communicate Tab - Adding Contacts

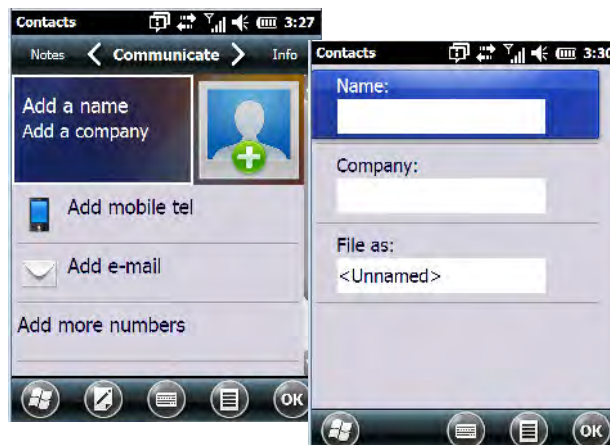
Adding a New Contact

The **New** softkey located to the right of the *Start* softkey allows you to add additional entries to your contacts list.

- Tap on the **New** softkey.

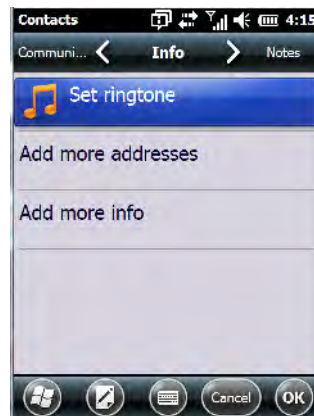


- Choose the **contact type** to which you want to add an entry.
- In the *Communicate* screen, tap on each of the options you want to complete for the new contact you are creating. Each item you tap on in this screen produces an associated pop-up screen in which you can enter the appropriate information. For example, in the sample screen following, tapping on *Add a name* displays an associated screen for you to complete.



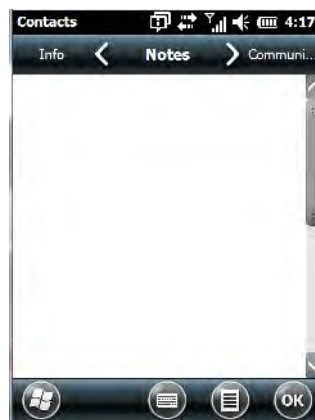
- When you've completed the information for the contact entry, tap on **OK**. The new contact is displayed in the *Contacts* list.

5.6.3 Info Tab



This tab allows you define a ring tone for a particular contact. You can also add additional addresses related to your contact (work and home), and information about your contact such as a job title, office location and fax number.

5.6.3.1 Notes Tab



This screen allows you to enter useful information about your contact.

5.7 Internet Explorer

You can connect to *Internet Explorer* in two ways: by connecting the EP10 directly to the Internet or by connecting through your PC (see "ActiveSync®" on page 85).

5.7.1 Browsing Web Sites

There is little difference between the standard Internet Explorer found on your PC and that found on your EP10, sometimes referred to as *Pocket Internet Explorer*. You can enter URLs, set a 'home page', turn images on and off, e-mail links to friends, and so on.

To go to a web site:

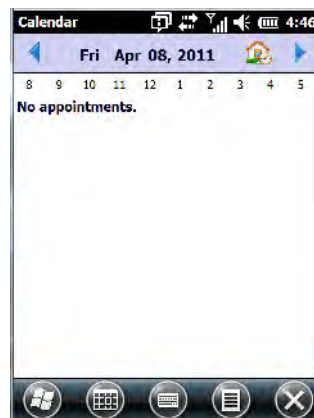
- Connect your EP10 to the Internet. (If you're not certain how to do this, refer to "Connections - Connecting to the Internet" on page 116).
- Tap on **Start>Internet Explorer** to open *Internet Explorer*.
- Tap on the address bar - the field near the top of the screen where URLs are entered - to highlight the current URL.
- Type a new URL in the address bar.

Tapping on the *softkeys* in the softkey bar at the bottom of the screen displays *Internet Explorer* commands like those you find on your PC.



5.8 Calendar

This option is used to map out all your upcoming appointments, meetings and so on in the weeks, months and years ahead.



Important: Refer to “Calendar of Upcoming Appointments” on page 54 for details about this feature.

5.9 Alarms

Refer to “Time, Date and Alarms” on page 51 for details about this applet.

5.10 Pictures & Videos

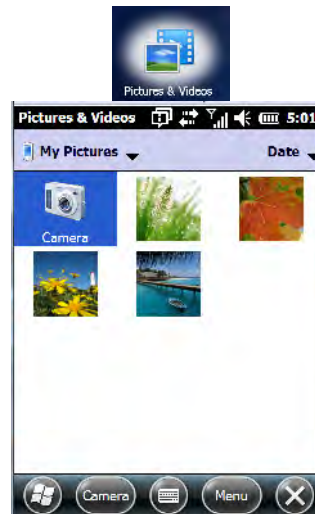
The *Pictures & Videos* applet allows you to snap photographs and record video footage. It is also a photo and video viewing program.



Important: The *Pictures & Videos* program can only display .bmp or .jpg formats. Photos in other formats will need to be converted on your PC before they are transferred to the EP10.

5.10.1 Using the Camera

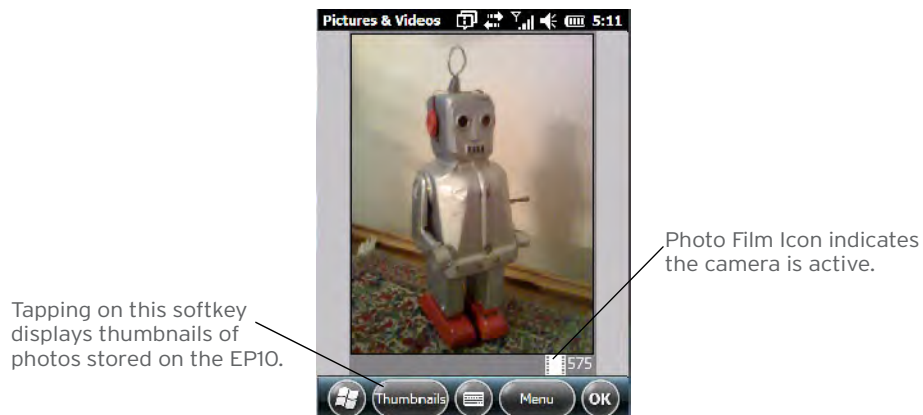
- Tap on **Start>Pictures & Videos**.



Keep in mind that if there are no pictures stored on your EP10 as yet, you'll only see the *Camera* icon in this screen.

- Tap on the **Camera icon** to activate the camera.

The screen will display the image your camera is pointed at. (The camera is built into the back of the EP10.)



- Frame the image in the EP10 screen. Press **[ENTER]** to snap the photograph.

Photo Menu

When the camera is activated, tapping on *Menu* displays a set of commands to help you modify how your camera operates, the quality of the photos it takes, and so on. You can also use this menu to activate the video recorder rather than the still camera.



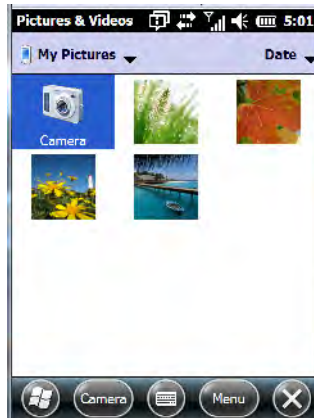
Note: 'Video' is a toggle command. When the 'Still' camera is activated, 'Video' is available in this menu. When the video recorder is activated, 'Still' (camera) is available in this menu.

5.10.2 Moving Photos to the EP10

- Connect your device to your PC with ActiveSync.
- Locate the pictures on your PC, and drag photos from their folder to the *Mobile Device* (EP10). The EP10 can be found under *Computer* (*My Computer* on PCs running Windows XP).

5.10.3 Opening a Photo

- To open a photo, tap on **Start>Pictures & Videos**. You'll see a thumbnail of your photos.
- Tap on a thumbnail to open the photo.



Note: If you've stored your photos on a storage card, you'll need to tap on the storage card icon to display your photos.

5.10.4 Deleting a Photo

- Press and hold the stylus on the thumbnail photo you want to delete to display a pop-up menu. Tap on **Delete**.
- Confirm your choice when prompted.

5.10.5 Editing a Photo

- Tap on a thumbnail photo to open it.
- Tap on **Menu>Edit**.

The *Rotate* command is now displayed in the softkey bar. Additional editing tools are listed in the *Menu*.

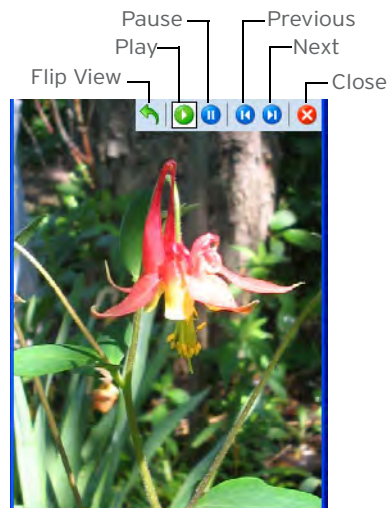
5.10.6 Creating a Slide Show

To view a slide show:

- Tap on the **Menu>Play Slide Show**.

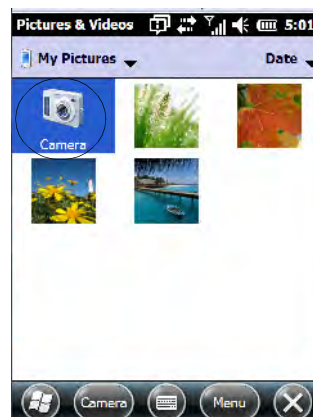
The slide show begins - in slide show mode, photos are displayed for about five seconds, one after the other.

- To display the slide show tool bar, tap anywhere on the photo.

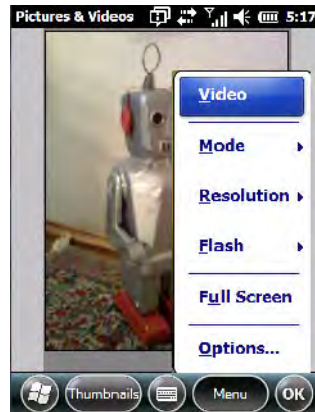


5.10.7 Using the Video Recorder

- Tap on the **Camera** icon.



- In the bottom-right corner of the *camera* screen, tap on **Menu>Video**.



- Press **[ENTER]** to begin recording.



- To end the video, press **[ENTER]** again, or tap on the **Stop** softkey.



Note: When the 'Video' recorder is activated, a Menu is available to tailor the operation of the recorder, the quality of the recording, and so on.

5.11 Windows Media

Windows Media allows you to play music and videos on your EP10. You can use *Windows Media* to play digital audio and video files that are stored on your EP10 or on the web.

- To work with this applet, tap on **Start>Windows Media**.

For details about using this applet, refer to:

<http://www.microsoft.com/windowsphone/en-us/howto/wp6/music/windows-media-player-mobile.aspx>

5.12 Messenger (Windows Live)

Windows Live Messenger is an instant messaging service. Refer to the Microsoft web site for details.



5.13 Windows Live

Windows Live is a free online service that provides operators with a free mobile phone back-up solution by wirelessly synchronizing contacts, calendar appointments, and so on with a password-protected online portal.

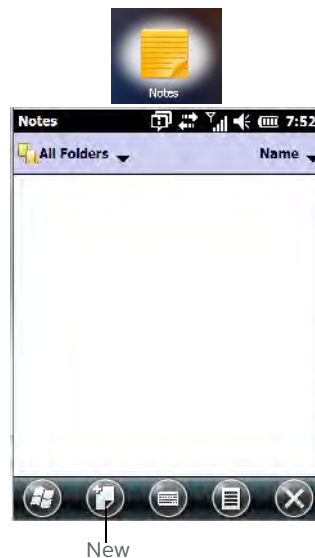
When you tap on *Windows Live* and accept the license agreement, a *Setup* screen is displayed. Follow the setup steps to set up your *Windows Live ID* so that you can begin using this service.

5.14 Notes

The *Notes* application is an electronic notepad you can use to jot down your ideas quickly. You can enter text using the *soft keyboard*, the *EP10 keyboard*, or you can create a handwritten note on the screen by using the *transcriber*. You can also *record* a message.

Notes can also be shared through e-mail and synchronization with your PC.

- Tap on **Start>Notes** to launch this application.



- Tap on the **New** softkey to display a blank note.



5.14.1 Creating a Note using the Soft Keyboard

The *soft keyboard icon* is available by default. It is a replica of a standard keyboard. Use your stylus to type letters, numbers, symbols and so on.



- When you've completed your note, tap on **OK**.
Your note is automatically saved. The file name is the first line of the note if you used the keyboard - otherwise, it's named Note1, Note2 and so on.

5.14.2 Creating and Converting Handwritten Notes to Text

To create a handwritten note using the *transcriber*:

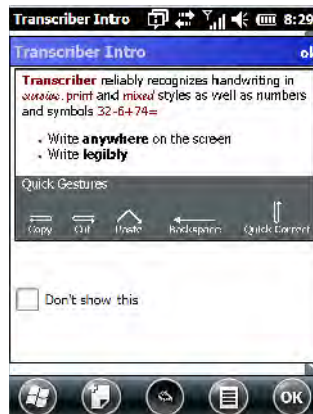
- Tap and hold the stylus on the *soft keyboard icon* to display the pop-up menu.



- Choose **Transcriber** from the menu.

When you choose *Transcriber*, you can write notes in your own handwriting. The EP10 will convert the notes into typed text for you.

A *Transcriber Intro* screen is displayed to provide information to help you work with the *Transcriber*.



When you choose *Transcriber*, the soft keyboard icon changes to an icon of a hand poised to write a note.

- At the **top** of the *Transcriber Intro* screen, tap on **OK**.
- In the blank *Note* screen, use your stylus to write a note as clearly as possible. The text in the note is converted from handwritten to printed text.



5.14.3 Renaming a Note

- Press and hold the stylus on the file name in the *Notes* screen that you want to rename. In the pop-up menu, choose **Rename/Move**.
- In the *Name* field, type the new name.



*Note: Remember that if you want to use the soft keyboard to type a new name, you'll need to tap and hold the stylus on the **Transcriber icon**, and choose **Keyboard** from the popup menu.*

You can also move the note to a new *Folder* and/or a new *Location*.

- When you've made the changes you need, tap on **OK**.

5.14.4 Recording Notes

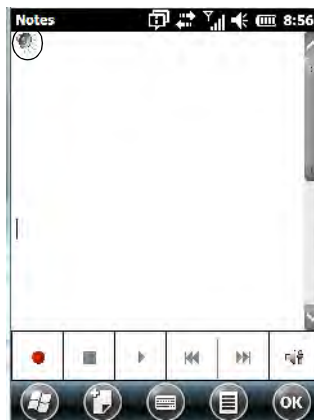
It is sometimes easier to record a note than to write it down just to make certain that you've captured an idea before it drifts away. To make an audio recording:

- Tap on the **New** softkey to open a fresh note.
- Tap on **Menu>View Recording Toolbar**.



- Tap on the **Record** button - a beep alerts you that your device is now ready to record.
- Begin speaking into the microphone on the EP10. Make certain that you move the EP10 to within a few feet of the source of the sound you want to record.
- Tap on the **Stop** button when you've completed your recording.
- Tap on **OK** to save the recorded note.

A speaker icon is displayed in the note indicating the presence of a recording within the note.



- To play the recorded note, tap on the **speaker icon**.
- Tap on **Menu**, and choose **View Recording Toolbar** again to turn off the feature.

5.15 Task Notification

Tasks lets you create lists of entries representing your responsibilities, upcoming projects, and so on. If you've assigned any tasks, this option lets you know how many active tasks you have.



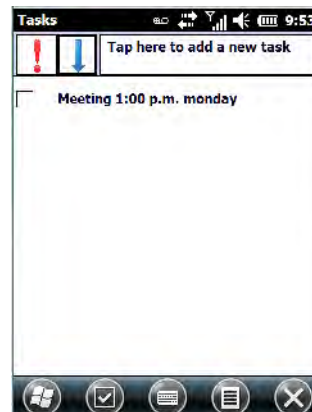
Note: You can synchronize the *Task Notification* option so that any tasks are displayed on your EP10 as well as your PC. Refer to "Synchronizing E-mail with Outlook (PC with Windows XP OS)" on page 67 and "Synchronizing E-mail with Outlook (PC with Windows Vista or Windows 7)" on page 69. Each section outlines how to synchronize options other than e-mail.

- Tap on **Start>Tasks** to display the Tasks screen.



Creating a Task

- Tap in the field labelled **Tap here to add a new task**.
- Type your task description.



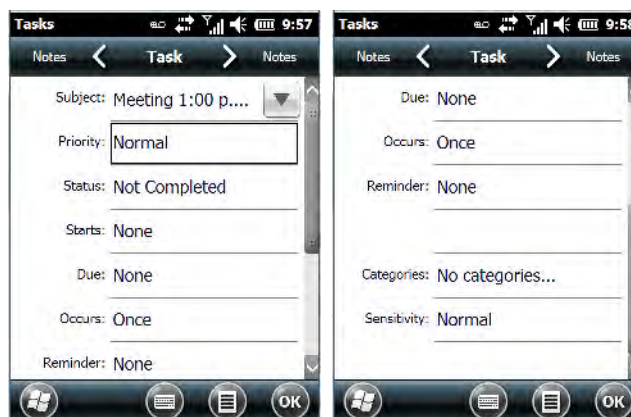
- Press **[ENTER]** to add the task to your list.



Editing a Task

- Tap on a **task** in the task list to highlight it. Tap on the **Edit** softkey in the softkey bar to display a detailed task screen where you can define task characteristics.

Figure 5.1 Task Details Screen



Each of the nine items in this screen, when tapped, displays a drop-down menu where you can choose from a list of options.

- Once you've completed all the appropriate fields, tap on **OK** to save your changes.



Note: You can also tap on the Notes tab to add additional information about the task you are defining.

Deleting a Task

- Press and hold the stylus on a task until a pop-up menu is displayed.
- Tap on **Delete Task**.

Marking a Task as Completed

- In the **Tasks** list, tap the **checkbox** next to the items that are completed.

Sorting Tasks

- Tap on the **Menu** softkey, and tap on **Sort By**.

You can choose from **Status**, **Priority**, **Subject**, **Start Date** or **Due Date**. The tasks are arranged in the list according to the criterion you chose.

Limiting the Tasks Displayed in the Task Screen

- Tap on **Menu** in the softkey bar, and tap on **Filter**.

You can choose **All Tasks**, **Recently Viewed**, **No Categories**, **Active Tasks** or **Completed Tasks**. The tasks are displayed on the screen according to the preference you chose.

5.16 File Explorer

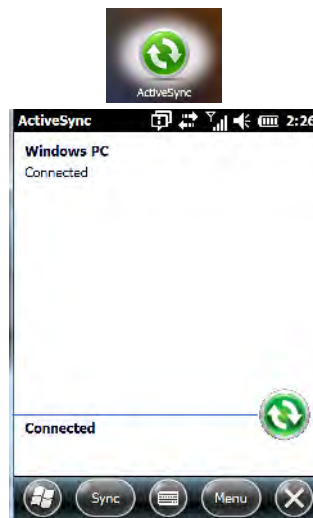
Windows Embedded 6.5 files are stored in folders and sub-folders that are accessible through *File Explorer*. You can open, save, rename, copy and paste files in the same manner as you would on any desktop PC.



Important: Refer to “Managing Files and Folders” on page 58 for details about this feature.

5.17 ActiveSync®

ActiveSync® is Microsoft PC connectivity software that can be used to connect the EP10 to PCs running this software. You can synchronize the EP10 with your PC using this utility.



By connecting the EP10 to a PC through your desktop docking station and running ActiveSync or Mobile Device Center on your PC, you can view EP10 files, drag and drop files between the EP10 and the PC, connect to the Internet, and so on.

5.17.1 Synchronization

Important: For information about using ActiveSync and Mobile Device Center on your PC, refer to “Synchronizing E-mail with Outlook (PC with Windows XP OS)” on page 67 and “Synchronizing E-mail with Outlook (PC with Windows Vista or Windows 7)” on page 69.

To download either ActiveSync or Mobile Device Center, visit the following Microsoft internet site:

<http://go.microsoft.com/fwlink/?LinkId=147001>

5.18 Internet Sharing

This option allows you to use your EP10 to connect your PC to the Internet. Before you can use *Internet Sharing*, you must make certain that you have established a data connection on your EP10.



5.18.1 Creating an Internet Connection

Follow the steps in this section only if you have not already setup an Internet connection.

You'll need the following information before you begin:

From your cellular service provider: data connectivity information, access point name and PAP/CHAP security settings.

From your Internet service provider (ISP) or wireless service provider: access point name and password and any additional security information.

For a GPRS, 1xRTT or dialup connection:

- Tap on **Start>Settings>Connections**. Tap on the **Connections** icon.
- Under *My Work Network*, tap **Add a new modem connection**.
- Type a **name** for the connection, and choose **Cellular Line (GPRS)**, or for 1xRTT connections, choose **Cellular Line**. Tap on **Next**.
- Type the **phone number** or **access point name** provided by your service provider, and tap **Next**.
- Type the **credentials** supplied by your service provider, and tap **Finish**.

5.18.2 Using Internet Sharing



Note: Make certain that your data connection is running, and that you can access the Internet from the EP10. If you are using a USB cable to connect to your PC, you will need to disable the ActiveSync USB connection.

- On your PC, open the **ActiveSync** window, and tap on **File>Connection Settings**. If you are using Windows Mobile Device Center, tap on Mobile Device Settings>Connection Settings.
- Disable **Allow USB connection** by tapping in the checkbox to the left of this option.
- Connect the EP10 to your PC using *Bluetooth* or a *USB cable*.
- On your EP10, tap **Start>Internet Sharing**.
- Choose the **PC Connection** type - USB or Bluetooth.
- Choose the **network connection** that the EP10 should use to connect to the Internet.
- Tap **Connect**. It takes approximately 30 seconds to establish a connection. (If you are prompted to turn on *Bluetooth*, tap **Yes**.)

For PC Running Windows XP or Earlier

If you are using a *Bluetooth* connection, execute the following steps *on your PC*:

- Tap **Start>Control Panel>Network Connections**.
- Right-click on **Bluetooth Network Connections**, and click on **Bluetooth Network Devices**.
- If the EP10 is listed as a *Network Access Point*, choose **Connect**. If it is not listed, choose **Create a new connection** and use the *New Connection Wizard* to add the EP10 to the list.

For PC Running Windows Vista or Windows 7

If you are using a *Bluetooth* connection, execute the following steps *on your PC*:

- Tap **Start>Control Panel>Network & Sharing Center**.
- Double-tap on **Set up a new connection or network**.
- In the *Choose a connection option* screen, double-click on **Connect to a Bluetooth personal area network (PAN)**.

A *Devices and Printers* screen is displayed.



*Note: Make certain that Bluetooth is enabled on your EP10 and that it is discoverable - on your EP10, tap on **Start>Settings>Connections**. Tap on the **Bluetooth** icon. Scroll to the **Mode** tab. If they are not already enabled, tap in the checkbox (add an 'x') next to **Turn on Bluetooth** and **Discoverable**.*

- In the top-left corner of the *Devices and Printers* screen, tap on the **Add a device** button. Your EP10 is displayed in the *Add a device* screen.
 - Double-tap on your **EP10** icon.
- You are asked to choose a pairing option - *Create a pairing code for me*, or *Enter the device's pairing code*.
- If a pairing code has been assigned to your EP10, choose **Enter the device's pairing code**, and type the **EP10 passcode** on your PC *and* on your EP10.
 - If a pairing code has not been assigned to your EP10, choose **Create a pairing code for me**, and type the **EP10 passcode** on your PC *and* on your EP10.

A message will appear on your EP10 indicating that you have successfully paired your EP10 with your PC. Your EP10 will appear in *Control Panel>Devices and Printers*.

5.19 Task Manager

The *Task Manager* screen lists all running tasks (applications) or processes. This applet provides a number of options to manage these.

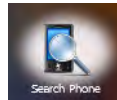


Important: For details about using the Task Manager, refer to “Task Manager” on page 169.

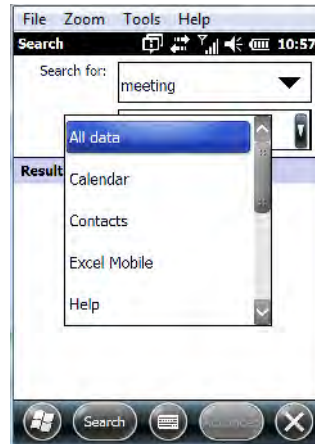
5.20 Search Phone

This feature allows you to conduct a search through the data stored on your phone.

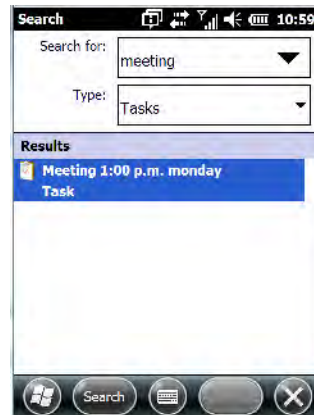
- Tap on **Start>Search Phone** icon.



- Tap in the **Search For** field, and type the information or a fragment of the information for which you are searching.
- In the **Type:** drop-down menu, choose the location in which you want to conduct the search.



- Tap on the **Search** softkey key.



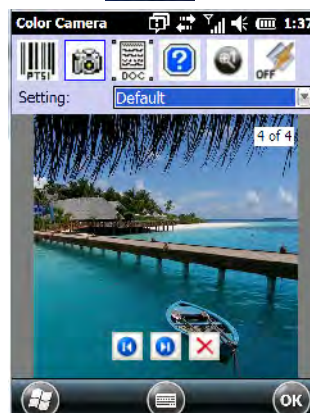
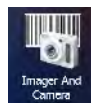
The results of your search are displayed in the *Search* screen.

5.21 Imager and Camera Demo

An *Imager And Camera* demo applet is provided to illustrate how the imager and camera work.

To launch the demo applet:

- Tap on the **Imager and Camera** icon.





Important: Refer to Appendix C: “Imagers Applet” for details about this applet.

5.22 Office Mobile

This icon contains the following abridged Microsoft programs: *Excel Mobile*, *OneNote Mobile*, *PowerPoint Mobile*, *SharePoint Workspace Mobile* and *Word Mobile*.



- Tap on **Start>Office Mobile**.



5.22.1 Excel Mobile

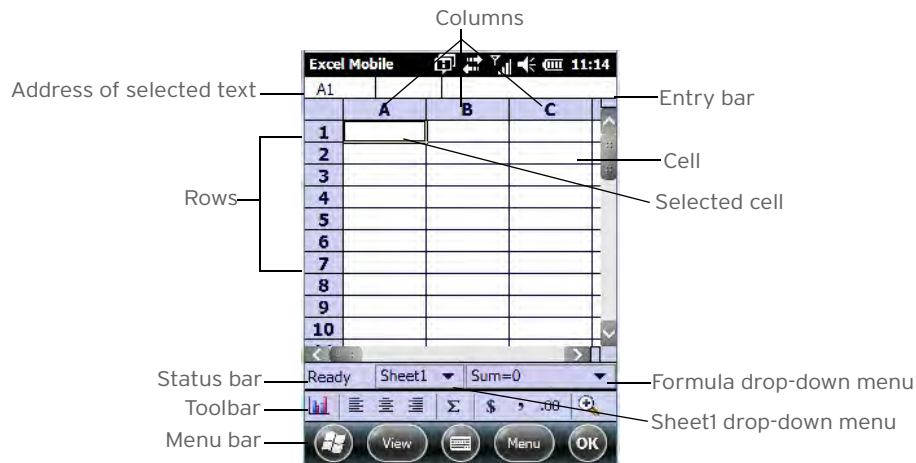
Excel Mobile is an abridged version of Microsoft Excel, an electronic spreadsheet program. If you're familiar the Excel application on your PC, you'll be able to navigate *Excel Mobile*.

In addition to providing the tools to manipulate text and numeric values like statistics, percentages, using formulas that perform calculations, and so on, this program can also include graphics such as pie charts.

Excel Mobile allows you to copy Excel workbooks from your PC onto your EP10 and update them while you're away from your desk.

- Tap on **Start>Office Mobile>Excel Mobile**.
- If a list of workbooks is displayed rather than a new sheet, you'll need to create a new workbook. To create a workbook:
- In *Excel Mobile*, tap the **Menu>File>New**.

5.22.1.1 Workbook Components



- If the toolbar is not visible, tap on the **View>Toolbar**.

You can enter data, work with rows and columns and create formulas as you would when working with Excel on your PC.

5.22.2 OneNote Mobile

You can use *OneNote Mobile* to take notes wherever you are and then synchronize your notes with a notebook section in the OneNote version on your PC. For example, you can:

- Snap pictures of business cards on your EP10 and then bring them into *OneNote* on your PC.
- Create short text notes and voice recordings on your EP10 to remind you about important meetings, ideas, etc. and synchronize them with your notes.
- Prepare information in *OneNote* on your PC and then transfer it to your EP10 where it will be available to you wherever you and your EP10 go.

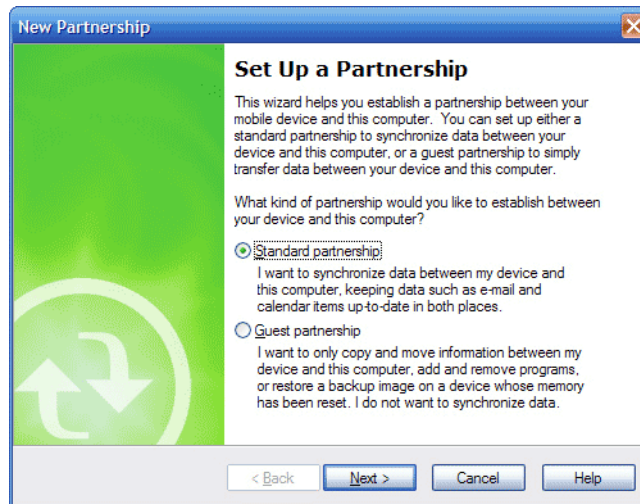


Important: Remember that you must have **Microsoft Office OneNote 2010** and the latest version of **ActiveSync** or **Windows Mobile Device Center** installed on your PC before you can set up a partnership between your EP10 and your PC.

Setting Up a Partnership

- Start **Office OneNote** and **ActiveSync** or **Windows Mobile Center** on your PC.
- Connect the EP10 to your PC; you can use a USB cable or a *Bluetooth* connection.

When a connection is established between the EP10 and your PC, ActiveSync displays a *New Partnership* screen.



- Choose **Standard partnership**, and tap on **Next**.
- To share information between *OneNote Mobile* and *Office OneNote 2010* on your PC, tap **Synchronize with this desktop computer**, and then tap on **Next**.
- Tap on **Finish** to begin the partnership between the EP10 and the PC. Now you'll be able to pass notes back and forth between your PC and your EP10.

Creating A Note

- Tap on **Start>OfficeMobile>OneNote Mobile** icon. Tap on **New** in the softkey bar to display a blank note.
- Tap on **New** to create a note page. Begin typing.



- When you complete your note, tap on **Done**.



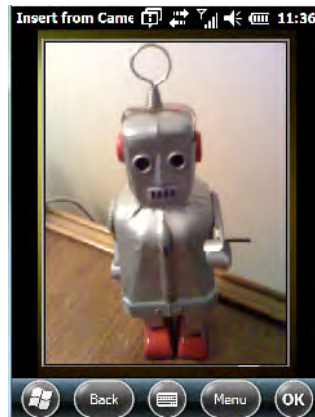
Note: Remember that you can tap on the Menu softkey to Undo typing, add Formats (Bold, Italic, Underline, Strikethrough), and include Lists (Numbered, Bulleted, Clear).

Using the OneNote Menu

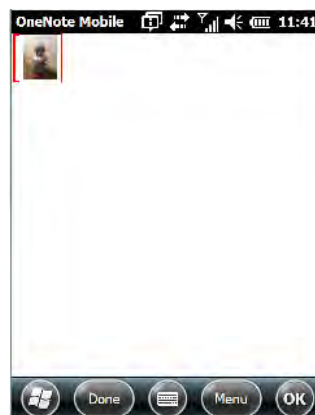
Tapping on **Menu** displays a list of options to help you work with the *OneNote Mobile* applet.



- **Undo, Redo, Cut, Copy and Paste:** These commands operate in the same way as they do in any Windows Office application.
- **Format:** Tapping on this command lists the formatting options you can apply to your note: *Bold*, *Italic*, *Underline*, *Strikethrough* and *Clear All*.
- **Take Picture:** When you tap on this option, the EP10 switches to camera mode so that you can snap a picture to include in your note.

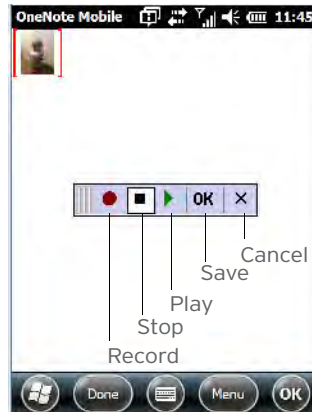


Press **[ENTER]** to snap a photo that is automatically inserted into your note.



- **Insert Picture:** Tapping on this command automatically displays your *My Pictures* folder where you can tap on an existing picture to insert it into your note.

- **Insert Recording:** When you tap on this command, a recording panel is displayed.



Tap on the **Record** button to *record* your message.

Tap on **Stop** when you've completed your message.

Tap on **Play** to *listen* to your voice message.

To *discard* your message, tap on **X** - the **Cancel** button.

To save your message, tap on **OK**. An audio icon is displayed in your note. You can tap on it to listen to your message.



Synchronizing EP10 One Note With PC OneNote

- Connect the EP10 to your PC using either a USB cable or *Bluetooth*.

When the connection is complete, take one of the following steps:

- In *Microsoft ActiveSync* on your PC, choose **Sync**.

or

On your EP10, tap on **Start>ActiveSync**, and then tap on **Sync**.

During synchronization, the notes you created on your EP10 are copied to a new Office OneNote 2010 notebook called *OneNote Mobile* on your PC. When synchronization is done, you can drag the transferred notes into any other sections and other notebooks on your PC.

5.22.3 Word Mobile

If you've used Microsoft Word on your PC, Word Mobile will be familiar to you. Keep in mind however that *Word Mobile* is designed for a small screen and limited memory.



Note: Keep in mind also that a Word document created on your PC can lose key formatting features such as styles and tables if you make changes to it on your EP10.

- Tap on **Start>Office Mobile>Word Mobile**.



Note: If you've already created a Word document, it will be listed in a Word Mobile window. To launch a new Word document, you'll need to tap on the New softkey.

5.22.3.1 Text Input Modes

In addition to the soft keyboard, you can enter text using the EP10 keyboard, soft keyboard or the transcriber.



Important: Refer to “Notes” on page 79 for details about the transcriber and soft keyboard text input methods.

5.22.3.2 Sharing Documents with your PC

Documents created on a PC are recognized by your EP10. However, some formatting is lost when a Word document is converted to a Word Mobile document. This loss also occurs when you open a .doc file and change it on the EP10.



Important: To avoid problems, you can work on copies of .doc files. In addition, keep in mind that you can use the Terminal Services Client program to log onto a desktop PC that is also running Terminal Services, and then you can use any program on your PC, including Microsoft Word (rather than Word Mobile).

Refer to “Remote Desktop Mobile” on page 95.

5.22.4 PowerPoint Mobile

PowerPoint Mobile works just like the desktop version that may be installed on your PC. To launch this program on your EP10:

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

5.22.5 SharePoint Mobile

SharePoint Mobile allows you to open, edit, and save documents that are on a SharePoint site (a web site that lets you and others share and collaborate on documents, projects, schedules, and so on).

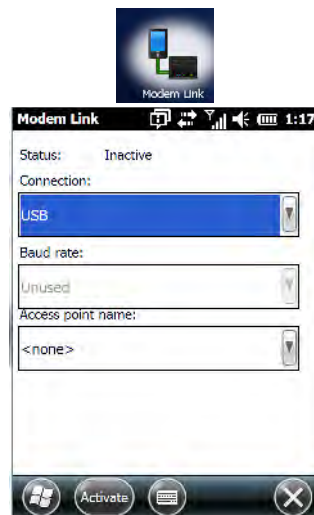
- Tap on **Start>Office Mobile>SharePoint Mobile**.
- Tap on the **Address** softkey to highlight the web address field. Type the **SharePoint address** you want to access.
- Tap on **Go** to access documents in the SharePoint site you specified.



Note: To access a SharePoint site using SharePoint Workspace Mobile from inside your organization, you need to set up a Wi-Fi connection that lets you access a SharePoint site on your company's network.

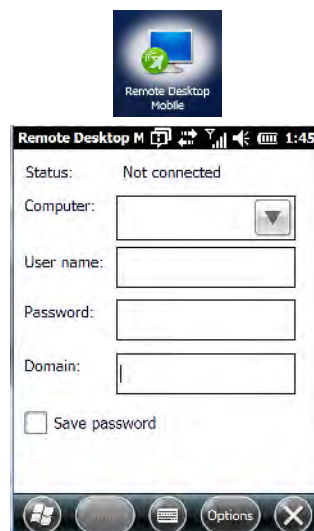
5.23 Modem Link

Modem link allows you to use the GPRS connectivity on your phone to connect your laptop or PC to the Internet.



5.24 Remote Desktop Mobile

This program allows you to log onto a Windows Terminal Server and run the desktop programs from the server on your EP10.



5.24.1 Connecting to a Terminal Server

- Tap on **Start>Remote Desktop Mobile**
- In the *Remote Desktop* screen, choose a **Computer** from the drop-down menu.
- Type your **User name**, **Password**, and **Domain** (if required). Tap on **Connect**.

5.24.2 Disconnecting Without Ending a Session



Important: These commands are accessed from the *Start* menu in the *Terminal Services* screen used to access the PC's commands. Do NOT use the *Start* menu on your EP10.

- In the *Remote Desktop Connection* window, tap on **Start>Shutdown**.
- Tap on **Disconnect>OK**.

5.24.3 Ending a Session

- In the *Terminal Services Client* screen, tap on **Start>Shutdown**.
- Tap on **Log Off>OK**.

5.25 SIM Toolkit UI



SIM Toolkit UI is an ETSI/SMG standard for Value Added Services and e-commerce using GSM phones.

The EP10 operator can, for example, check bank accounts and pay bills using a SIM Toolkit-enabled phone with an appropriate SIM Toolkit-specific SIM card which will provide much of the information required to conclude a transaction over GSM.

If this service is available in your organization, the system administrator can provide the set up information for your service.

5.26 PsionVu

PsionVU allows the administrator to tailor how the EP10 operates and the options the user can access. Note that the look of the *Today* screen will change from icons that are finger accessible to a list of items that is best accessed using a stylus.



Important: For details about this application, refer to “*PsionVU*” on page 152.

6

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6.1 Settings

The applets contained under the *Settings* icon in the *Start* screen allow you to tailor how your EP10 behaves, the appearance of the *Today* screen, and so on. The *Settings* applications are further divided into *Personal*, *System*, and *Connection* options.



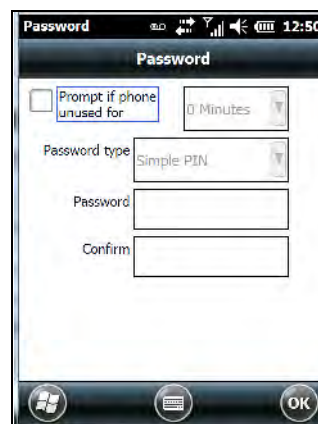
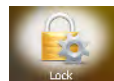
6.2 Clocks & Alarms

Refer to “Time, Date and Alarms” on page 51 for details about this applet.

6.3 Lock

This option allows you to assign a password to protect access to your phone service.

- Tap on **Start>Settings**, and then tap on the **Lock** icon.



It is critical that you store your password in a safe place. If you forget it, a ‘clean start’ must be performed by certified Psion personnel. A clean start returns the EP10 to factory settings. Only the data stored in a CF or SD memory card are preserved.

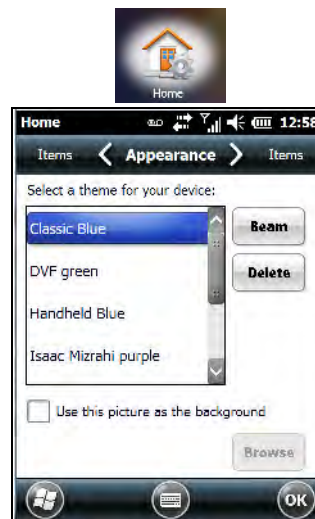
- Tap in the checkbox next to **Prompt if phone unused for** to turn on password protection for your phone service.
- Choose the amount of time that the unit can remain idle before you are prompted to enter your password.

- In the *Password* type drop-down menu, choose the type of password you prefer to assign. *Simple PIN* allows you to enter a minimum of four numeric characters. *Strong alphanumeric* requires a minimum of 7 characters and must contain at least three of the following: uppercase and lowercase alpha characters, numbers and punctuation.
- Type your password in the **Password** field.
- Retype your password in the **Confirm** field.
- Tap on **OK**. A dialog box asks whether or not you want to save your password settings. Tap on **YES** to save your password assignment.

6.4 Home

The *Home* applet is used to customize your *Today* screen.

- Tap on **Start>Home** icon to display this applet.



6.4.1 Appearances Tab - Changing the Theme (Background)

The *Appearance* tab allows you to change the background appearance of the *Today* screen.

- Tap on the **theme** or background you want to use. Tap on **OK** to assign the background you've chosen to your EP10.

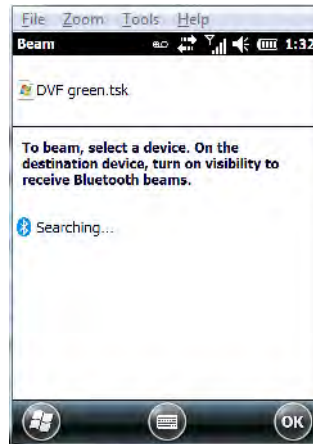


Note: You can also use a personal picture as your background. Tap on the checkbox to the left of **Use this picture as the background**, and tap on the **Browse** button to locate your picture.

6.4.2 Beaming a Theme to Another Device

You can also *beam* your selection to another device. To scan for visible devices and beam a theme:

- Choose a **theme** or background, and tap on the **Beam** button.

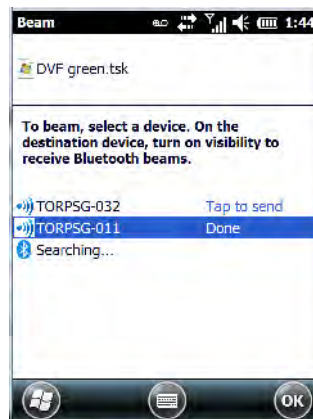


The EP10 scans for visible devices within range of the EP10 and lists them in the *Beam* screen.

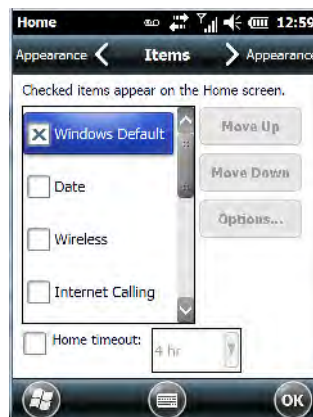
- Tap on the device to which you want to send the theme.

A *File Receive Confirmation* dialog box appears on the device to which you are beaming the theme. If the recipient taps on **OK**, the file is downloaded onto their device. Note that the recipient can also tap on *Browse* to store the theme file in a different location.

Once the recipient clicks on *OK* to accept the file, the device you chose is marked as *Done*.



6.4.3 Items Tab - Customizing the Today Screen



The items you see in the *Today* screen are *Windows Default* items. The *Items* tab allows you to customize the screen to suit your purposes.

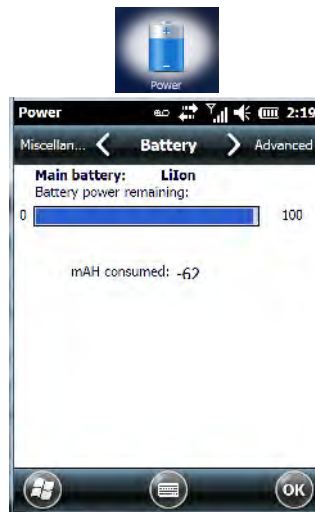


Note: Refer to “Customizing the Today Screen” on page 49 for details about this screen.

6.5 Power

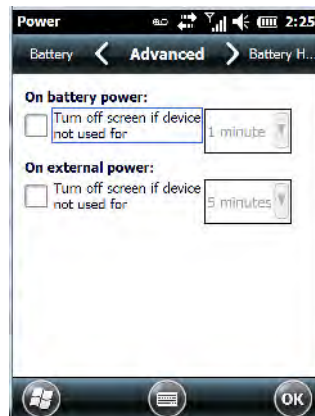
The Power applet provides information about the battery installed in your EP10, and it allows you to define the behaviour of your EP10 to minimize power consumption.

6.5.1 Battery Power



This tab monitors and displays the current battery capacity of the battery installed in the EP10.

6.5.2 Advanced Tab



This tab allows you to tailor how long the EP10 can remain idle before the screen is turned off while running on battery power and also on external power.



Note: The options in the screen behave like **Suspend** mode. If the screen turns off, the unit is in suspend mode - tapping on the touchscreen or pressing a key opens the screen in which you were working before it was 'turned off'.

- To determine behaviour when the unit is running *On battery power*, tap in the checkbox to the left of **Turn off screen if device is not used for**.

- Tap in the drop-down menu next to this option, and choose the number of **minutes** the unit can remain idle before the screen is turned off.
- To determine behaviour when the unit is running *On external power*, tap in the checkbox to the left of **Turn off screen if device is not used for**, and choose a value in the associated drop-down menu.

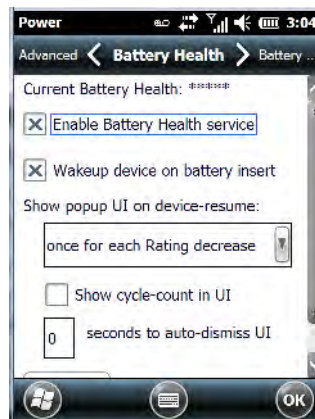
6.5.3 Battery Health

The *Battery Health* service provides an estimate of battery health based on a number of different measurements, beyond battery capacity.



Important: *Battery Health is an estimate and should not be depended on to provide a 100% account of battery condition.*

- In the scrolling tab bar, tap on the **Battery Health** tab.

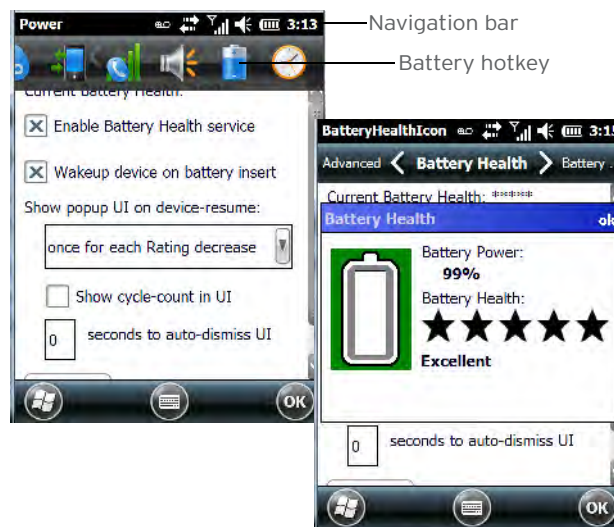


Current Battery Health

The *Current Battery Health* default values are shown here as ***** (Excellent), *** (Used), and * (Battery should be replaced).

To display the *Battery Health* screen:

- Tap on the **navigation bar**, scroll to and click on the **battery hotkey**.



The image above shows the default *Excellent* status screen.

Enable Battery Health Service

This option allows you to enable or disable the battery health service.

Wakeup Device on Battery Insert

When this option is enabled, whenever the battery is replaced, the EP10 is powered up from a suspend state and the current health of the battery is displayed.

Show Popup UI on Device-Resume

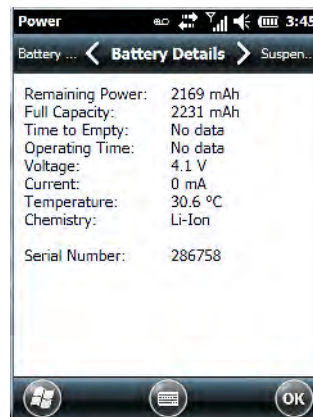
The drop-down menu attached to *Show Popup UI on Device-Resume* allows you to determine when the battery status pop-up user interface (UI) will appear based on the battery health.

Edit - Changing Ratings Text

You can customize the ratings text with the *Edit* button. By enclosing your text within the html tag used for *Bold* (or removing the tag to unbold the text), you can change the text that will appear in the pop-up battery status screen. For example, the default text *Excellent* might be changed to: *Battery is excellent, and will last one day shift.*

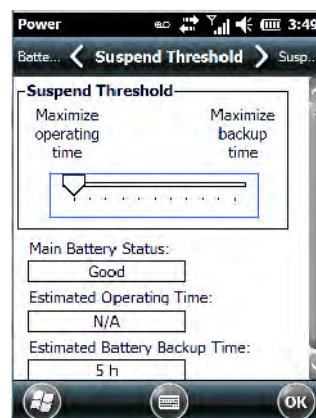
6.5.4 Battery Details Tab

- In the scrolling tab bar, scroll to the **Battery Details** tab.



This tab lists the specifications and battery capacity status of the battery installed in the EP10. This is a view-only screen.

6.5.5 Suspend Threshold and Estimated Battery Backup



The *Estimated Battery Backup* is the amount of battery power that has been reserved or set aside to protect data until a fully charged battery can be installed in the EP10. When the battery capacity is depleted up to the *Estimated Battery Backup* reserve specified in the *Suspend Threshold* tab, the EP10 shuts off au-

tomatically and uses the reserve power to preserve the data stored on the EP10. Once the EP10 shuts down, it cannot be switched on until a fresh battery is installed, or the unit is inserted in a docking station or cradle.

- Slide the **Suspend Threshold** button to the right to increase the battery capacity reserved for backup purposes. Data will be preserved to a maximum of 100 hours.
- Slide the **Suspend Threshold** button to the left to decrease the power reserved for backup purposes; this increases the EP10's operating time - the amount of time the EP10 will operate before shutting down - but reduces the power reserved for backup purposes to a minimum of 24 hours.

Internal super-capacitors will protect the data stored in the EP10 while the depleted battery is swapped for a fully charged one.



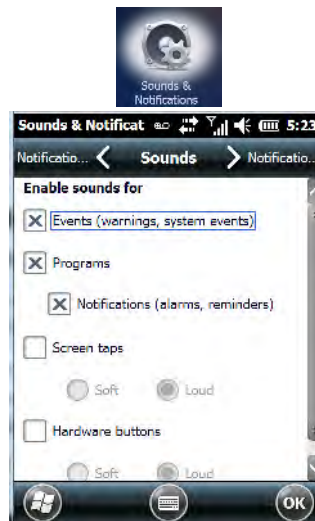
Note: Once the battery is removed, the super-capacitor will preserve the data stored on the EP10 for approximately 5 minutes. It is critical that you install a charged battery before this time elapses.

6.6 Sound & Notifications

The *Sounds & Notifications* icon allows you to specify when your EP10 will emit sounds.

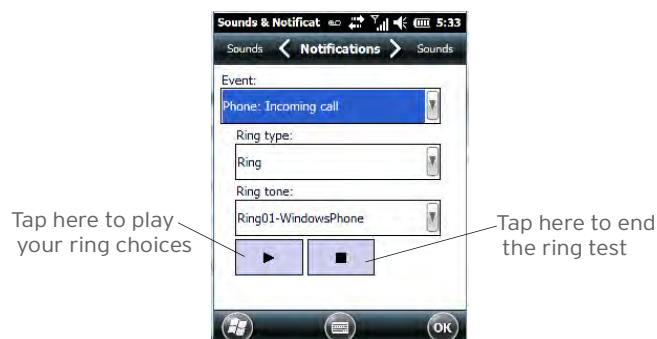
6.6.1 Sounds Tab

- Tap on **Start>Settings**, and then tap on the **Sounds & Notifications icon** to display this dialog box.



- Tap on the **checkboxes** and **radio buttons** to enable the event(s) that will cause your unit to emit a sound.

6.6.2 Notifications Tab



This tab allows you to choose an event, and for each event, choose the audio notification or sound that the EP10 will emit for that event. For example, suppose you choose *Phone: Incoming call* from the *Event:* drop-down menu. You can choose a specific *Ring type* for this event from the drop-down menu, perhaps

Vibrate and ring. In the *Ring tone* drop-down menu, you can choose the tone or sound of the ring. If your EP10 vibrates and emits the ring you selected, you will immediately know your hand-held is receiving an incoming phone call.

- Choose an event from the **Events** drop-down menu.
- Choose the **Ring type** and **Ring tone** for the event you've chosen.
- To test your choice, tap on the arrow below **Ring tone**. The small square button stops the ring test.

6.7 Connections Folder

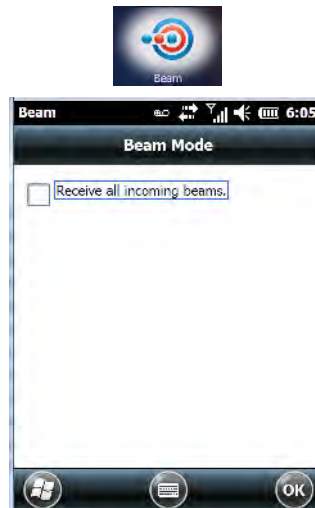
This folder icon contains the applets you'll need to set up connections using *Bluetooth* and an 802.11 radio.

- Tap on **Start>Settings>Connections folder** icon.



6.7.1 Beam

Enabling the *Beam* applet makes your EP10 visible and available to others wanting to beam information to your unit.

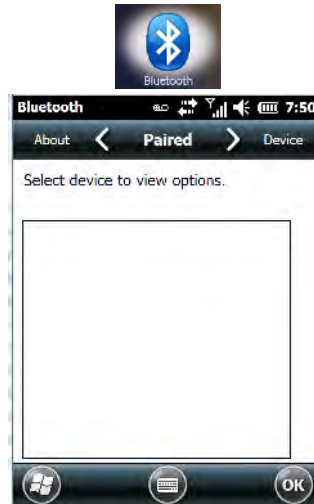


6.7.2 Bluetooth Setup

Bluetooth is a global standard for wireless connectivity for digital devices and is intended for Personal Area Networks. 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 10 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.

- Tap on **Start>Settings**. Tap on the **Connections Folder** icon followed by the **Bluetooth** icon.



Turning the *Bluetooth* Radio On

Before pairing a headset or any other *Bluetooth* device with your EP10, make certain that the *Bluetooth* device power is enabled and that the radio is switched on; it is enabled by default. If, for some reason, it has been disabled:

- Scroll to the on **Mode** tab.
- Tap in the checkbox next to **Turn on Bluetooth**.
- Turn your *Bluetooth* device on and place it within a few feet of your EP10.
- If needed, set your *Bluetooth* device to visible (discoverable) so that the hand-held can detect it and establish a connection.

6.7.2.1 The Devices Tab - Scanning for *Bluetooth* Devices

- Scroll to the **Device** tab.



- To discover and list all *Bluetooth* devices in range of the EP10, tap on the **Scan** button in the softkey bar at the bottom of the screen.

The EP10 scans for *Bluetooth* devices within a 10 meter range. Any *Bluetooth* devices within range appear in the *Bluetooth* list box. Any existing devices previously discovered and listed will also be displayed.

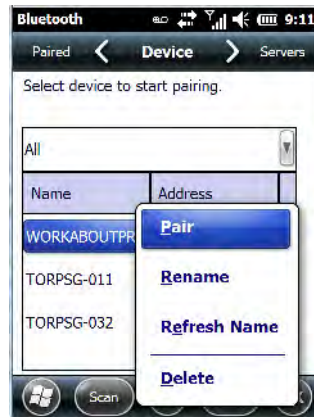


Note: To limit the scope of the scan to a particular type of device, refer to 'Filtering by Class of Device (COD)' in the next section.

The *Clear* button removes all *Bluetooth* devices listed except those with currently paired and connected services.

Device Pop-up Menu

The *Device* pop-up menu allows you to pair a device, update a device name or delete a device from the list.



Pair begins the pairing process by querying the services and profiles of the discovered device. An authentication dialog box is displayed the first time a Bluetooth device is paired.

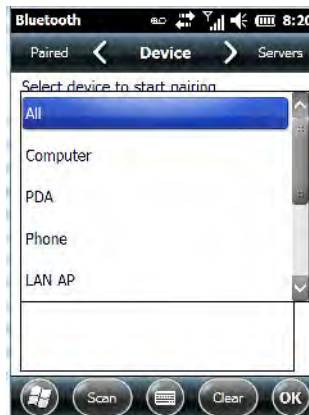
Rename allows a new name to be assigned to a highlighted device.

Refresh Name repeats the device name query, updating the name. This command is useful if a device is listed without a name (unknown), or if a device name has been changed remotely.

Delete removes this device from the list.

6.7.2.1.1 Filtering by Class of Device (COD)

The drop-down menu at the top of the top of the *Device* tab allows you to limit the scope of the scan to a particular type of device. If, for example, you choose *Computer* from this menu, only computers within range of the EP10 are listed in the *Device* tab. Choosing *All* lists all detected devices.



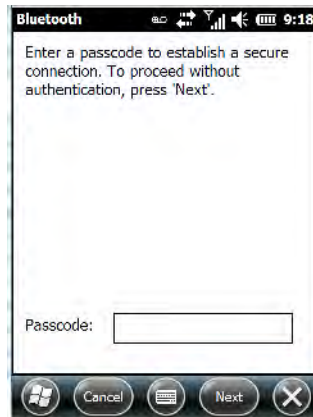
6.7.2.2 Pairing a Device

If you intend to pair a device (a headset, for example), power the device on and bring it within 10 meters of the EP10 before proceeding with the discovery process described below.

To pair devices:

- Follow the manufacturer's instructions to place the remote device in pairing mode.
- Choose the **Devices** tab and **Scan** for devices in your area.
- When the scan is complete, tap on the **device** to which you want to pair.
- In the pop-up menu, choose **Pair**.

An *authentication* dialog box is displayed.

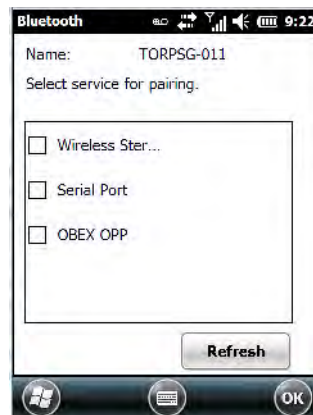


- If the remote device has authentication *enabled*, type the **PIN** in this dialog box.
- To proceed *without* authentication, tap on **Next**.



*Note: If a remote device has authentication enabled and you've skipped the authentication process, a pop-up screen will ask if you want to allow the remote device to connect to the EP10. Tap on **Yes** and type the PIN. When authentication is complete, tap on **Done**.*

After entering the device PIN, the *Services* dialog appears with a list of services available for that device.

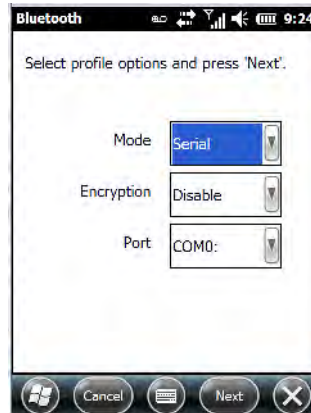


- Click in the checkbox to the left of the service to activate it.
- Click on **Done**.



Note: If you choose a service requiring additional information, a dialog box is automatically displayed where further details can be completed.

The sample dialog box below is an example of a service requiring additional information - in this case, the *Serial Port Service*.



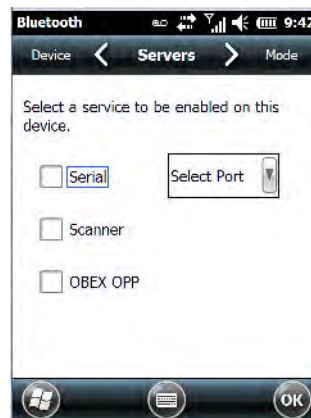
This dialog box offers a number of additional options such as enabling *Encryption* and selecting three different modes: *Serial*, *ActiveSync* and *Scanner*.

- *Serial* is used for simple serial port communication.
- *ActiveSync* is for ActiveSync-over-Bluetooth.
- *Scanner* is used to create a seamless connection between the incoming *Bluetooth* bar code and the EP10.
- *Printer Port* is for connection to a printer over *Bluetooth*.

Once you've completed the information:

- Tap on **Next** and then in the *Services* screen, tap on **OK**.

6.7.2.3 Servers Tab



When a remote *Bluetooth* device initiates a *Bluetooth* connection to the EP10, the remote device is considered the 'Bluetooth master' and the hand-held, the 'Bluetooth slave'. In order for the remote device to connect to the EP10, the EP10 must offer a service in the form of a server. The *Servers* tab allows these services to be enabled and configured. There are three server services available: *Serial*, *Scanner* and *OBEX OPP*.

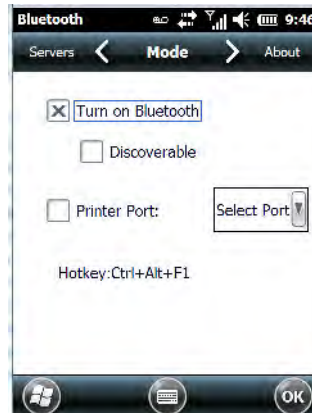
Serial server enables the *Serial Port Profile* server; a *Serial Port* can be selected from the drop-down menu. Keep in mind that when a port is chosen, an application must be open (connected) to the chosen port for a remote device to be able to connect.

Scanner server enables a *Serial Port Profile* server and then relays it to the *Scanner Service* (SCS). This is used for *Bluetooth* bar code scanners that operate in client mode. SCS opens the server port and handles the scanner input.

OBEX OPP server enables the Object Push Profile server. A warm reset must be performed on the EP10 after a change is made to this option. The OPP Server allows other Bluetooth devices to send files to this device.

- Tap on the checkbox to activate the server - the associated port name is displayed beside the server name.

6.7.2.4 Mode Tab



When *Turn on Bluetooth* is checked, *Bluetooth* features are available. If this option is disabled, you cannot send or receive information using *Bluetooth*.

When *Discoverable* is enabled, other *Bluetooth* devices within range (approximately 10 meters) can detect your EP10 and can establish a bond or use a *Bluetooth* service. Note that other devices can detect your unit whether or not a bond has been created.

6.7.2.5 About Tab



Name displays the broadcasted name of the EP10. The name can be changed in the *About* applet - tap on **Start>Settings>System tab>About** icon. Tap on the **Device ID** tab, and change the name.

Local Address displays the MAC address (BD_Addr) of the *Bluetooth* chip.

HCI Version & *LMP Version* display the version of the chip firmware.

Component indicates the version of the Psion *Bluetooth* Subsystem (the manager, drivers, etc).

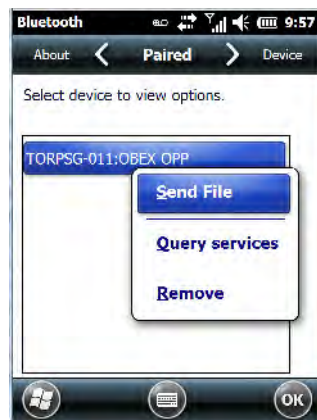
Profiles lists the supported profiles on this specific EP10.

6.7.2.6 Paired Tab

This tab lists all paired devices and their corresponding services. The format of the name is <Device Name><Service Name>. Additional information may appear in this screen such as the *Port Numbers* for Serial Profiles service.



- Tap and hold down the stylus on an item in the *Paired* tab to display an associated pop-up menu.



This is a service-dependent menu - that is, it varies slightly depending on the service chosen in the *Servers* tab.

Query Services and Remove Commands



*Note: The **Query Services** and **Remove** commands are available in all service-dependent menus, regardless of the type of service chosen.*

- *Query Services* displays a *Services* dialog box where a pairing service is chosen.
- *Remove* unpairs the highlighted service and deletes the entry from the tab.

OBEX OPP (Object Exchange-Object Push Profile) Commands

The OPP defines two roles - a *Push Server* and a *Push Client*. Push Server is the device that provides an object exchange server. Push Client is the device that pushes and pulls objects to and from the Push Server. *OBEX OPP* contains the following unique menu option:

- *Send File* displays an *Open File* dialog box where the file to be sent can be selected. When the transmission begins, another dialog box tracks the progress of the file transmission.

HSP/HFP (Headset Profile/Hands-Free Profile) Service Commands

The *HSP (Headset Profile)* allows users to connect their device to *Bluetooth* enabled headsets and other audio devices.

HSP/HFP services provide the following unique menu options:

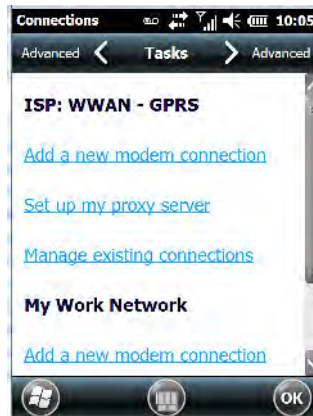
- *Connect Audio* establishes an audio connection to the *Bluetooth* headset.
- *Disconnect Audio* disconnects the audio connection from the *Bluetooth* headset.
- *Volume Control* displays a dialog box where the headset and microphone volume can be adjusted.

6.7.3 Connecting Using a Bluetooth GPRS Phone

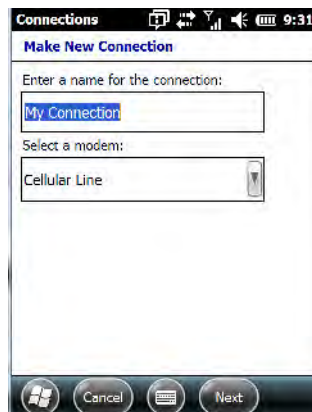
Once you've completed the *Bluetooth* settings, you can go ahead and set up communication through your *Bluetooth*-equipped phone.

Before you begin, make certain that the *Bluetooth* phone is turned on, that the *Bluetooth* radios in your EP10 and phone are enabled (turned on), and that the hand-held and phone are within 10 metres of each other. Both should be discoverable.

1. Tap on **Start>Settings**, and then tap on the **Connections** tab.
2. Tap on the **Connections** icon. Under **ISP: WWAN - GPRS**, tap on **Add a new modem connection**.



3. Type a name for the connection.



4. Tap on the **Select a modem** drop-down menu, and choose **Bluetooth**. Tap on **Next**.



Note: If you are using another device to connect to the Internet, you can choose a different modem from the drop-down menu.



5. Make certain that the phone is discoverable. Some phones also need to be pairable in order to accept a bonding request. Refer to your phone documentation for additional information.
6. If the phone appears in the *My Connections* list, skip to step 13. If not, go to step 7.
7. In the list, tap the **phone** you want to connect to, and then tap on the **Next** button. (Note that if your phone is not listed, tap on Add new device, and choose the phone from the list.)
8. In the *PIN* screen, type a **personal identification number** (PIN) - you can enter up to 16 characters.
9. Enter the **same PIN** on the phone.
10. If you wish, you can edit the name of the phone in the *Name* field.
11. Tap on the **Finish** button.
12. In the *My Connections* list, tap on the **phone**, and then on **Next**.
13. Enter the **dial-up phone number** for this connection, and tap on **Next**.
14. In the *User name*, *Password* and *Domain* fields, enter the **logon information** for this connection, and tap on **Finish**.

You can begin using the *Bluetooth* phone connection, for example, to send and receive e-mail, browse the Internet with Internet Explorer, and so on.

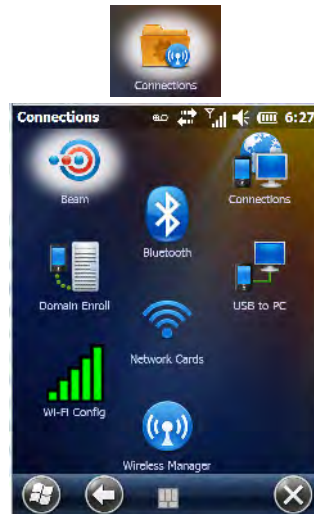
6.7.4 Connections - Connecting to the Internet

To activate a connection, make certain that any necessary equipment (such as a radio) is installed in your EP10.

You'll need the following information from your ISP to make an Internet connection:

- ISP server phone number,
- user name, and
- password.

You'll need to tap on **Start>Settings**, and then tap on the **Connections** icon to display the connections applets.



1. In the *Connections* screen, tap on the **Connections** icon.



Note: In the Connections window, the Tasks tab is used to create new connections and manage existing ones. The Advanced tab allows you to choose a network. If you need to change these settings, contact your ISP or network administrator before making changes.

2. Under *ISP: WWAN - GPRS*, tap on **Add a new modem connection**.
3. In the **Select a modem** drop-down menu, choose a modem connection. If you haven't already created a modem connection, refer to "Modem Connection Setup" on page 117.
4. To connect to the Internet, launch the program you want to use. For example, launch Internet Explorer on your EP10 to browse the Internet. Your EP10 automatically connects.



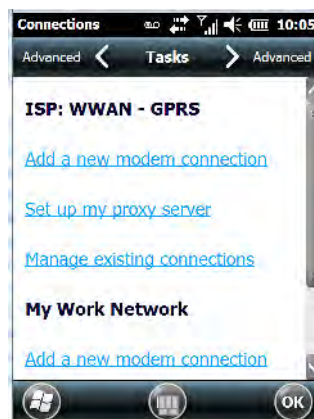
*Note: To set up a network card or wireless network connection to your ISP, add a new connection under **My Work Network**.*

6.7.5 Modem Connection Setup

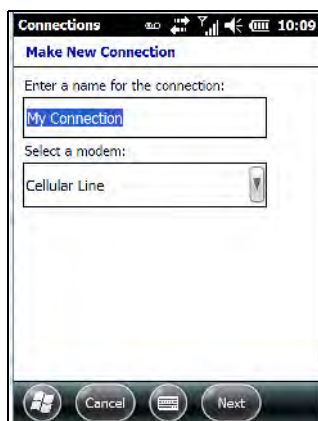
Before you begin, you'll need the following information from your ISP or network administrator: *telephone number, password, domain name, and TCP/IP settings*.

If your EP10 does not have access to a mobile phone network, insert a modem card in the unit.

1. Tap **Start>Settings**. Tap on the **Connections** tab followed by the **Connections** icon.
2. To create a new connection in either *ISP: WWAN - GPRS* or *My Work Network*, tap on **Add a new modem connection**.



3. In the *Make New Connection* screen, type a **name** for the connection.

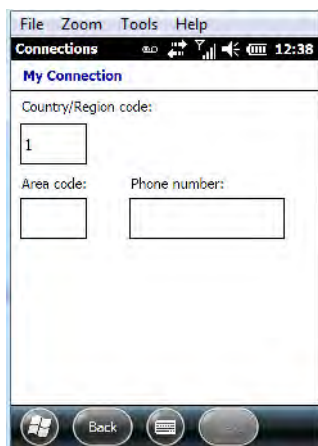


4. In the drop-down menu under *Select a modem*, tap on your **modem type**.

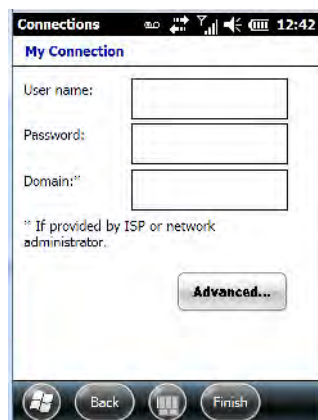


Warning: If your modem is not listed in the drop-down menu, choose *Hayes Compatible on COM1*.

5. In the *My Connections* screen, enter the **phone number** exactly as you want it dialed. If, for example, you need to dial 9 for an outside line, enter 9 at the beginning of the phone number.



6. Tap on the **Next** button.



7. Type the **User Name**, **Password** and **Domain Name** as provided by your ISP or network administrator.



Note: Generally, you will not need to change any of the Advanced settings. For information about *Advanced Modem Settings*, review the next section.

Changes to Advanced settings are only required in the following instances:

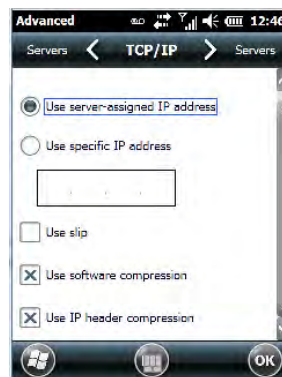
- To change the baud rate settings, dialing string commands or credit card options.
- To change port settings.
- To enter TCP/IP settings because the server to which you are connecting does not dynamically assign addresses.

8. Tap on the **Finish** button.

6.7.5.1 Advanced Modem Settings

TCP/IP Settings Tab

If your server assigns IP addresses dynamically, you will not need to change these settings. If you need to make changes, contact your ISP or network administrator for addresses.



Server Settings Tab

If your server assigns IP addresses dynamically, you will not need to change these settings.



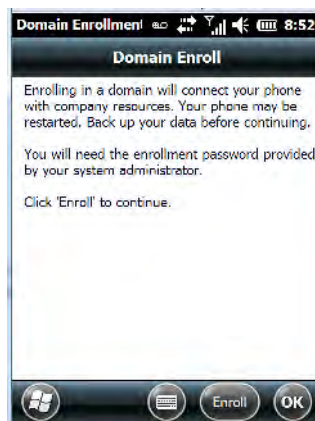
Servers requiring assigned IP addresses may also need a way to map computer names to IP addresses. The EP10 supports a variety of name resolution options: *DNS*, *Alt DNS*, *WINS* and *Alt WINS*.

Your ISP or network administrator can determine which name resolution you need, and can also provide the server address. In addition, you will want to ask if alternate addresses are available. An alternate address may allow you to connect when the primary server is not available.

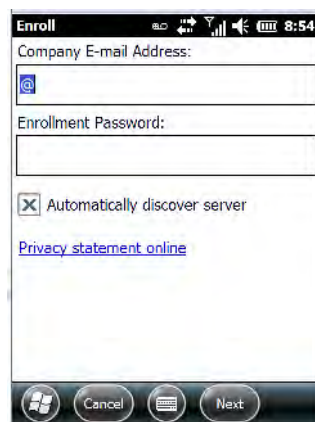
6.7.6 Domain Enroll

To protect sensitive company data, businesses use firewalls and proxies servers to limit access to company resources to company employees only. If you need to access information on your company server remotely, the *Domain Enrollment* utility allows you to sync your EP10 credentials with your company enrollment server, allowing you to access your work remotely.

- Tap on **Start>Settings>Connections>Domain Enroll**.



- Tap on the **Enroll** button.



- Enter your **enrollment password** – supplied by your company's network administrator or generated from your company pre-enrollment wizard.
- Type your **company e-mail address** and the **enrollment password** provided by your network administrator.



*Note: If you uncheck **Automatically discover server**, a Server field is displayed where you must manually enter the server name.*

Allow a few minutes for your EP10 to sync and enroll in your company domain. You may need to restart your unit after the enrollment process is completed.

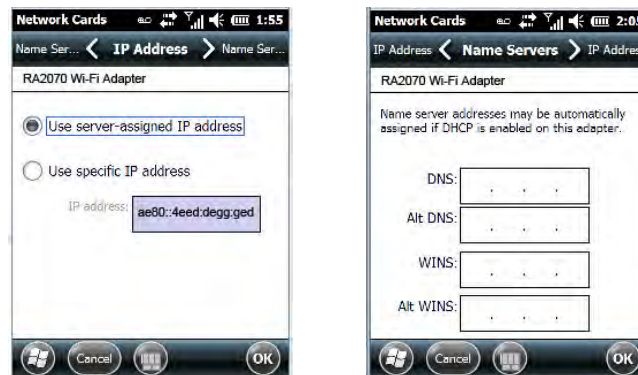
6.7.7 Network Cards

When the network card is inserted in your unit for the first time, the *Network Settings* screen is displayed automatically so that you can configure the card. If it does not appear, or if you want to change settings:

- Tap on **Start>Settings>Connections**.
- Tap on the **Network Cards** icon.



- If you need to specify server information, double-tap on the appropriate **adapter**, and then tap on the **IP Address** and/or **Name Servers** tab.



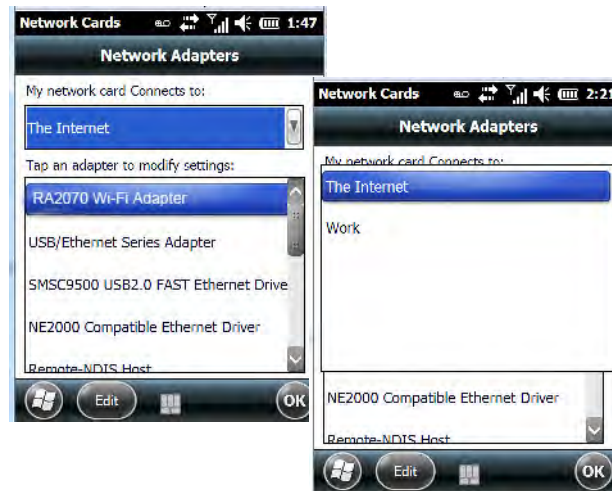
Note: Because most networks use DHCP, you should not need to change these settings unless instructed to do so by your network administrator.

- If necessary, use a network cable to connect the network card to your network. Refer to the documentation shipped with your network card for details.
- To activate the connection, launch the desired program (e.g., Internet Explorer). The EP10 will connect automatically.

6.7.7.1 Changing Network Card Settings

- If you use your network card in two locations like work and home, you'll need to change the network to which the network card connects.
- Tap on **Start>Settings>Connections>Network Cards**.

- In the *Configure Network Adapters* dialog box, tap on the drop-down menu below *My network card connects to*, and choose either **The Internet** or **Work**.

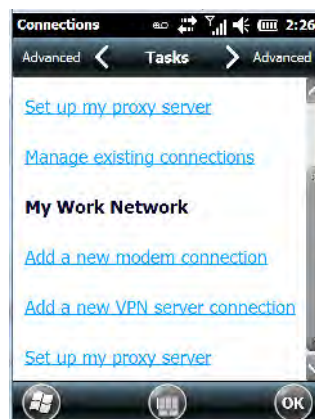


6.7.7.2 VPN Connection Setup

A *VPN connection* provides a secure connection to servers through the Internet.

Before you begin, you need the following information from your network administrator: *password*, *domain name*, *TCP/IP settings* and a *host name* or *IP address* of the VPN server.

- Tap on **Start>Settings**. Tap on the **Connections folder** icon followed by the **Connections** icon.



- Under *My Work Network*, tap on **Add a new VPN server connection**.



- In the *Name* field, type a **name** for this connection.

- In *Host name/IP*, type the **VPN server name** or **IP address**.
- Tap on the *VPN type* radio button next to the type of authentication for your EP10: **IPSec/L2TP** or **PPTP**. Your network administrator will let you know which option applies to your unit.
- Tap on **Next**.
- Choose the type of authentication in this screen. If you choose *A pre-shared key*, type the key provided by your network administrator.
- Tap on **Next**.
- Type your **user name**, **password** and **domain name**. If a domain name was not provided to you, try the connection without entering a domain name.



Note: Normally, you will not need to change any advanced settings. You will need to make changes only under only the following circumstances:

The server to which you are connecting does not dynamically assign addresses, and TCP/IP settings need to be entered.

Server DNS or WINS settings need to be changed.

If you need to edit the *Advanced* settings, refer to “Advanced Modem Settings” on page 119 for details about this tab.

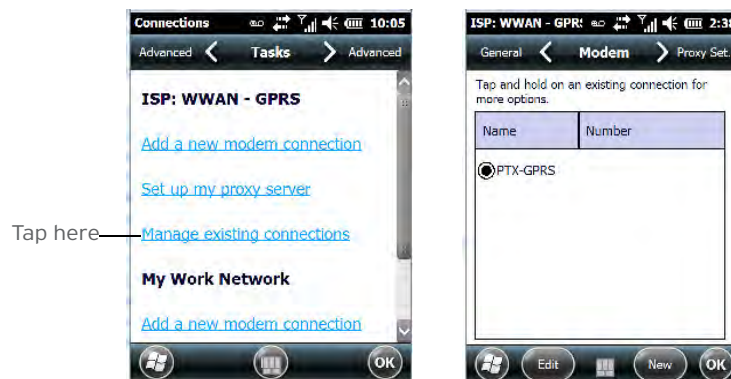
- Tap on **Finish**.
- Launch a program like Internet Explorer to activate the connection. The VPN connection will start automatically.

6.7.7.3 Managing an Existing Connection

Once you’ve defined a connection, a new option appears in the first *Connections* screen – *Manage existing connections*.

Editing a Connection

- Tap on **Start>Settings>Connections folder** icon. Tap on the **Connections** icon.
- Tap on **Manage existing connections**.



- To launch a connection from this screen, press and hold the stylus on the connection you want to activate. Choose **Connect** from the pop-up menu.
- To delete a connection, press and hold the stylus on the connection you want to delete. Choose **Delete** from the pop-up menu.



*Note: You can also create a new connection by tapping on the **New** button. To make changes to the settings for this connection, tap on **Edit**.*

Changing a Connection Setting Name

Your EP10 has two sets of connection settings: *My ISP* and *My Work Network*. If you want to change one or both of these options to something more familiar to you, follow these steps.

- Tap on **Start>Settings**. Tap on the **Connections folder** icon followed by the **Connections** icon.
- Under *My Work Network* or *My ISP*, tap on **Manage existing connections**.
- Tap on the **General** tab.



- Type the name you prefer in the field below *Enter a name for these settings*.
- Tap on **OK**.

6.7.7.4 Proxy Server Tab



Note: If you are connected to your ISP or private network during synchronization, the EP10 will download the appropriate settings during synchronization from your PC. If these settings are not on your PC, or if they need to be changed, you'll need to set up the proxy server connection manually.

To set up the proxy server connection manually, you'll need the following information: *proxy server name, server type, port, type of Socks protocol used and the user name and password.*

- Tap **Start>Settings**. Tap on the **Connections** tab followed by the **Connections** icon.
- Under *My Work Network*, tap on **Set up my proxy server**.



- Tap in the checkbox next to **This network connects to the Internet** and **This network uses a proxy server to connect to the Internet**.
- In the *Proxy server* field, type the **proxy server name**.
- Tap on **OK** to save your changes.



*Note: If you need to change advanced settings such as a port number or proxy server type, you'll need to tap on the **Advanced** button rather than tapping on OK. Advanced settings are described in "Changing Advanced Proxy Server Settings" in the next section.*

Changing Advanced Proxy Server Settings

- To change advanced settings such as the port number or proxy server type, tap on the **Advanced** button.



- Tap on the *proxy type* you want to change. For the appropriate server type, type the proxy server name and port.
- Tap on **OK**.

6.7.8 Selecting a Network

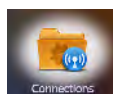


Note: Normally, you will not need to change these settings. Contact your ISP or network administrator before making any changes.

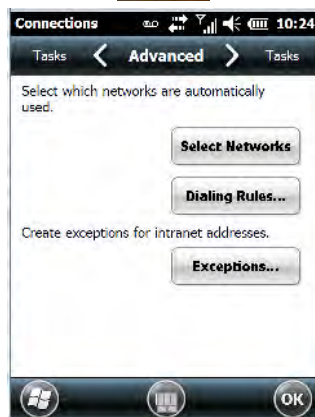
Private networks are used for work-related activities. Internet networks are used for home connection to your ISP. The *My Work Network* settings are used for *private network connections (corporate networks)*, while *My ISP* settings are used for *Internet network connections*.

When you use programs such as Internet Explorer, your EP10 automatically connects using private network settings under *My Work Network* or Internet settings under *My ISP*, depending on specifications. You can determine how your EP10 connects.

- Tap **Start>Settings>Connections folder** icon.



- Tap on the **Connections** icon, and then tap on the **Advanced** tab.



- Tap on **Select Networks**.
- In the appropriate list, choose **My ISP** or **My Work Network**.

6.7.9 Wi-Fi Config



The *Wi-Fi Config* application is used to configure the radio for one or more wireless network profiles.



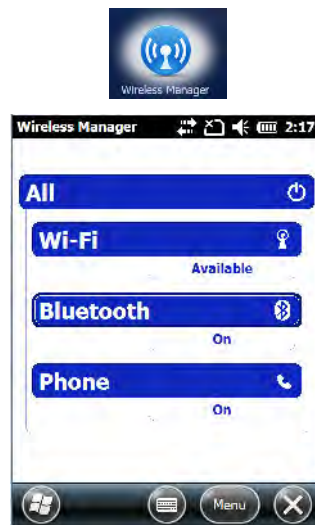
Note: For details about this applet, refer to “*Configuring Your Wireless Network*” on page 10.

- Tap on **Start>Settings>Connections folder** icon.
- Tap on the **Wi-Fi Config** icon.

6.7.10 Wireless Manager

The *Wireless Manager* icon acts as a connection manager, providing access to all network connection types.

- Tap on **Start>Settings>Connections folder** icon. Tap on the **Wireless Manager** icon.



This screen is used to switch the wireless network connection on and off. this screen also provides access to the setup screens for each wireless connection.

- To turn connections on and off, tap on the item(s) in the list.
- To turn off all wireless connections, tap on **All**.

The *Menu* softkey at the bottom of the screen provides a shortcut to the setup screens for each of the options listed in the *Wireless Manager* screen.



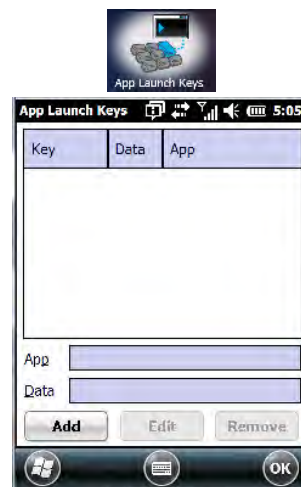
6.8 Personal Folder

- Tap on **Start>Settings>Personal** icon.

6.8.1 App Launch Keys

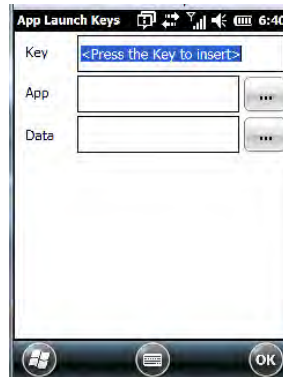


This icon allows you to map a key to an application so that you can then launch the application from a single key-press.



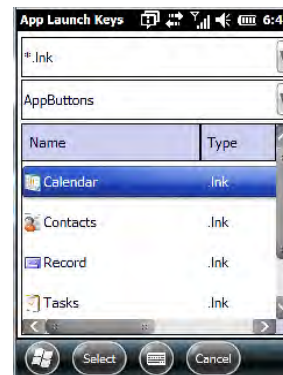
To assign an application key:

- Tap the **Add** button.



- Press the key you want to use to launch an application. (If an unsupported key is pressed, a message appears on this screen letting you know.)

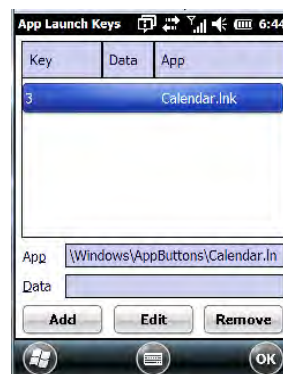
The cursor moves to the App field and a new screen is displayed where you can choose the application to which you want to assign the application key. If you need to, you can Browse through the information in your hand-held until you locate the application you want to launch.



- Once you've selected the file you want to map, tap on **OK**.

The cursor moves to the *Data* field. You can use this field if you need to assign special parameters to your application launch key. If you don't want to assign any parameters, you can leave the *Data* field blank. If, for example, you want to assign an application launch key to launch the Word Mobile application, you can leave this field blank. If you want to assign an application launch key that will open a specific document in the Word Mobile application, you need to browse to and choose that document while the cursor is in the *Data* field.

- Tap on **OK**.

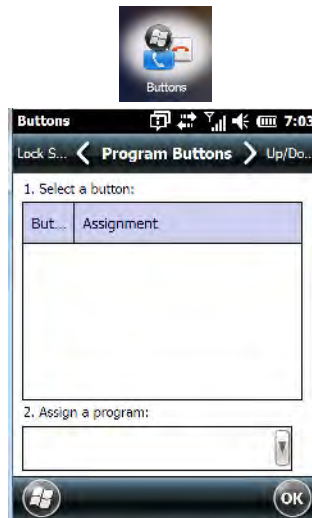


- If you need to *Edit*, *Remove* or *Add* another App Launch Key, you can do it from this final screen. Otherwise, tap on **OK** to save your *Application Launch Key*.
- To launch the application you chose, press the application key you assigned.

6.8.2 Buttons

A number of apps are included under this icon.

- Tap on the **Start>Settings>Personal>Buttons** icon to display the apps.

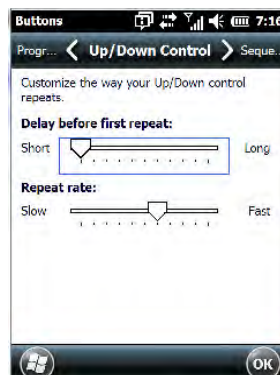


6.8.2.1 Program Buttons Tab

In the *Program Buttons* tab, you can customize the program hardware buttons to open your most used programs.

- Under *Select a button*, tap on the **button** to which you want to assign a program.
- Choose a program from the **Assign** drop-down menu.

6.8.2.2 Up/Down Control Tab

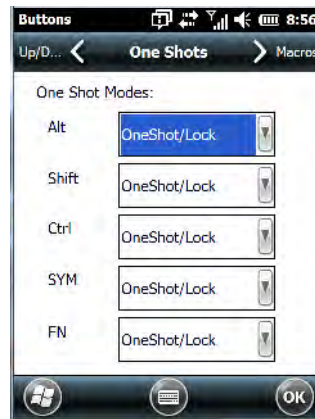


- Tap on **Start>Settings>Personal>Buttons** icon to display this screen. Scroll to the **Up/Down Control** tab.

Sliding the *Delay before first repeat* bar to the left decreases the delay between key repeats while sliding the bar to the right increases the repeat delay time.

Sliding the *Repeat rate* bar to the left slows the rate at which an [Up/Down] button repeats when pressed. Sliding the bar to the right increases the key repeat rate.

6.8.2.3 OneShots



The options in this tab allow you to determine how modifier keys on your EP10 behave. For each modifier key - [ALT], [SHIFT], [CTRL], [SYM] and [BLUE/FN] - you have the following options in the drop-down menu: *Lock*, *OneShot*, and *OneShot/Lock*.



Important: *Once you've assigned a OneShot mode to a modifier key, you need to tap on the OK button at the top of the tab to activate your selection.*

Lock

If you choose *Lock* from the drop-down menu, pressing a modifier key once locks it 'on' until you press the modifier key a second time to unlock or turn it off.

OneShot

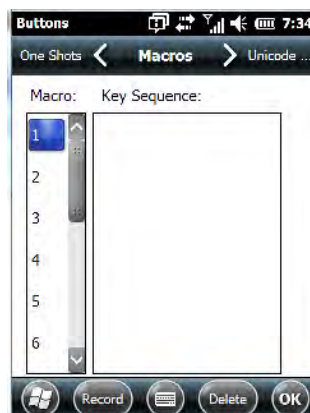
If you choose *OneShot*, the modifier key remains active only until the next key is pressed.

OneShot/Lock

OneShot/Lock allows you to combine these functions. When you choose this option and you press the modifier key once, it remains active only until the next key is pressed.

If you press the modifier key twice, it is locked 'on', remaining active until the modifier key is pressed a third time to turn it 'off'.

6.8.2.4 Macro Keys



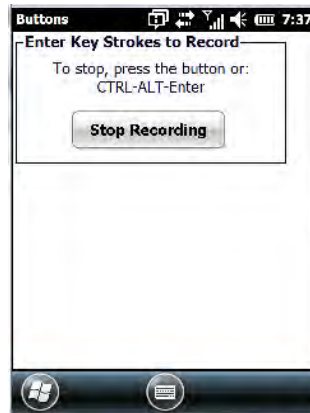
A macro has 20 programmable characters (or "positions"). The macro keys can be programmed to replace frequently used keystrokes, along with the function of executable keys including [ENTER], [BKSP] and [DEL] ([BLUE/FN]-[BKSP]), function keys, and arrow keys.

Recording and Saving a Macro

You can program up to 15 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** button.

A *Record Macro* screen is displayed.



- 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, tap on the **Stop Recording** button.

A new screen - *Verify Macro* - displays the macro sequence you created.

- Tap on the **Save** button to save your macro. Your macro key sequence is listed in the *Macro* screen.
- Tap on **OK** to save your macro key assignment.

Executing a Macro

To execute a *Macro*, you must use *Scancode Remapping* to map the macro to a specific key.



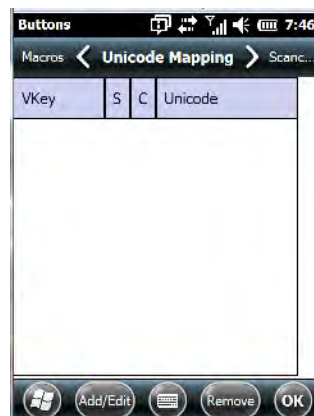
Note: Refer to "Scancode Remapping" on page 132.

Deleting a Macro

- In the *Macros* tab, highlight the macro number you want to delete.
- Tap on the **Delete** button.

6.8.2.5 Unicode Mapping

- Tap on the **Unicode Mapping** tab to display this screen.



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 ex-

ample, "a (U+0061)" indicates that the character "a" is represented by the Unicode value "0061", and so on. Keep in mind that Unicode configurations are represented as hexadecimal rather than decimal values.

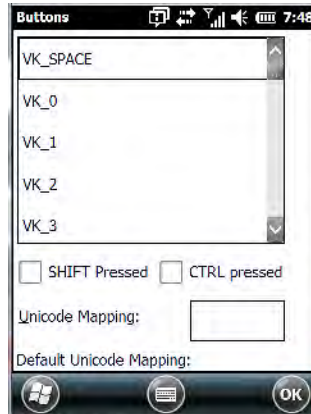
All user-defined Unicode mappings are listed in the Unicode Mapping tab in order of virtual key value, and then by order of the shift state. If a Unicode mapping is not listed, the Unicode mapping is mapped to the default Unicode value.

Adding and Changing Unicode Values



Note: Changes to Unicode mappings are not saved until you exit the Unicode Mapping tab by tapping on [OK].

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



- Highlight a value in the Unicode mapping list.
- 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 on the checkbox next to 'SHIFT Pressed' and/or 'CTRL Pressed'.

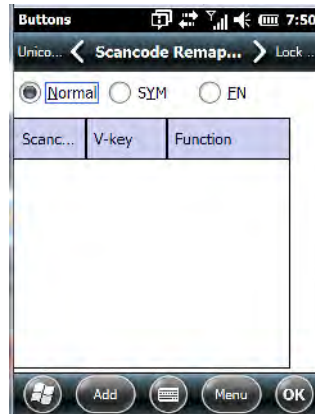
Removing Unicode Values

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

6.8.2.6 Scancode Remapping

A scancode is a number that is associated with a physical key on a keyboard. Every key has a unique scancode that is mapped to a virtual key, a function, or a macro. Scancode Remapping allows you to change the functionality of any key on the keyboard. A key can be remapped to send a virtual key (e.g. VK_F represents the 'F' key; VK_RETURN represents the [ENTER] key, etc.), perform a function (e.g. turn the scanner on, change volume/contrast, etc.) or run a macro.

There are three different tables of scancode mappings: the Normal table, the Blue table and the Orange table. The Normal table defines unmodified key presses; the *Blue* table defines key presses that occur when the [FN/BLUE] modifier is on; the *SYM* table defines key presses that occur when the [FN/ORANGE] modifier is on. The default mappings of these scancodes can be overwritten for each of these three tables using *Scancode Remapping*.



The first column in the *Scancode Remapping* tab displays the scancodes in hexadecimal. If the scancode is remapped to a virtual key, that virtual key is displayed in the next column labelled 'V-Key'. A virtual key that is 'Shifted' or 'Unshifted' is displayed in the third column labelled 'Function'.

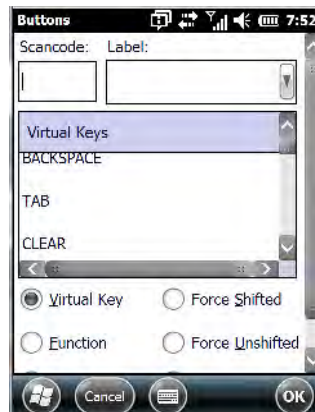
If the scancode is remapped to a function or a macro, the first and second columns remain blank while the third column contains the function name or macro key number (e.g., Macro 2).

Adding a Remap

To add a new remapping:

- Tap the **Add** button at the bottom of the dialog box.

The *Remap Scancode* dialog box is displayed.



- Type the scancode in hexadecimal in the field labelled **Scancode**.



Note: The **Label** field displays the default function of the scancode you are remapping.

Virtual Key, Function and Macro

The radio buttons at the bottom of the dialog box allow you to define to what the scancode will be remapped to: *Virtual Key*, *Function* or *Macro*.

When *Virtual Key* is selected, you can choose to force [SHIFT] to be on or off when the virtual key is sent. If *No Force* is selected, the shift state is dependent on whether the shift state is on or off at the time the virtual key is sent.

When *Function* is selected, a list of valid functions appears in the dialog box.

When *Macro* is selected, the macro keys available on your unit are listed in the dialog box.

- Choose **Virtual Key** > **Function** or **Macro**.
- Choose a function from the *Function* list, and tap on **OK**.

Editing a Scancode Remap

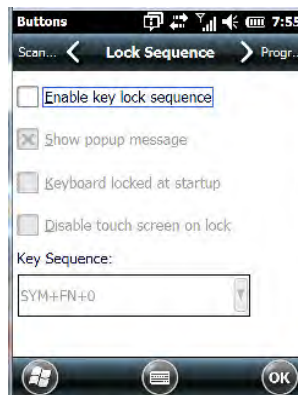
- In the *Scancode Remapping* tab, tap on the remap you want to edit.
- Tap on the **Edit** button, and make the appropriate changes.
- Tap on **OK** to save your changes.

Removing a Remap

- In the *Scancode Remapping* tab, highlight the scancode you want to delete, and tap on the **Menu** button, and choose **Remove**.
- Tap on **OK**.

6.8.2.7 Lock Sequence Tab

The *Lock Sequence* tab allows you to lock the hand-held keyboard to prevent keys from being pressed accidentally when, for example, the unit is inserted in a holster.



- To lock the keyboard, tap in the checkbox next to *Enable key lock sequence*.
- Tap in the checkbox next to *Keyboard locked at startup*.
- In the *Key sequence* drop-down menu, choose the key sequence you need to type to unlock the keyboard.
- Reset the EP10 - press and hold down the **[BLUE/FN]** key and the **Power** button.



Note: It is useful to leave the **Show popup message** enabled (default) so that anyone attempting to use the EP10 keyboard will see the key sequence they will need to enter to unlock the keyboard displayed on the screen.

A locked keyboard icon is displayed in the softkey bar when the keyboard is locked.



- Type the key sequence to unlock the keyboard.

6.9 Phone

- Tap on **Start>Settings>Personal>Phone** to display options to help you tailor the EP10 phone features.



Important: These tabs are defined under “Phone: Sounds Tab” on page 23.

6.10 System Folder

- Tap on **Start>Settings>System** icon to display a group of system apps.



6.10.1 About

Tapping on **Start>Settings>System** tab, and then the **About** icon displays a grouping of tabs that provide device information.



Version Tab

This tab outlines the Windows Embedded 6.5 Professional version, processor information, memory size and a description of the expansion card, if one is in use.

Device ID Tab

This tab provides fields in which you can assign a *Device name* and *Description* (optional) for the EP10. This name is used by the EP10 to identify itself to other devices.

Keep in mind that this must be a unique name across a network. If you are unable to connect to a network because another device with the same name is already connected, you'll need to assign a new name here.

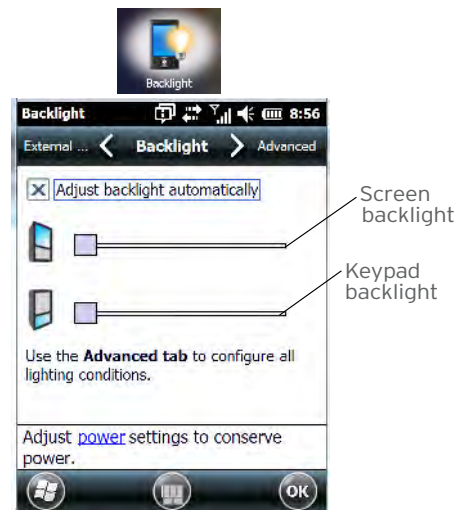
Copyrights

The *Copyrights* tab lists the copyright information for the software loaded on your EP10.

6.10.2 Backlight - Screen and Keypad

Tapping on *Start>Settings>System* tab followed by the *Backlight* icon allows you to determine the backlight and power properties of the EP10.

6.10.2.1 Backlight Tab



This tab allows you to tailor the EP10 backlight behaviour of the screen and keypad to best preserve battery life.

By default, the EP10 is set to adjust the backlight automatically. An x should be present in the checkbox to the left of *Adjust backlight automatically*. Note that automatic adjustment is based on the settings in the *Advanced* tab.

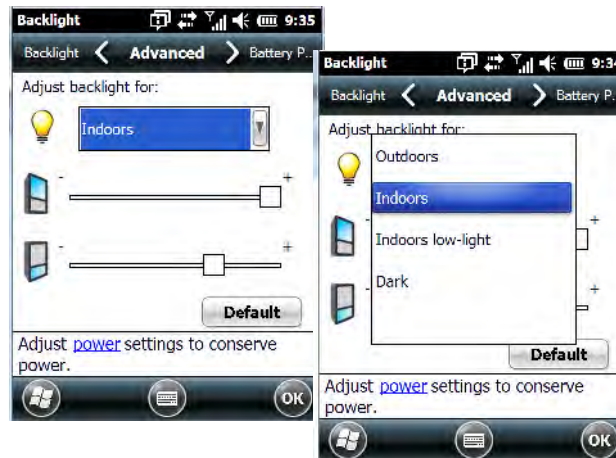
Manually Adjusting Screen and Keypad Brightness

The top sliding button adjusts the screen brightness while the bottom sliding button adjusts the keypad brightness. To adjust the backlight manually:

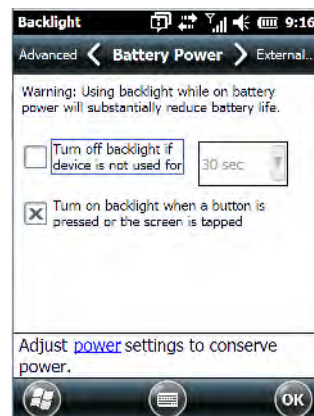
- Disable *Adjust backlight automatically*.
- Slide the buttons to the left to decrease brightness and to the right to increase brightness.

6.10.2.2 Advanced Tab

The drop-down menu at the top of the *Advanced* tab allows you to set up backlight behaviour for different lighting conditions so that when you choose one of the lighting categories, your EP10 will adjust to the selected ambient light conditions automatically.



6.10.2.3 Battery Power Tab



This tab allows you to tailor the EP10 backlight behaviour to best preserve battery life.

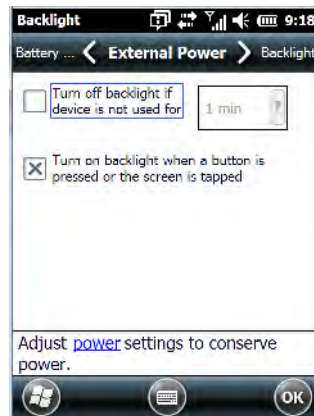
- To define how long the backlight should stay on when the EP10 is not in use, tap in the checkbox to the left of **Turn off backlight if device is not used for**.



Note: This option is essentially 'suspend' mode. If the backlight is turned off, tapping on the screen or pressing a key displays the screen in which you were working before the backlight turned off.

- Tap on the drop-down menu, and choose the number of seconds or minutes the backlight will remain on when the hand-held is idle.
- To **Turn on backlight when a button is pressed or the screen is tapped**, tap in the checkbox to the left of this option.

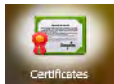
6.10.2.4 External Power Tab



This tab determines the behaviour of the backlight when the hand-held is using external rather than battery power. Refer to the instructions in "Battery Power Tab" in the previous section for details.

6.10.3 Certificates

- Tap on **Start>Settings**, and then tap on the **System** icon.
- Tap on the **Certificates** icon.



A public key is transmitted as part of a certificate. The certificates listed in the *Certificates* tabs ensure that the submitted public key is, in fact, the public key that belongs to the submitter. The hand-held checks that the certificate has been digitally signed by a certification authority that the hand-held explicitly trusts.

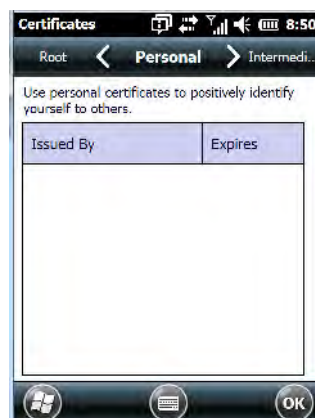
Your EP10 has certificates already preinstalled in the unit. Personal certificates establish your identity, intermediate certificates, as the name suggests, identifies intermediate certification authorities and root certificates establish the identity of the servers with which you can connect.

6.10.3.1 Choosing a Certificate

Normally, certificates already configured for your network are chosen automatically by the EP10. If a certificate cannot be chosen automatically, you must choose it from the *Certificates* list.

To choose a certificate, tap the desired certificate. Your EP10 will connect automatically.

Personal Tab



The *Personal* tab lists the name of the certificate issuer and the expiration date.

- To view additional information about a personal certificate, tap on a **certificate** in the list.

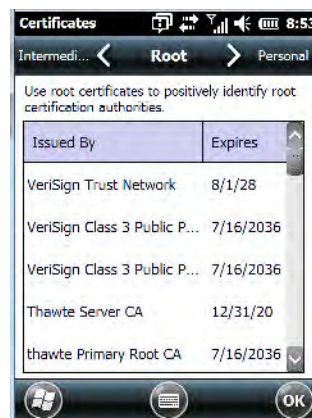
- To delete a certificate, tap and hold the stylus on the item you want to delete until a pop-up menu is displayed. Tap on the **Delete** command.

Intermediate Certificates

The items in this list help identify intermediate certification authorities.



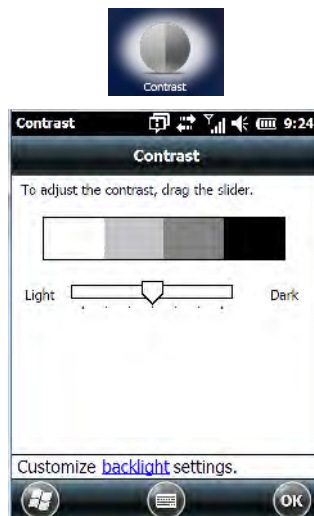
Root Certificates



- To view details about a certificate - who issued the certificate, to whom it was issued, the issue date and the expiry date - tap on a certificate in the list.
- To delete a certificate, tap and hold the stylus on a certificate. In the pop-up menu, tap on the **Delete** command.

6.10.4 Contrast

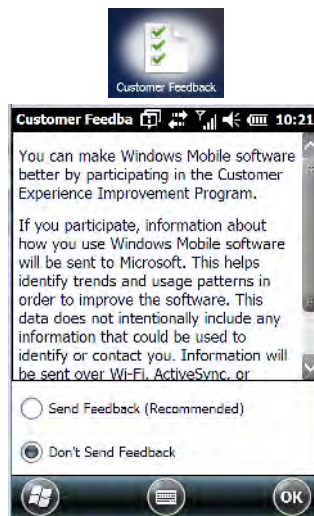
Tapping on the *Contrast* icon displays a screen in which you can tailor the screen contrast.



- Drag the sliding button between *Light* and *Dark* to achieve the desired screen colour contrast.

6.10.5 Customer Feedback

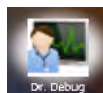
This option allows Microsoft to track how you use your EP10 so that they can make improvements to the software. The radio buttons allow you to turn this feature on or off.



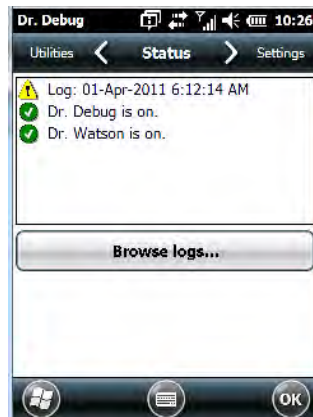
6.10.6 Dr. Debug

Dr. Debug is an error diagnostic tool.

- Tap on **Start>Settings>System**. Tap on the **Dr. Debug** icon.

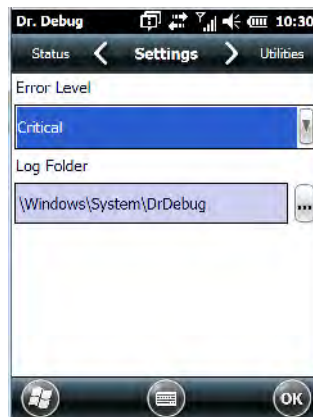


6.10.6.1 Status



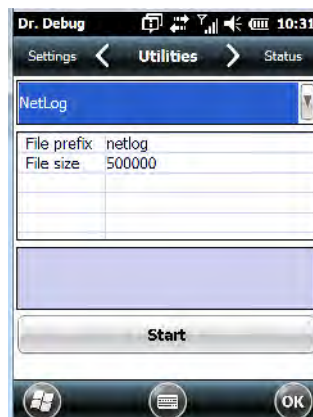
This tab indicates the status (on/off) of the tools. Tapping on *Browse logs* displays error logs for your review.

6.10.6.2 Settings



- Choose an **Error Level** from the drop down menu.
- To change the location where debug information will be stored, tap on the button to the right of the *Log Folder* option.

6.10.6.3 Utilities



Two utilities are available: *NetLog* and *RilLog*. The *NetLog* utility is used to log network traffic. The *RilLog* utility captures Radio Interface Layer (RIL) debug outputs. When you tap on the Start button, debug data is collected so that, if necessary, it can be forwarded to a Psion technician for evaluation.

6.10.7 Encryption

This option allows you to encrypt the data on your storage card.

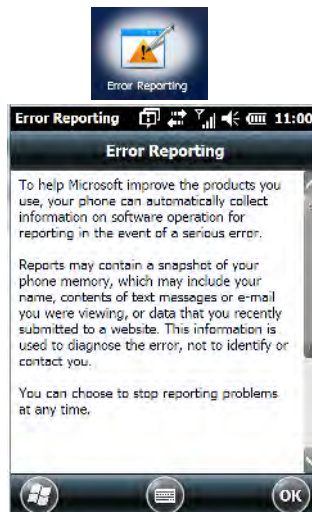
- Tap on **Start>Settings>System tab>Encryption** icon.



6.10.8 Error Reporting

Error Reporting allows you to enable or disable Microsoft error reporting prompts.

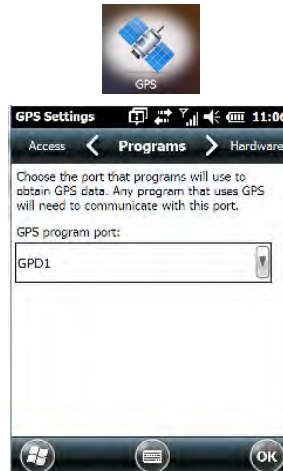
- Tap on **Start>Settings**. Tap on the **System** tab followed by the **Error Reporting** icon.



6.10.9 GPS (Global Positioning System)

With a Global Positioning System (GPS) receiver, you can locate your exact position on a map. However, even without a GPS receiver, several different mapping programs can run on your EP10.

- Tap on **Start>Settings>System tab>GPS** icon.



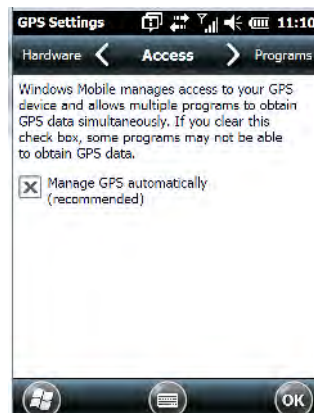
- Tap on the **GPS program port** drop-down menu, and choose the communication port that the GPS software will use to communicate with the GPS receiver.



Note: Your EP10 may automatically detect the GPS receiver that you are using and enter the settings in the Hardware tab. If not, you'll need to enter this information yourself. You can find this information in the user manual of the GPS receiver.

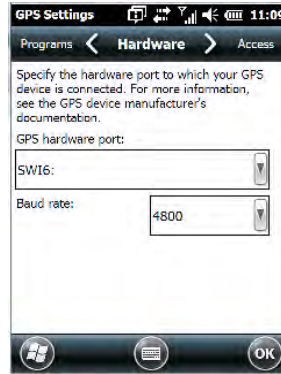
Windows Embedded 6.5 automatically manages access to the GPS receiver. However, some programs may not work with automatic configuration. If this is the case:

- Tap on the **Access** tab, and disable *Manage GPS automatically* (recommended).



You can go to www.microsoft.com/pocketstreets if a map-viewing program is not included with your EP10, and copy the file to your EP10.

- Tap on the **Hardware** tab, and set the *GPS hardware port* to **COM2**. Set the *Baud rate* to 4800.



6.10.10 GPS (Global Positioning System) Settings

This applet allows you to define how the GPS module operates. You can determine when the GPS module can draw power and under what conditions, and choose from a set of GPS profiles built into the modem. You can also set up AGPS (Assisted Global Positioning System).

- Tap on **Start>Settings>System>GPS Settings** icon.



Power Tab

This tab allows you to dictate how the GPS module behaves. The GPS Power drop-down menu is used to control when the GPS is powered on and off.

- *Off* - the GPS module is left off, always.
- *Always on* - the GPS module is powered on at all times regardless of the power state of the EP10 (suspend or standby).
- *On, and off in suspend* - the GPS module is powered on, but if the EP10 is in suspend mode, the GPS module is turned off.

AGPS (Assisted Global Positioning System) Tab

To determine your location, a GPS module receives data from three or more GPS satellites in fixed orbit around the Earth. The GPS module triangulates your location based on the time it takes for signals to get to and from the satellites. This works well in fairly clear areas – outdoors, for example. However, if you're attempting to triangulate your location in city centres where signals bounce off tall concrete buildings or from within a building, the GPS module will have greater difficulty calculating a fix.

AGPS reduces *Time To First Fix* (TTFF) and increases the likelihood of finding and keeping a fix in poor coverage areas such as indoor sites. AGPS downloads satellite ephemeris (orbital) data to the EP10 periodically through WiFi or WWAN. The downloaded data is used by the GPS module to speed the process of getting a fix.

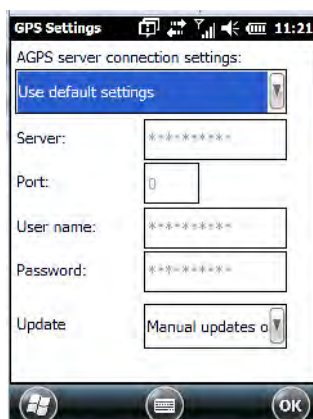
Update

- Click on the **Update** button to download *Extended Ephemeris* (EE) files from a secure host on the internet using any interface that has an internet connection (WWAN or WiFi). These files contain several days worth of ephemeris (orbital) data that can be used if the satellite's broadcast ephemeris is not available.

The *Status* field above the Update button displays the progress of the download, and once successfully downloaded, the Status field will read Idle.

Settings

- Click on the **Settings** softkey to define the AGPS server connection settings.

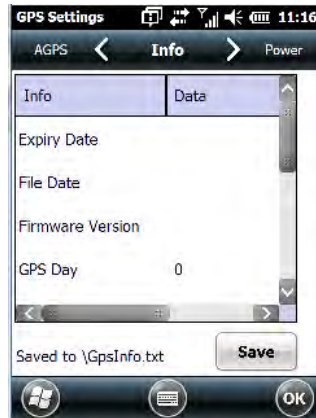


The AGPS server connection settings drop-down menu allows you to choose from two settings: *Use default settings* and *Use custom settings*.

The *Use default settings* option is generally acceptable for most applications. Note that aside from the *Update* field in which you can choose how long the fix is stored in your EP10, the field values cannot be edited.

The *Use custom settings* option is generally used to configure devices that will have access only to an intranet rather than the Internet and should only be altered with the assistance of qualified Psion personnel. They will be able to help you configure your Psion device(s) and web server to retrieve the ephemeris data.

Info Tab



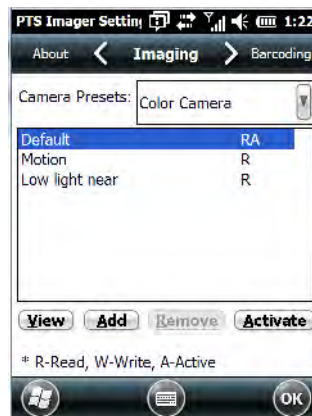
This tab provides general information about the GPS module such as the firmware version, the date on which files were last updated, and so on. If GPS module support service is required, you may be asked to tap on the Save button in this tab and forward the information to Psion support staff.

6.10.11 Imagers Settings

The *Imagers* applet is used to create, modify, delete and activate imager settings. The principle uses of the applet are to decode bar codes and to capture images.

To launch this applet:

- Tap on **Start>Settings>System**, and then tap on the **Imagers** icon.

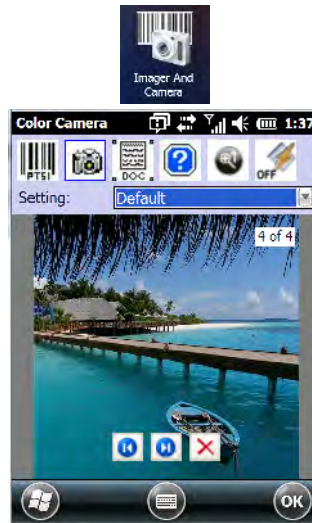


Important: Refer to Appendix C: "Imagers Applet" for setup details.

An *Imager & Camera* demo applet is also provided to illustrate how the imager and camera work.

To launch the demo applet:

- Tap on the **Start> Imager And Camera** icon.

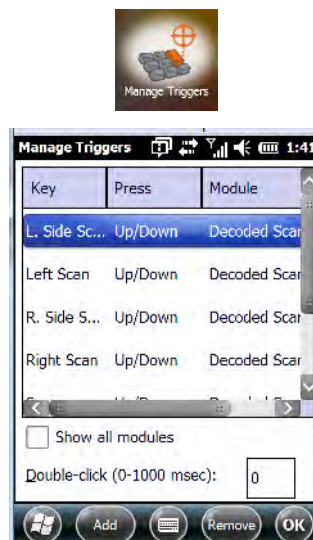


Note: You can also launch the **Imager Applet** from within the demo screen. Tap on the **Settings** drop-down menu and choose **Advanced**.

6.10.12 Manage Triggers

Manage Triggers allows you to configure how bar code scanners and other devices are triggered. You can configure the trigger ID for each trigger button for both single- and double-click, and the double-click time.

- Tap on **Start>Settings>System>Manage Triggers** icon.



6.10.12.1 Trigger Mappings

A *trigger mapping* is an association between a particular key on the keyboard and a driver or application, the module(s) - sometimes referred to as “trigger consumer(s)” - of the trigger source. Along with keyboard keys, trigger sources can also be grip triggers, external hardware triggers or software-based. When the specified key is pressed, the trigger consumer (for example, a decoded scanner) is sent a message.



Important: *It is not possible to have two or more identical mappings – for example [F1] cannot be mapped to the Non-Decoded Scanner twice – even if the trigger type is different.*

A keyboard key that is used as a trigger source will no longer generate key data or perform its normal function. For example, if the space button is used as a trigger source, it will not be able to send space characters to applications.

Double-Click

When a key is pressed and released, then pressed again within the configured time (between 0 to 1000 milliseconds), a double-click occurs. See also “Trigger Press Type” on page 149.

Show All Modules

By default, the trigger mapping list only shows active mappings. Mappings for drivers or applications that are not currently active are not normally displayed. By checking this checkbox, all mappings, both active and inactive, are displayed.

Add

Tapping this button brings up the *Add mapping* dialog (see below), so that you can add new trigger mappings.

Edit

Tapping this button brings up the *Edit mapping* dialog, so that you can edit existing trigger mappings.

Remove

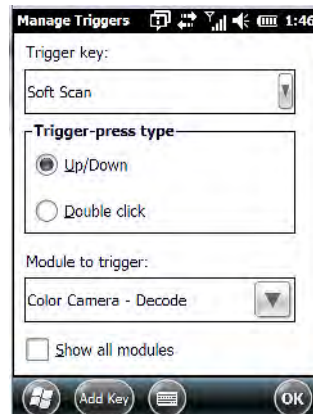
Tapping this button removes an existing mapping.

OK

The OK button in the Manage Triggers screen saves all changes made. If the [ESC] key is pressed, all changes are discarded.

6.10.12.1 Add and Edit Trigger Mapping

- Tap on **Add** to add a new trigger map, or tap on **Edit** to edit an existing trigger map.



Trigger Key

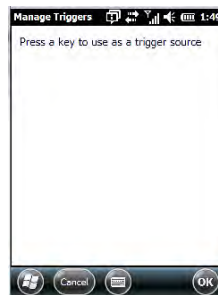
This drop-down list allows you to specify the source of the trigger events, such as the Grip Trigger, Left Scan, etc., for the trigger module selected.



Note: *It is possible to map the same source to different modules (trigger consumers) – for example, to both the Imager and Non-Decoded Scanner. If so, both devices/operations will occur simultaneously. This is not recommended in most cases, especially with devices such as Imagers. It is also possible to map different sources to the same module (trigger consumer).*

Add Key

Only existing trigger sources are shown in the Source combo-box. To add a new source to this list, tap on the **Add Key** button. A dialog box pops up, allowing you to select the keyboard key to use as a trigger source.

**Trigger Press Type**

You can enable either an **Up/Down** or **Double Click** response to a trigger press. Normally, when a trigger (keyboard key, etc.) is pressed and released, a “trigger down” event is sent to the “owner” – that is, the application receiving the trigger press information – followed by a “trigger up”. If Double Click is chosen in this menu, when the trigger is pressed, released, and then pressed again, a “double-click” event will occur. If a mapping with the Up/down type has also been configured for the same source, it will only receive the first set of trigger events.

Module to Trigger

This identifies the driver or application receiving the trigger presses.

Show All Modules

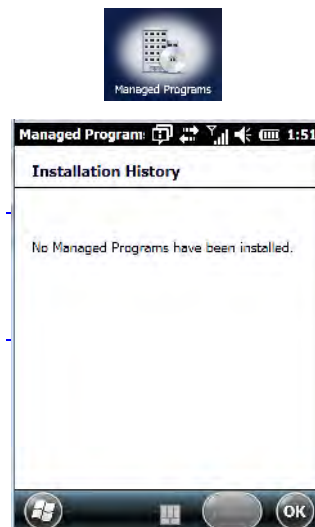
By default, inactive owners are not shown. By checking this checkbox, all owners, both active and inactive, are displayed.

6.10.13 Managed Programs

Managed Programs lets you view, download and install applications that are deployed by the *System Center Mobile Device Manager* (a server-side solution that helps enable IT to have control of their device deployment with respect to security, management and access to the corporate network).

To access *Managed Programs*:

- Tap on **Start>Settings>System tab>Managed Programs** icon.





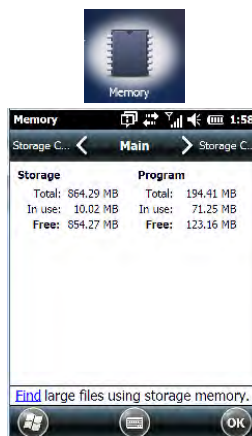
Note: Your system administrator can provide the details you'll need to use Managed Programs effectively.

6.10.14 Memory

This applet allows you to view memory use and storage card memory allocation. To display the options for this applet:

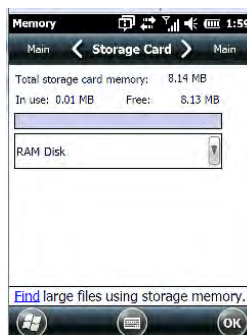
- Tap on **Start>Settings**. Tap on the **System** tab followed by the **Memory** icon.

6.10.14.1 Main Tab



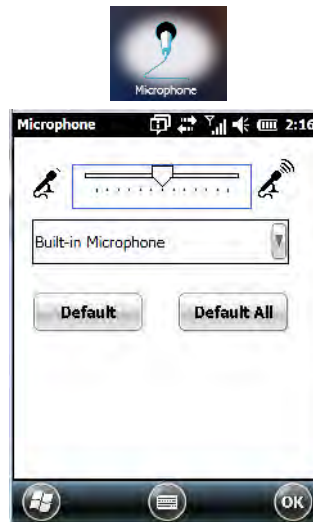
This tab lists the memory allocated for file and data storage and for program storage.

6.10.14.2 Storage Card



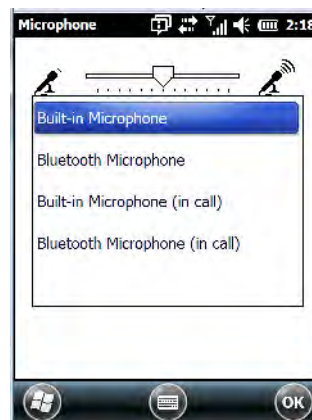
The *Storage Card* screen indicates the total storage card or RAM disk memory along with the amount in use.

6.10.15 Microphone



Use this dialog box to adjust the gain for the specific microphones associated with your hand-held.

- Tap on the drop-down menu, and choose the microphone for which you want to adjust the gain.



- Slide the tab at the top of the dialog box to the left to decrease the gain and to the right to increase the gain.

Tapping on the *Default* button sets the current microphone you've chosen to the default gain. Tapping on *Default All* sets all microphones listed to their default gain.

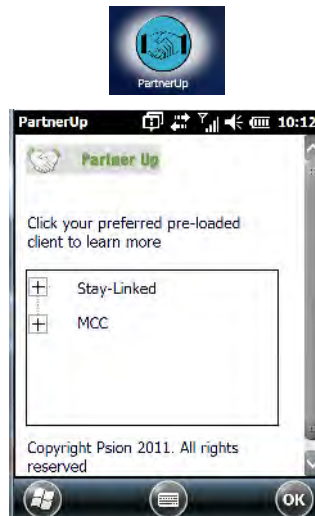
6.10.16 PartnerUp

This app displays a number of pre-loaded applications. Tapping on an app in the list takes you to an associated web site.

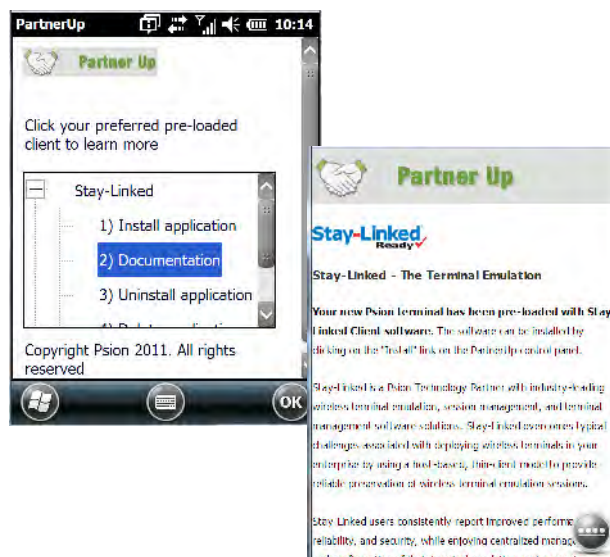
The operator can then install the application. If a license is required, it can be obtained by sending an e-mail to the software license mailbox or by contacting a Sales Rep from the Psion contact web page.

www.pSION.com/us/about/contact_pSION-offices.htm

Additional pieces of software such as a server must be obtained through Psion.



Tapping on a preloaded client in this screen displays a drop-down menu from which the operator can choose from an array of related options. In the example following, Stay-Linked Documentation was chosen.

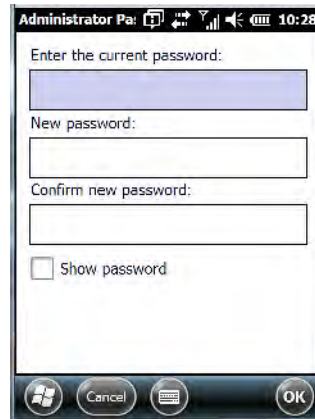


6.10.17 PsionVU

PsionVU allows the administrator to tailor how the EP10 operates and the options the user can access. Note that the look of the *Today* screen will change from icons that are finger accessible to a list of items that is best accessed using a stylus.

- Tap on **Start>Settings>System>PsionVU**.

If an *administrative password* has not already been set up, the following screen is displayed where you can assign a password.

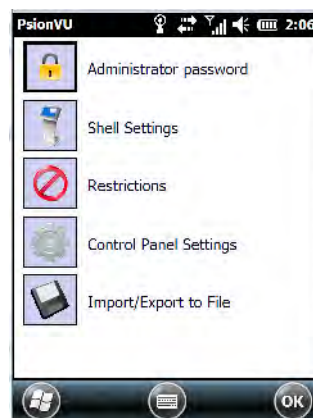


- Type a **New password**, and then re-enter it in the **Confirm new password** field.



Note: Once an administrative password is assigned, each time PsionVU is launched, a dialog box will be displayed requesting the password.

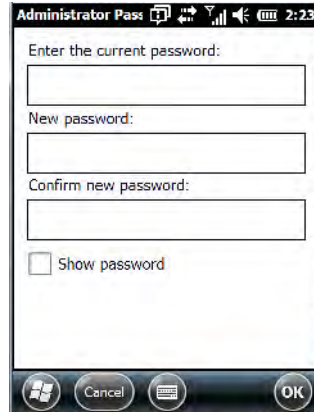
6.10.17.1 PsionVU Menu



The *PsionVU* menu provides access to the categories to help you tailor the look and operation of the EP10 for the user.

6.10.17.2 Administrator Password

If you want to change your password, you need to complete the *Administrator Password* screen:



- Tap on the **Administrator password** option, and type your **current password**.
- In the next field, type a **New password**. Retype the new password in the **Confirm new password** field, and tap on **OK**.

6.10.17.3 Shell Settings

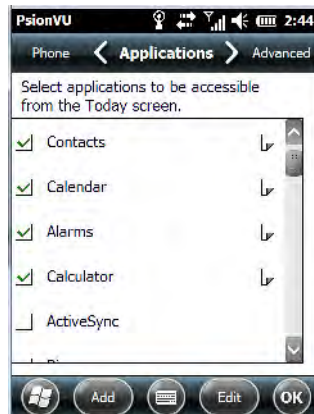


Note: Remember that changes do not take effect until the EP10 is set to User Mode and unit is reset. Refer to "Activating a Change - User Mode" on page 161.

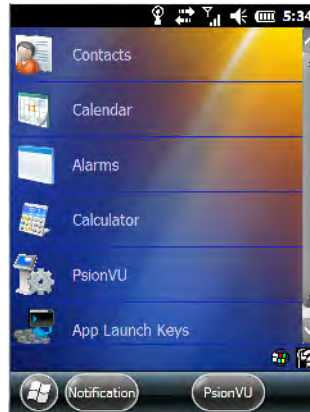
The *Shell Settings* option allows the administrator to tailor what operators see and what is available to them when EP10 is powered on. Note that these changes are not visible until the unit switches from Administrator Mode to User Mode.

Applications Tab

This tab allows you to choose the applications that the EP10 will see on the *Today* screen.



- Tap in the **checkbox** next to each application you want displayed on the *Today* screen. Tapping on the **Add** button displays a screen from which you can choose additional applications to add to the *Applications* tab.
- Once the EP10 is reset, the look of the *Today* screen differs significantly from the original version.



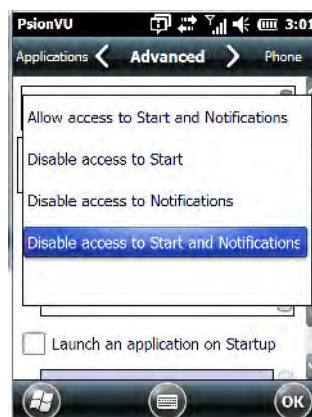
Advanced Tab

This tab provides a number of options to restrict what is available to the operator on start up.

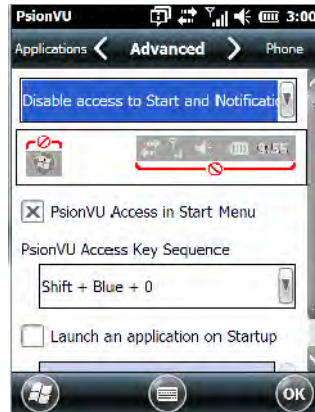


Start Button and Notification Restrictions

The drop-down menu at the top of the *Advanced* tab allows you to limit access to the navigation bar at the top of the screen and the Start button at the bottom of the screen.



When you choose an option, for example, *Disable access to Start and Notifications*, the sample bar below the drop-down menu marks the disallowed items in red.

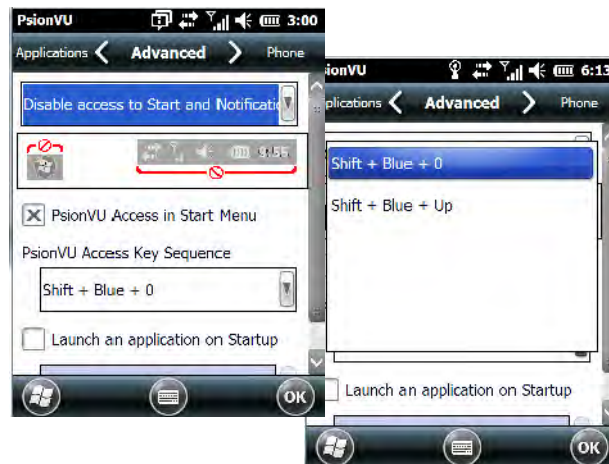


PsionVU Restrictions

To remove *PsionVU* from the *Start* screen:

- Tap in the **checkbox** next to *PsionVU Access in Start screen* to deselect it. The x should not be present in the checkbox.

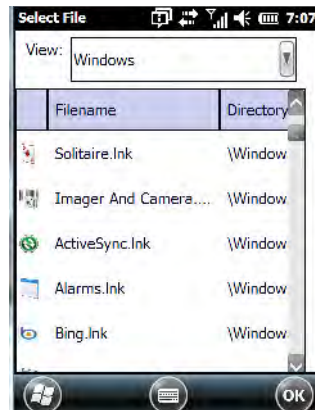
The *PsionVU Access Key Sequence* drop-down menu provides a two key sequences you can use to gain access to *PsionVU* when it is not accessible from the *Start* screen.



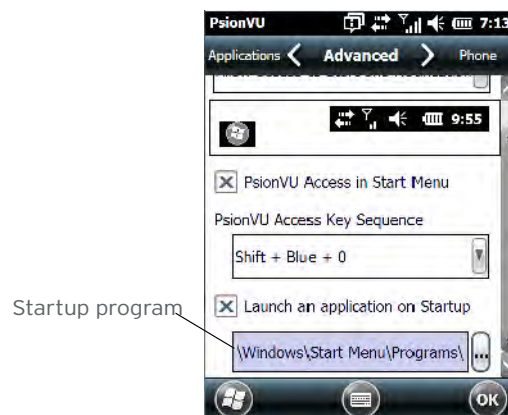
Note: If you disable "PsionVU Access in Start menu" or if you "Disable Start", the only way to access PsionVU or the Start screen applications is to type an "Access Key Sequence". In these cases, it is important that you make note of the key sequence you've chosen.

Launching an Application on Startup

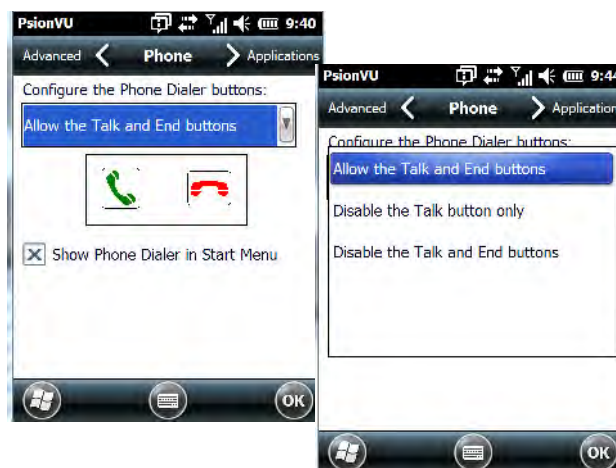
If you enable *Launch an application on Startup*, a screen is displayed where you can choose the application that will be launched automatically when the EP10 is powered up.



- Tap on the **application** you want the EP10 to launch on startup. Your choice is displayed in the *Advanced* tab.



Phone Tab



The *Phone* tab allows you to define access to the phone buttons on the EP10 keyboard by choosing an item from the *Configure the Phone Dialer* buttons drop-down menu.

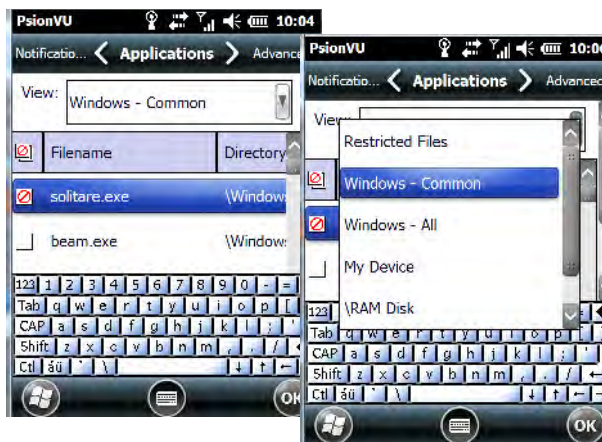
6.10.17.4 Restrictions

The *Restrictions* screen allows the administrator to restrict access to applications.



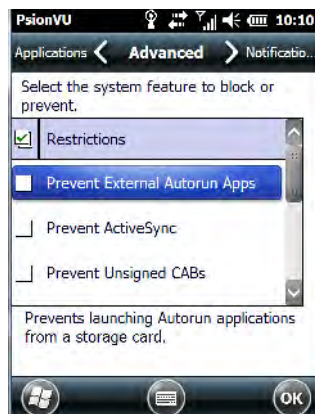
Note: Remember that changes do not take effect until the EP10 is set to User Mode and the unit is reset. Refer to “Activating a Change - User Mode” on page 161.

Application Tab



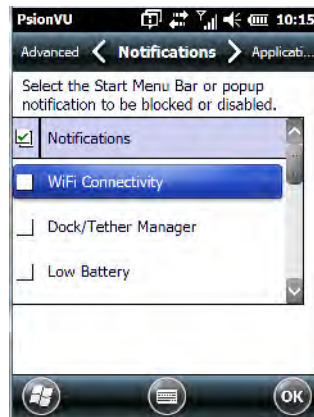
Tapping in the *View* menu displays a drop-down menu where you can define restrictions for each storage area of the EP10. Restricted items are marked in the checkbox to the left - in the sample screen above, *solitaire.exe* is restricted.

Advanced Tab



The *Advanced* tab lists system features you can prevent or block from user access. Tapping in the checkbox to the left of a feature adds a check mark indicating it is blocked.

Notifications



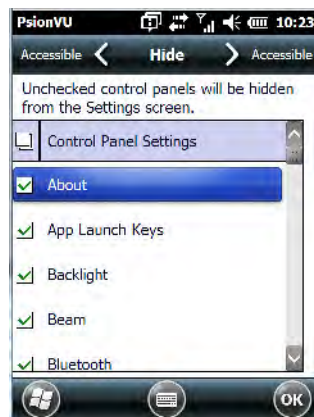
The *Notifications* tab allows you to choose which pop-up notifications are blocked.

6.10.17.5 Control Panel Settings

This options allows you to tailor items displayed in both the *Settings* screen and in the *Today* screen.

Hide Tab

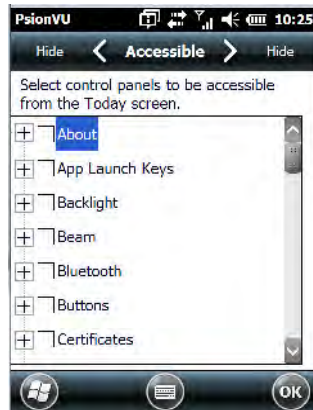
The *Hide* tab under the *Control Panel* allows you to determine which applications will be hidden in the *Settings* screen that is displayed when you tap on the *Start* button.



Remember that only *unchecked* items in this list are hidden.

Accessible Tab

The *Accessible* tab allows you to choose which items will be accessible in the *Today* screen.

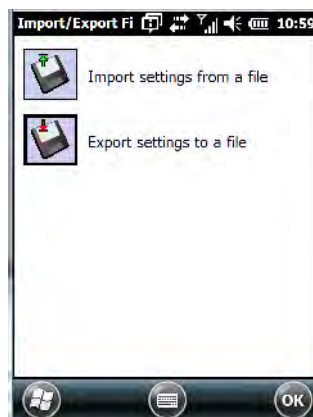


6.10.17.6 Import and Export Settings

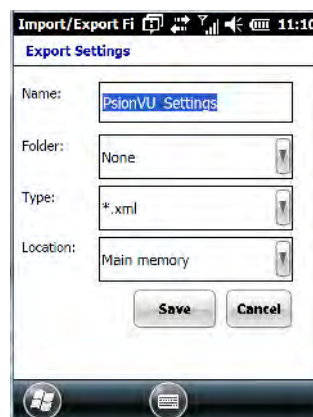
This option enables you to Export your settings file (.xml), and save it in the location of your choice. In addition, an Administrator has the option to Import these settings from one device to multiple devices of the same operating system.



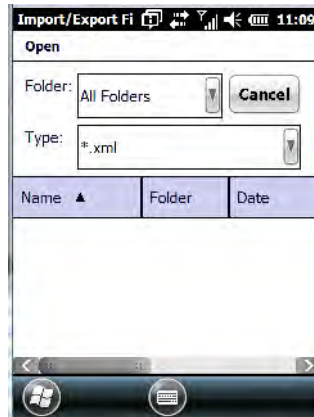
Important: A copy of this file should also be saved in a central repository for all Psion .xml files with a predefined name so that other Psion utilities can locate it.



Tapping on the *Export* button displays an *Export Settings* screen. The default Name - *PsionVU_Settings* - can be changed by the administrator even after it has been saved.



The .xml file contains all of the PsionVU configured settings, including the Administrator Password. When the file is imported to a device, the new password is applied immediately.

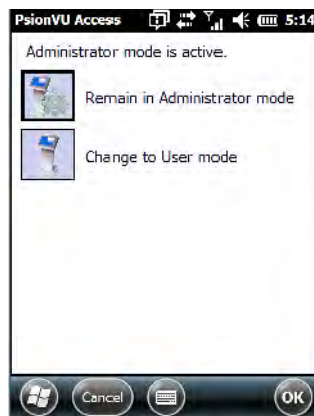


- Whether choosing to import or export files, the same file location options will be listed. Following the action, a message stating the success of the operation and the location of the file will be displayed.
- With the exception of the password, changes made to settings will take effect only after a warm reset. If further changes to the configuration are made, they will overwrite the changes caused by the import operation. After importing a file, a dialog will appear to enable you to reset now or later.

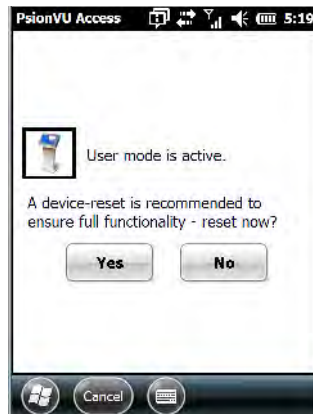
6.10.17.7 Activating a Change - User Mode

To activate the changes, you'll need change from *Administrator* to *User Mode*:

- In the tab you are working with, tap on **OK**. In the next screen - the *PsionVU menu* screen - tap on **OK**. A new screen, the *PsionVU Access* screen, is displayed.



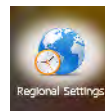
- Tap on **Change to User mode**. You'll need to reset the EP10 so that the changes you specified can take effect.



- Tap on **Yes** to reset the EP10 and activate your changes.

6.10.18 Regional Settings

To display the *Regional Settings* screen, tap on **Start>Settings**, and then tap on the **System** icon followed by the **Regional Settings** icon.



- Tap on the drop-down menu to choose your language and region.
Once you've selected a language and region, you may need to adjust the way numbers, currency, the time and the date appear in your EP10.
- Tap on the tab associated with each of the items, and choose how each item should be displayed on your EP10.

6.10.19 Remove Programs

- Tap on **Start>Settings**. Tap on the **System** icon followed by the **Remove Program** icon.



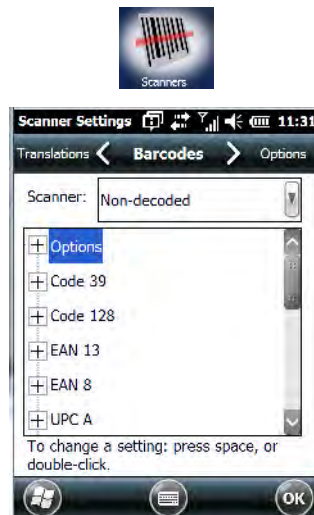
Tapping on the *Remove Programs* icon displays a screen listing the programs that can be removed from your unit.

- To remove a program, highlight it and then tap on the **Remove** button.

6.10.20 Scanner Settings

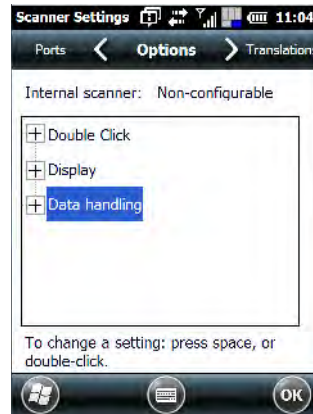
The *Scanners* icon in the Settings menu provides access to dialog boxes in which you can tailor bar code options.

- Tap on **Start>Settings**, and then tap on the **System** followed by the **Scanners** icon.



6.10.20.1 Options Tab

The Options tab allows you to tailor the double-click parameters and the display options associated with your scanner.



6.10.20.1.1 Double Click Parameters

Click Time (msec)

This parameter controls the maximum gap time (in milliseconds) for a double-click. If the time between the first and second clicks of the scanner trigger is within this time, it is considered a double-click. The allowable range is 0 to 1000. A value of zero disables this feature.

A double-click produces different results depending on whether or not a value is assigned in the "Click Data" parameter. When a value is not assigned for the "Click Data", double-clicking the scanner trigger overrides the target dot delay set in the "Dot Time" parameter and initiates a normal scan sweep. If a value is assigned for the "Click Data" parameter, double-clicking the scanner trigger inserts the "Click Data" value rather than initiating a scan.

Click Data

For both integrated and external scanners, this parameter determines which character is sent to the application installed in your EP10 following a double-click. A dialog box appears, asking that you press the key you want to insert. The ASCII/Unicode key value of the keypress is displayed.

6.10.20.1.2 Display Parameters

Scan Result

When this parameter is enabled, the type of bar code and the result of the scan appear on the screen. Note that this information is only displayed after a successful decode and is visible only while the scanner button is pressed. When the button is released, this information is cleared from the screen.

Scan Indicator

When this parameter is enabled, the laser warning logo appears on the display whenever the scanner is activated.

Scan Result Time (msec)

The value assigned to the "Scan Result Time (sec)" parameter determines how long the scan results of a successful scan are displayed on the screen. Time is measured in seconds, and a value of "0" (zero) disables the parameter. When you choose this option, a dialog box appears where you can enter a value.



Note: To remove the scan result from the screen before the "Result Time" has expired, point the scanner away from the bar code and press the trigger.

Good Scan Beep and Bad Scan Beep

These parameters determine whether or not the EP10 emits an audible scanner 'beep' when a good (successful) scan or a bad (unsuccessful) scan is performed, the number of vibrates, the duration of the vibrate, and so on. Set these parameters to tailor the behaviour of this parameter.

Multiple Beep Tones

This parameter determines whether or not multiple beeps will be allowed.

Good and Bad Scan Vibrates

These parameters determine whether or not the EP10 will vibrate (rather than beep) when a good (successful) scan or a bad (unsuccessful) scan is performed. Set these parameters to either *on* to enable the beeper or *off* to disable it. You can further refine how you want the vibrations to behave, specifying the following: Number of Vibrates, Duration of Vibrate (in milliseconds), and Pause between Vibrates (in milliseconds).

Soft Scan Timeout

This parameter is used by the SDK "Scan" function (soft-scan: starting a scan session via the SDK function, instead of a physical user trigger press). The value assigned to this parameter determines the soft-scan timeout from 1 to 10 sec. (default is 3 sec.).

Scan Log File

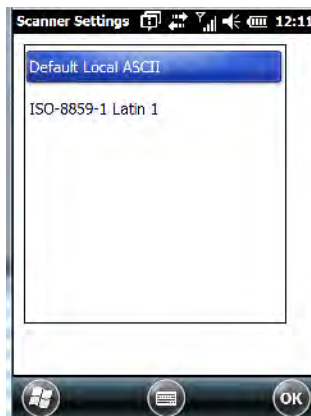
If this parameter is enabled, the input bar code and the modified/translated output bar code are logged in the file \Flash Disk\ScanLog.txt. Keep in mind that if the "Scan Log File" is enabled, there is a slight performance effect when performing multiple scans since the log file is written to persistent storage.

6.10.20.1.3 Data Handling

This option allows you to choose the code page your EP10 will use to display data - Default Local ASCII or ISO-8859-1 Latin 1.

Codepage:

Tapping on this option displays a window in which you can define the code page your EP10 will use.

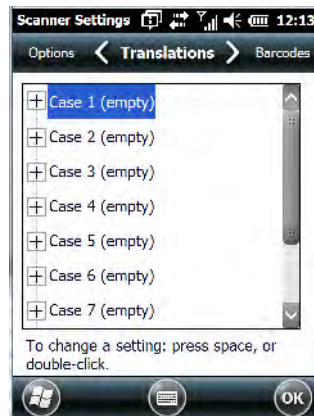


If you choose *Default Local ASCII*, the code page of the local OS is used. For example, if the local OS uses double-byte Chinese characters, choosing this option will filter data through the local ASCII of that OS and display it accurately, in this example, using double-byte characters.

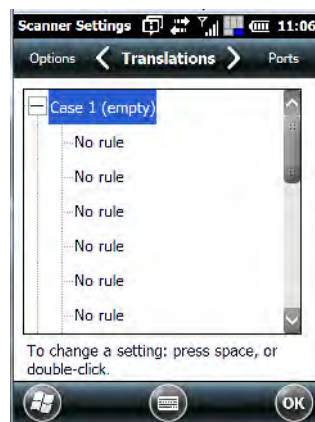
If you choose *ISO-8859-1 Latin 1*, data will be displayed according to the character mapping of this Latin 1 code page, ignoring the local OS code page.

6.10.20.2 Translations Tab

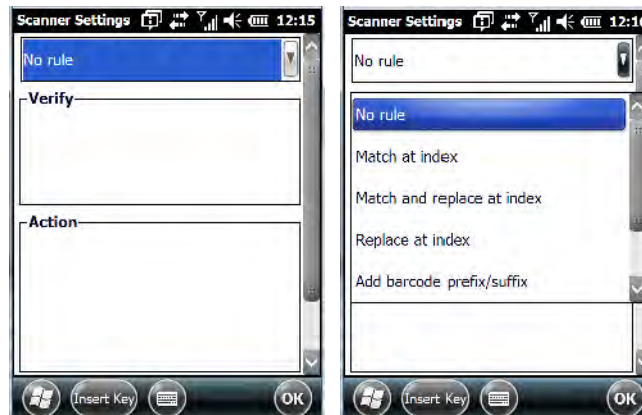
The *Translations* tab allows you to define up to 10 cases, each consisting of up to 10 rules in sequential order. Only one case will be applied to a bar code and a case will only be applied if all rules specified in the case are successful - if a rule within a case fails, the entire case fails.



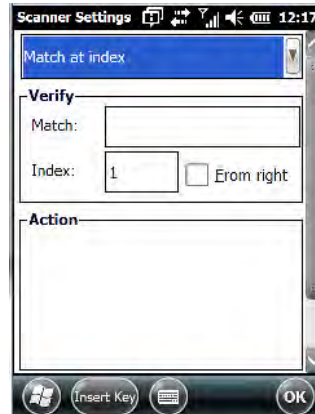
- In the *Translations* tab, double-tap on a **Case #** to create rules.



- Tap on the **No rule** drop-down menu to display the rules.



When you choose a rule, an associated screen is displayed in which you can define the rule.



6.10.20.2.1 Case Rules

The case rules are defined as follows:

- **No rule** - ignored.
- **Match at index** - matches the match string at a specified index.
- **Match and replace at index** - matches the match string at a specified index and replaces/changes it.
- **Replace at index** - replaces/changes unspecified data in a given range.
- **Add barcode prefix/suffix** - adds a global prefix or suffix.
- **Verify barcode size** - verifies the bar code size. This rule should generally be assigned first, before creating subsequent rules.
- **Search and replace** - replaces all instances of the match string. (Note that this rule cannot fail.)

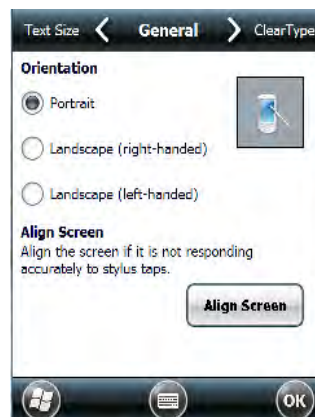


Important: *Keep in mind that the effects of previously applied rules must be taken into account when creating subsequent rules. For example, if the bar code size is important, it should be checked before any rules that might change the size are applied.*

The information about the status of each case/rule is displayed in the scan log file (see “Scan Log File” on page 165) when enabled. This is useful if a case fails, and you are trying to determine why a rule is failing.

6.10.21 Screen

- Tap **Start>Settings**. Tap on the **System** icon, and then tap on the **Screen** icon.



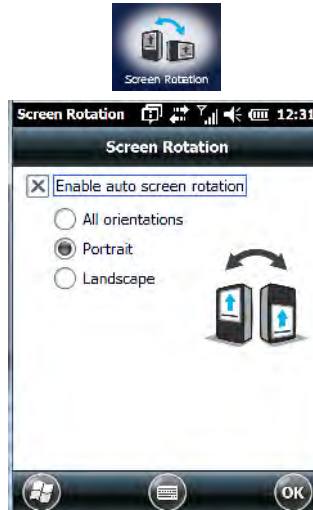
This icon allows you to align (calibrate) your touchscreen, turn *ClearType* on and off and adjust the size of the text displayed on the EP10 screen.



Important: Refer to “Aligning (Calibrating) the Touchscreen” on page 39.

6.10.22 Screen Rotation

- Tap **Start>Settings**. Tap on the **System** icon, and then tap on the **Screen Rotation** icon.



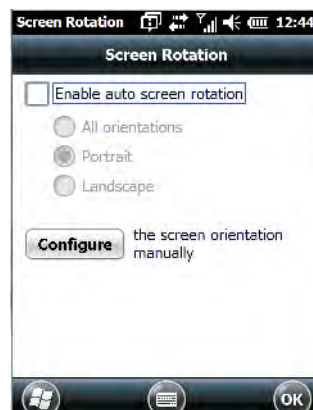
This screen allows you to determine how your EP10 screen will behave depending on how the unit is rotated.

All orientations: screen rotates to portrait or landscape to match the orientation of the actual EP10.

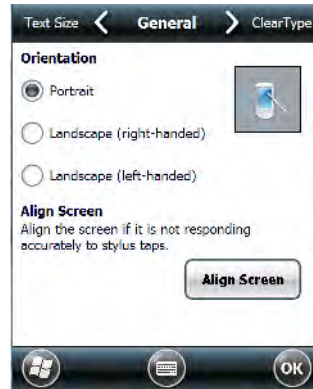
Portrait: screen does not rotate regardless of the orientation of the EP10. The screen will always be displayed as portrait.

Landscape: screen does not rotate regardless of the orientation of the EP10. The screen will always be displayed as landscape

Enable auto screen rotation is enabled by default. If you prefer to set screen rotation manually, you can disable this option. A *Configure* button is displayed on the screen.



Tapping on the *Configure* button displays the *Screen* dialog box.

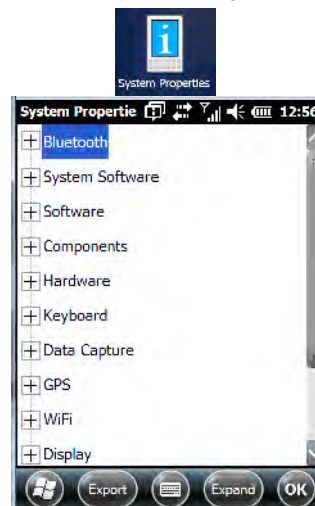


Important: For information about this screen, refer to “Screen Orientation” on page 40.

6.10.23 System Properties

This program identifies the computer software and hardware components, indicating which components are installed, their identification, version or part numbers, and whether they are enabled or disabled.

- Tap on **Start>Settings>System**, and then tap on the **System Properties** icon.



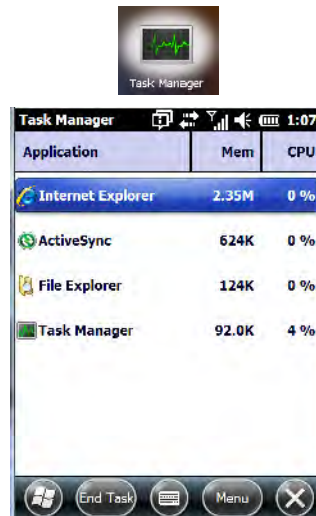
Tapping on the *Export* button creates a log (SystemProperties.xml) of your current components, which is placed in the My Devices folder in Windows Explorer.

Instead of expanding each section individually, you can also choose to open all the lists at once by tapping on the *Expand* button, which will then change to a Collapse button to enable you to collapse all the sections as well.

6.10.24 Task Manager

The *Task Manager* screen lists all running tasks (applications) or processes. This applet provides a number of options to manage these.

- Tap on **Start>Settings**. Tap on **System**, and then the **Task Manager** icon - the Task Manager screen is opened.

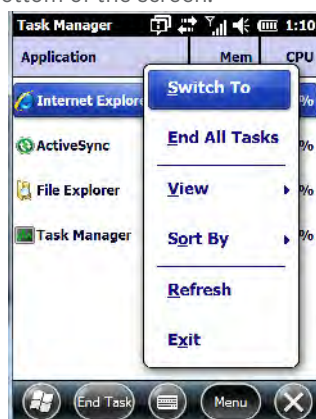


End Task: To shut down an application, **highlight the program** in the list, and tap on the **End Task** softkey in the taskbar at the bottom of the screen.

Task Manager Menu

The *Task Manager menu* provides additional options to help you manage your applications.

- Tap on the **Menu** softkey at the bottom of the screen.

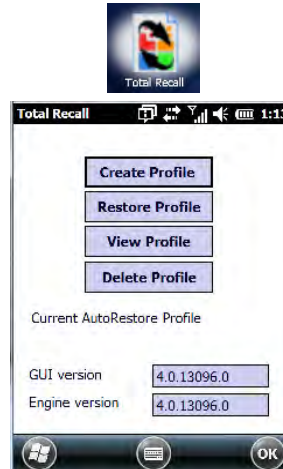


- **Switch To:** Makes the highlighted application active.
- **End All Tasks:** Shuts down all applications listed.
- **View:** Allows you to list either all running applications or all processes.
- **Sort By:** Allows you to sort active applications or processes based on Memory size, CPU or application or process Name.
- **Refresh:** Updates the list of applications or processes.
- **Exit:** Closes the Task Manager.

6.10.25 Total Recall

Total Recall is a Psion utility developed to back up/restore applications and settings.

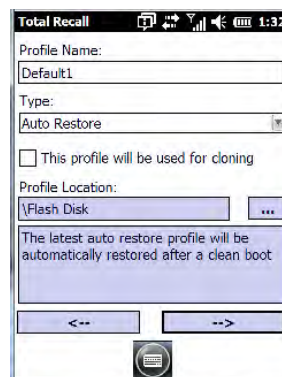
- Tap on **Start>Settings>System**. Tap on the **Total Recall** icon.



You can choose from one of the following: *Create Profile*, *Restore Profile*, *View Profile*, or *Delete Profile*.

6.10.25.1 Creating a Backup Profile

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



Profile Information

- To begin, type a **name** for the profile in the field labelled *Profile Name*.
- Next, choose the profile **Type** you want to create:
- *Manual Restore* - creates a backup that is manually restored by the operator.
- *Auto Restore* - creates a profile that automatically restores itself following a cold start.
- Finally, if you want to choose another location for your backup file (optional), tap on the [...] button to the right of the *Profile Location* field.



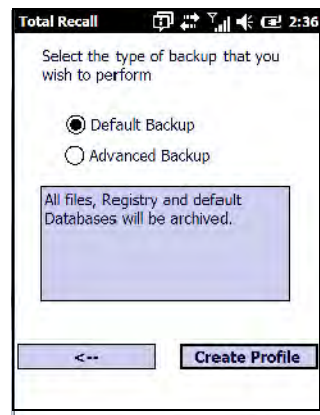
Important: *Any profile not stored in persistent memory (flash disk, external USB drive) will be erased during a clean boot. It is a good idea to store profiles on a persistent drive.*

When performing an autorestore, the program only searches for profiles located in the root folder of persistent drives. If you store your profile anywhere else it will not be restored.

When there are multiple autorestore profiles found, only the latest is restored.

- Navigate to the new location, and tap on **OK** to save it.
- Tap on the **Next** button [-->] to display the next dialog box, Add files.

Defining the Type of Backup

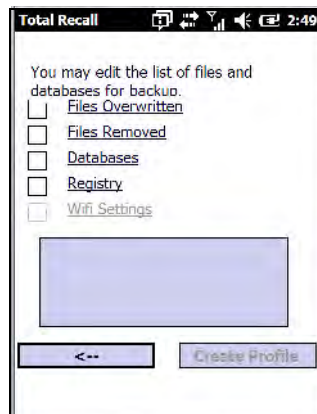


Default Backup

Default Backup is selected so that all installed or copied files, database entries, and the Registry are saved. Choose *Advanced Backup* if you want to tailor your backup.

Advanced Tab

Choosing *Advanced Backup* allows you to define what you would like to include in your backup profile.



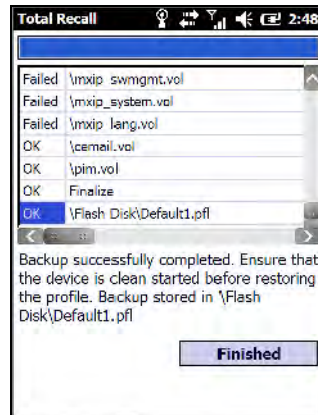
- Tap in the checkbox next to the option(s) listed here to tailor what you want included in the backup.

Creating a Profile

Once you've defined the type of profile you want to create:

- Tap on the **Create Profile** button.

The options you chose to back up appear in your window as the backup progresses. When the backup is complete, the last item in the list indicates the location and name of the backup profile.



- Tap on the **Finish** button.

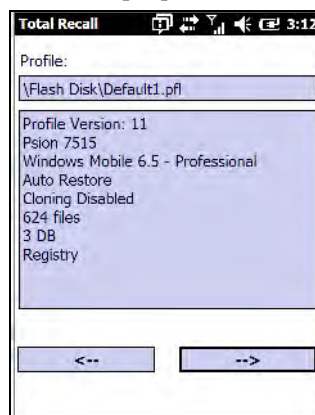
6.10.25.2 Restoring a Profile

To manually restore a profile:

- In the *Total Recall* home screen, tap on **Restore Profile**.
- In the next screen, either **highlight a backup** that is already displayed on the *Restore* screen as in the sample below, or tap on the **Browse** button and locate the backup you want to restore.
- Tap on the *Next* button [-->].



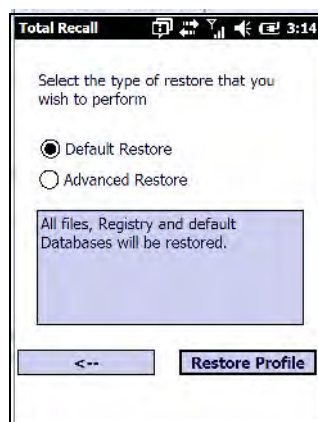
- In the *Profile* screen, tap on the *Next* button [-->].



- In the final screen, tap on the **Restore Profile** button.



Note: If you've created an advanced rather than default profile, you'll need to tap on that button, locate your file and then tap on Restore Profile.



6.10.25.3 View a Profile

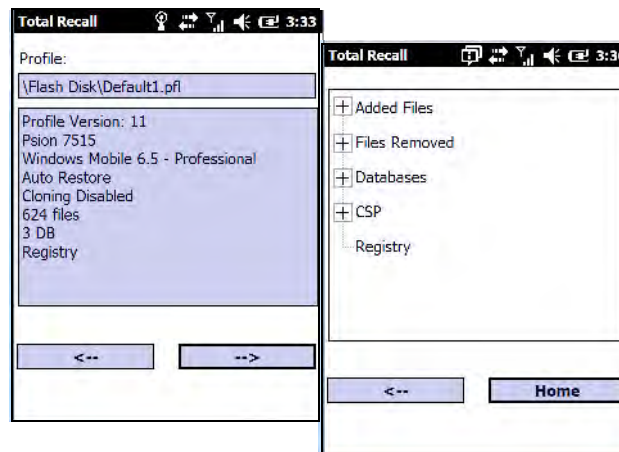
Depending on what you have selected for inclusion in your profile, you can view a list of all files, selected files, databases, and/or the registry.

- In the *Total Recall* home screen, tap on **View Profile**.



- In the next screen, either **highlight a backup** that is already displayed on the *Restore* screen as in the previous sample screen, or tap on the **Browse** button and locate the backup you want to restore.

- Tap on the *Next* button [-->] to display your backup files.



6.10.25.4 Deleting a Profile

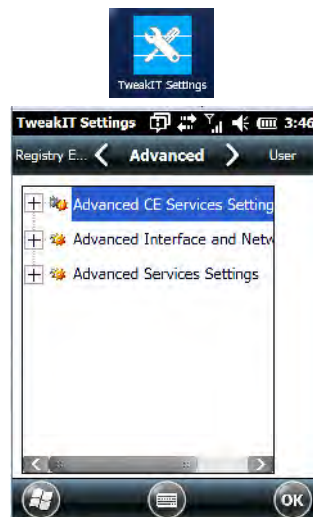
- In the *Total Recall* home screen, tap on **Delete Profile**.
 - Highlight the backup you want to delete, and tap on the *Next* button [-->].
- A warning pop-up screen appears asking if you're certain that you want to delete this file.
- Tap on the **Yes** to delete the file.

6.10.26 TweakIT

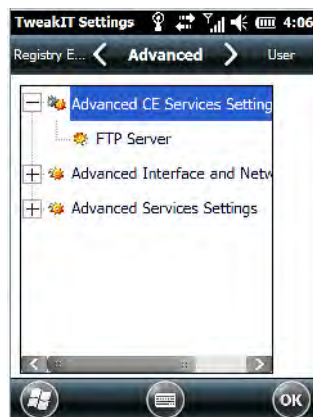
- Tap on **Start>Settings>System**.
- Tap on the **TweakIT Settings** icon.

This utility allows you to 'tweak' or adjust system settings such as the interface, network and servers.

6.10.26.1 Advanced Tab - Advanced CE Services Settings



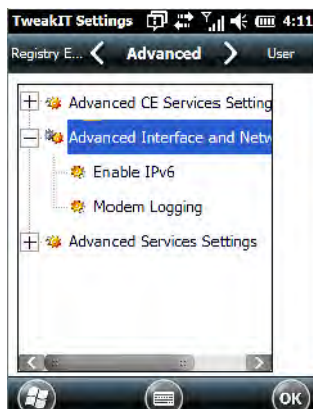
FTP Server



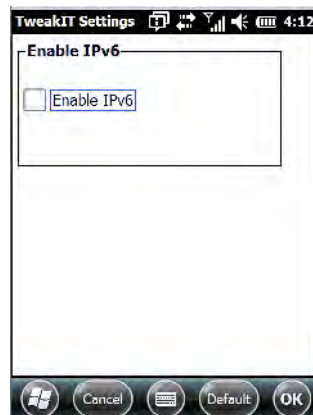
This option is enabled by default to allow file transfers. Keep in mind that data transfer in either direction is restricted to the Temp folder - that is, files are always loaded from the FTP Server to the Temp folder and from the Temp folder to the FTP Server.

If this option is disabled, a warm reset must be performed to accept the change.

6.10.26.2 Advanced Interface and Network Settings

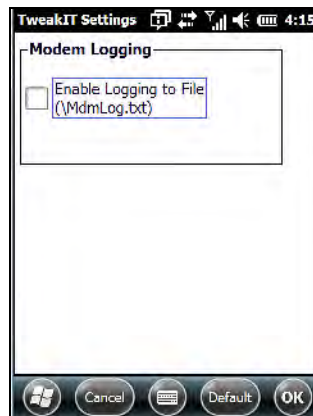


Enable IPv6



This option allows you to enable Internet Protocol, version 6, that has been published to use 128-bit IP address (replacing version 4).

Modem Logging

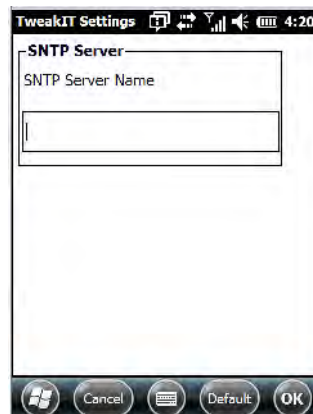


When this option is enabled, the EP10 logs AT commands (e.g., dial-out information, password string, etc.) that the administrator can monitor for debugging purposes. Modem commands are stored in: \MdmLog.txt.

6.10.26.3 Advanced Services Settings



SNTP (Simple Network Time Protocol) Server



The *SNTP Server Name* typed in this dialog box is used to synchronize EP10 time with that of the time server. A warm reset must be performed once the server name has been entered.

6.11 Wireless WAN

The EP10 is available with one of the following Wireless WAN (WWAN) radio options: the *Cinterion PH8* for GSM/UMTS networks worldwide, or the *Sierra Wireless MC5728V* for the Sprint and Verizon CDMA networks in the U.S.



Important: Refer to Appendix A: “Wireless Wide Area Network (WWAN)” for details.

7

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7.1 Carrying Accessories

There are a variety of carrying accessories to help the operator work safely and comfortably with the EP10.

Carrying Accessory	Model Number
Hand strap	RV6021 - Each EP10 is shipped with a hand strap already attached.
Stylus and tether pack	RV6101 (5 in each pack)
Carrying Pouch - Non-functioning	RV6091 pouch



Important: Do not use adhesives such as Loctite to secure screws on carrying accessories. These chemicals may damage the plastic casing.

7.1.1 The Hand Strap - Model No. RV6021

Each EP10 is shipped with a hand strap attached.



7.1.2 Carrying Pouch - Model No. RV6091

A protective carrying pouch (Model No. RV6091) is available for the EP10. The pouch is equipped with a belt clip to allow the operator to safely carry the EP10 when it is not in use.

Figure 7.1 EP10 Carrying Pouch



7.2 The Battery

The EP10 operates with either a 2400 mAh or a 3600 mAh, Lithium-Ion battery pack.



Note: For information about inserting, removing and charging the battery, refer to “The Battery” on page 32. For battery specifications, refer to “Lithium-Ion 3600 mAh Battery Specifications” on page 208.

7.3 Chargers and Docking Stations



Important: *Keep in mind when ordering a charger or docking station that you must also order the country-compatible power cord separately.*

Psion offers a variety of chargers and docking stations for the EP10. These include:

- Snap Modules are mobile adaptors designed for the EP10. Two models are available: Charger Snap Module with USB and DC, Model RV4001 and Charger Snap Module with RS-232 and DC, Model RV4002.
- AC Adaptor - Model PS1050 - G1 is used to power both snap module variants
- AC Adaptor - Model RV3055 is used to power the following docking stations and chargers: desktop docking station, quad docking station and quad charger.
- Vehicle Power Outlet Adaptor - Model RV3050
- Desktop Docking Station - Model RV4000
- Quad Docking Station - Model RV4004
- Quad Charger - Model RV3004

7.3.1 Important Safety Instructions

- Before using the AC adaptor, Desktop Docking Station, Quad Charger, or Quad Docking Station, read all instructions and markings on the housing.
- Use the AC adaptor, batteries, and other attachments recommended or sold by Psion.
- The mains power cord (sold separately) shall comply with the national safety regulations of the country where the equipment is to be used.
- These docking stations cannot be used with non-EP10 PDAs. Although they may share the same battery terminating connector, they are designed with different applications in mind.
- Do not operate the AC adaptor with a damaged cord or plug. Replace immediately.
- Do not disassemble the AC adaptor; it should be repaired by qualified service personnel. Incorrect reassembly may result in electric shock or fire.
- To reduce the risk of damage to the electric plug and cord when unplugging a docking station, pull the plug rather than the cord.
- Make sure the cord is positioned so that it is not stepped on, tripped over, or otherwise subjected to damage or stress.
- Do not operate the AC adaptor, the RV4000, or the RV4004, if it is struck by a sharp blow, dropped, or otherwise damaged in any way; it should be inspected by qualified service personnel.
- To reduce the risk of electric shock, unplug the AC adaptor from the outlet before attempting any maintenance or cleaning.
- An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in fire or electric shock. If an extension cord must be used, make sure:
 - The plug pins on the extension cord are the same number, size, and shape as those on the adaptor.
 - The extension cord is properly wired and in good electrical condition, and that the wire size is larger than 18 AWG.
- Do not expose the AC adaptor to rain or snow. However, both the RV4000 and RV4004 are designed to accept a wet EP10 hand-held without harmful effect.
- Do not place batteries in the docking stations if they are cold—temperatures below 0°C (32°F). Allow them to warm up to room temperature for at least 30 minutes.
- Do not use a docking station if, after an overnight charge, the battery feels warmer than the charger housing. The dock should be inspected by qualified service personnel.
- Do not use a docking station if the battery, while charging, becomes more than lukewarm.

7.3.2 Installation: Chargers and Docking Stations

When installing a charger or docking station, consider the following guidelines.

- Keep chargers and docking stations away from excessive dirt, dust and contaminants.
- Chargers will not charge batteries outside an ambient temperature range of 0° C to 40° C (32° F to 104° F). It is recommended that the charger or docking station be operated at room temperature - between 18° C and 25° C (64° F to 77° F) for maximum performance.

After unpacking your unit:

- Visually inspect the charger for possible damage.
- Install the IEC power cord and apply power.

7.3.3 Power Consumption Considerations

Check to ensure the mains circuit supplying chargers and/or docking stations is adequate for the load, especially if several chargers and docking stations are being powered from the same circuit.

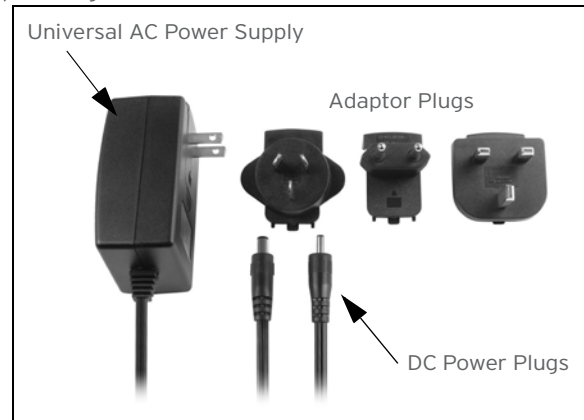
- Quad docking station can consume up to 1.9A @ 120 VAC or 1.5 A @ 100-240 VAC.

7.4 AC Wall Adaptor - Model No. PS1050-G1

The AC wall adaptor available for your EP10 allows you to operate your hand-held using AC power while charging the battery inserted in the unit.

Adaptor plugs suitable for use in the following countries are shipped with the AC wall adaptor: United Kingdom, Switzerland, Japan, Israel, Australia, Europe, and North America.

Figure 7.2 AC Wall Adaptor Plugs



- Choose the adaptor plug that is suitable for use in your country. Slide the adaptor plug into the Universal AC power supply, snapping it into place. These two pieces, coupled together, are referred to as an AC wall adaptor.
- Insert the DC power plug into the DC IN port at the base of the EP10, located between the tether and LIF ports.
- Plug the pronged end into an AC outlet.

7.5 Desktop Docking Station - Model No. RV4000



Important: *The RV4000 desktop docking station is shipped with its own user manual. It is critical that it be reviewed for additional information and updates.*



Note: *To preserve battery integrity, the desktop docking station will proceed with a charge only when the battery temperature falls between 0° C and 40° C (32° F to 104° F).*

The RV4000 desktop docking station is a desktop model designed to:

- Fast charge the internal battery.
- Fast charge the spare battery pack (see Figure 7.3 RV4000 Desktop Docking Station - Front View on page 184)
- Supply micro-USB connection.

The RV4000 storage temperature is -30° C to +60° C (-22° F to 140° F). Operating temperature and humidity are: 5 - 95% non-condensing and 0° C to 40° C (32° F to 104° F).

The desktop docking station provides sufficient power to concurrently support all the above functions. The RV4000 uses careful charge algorithms designed to maximize battery life while ensuring the shortest possible charge time. The charger supports proprietary Psion Smart Batteries and handles a range of voltages and charge algorithms. See "The Battery" on page 32 for battery capacity, charge times and battery life for the EP10 battery. See "Charging a Spare Battery" on page 185 for spare battery charge information.

Figure 7.3 RV4000 Desktop Docking Station - Front View



Important: This docking station can only be used to charge Psion approved Lithium-Ion batteries.

7.5.1 Indicators

The RV4000 desktop docking station is equipped with a single LED on the front panel that indicates the charge status of the *spare* battery.

7.5.2 Operation

7.5.2.1 Charging the EP10 Battery

The RV4000 supplies DC power to enable the EP10 internal fast charger. Normally, it takes between 3 to 4 hours to charge the battery installed in the EP10.

When the EP10 hand-held is installed in the dock, the battery charge LED on the EP10 (the left-most LED) lights up to indicate the unit has external power and may charge the internal battery. The EP10 charge LED follows the same convention as the RV4000 docking station LED. Refer to "Charging a Spare Battery" in the next section for details about LED behaviour.



Note: Battery charging continues whether the EP10 is switched on or off.

7.5.2.2 Charging a Spare Battery



Note: Do not store a spare battery in a charger for more than 72 hours. Doing so may damage the battery or reduce its charge capacity.

- Insert the spare battery in the charge well at the back of the RV4000, aligning the contacts on the battery with the contacts in the spare battery charge well.

A full charge takes between 3 and 4 hours for the battery.

When the battery capacity reaches 95%, the LED turns solid green and remains in this state once the battery is completely charged.

7.5.2.3 Linking an EP10 to a PC

The desktop docking station can be connected to a PC so that you can exchange files in the same way that you would between PC drives. A USB cable is included with your docking station.



Note: For details about data transfer through Windows XP and ActiveSync and through Vista and Windows 7, refer to "Data Transfer Between the PC & the EP10" on page 9.

To link the EP10 to a PC:

- Insert the EP10 in the desktop docking station.
- Insert the micro USB connector into the docking station. Attach the other end of the cable to a USB port on the PC.

7.5.3 Cleaning the RV4000



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 on a slightly damp cloth to clean the RV4000. Avoid abrasive cleaners, solvents or strong chemicals for cleaning. The plastic case is susceptible to harsh chemicals. It is partially soluble in oils, mineral spirits and gasoline and slowly decomposes in strong alkaline solutions.
- To clean ink marks from the label, use isopropyl alcohol.

7.5.4 Troubleshooting

7.5.4.1 Docking Station does not Power On

- When first connected to the DC power supply, the spare charger LED should turn ON and remain on for 3 seconds. If this does not occur, the charger is defective and requires service.

7.5.4.2 EP10 Charge LED Stays Off

When an EP10 is docked into a powered RV4000 and the EP10 charge indicator LED stays off, there may be a problem with the unit or with the docking station. Use an EP10 with a properly functioning charge indicator to isolate the problem.

7.5.4.3 EP10 Charge LED Flashes Yellow

A flashing yellow EP10 charge LED (the left-most LED on the hand-held) indicates that the battery is not within the charging temperature range – 0° C and 40° C (32° F to 104° F). Allow the battery to come to an acceptable range before reinserting the EP10 in the docking station.

7.5.4.4 Dock Battery LED Fast Flashes Red with Spare Battery Inserted

- Your Psion battery and desktop docking station are carefully designed for safety and capacity performance in accordance with IEEE 1725. If the battery or charger are not Psion approved products, or the safety mechanism is faulty, the spare charge slot LED or EP10 LED will display solid red.
- Try inserting a battery that has been tested in another charger and is known to work.

- If the spare charge slot LED continues to flash red with the known working battery, the charger is defective and requires service.

7.5.4.5 Dock Battery LED does not Turn On when Battery is Inserted

- Inspect the charge slot contacts for damage. Are they bent, flattened, twisted or broken?
- Reinstall the battery and check that it is fully seated in the slot.
- Try inserting a battery that you know to be working in the charger slot.
- Disconnect and reconnect the DC adaptor, and check that the spare battery LED indicator flashes at power-up.
- If the charge slot fails to charge the known working battery, the docking station is defective and requires service.

7.6 Quad Docking Station – Model No. RV4004



Important: *The RV4004 quad docking station is shipped with its own quick start guide. It is critical that it be reviewed for additional information and updates.*

Figure 7.4 Quad Docking Station – Model No. RV4004



The RV4004 Quad Docking Station is designed to accept up to four EP10 hand-held computers. The docking station powers the EP10s and their internal battery charger. The docking station also connects from one to four EP10s to a 10/100 Base-T Ethernet network and allows for Ethernet data transfer.

7.6.1 Operator Controls

The RV4004 has no operator controls or power switch.

7.6.2 Indicators

The quad docking station is equipped with Power Indicator LED.

7.6.3 Quad Dock Operation

7.6.3.1 Charging the EP10 Battery

- Insert the DC power plug into the RV4004 rear DC input receptacle.
- The RV4004 supplies DC power to enable the EP10 internal fast charger. Normally, a full charge of the battery will take from 3 to 4 hours.
- Insert up to four EP10s into the docking station charge wells, pressing down gently but firmly to seat them securely.
 - During the charge, the EP10 LED slow flashes green.
 - When the battery capacity reaches 95%, the LED turns solid green.



Note: Battery charging continues whether the EP10 is switched on or off.

7.6.3.2 Installation

The charger can be wall mounted using the wall mount bracket (model number RV6007) or it can be operated on a flat surface. Install the charger in an area that is free from excessive dirt, dust and contaminants. The ambient temperature must be in the range 0° C and 40° C (32° F to 104° F). The docking station will not charge batteries outside of this temperature range. For maximum performance, it is recommended that the charger be operated at room temperature - a temperature range between 18°C to 25°C (64° F to 77° F).



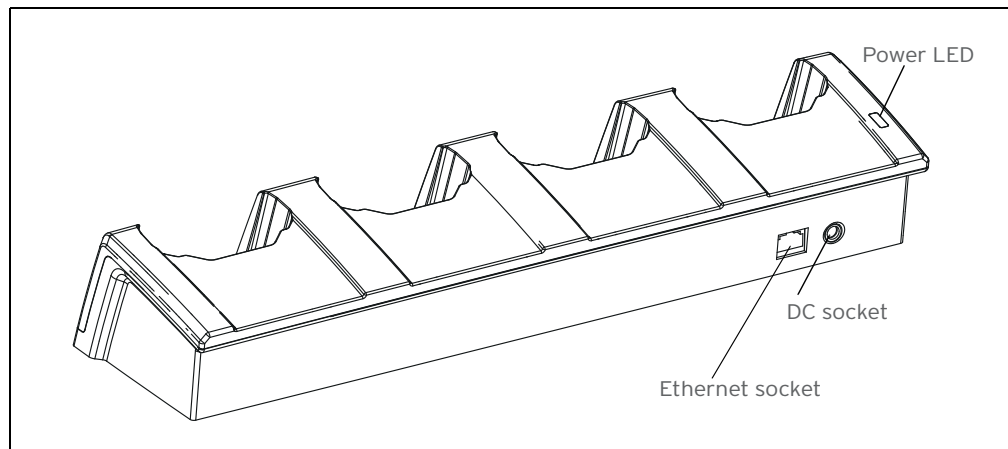
Important: Use IEC-320 C13 power cords approved by Psion, with the ground pin connected to a proper earth-grounded receptacle. Check with a qualified electrician if you are uncertain of your receptacle grounding.



Important: If you choose to wall mount the charger, detailed installation instructions are included in the 'EP10 RV4004 Charger Quad Dock Quick Start Guide' (PN 8000232) included with the quad docking station. Be sure to locate the charger in an area where there is no risk of injury to persons walking in the vicinity.

7.6.3.3 Connecting to the Ethernet Network

Figure 7.5 RV4004 Quad Docking Station Rear View



Network Access

The EP10 automatically detects insertion into the docking station and loads the appropriate drivers to communicate with the network.

Network Addressing

The host application uses standard TCP/IP protocol to name, locate and communicate with a specific EP10 on the network.

If a link is established between an EP10 and a host, the application on the host and on the EP10 must have a recovery mechanism in the event that the EP10 is removed from the dock, interrupting the link.

7.6.4 Cleaning the RV4004



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 on a slightly damp cloth to clean the RV4004. 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 label, use isopropyl alcohol.

7.6.5 Troubleshooting

7.6.5.1 EP10 Charge Indicator LED Stays Off

When an EP10 is docked into a powered RV4004 and the hand-held charge indicator LED stays off, there may be a problem with the EP10 or with the docking station. Use an EP10 with a properly functioning charge indicator to isolate the problem.

7.6.5.2 Power LED Does Not Light Up

- Remove all the EP10s, and unplug the docking station.
- Connect another device to the mains outlet to ensure there is power.
- Remove the IEC mains power cable from the charger, and check it for damage.
- Reconnect the mains cable in the charger and mains outlet.

7.6.5.3 EP10 Charge LED Flashes Yellow

A flashing yellow EP10 charge LED (the left-most LED on the hand-held) indicates that the battery is not within the allowable charging temperature range – 0° C and 40° C (32° F to 104° F). Allow the battery to come to an acceptable range before reinserting the EP10 in the docking station.

7.6.5.4 EP10 Charge Indicator LED Flashes Red

If the EP10 charge indicator flashes red when the EP10 is in any of the four sites, the quad dock cannot read the battery or it is a non-Psion battery.

- Remove the EP10s and disconnect the adaptor DC power cable.
- Wait at least 20 seconds, and then plug the cable in again.
- If the EP10 indicator still shows a fault, the EP10 requires service.

7.6.5.5 Powered Adaptor LED Stays Off

- Check the AC cable. Replace with the same type if the cable is suspect.
- If the adaptor LED stays OFF, the adaptor is defective and requires service.

7.7 Quad Charger – Model No. RV3004

7.7.1 Charging the EP10 Battery

Quad Battery Charger (Model No. RV3004) can charge up to four batteries simultaneously.

7.7.2 Installation

The charger can be wall mounted using the wall mount bracket (model number RV6009) or it can be operated on a flat surface. Install the charger in an area that is free from excessive dirt, dust and contaminants. The ambient temperature must be in the range 0° C and 40° C (32° F to 104° F). The charger will not charge batteries outside of this temperature range. For maximum performance, it is recommended that the charger be operated at room temperature – a temperature range between 18°C to 25°C (64°F to 77°F).

The charger can consume up to 1.5 A at 100-240 VAC. Check to ensure the mains circuit supplying the charger is adequate for this loading (especially if several chargers are being powered from the same circuit). After unpacking the unit:

- Visually check the charger for damage.
- Install the IEC power cord and apply power.



Important: Use IEC-320 C13 power cords approved by Psion, with the ground pin connected to a proper earth-grounded receptacle. Check with a qualified electrician if you are uncertain of your receptacle grounding.

All charge indicators flash momentarily at power up to indicate that the charger is ready for operation.



Important: If you choose to wall mount the charger, detailed installation instructions are included in the 'EP10 RV3004 Charger Spare Battery 4 Slot Quick Start Guide' (PN 8000233) included with the quad charger. Be sure to locate the charger in an area where there is no risk of injury to persons walking in the vicinity.

7.7.3 Operator Controls

The gang charger does not have operator controls or a power switch. There is no dedicated indicator light to show that the charger is powered, but the charge slot LEDs will light.

7.7.4 Charge Indicators

Each battery charge slot is equipped with four LEDs to indicate the charge status of the battery. When the EP10 batteries are inserted in the charger, the colour and behaviour of the LEDs associated with the charge wells in use indicate the status of the charge.

Table 7.1 Charge Status Indicator LEDs

Charge LED Behaviour	Function
OFF	No battery detected.
Solid Green	Battery charging complete.
Flashing Green	Charge in progress.
Flashing Yellow	Battery is not charging due to out-of-temperature conditions.
Solid Red	Unable to read battery or non Psion battery.

7.7.5 Charging Batteries

- Slide an EP10 battery, as shown, into each charge compartment until the battery touches the base of the charge compartment. Ensure that the contacts on the battery meet the contacts in the battery charge bay.

The 4-LED bar for the battery bay shows 25% charger per LED. A flashing green LED shows charging is under way. The LED directly below the slot in which a battery is inserted lights up immediately. If the battery temperature is outside 0° C and 40° C (32° F to 104° F), the LED flashes yellow until the temperature is acceptable. A fully discharged battery will normally take from 3 to 4 hours to charge. At full capacity, it turns solid green.

When the battery is fully charged, the charger stops applying power; the battery cannot be overcharged if left in the charger slot.

7.7.6 Troubleshooting

7.7.6.1 Improper Battery Storage

Storing batteries in the gang charger for extended periods (more than a week or two) is not recommended. Lithium-ion batteries lose capacity if they are maintained at full charge for long periods of time. See the battery handling recommendations in "The Battery" on page 32.

7.7.6.2 Indicator Does Not Light When Battery Installed

- Remove the battery, and clean the contacts on the battery and the charge slot.
- Reinstall the battery, and check that it is fully seated in the slot.
- Inspect the charge slot contacts for damage (are they bent, flattened, twisted or broken).
- Try inserting a battery that you know to be working in the charger slot.
- Reconnect the mains power cable, and check that the slot indicator flashes at power up.

7.8 Snap Modules - Model Nos. RV4001 & RV4002

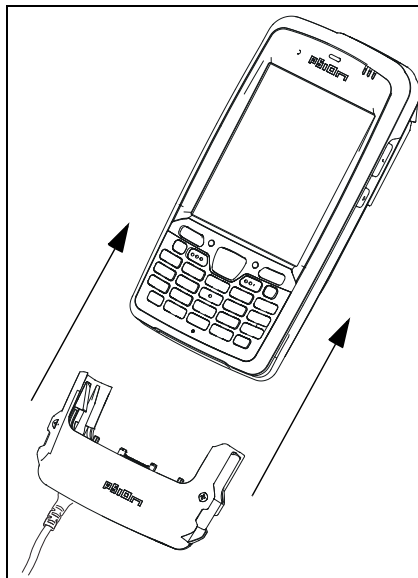
Snap Modules are mobile power adaptors that snap on the base of the EP10. Two types of Snap Module variants are available:

- USB and Charge Snap Module - Model No. RV4001. This accessory powers and charges the EP10, and it provides a USB connection.
- DE9 RS232 and Charge Snap Module - Model No. RV4002. This accessory powers and charges the EP10 and provides a RS-232 connection.

The Snap Modules are compatible with AC power adaptor Model PS1050-G1. A country-specific cable to be plugged into the wall/mains must be ordered separately.

To attach an adaptor to the EP10:

- Make sure that the adaptor connector and EP10 docking connector are free of dust or any other debris before connecting them.
- A slot in the side rail on each side of the hand-held accommodates the locking clips of the adaptor. To attach the adaptor, align it with the base of the hand-held and gently slide up until the locking clips snap into place.



- To remove the adaptor, press down on the base of the clip arms to release them from the EP10 side rails and slide the adaptor off.

7.9 Vehicle Power Outlet Adaptor - Model No. RV3050

The Vehicle Power Outlet adaptor allows you to power your EP10 and recharge your battery using power drawn from your vehicle's power outlet.

Figure 7.6 Vehicle Power Outlet Adaptor



- Insert the DC power plug into the DC IN port at the base of a snap module - Model No. RV4001 or RV4002.
- Insert the vehicle power outlet adaptor plug into the power outlet in your vehicle.

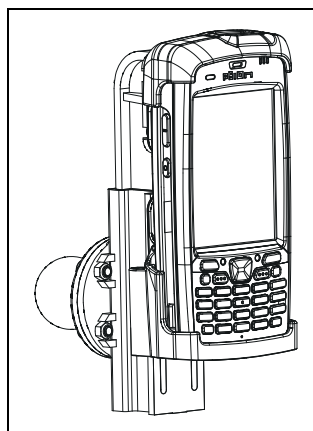
7.10 The Unpowered Vehicle Cradle - Model No. RV1000

The RV1000 Unpowered Vehicle Cradle is a passive device, designed to securely grip the EP10 in the vehicle.



Note: Shock and vibration specifications for the EP10 are verified using Psion-approved RAM mounts and mounting hardware. Use of non-certified Psion mounting hardware is not recommended, and may void warranty coverage.

Figure 7.7 RV1000 Unpowered Vehicle Cradle



7.10.1 Important Instructions

The RV1000 with an EP10 installed has a storage temperature of -40°C to +70°C (-40°F to 158°F). Operating humidity and temperature is 5 - 95% non-condensing and -30°C to 60°C (-22°F to 140°F).

7.10.2 Vehicle Cradle Operation

7.10.2.1 Operator Controls

The Unpowered Vehicle Cradle has no operator controls or power switch.

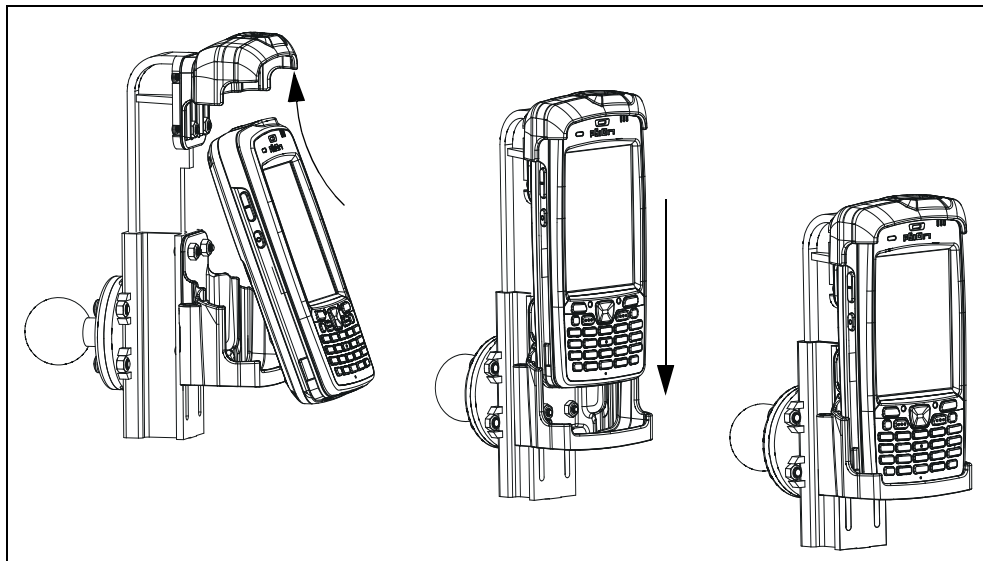
7.10.2.2 Indicators

The RV1000 has no front indicators. The EP10 LED serves as the power indicator.

7.10.2.3 Inserting the EP10 in the Vehicle Cradle

The Unpowered Vehicle Cradle is equipped with a spring so that it can stretch up as the EP10 is inserted and then snap back into place to hold the hand-held securely when the EP10 is released. You do not need to remove the hand-strap to insert the hand-held in the cradle. To insert the EP10 in the Unpowered Vehicle Cradle:

- Insert the top of the EP10 into the top of the cradle, and push the EP10 upward while you align the bottom of the EP10 with the base of the vehicle cradle.
- Release the EP10 to allow the cradle to snap into place, firmly gripping the hand-held.



7.10.3 Vehicle Cradle Mounting Recommendations

For mounting information, refer to Section 7.11.1 RV1005 Vehicle Cradle Mounting Recommendations on page 194.

7.10.4 Cleaning the RV1000 Vehicle Cradle



Important: Dampen a soft cloth with mild detergent to wipe the unit clean.

- Use only mild detergent or soapy water on a slightly damp cloth to clean the RV1000. 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 label, use isopropyl alcohol.

7.11 The Powered Vehicle Cradle - Model No. RV1005

The RV1005 Powered Vehicle Cradle (12-24 VDC) is designed to securely grip the EP10 when locked in and provides an easy single-handed release mechanism when the EP10 needs to be quickly removed from the

cradle. The cradle design permits access for the DC input cable to connect to the EP10. The cradle is also equipped with an RS-232 port (no power on pin 9), a micro-USB AB port and a DC jack connector.

The cradle comes with four mounting screws, with illustrated electrical and mounting instructions.

Before Psion releases a product, our engineering team exposes that product to a series of severe testing to ensure that it will survive in the rugged environments in which our products are typically used. These tests usually include shock and vibration testing as well as IP testing for water and dust, electrical shock, etc.

If a third party vehicle mount is used, the third party should perform the same type of testing in order to ensure that the design will maintain the factory specifications of the product. If the third party company is unwilling to perform the necessary testing and take responsibility for the effects of the design, then we highly recommend using Psion designed and supported accessories.

If you elect to use a third party company produced cradle, Psion cannot take responsibility for the effects of that third party product if it causes failure of our device.



Important: *Before using a vehicle cradle, read all instructions and markings on the housing.*

Do not operate a vehicle cradle if damaged by a sharp blow, dropped, or otherwise damaged in any way; qualified service personnel should inspect for internal damage.

Shock and vibration specifications for the EP10 are verified using Psion-approved RAM[®] mounts and mounting hardware. Use of non-certified Psion mounting hardware is not recommended, and may void warranty coverage.

Do not expose to rain or snow! However, the Powered Vehicle Cradle is designed to accept a wet EP10 handheld without harmful effect.

This Powered Vehicle Cradle cannot be used with non- EP10 cradle accessories.

Figure 7.8 RV1005 Powered Vehicle Cradle

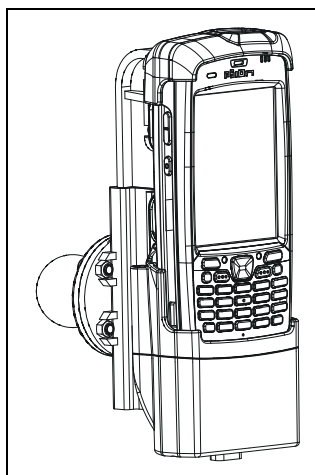
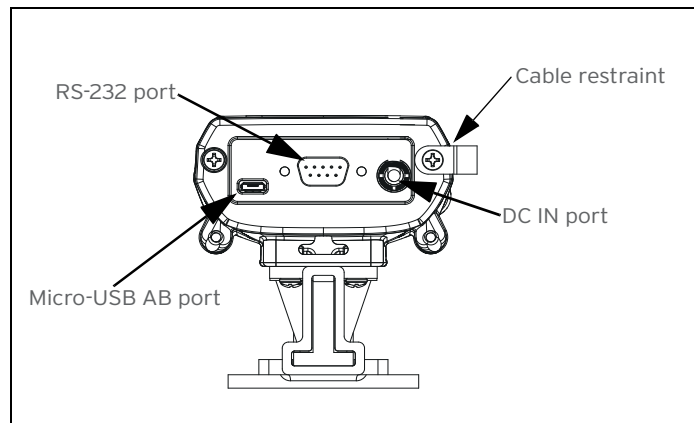


Figure 7.9 RV1005 Ports



7.11.1 RV1005 Vehicle Cradle Mounting Recommendations



Important: Before mounting a vehicle cradle in a vehicle, there are a number of operator safety issues that require careful attention. An improperly mounted vehicle cradle may result in one or more of the following: operator injury, operator visibility obstruction, operator distraction and/or poor ease of egress for the operator. Psion strongly recommends that you seek professional mounting advice from the vehicle manufacturer.

Cable routing within a vehicle cab also requires careful consideration, especially for separately tethered scanners and other devices with loose cables. If you are unable to obtain suitable advice, contact Psion for assistance.

In addition, for safety reasons, only pedestal mounts with fully locking joints should be used in vehicles. Always adjust the pedestal for the optimum viewing angle, and securely tighten the hex and wing screws.

The EP10 Powered Vehicle Cradle is designed to be compatible with any RAM-B mounting interface - Model number RAM-B-166-202U. Use the four #M4X12 screws provided with the RAM mount to secure the cradle to the RAM mount. Bolts must not extend more than 7 mm into the vehicle cradle.

If you wish to custom mount the vehicle cradle to a surface other than the recommended RAM, please carefully follow the precautions listed under "Mounting Template" on page 194.

7.11.1.1 Mounting Template

The vehicle cradle is shipped with mounting instructions including a drilling template. Refer to the *EP10 Hand-Held Vehicle Cradle Quick Start Guide (PN 8000234)*.

In every case, please take the following precautions:

1. When installing the cradle, ensure the driver's view is not obstructed.
2. Install cradles so as not to obstruct vehicle safety features, i.e. air bags, seat belts, etc.
3. Ensure cradle is secured to the vehicle in a safe location. Injury may result otherwise.
4. Ensure the mounting has the capacity to hold the cradle and the EP10. Cradle plus EP10 weight is approximately 1 kg (2.2 lb.).
5. Psion has recommended and approved a mount. Consult Psion Customer Service for direction.

Figure 7.10 RAM Mount - Model Number RAM-B-166-202U



To accommodate the service loop of the power cable, leave a 10.2 cm (4 in.) clearance at the bottom of the vehicle cradle. Leave a 17.8 cm (7 in.) clearance at the top of the vehicle cradle to allow easy removal of the EP10. When selecting a mounting location, refer to the assembly instructions that are packaged with the pedestal.



Important: *Before Psion releases a product, our engineering team exposes that product to vibration tests to ensure the EP10 will remain secure during normal use. But as a low cost mount, the cradle will not defend against shock if the vehicle undergoes a front or rear impact. Take care to mount the cradle in an upright position in case of accidents.*

If you choose to use a third party company-produced cradle, Psion cannot take responsibility for the effects of that third party product when it causes failure to our device.

7.11.2 Cable Arrangement

Before installing cables between the cradle and other devices, review the following:

- Ensure that drilling holes will not damage the vehicle or its wiring.
- Protect cable runs from pinching, overheating and physical damage.
- Use grommets to protect cables that pass through metal.
- Use plastic straps and tie-downs to secure cables and connectors in their desired location, away from areas where they may get snagged or pulled.
- Keep cables away from heat sources, grease, battery acid and other potential hazards.
- Keep cables away from control pedals and other moving parts that may damage the cables or interfere with the operation of the vehicle.

7.11.3 Electrical Requirements

There are two options to power your EP10 once it is inserted in the Powered Vehicle Cradle - the Vehicle Power Outlet Adaptor (model no. RV3050) or the 10 foot DC Power Extension Cable (model no. RV 1205).



Warning: *Applying a voltage above 36VDC or reversing polarity may result in permanent damage to the vehicle cradle power section and will void the product warranty. For safety reasons, disconnect the vehicle cradle power cable when the vehicle battery is being charged by a source other than the vehicle alternator.*

7.11.3.1 Wiring Vehicle Power to the Cradle

The Powered Vehicle Cradle uses the vehicle power outlet or the vehicle fuse box to power from the vehicle battery system. The Vehicle Power Outlet Adaptor (Model No. RV3050) is used for the vehicle power outlet; the Power Extension cable (model number RV1205) is used for the vehicle fuse box.



Warning: *A properly trained technician must perform the power connection using Power Extension cable, model no. RV1205 (PN 1101033) and the RV1005. Improper connection can damage the vehicle or the cradle.*

This cable can be used to provide power to RV1005 from a fused circuit. The vehicle cradle should be added to a fused circuit with a new maximum load capacity of the original load plus the cradle load, which is 3 A.

Power cables are equipped with fuses and instructions are supplied with each cable. Use only a 4 A slow blow Safety-approved fuse in the fuse assembly.

These cables should only supply operating power from the vehicle to the Powered Vehicle Cradle from 12VDC or 24VDC systems.

- The Powered Vehicle Cradle draws no more than 1.9 A @ 12 VDC or 0.95 A @ 24 VDC. Any additional wiring, connectors or disconnects used should be rated for at least 3A. The Powered Vehicle Cradle and peripherals can be used with both negative ground systems when using the Power Extension cable. Peripheral wiring should be closely examined to avoid ground loops in positive ground systems.
- There is the option of connecting power to the cradle before or after the 'key' switch.
 - It is preferable to wire *after* the key switch. In this configuration, when the key is turned ON, the vehicle will power the cradle and docked EP10, charging the internal battery when needed. When the vehicle ignition is OFF, the EP10 docked in the cradle will run on its internal battery.
 - However, if the operator switches the key off repeatedly for long periods during a shift, it may make more sense to wire the vehicle cradle before the switch. In this case, the EP10 will always operate from vehicle power and that power will charge the battery when needed.
 - Keep in mind that the EP10 will continue to operate with or without vehicle power as long as the internal battery has sufficient charge.

7.11.4 USB and Serial Connections



Important: *Depending on the configuration, the RV1005 Powered Vehicle Cradle has a maximum of two connectors and one power connector.*

The Powered Vehicle Cradle full configuration consists of one serial DE-9M port and one micro-USB port located at the base of the cradle. These are COM and USB ports that allow serial and USB devices to communicate with the EP10. These ports include:

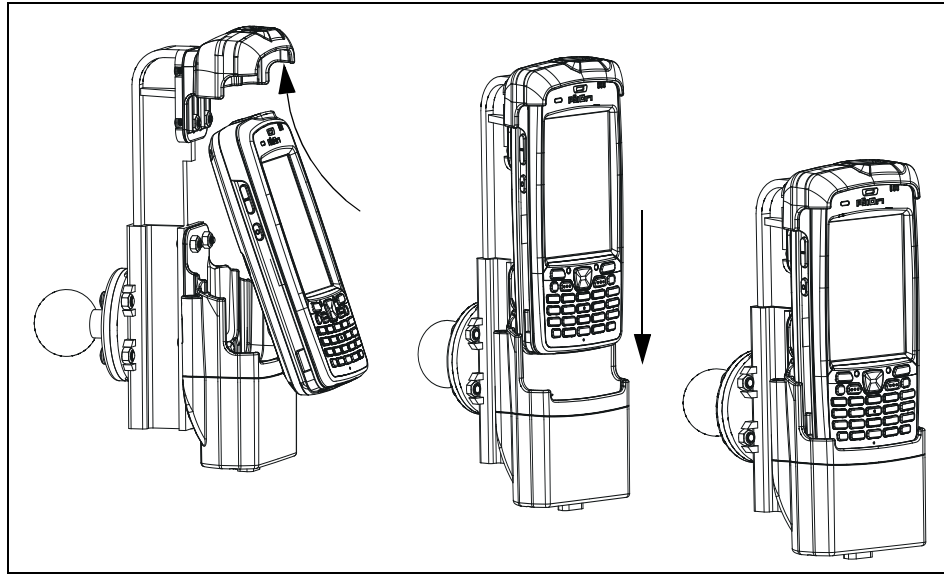
- One powered USB micro AB.
- One full Serial port.

Peripherals such as scanners, printers, GPS, etc., may be used with the EP10 and the cradle. Check with Psion if there is any compatibility issue with the device you want to use with the EP10 and the cradle.

7.11.5 Inserting the EP10 in the Vehicle Cradle

The Powered Vehicle Cradle has a spring action that allows it to stretch up to accommodate the EP10 and then snap in place to hold the hand-held securely. You do not need to remove the hand-strap to insert the hand-held in the cradle. To insert the EP10 in the Powered Vehicle Cradle:

- Insert the top of the EP10 in the cradle, and push the unit upward while you align the bottom of the EP10 with the base of the vehicle cradle.
- Release the EP10 to allow the cradle to firmly grip the hand-held in place.
- Push down on the top of the cradle to ensure that the EP10 docking port is firmly connected to the Powered Vehicle Cradle.



7.11.6 Maintaining the Vehicle Cradle

- 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 on a slightly damp cloth to clean the vehicle cradle.
- Avoid abrasive cleaners, solvents, or strong chemicals for cleaning.
- The vehicle cradle has a plastic case that is susceptible to harsh chemicals. The plastic is partially soluble in oils, mineral spirits and gasoline. They slowly decompose in strong alkaline solutions.
- To clean ink marks from the label, use isopropyl alcohol.

7.12 EA11 Imager



Note: Refer to Appendix C: "Imagers Applet" for details about configuring your imager.

The EP10 hand-held supports the EA11 Decoded 2D imager. This imager can be configured using the *Scanner Settings* located under *Settings>System>Scanners* (see "Scanner Settings" on page 163) and the *Manage Triggers application* (see "Manage Triggers" on page 147). Refer to Appendix C: "Imagers Applet" for details about imager settings.

It is critical that you review the safety information in the "EP10 Hand-Held Computer and Accessories Regulatory & Warranty Guide", PN 8000235 before proceeding.

7.12.1 Operating Two Dimensional (2D) Imagers

An imager takes a snap shot of a single bar code or multiple bar codes (at one time). It can find a bar code regardless of its orientation - that is, even a bar code printed at a 45 degree angle to the EP10 will be decoded successfully.



Note: When scanning multiple bar codes, ensure that all of the desired bar codes are within the field of view of the scanner. It is possible that even when all bar codes are within the field of view, not all of them will be decoded. Only successfully decoded bar codes are passed to the application program. The application program then issues a warning, asking that you scan the missing bar codes.

When scanning a single bar code, ensure that only the desired bar code is within the field of view of the scanner.

Because imagers generally have a shorter depth of field than laser scanners, some practise may be required to find the optimal distance from the types of bar codes being scanned. Although the imager includes illumination LEDs, ambient light will help the imager decode the bar codes, especially if the bar code is far from the EP10.



Important: *Keep in mind that the imager scanner is a camera, and the LED illumination is a flash. Glare can be an issue on reflective media such as plastic coated bar codes, just as glare is an issue for photographers. When pointing at a shiny surface, either shift the bar code to the side or top, or angle the bar code so that the glare reflects away from the imager scanner.*

Most imagers take several 'snap shots' of the bar code in order to decode it. It is normal for the LEDs to flash two or three times. Hold the unit steady between flashes to improve decode performance.

- Switch the EP10 on. Wait until the unit has booted up completely.
- Aim at the bar code and press the scan key or the trigger. Hold the trigger until a successful or failed scan result is obtained.
- When the scan button or trigger is pressed, a red, oval shaped light (the framing marker) is displayed. Centre the framing marker in the field—either in the centre of the bar code you want to scan or in the centre of the area in which multiple bar codes are to be scanned.

The illumination LEDs will flash (typically several times) and a picture of the bar code(s) is taken.

7.13 Bluetooth Peripherals

The EP10 is equipped with a *Bluetooth* radio, making it possible to communicate with a variety of *Bluetooth* peripherals, including GSM/GPRS handsets, scanners, printers and so on.

Psion provides built-in support for the *Bluetooth* peripherals listed below.

- GSM/GPRS universal handset
- *Bluetooth* printer
- *Bluetooth* headset

Keep in mind that *Bluetooth* and IEEE 802.11a/b/g/n radios both operate in the 2.4GHz band. Although the EP10 includes features to minimize interference, performance of the system will not be optimal if you use both radios simultaneously. Typically, when both radios operate in the EP10 at the same time, they cannot transmit simultaneously - this has a negative impact on overall system throughput. To minimize the impact on the backbone 802.11g network, Psion recommends using *Bluetooth* peripherals that have low transaction rates (such as printers and scanners).

Refer to "Bluetooth Setup" on page 108 for information about setting up your *Bluetooth* devices for communication. In addition, review the manual shipped with your *Bluetooth* device to determine the method used to pair with the EP10 host.

7.14 Digital Camera



Important: *The EP10 is equipped with a digital camera that can take still pictures or short video clips. Refer to Section 5.10 Pictures & Videos on page 74 for details about using the camera.*

The *Pictures & Videos* applet allows the operator to activate the camera for still shots or video clips. It also provides a number of tools to crop photos, adjust picture contrast and brightness, zoom in and out of photos, and save your adjustments.



Important: *The "Pictures & Videos" program can only display .bmp or .jpg formats. Photos in other formats will need to be converted on your PC before they can be transferred to the EP10 hand-held.*

8

SPECIFICATIONS

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8.1 EP10 Specifications - Model No. 7515



Note: Performance specifications are nominal and subject to change without notice.

8.1.1 Hardware

Physical Dimensions

- Device: 6.2" x 3.1" x 1.2" (158 mm x 78 mm x 30.6 mm)

Weight (with battery pack)

- Weight with 2400 mA battery: 0.8 lb (336 g)

User Interface

- Display (Backlit)
 - 3.7 in. VGA portrait mode
 - Backlight feature 165 cd/m2 output
 - Sunlight readable with integrated touchscreen
 - Colour 480 x 640 graphic TFT
 - Passive stylus or finger operation
- Audio
 - Built-in 85db mono speaker
 - microphone
 - receiver
- Keyboard (Backlit)
 - QWERTY
 - High reliability keypad ultra-white backlight
 - Ergonomically enhanced for ambidextrous one-hand operation
- Camera
 - 3.2 Mega Pixel Colour
 - Auto Focus
 - Dual LED Flash
 - Video capture capability

8.1.2 Software

Platform

- AM3715 Processor
- 800 MHz (ARM Cortex A8)
- On-board RAM: 256 MB SDRAM
- On-board ROM: 2 GB Flash

Operating System

- Microsoft Windows Embedded 6.5

Programming Environment

- HTML, XML
- Mobile Devices SDK
- Java™
- Visual Studio® 2008
- Standard protocol APIs - Windows® sockets

Application Software

- Internet Explorer® Mobile included with Windows® Mobile® 6
- Wordpad
- ActiveSync
- Mobile Control Center (MCC) device management

8.1.3 Wireless Communication



Note: 802.11ab/g/n and Bluetooth are available simultaneously.

- On-board IEEE 802.11a/b/g/n
- Bluetooth v2.1 radio (CCX V4 Certified)
 - UMTS 3.5G HSPA radio options (TBD)
 - Integrated 5 band Antenna, supports both voice and data
 - SiRF starIV GPS

8.1.4 Power Management

- Optional 3.7 V @ 2400 mAh or High Cap 3600 mAh Li-ion rechargeable batteries
- Full Shift operation
- SMART battery
- System backup (2 minutes) during battery swap

8.1.5 Expansion Slot

- One microSD slot

8.1.6 Bar Code Application



Note: User upgradeable.

- 2D EA11 imager

8.1.7 Digital Camera

- 3.2 mega pixel colour
- Auto Focus
- Dual LED Flash
- Video capture capability

8.1.8 Voice Over IP (VOIP)

- Push-to-talk

8.1.9 Accessories

For details about accessories available with the EP10, refer to Chapter 7: “Peripheral Devices & Accessories”.

- **Carrying Accessories:**
 - Hand strap
 - Carrying case
- **Communications:**
 - Quad dock (4-site) with 10/100 BaseT Ethernet and charge functions.

- Desktop dock with Type A and Type B USB connectivity and charge functions for an internal battery along with a spare battery.
- **Power supplies:**
 - AC wall adaptor
 - Vehicle power outlet adaptor
 - Quad charger (4-site)
 - Snap Module: USB DE9M powered serial plus Charger
 - Snap Module: USB Host/Client plus Power/Charger
- **Vehicle peripherals:**
 - Powered and Non-powered cradle
 - RAM Mount with screws

8.1.10 Approvals

- FCC Parts 15B, 15C, 15E, 22H, 24E, 27
- IC RSS-210, RSS-132, RSS-133
- EN 300 328, EN 301 489, EN 55022, EN55024, EN301 511, EN301 908, EN300 440, EN301 893
- Safety IEC/EN 60950-1
- Laser Safety IEC 60825-1

8.1.11 Environmental Specifications

- Operating Temperature: 14°F to 122 °FC (-10°C to +50°C)
- Storage Temperature: -4°F to 140°F (-20°C to +65°C)
- Relative Humidity: 5% to 95% RH non-condensing
- Rain & Dust Protection: IP54, IEC 529
- Drop: 5 ft (1.5 m) - 26 drops to polished concrete
- Tumble: 250 times at 0.5 m
- ESD: +/- 15k Vdc air discharge, +/- 8k Vdc contacts

8.2 Radio Specifications

8.2.1 Murata 802.11 a/b/g/n Direct Sequence Spread Spectrum Radio

Table 8.1

Parameter	Sub-parameters	Specifications
Form Factor		Embedded surface mount module, 11.4 x 9.4 mm * This is a combo module containing both Wi-Fi 802.11a/b/g/n and Bluetooth V2.1+EDR radio
Antenna Port	802.11b/g/n	U.FL jack. Non-diversity. Multiplexed between 802.11b/g/n (2.4GHz) and Bluetooth radio
	802.11a/n	U.FL jack. Non-diversity.
Antenna Type	802.11b/g/n	PIFA antenna. Covers 2400-2484 MHz @ <2.0:1 VSWR
	802.11a/n	PIFA antenna. Covers 5150-5860 MHz @ <2.0:1 VSWR
Antenna Gain	802.11b/g/n	3.73 dBi
	802.11a/n	4.85 dBi

Table 8.1

Parameter	Sub-parameters	Specifications
Transmit Power	802.11b	+18 dBm typical
	802.11g	+13 dBm typical
	802.11a	+12 dBm typical
	802.11n (2.4 GHz)	+12 dBm typical
	802.11n (5 GHz)	+12 dBm typical
Frequency Range	802.11b/g/n	2400-2484 MHz
	802.11a/n	5150-5350 MHz, 5480-5720 MHz and 5725-5845 MHz
RX Sensitivity	802.11b	-78 dBm @ 11 Mbps
	802.11g	-67 dBm @ 54 Mbps
	802.11a	-67 dBm @ 54 Mbps
	802.11n (2.4 GHz)	-66 dBm @ 65 Mbps
	802.11n (5 GHz)	-66 dBm @ 65 Mbps
Data Rates	802.11b	1,2,5.5,11 Mbps
	802.11a/g	6,9,12,18,24,36,48,54 Mbps
	802.11n	6.5,13,19.5,26,39,52,58.5,65 Mbps
EVM	802.11b	32% max
	802.11g	-26 dB max
	802.11a	-26 dB max
	802.11n (2.4 GHz)	-29 dB max
	802.11n (5 GHz)	-29 dB max
Bluetooth Coexistence		TI Wilink6 proprietary WiFi-BT co-existent scheme.

8.2.2 Murata *Bluetooth* Radio

Table 8.2

Parameter	Specifications
Form Factor	Embedded surface mount module, 11.4 x 9.4 mm * This is a combo module containing both Wi-Fi 802.11a/b/g/n and <i>Bluetooth</i> V2.1+EDR radio
Antenna Port	U.FL jack (shared with Wi-Fi 802.11b/g/n radio)
Antenna Type	PIFA antenna. Covers 2400-2484 MHz @ <2.0:1 VSWR
Antenna Gain	3.73 dBi
Transmit Power	6.5 dBm typical
Frequency Range	2.400-2.4835 GHz
Channel	79
RX Sensitivity	-90 dBm typical, -70 dBm max
Data Rates	-90 dBm typical, -70 dBm max
802.11 Coexistence	TI Wilink6 proprietary WiFi-BT co-existent scheme.

8.2.3 Sierra Wireless MC5728V

Table 8.3

Features	Specifications
Physical	<ul style="list-style-type: none"> Small PCI-Express Mini Card standards-based form factor. Adheres to Rev 1.2 of the PCI Express Mini Card Specification Two U.FL RF connector jacks
Electrical	The MC5728V Mini Card is self-shielded; no additional shielding is required.
Environmental	Temperature operating range: <ul style="list-style-type: none"> IS-98D compliance: -30 to +60° C Reduced RF performance: +60 to +75° C
RF	<ul style="list-style-type: none"> Dual-band support for both the 800 MHz cellular and 1.9 GHz PCS bands Receive diversity support for the 800 MHz cellular and 1.9 GHz PCS bands Adheres to CDMA authentication as specified in CDMA 1X Support for IS-95A/B and CDMA 1X Release 0/A Support for IS-856 1xEV-DO Revision A Support for gpsOne™ and stand-alone GPS
Application Interface	<ul style="list-style-type: none"> USB supporting multiple logical channels over the USB MUX protocol USB selective suspend supported for maximum power savings Wakeup Enable-the modem can be set to wake the host device upon ring, restoration of radio coverage, and/or receipt of SMS AT command interface
Voice	The MC5728V Mini Card has internal IS-127 and IS-733 vocoders and supports: <ul style="list-style-type: none"> Call origination Silent retry call origination protocol Echo cancellation E911 Incoming call notification
Packet Mode	<ul style="list-style-type: none"> IS-2000 data rates up to 1531 kbps, simultaneous forward and reverse channel IS-856 (1xEV-DO Rev. A) data rates up to 3.1 Mbps forward channel and 1.8 Mbps reverse channel
IS-95 circuit-switched	<ul style="list-style-type: none"> V.34 data rates to 14.4 kbps Quick Net Connect (QNC) support
Short Message Service (SMS)	<ul style="list-style-type: none"> Send and receive Notification of new messages

8.2.4 Cinterion PH8 GSM/GPRS/EDGE Radio

Table 8.4

Feature	Specifications
General	
Frequency Bands	GSM/GPRS/EDGE: Quad band, 850/900/1800/1900MHz UMTS/HSPA+: Five band, 800/850/AWS/1900/2100MHz
GSM Class	Small MS
Output Power (according to Release 99)	Class 4 (+33dBm +2dB) for EGSM850 Class 4 (+33dBm +2dB) for EGSM900 Class 1 (+30dBm +2dB) for GSM1800 Class 1 (+30dBm +2dB) for GSM1900 Class E2 (+27dBm + 3dB) for GSM 850 8-PSK Class E2 (+27dBm + 3dB) for GSM 900 8-PSK Class E2 (+26dBm +3 /-4dB) for GSM 1800 8-PSK Class E2 (+26dBm +3 /-4dB) for GSM 1900 8-PSK Class 3 (+24dBm +1/-3dB) for UMTS 2100, WCDMA FDD Bd I Class 3 (+24dBm +1/-3dB) for UMTS 1900,WCDMA FDD Bd II Class 3 (+24dBm +1/-3dB) for UMTS AWS, WCDMA FDD Bd IV Class 3 (+24dBm +1/-3dB) for UMTS 850, WCDMA FDD Bd V Class 3 (+24dBm +1/-3dB) for UMTS 800, WCDMA FDD Bd VI

Table 8.4

Feature	Specifications
Operating Temperature (board temperature)	Normal operation: -30°C to +85°C Restricted operation: -40°C to +95°C
Physical	Dimensions: 33.9mm x 50mm x 3.1mm Weight: approx. 9.5g
RoHS	All hardware components fully compliant with EU RoHS Directive
HSPA features	
3GPP Release 6, 7	DL 14.4Mbps, UL 5.7Mbps UE CAT. [1-6], 11, 12 supported Compressed mode (CM) supported according to 3GPP TS25.212
UMTS features	
3GPP Release 4	PS data rate - 384 kbps DL / 384 kbps UL CS data rate - 64 kbps DL / 64 kbps UL
GSM/GPRS/EGPRS features	
Data Transfer	GPRS: <ul style="list-style-type: none"> • Multislot Class 12 • Full PBCCH support • Mobile Station Class B • Coding Scheme 1 - 4 EGPRS: <ul style="list-style-type: none"> • Multislot Class 12 • EDGE E2 power class for 8 PSK • Downlink coding schemes - CS 1-4, MCS 1-9 • Uplink coding schemes - CS 1-4, MCS 1-9 • SRB loopback and test mode B • 8-bit, 11-bit RACH • PBCCH support • 1 phase/2 phase access procedures • Link adaptation and IR • NACC, extended UL TBF • Mobile Station Class B CSD: <ul style="list-style-type: none"> • V.110, RLP, non-transparent • 14.4kbps • USSD
SMS	Point-to-point MT and MO Cell broadcast
GPS features	
Protocol	NMEA
Modes	Standalone GPS, Assisted GPS (control plane AGPS, E911 / user plane AGPS, gpsOneXTRA™)
General	Power saving modes GPS tracking in parallel to 2G/3G diversity operation
Software	
AT Commands	Hayes, 3GPP TS 27.007 and 27.005, and proprietary Cinterion Wireless Modules commands
SIM Application Toolkit	SAT Release 99
Audio	Audio speech codecs GSM: AMR, EFR, FR, HR 3GPP: AMR Speakerphone operation, echo cancellation, noise suppression
Firmware Update	Generic update from host application over ASCO or USB
Interfaces	
Module Interface	80-pin board-to-board connector

Table 8.4

Feature	Specifications
Antenna	500ohms. Main GSM/UMTS antenna, UMTS diversity antenna, GPS antenna (active/passive)
USB	USB 2.0 High Speed (480Mbit/s) device interface
Serial Interface	ASC0: • 8-wire modem interface with status and control lines, unbalanced, asynchronous • Adjustable baud rates from 9,600bps up to 921,600bps • Supports RTS0/CTS0 hardware flow control • Multiplex ability according to GSM 07.10 Multiplexer Protocol
UICC Interface	Supported chip cards: UICC/SIM/USIM 3V, 1.8V
Special features	
Phonebook	SIM and phone
Antenna	SAIC (Single Antenna Interference Cancellation) / DARP (Downlink Advanced Receiver Performance) RX diversity type 3i

8.3 Lithium-Ion 2400 mAh Battery Specifications

Table 8.5

Description	Specification
Model Number	RV3005
Part Number	1100911-000
Chemistry	Lithium-Ion (Li-Ion)
Battery Voltage	2.7 V ~ 4.2 V (minimum ~ maximum)
	3.7 V (nominal)
Capacity	2300 mAh/8.5 Whr (typical)
	2400 mAh/8.8 Whr (minimum)
Charge Current	1.15 A (typical)
Charge Voltage	4.2V +/- 0.05
Charge Method	constant-current/constant-voltage (CC/CV)
Discharge Current	1.15 A (typical)
	2.8 A (maximum)
Internal Resistance	135 m Ω (typical)
Storage Temperature	-20°C to +60°C (-4°F to +140°F)
Charge Temperature	0°C to +45°C (32°F to +113°F) (typical)
Discharge Temperature	-20°C to +60°C (-4°F to +140°F) (typical)
Charge Taper Current	48 ~ 120 mA
Charge Time	3 hrs. (typical)
Pre-condition Charge Current	200 ~ 240 mA

Table 8.5

Description	Specification
Pre-condition Charge Termination Voltage	3 V
Cycle Life	300 charge/discharge cycles with no degradation below 80% of nominal capacity based on 0.5 C charge / 0.5 C discharge rates (to 3.0 V) @ 23° C.

8.4 Lithium-Ion 3600 mAh Battery Specifications

Table 8.6

Description	Specification
Model Number	RV3010
Part Number	1100912-000
Chemistry	Lithium-Ion (Li-Ion)
Battery Voltage	2.7 V ~ 4.2 V (minimum ~ maximum)
	3.7 V (nominal)
Capacity	3600 mAh/13.32Whr (typical)
	3450 mAh/12.76 Whr (minimum)
Charge Current	1.72 A (typical)
Charge Voltage	4.2V +/- 0.05
Charge Method	constant-current/constant-voltage (CC/CV)
Discharge Current	1.72 A (typical)
	2.8 A (maximum)
Internal Resistance	125 m Ω (typical)
Storage Temperature	-20°C to +60°C (-4°F to +140°F)
Charge temperature	0°C to +45°C (32°F to +113°F) (typical)
Discharge Temperature	-20°C to +60°C (-4°F to +140°F) (typical)
Charge Taper Current	48 ~ 120 mA
Charge Time	3 hrs. (typical)
Pre-condition Charge Current	300 ~ 360 mA
Pre-condition Charge Termination Voltage	3 V
Cycle Life	300 charge/discharge cycles with no degradation below 80% of nominal capacity based on 0.5 C charge / 0.5 C discharge rates (to 3.0 V) @ 23° C.

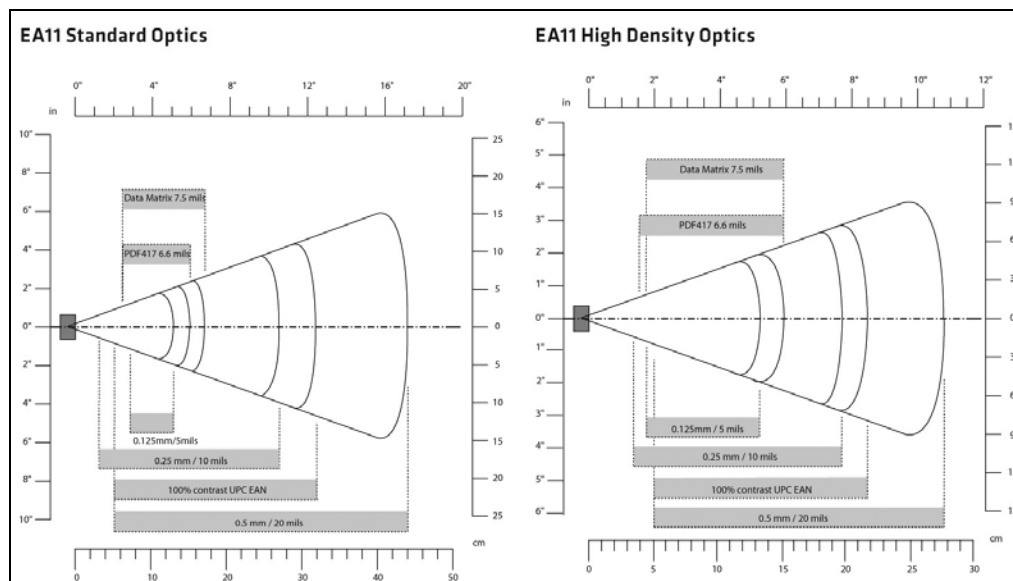
8.5 Internal Imager

This section lists specifications for the EA11 Decoded 2D imager.

8.5.1 EA11 Decoded 2D Imager

Parameter	Specification
Scan Rate	2D mode: 56 images/s auto adaptive
Linear Emulation Mode	200 scans/s auto adaptive
Scan Angle	38.9° (horizontal), 25.4° (vertical)
Optical Resolution	752 (H) x 480 (V) pixels, 256 gray levels
Print Contrast	down to 25%
Versions	Standard range and high density
Symbologies - 1D	EAN/UPC, GS1 Databar (limited expanded & omni-directional), RSS, Code 39, Code 128, UCC/EAN 128, ISBN, ISBT, Interleaved/Matrix/ Industrial and Standard 2 of 5, Codabar, Code 93/93i, Code 11, MSI, Plessey, Telepen, postal codes (Australian Post, BPO, Canada Post, Dutch Post, Japan Post, PostNet, Sweden Post)
Symbologies - 2D	Data Matrix, PDF417, Micro PDF 417, Codablock Maxicode, QR, Aztec GS1 composite codes
Voltage (optics)	3.3V -5% / +10% (typical values)
Operating Current	170mA - 310mA (lighting condition dependent)
Power Saving Mode	2mA
Ambient Light	Works in any lighting conditions, from 0 to 100,000 lux
Regulatory Approvals	UL, VDE certified, RoHS compliant

8.5.1.1 EA11 Typical Reading Distances



A

APPENDIX: WIRELESS WIDE AREA NETWORK (WWAN)

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A.1 Wireless WAN

The EP10 is available with one of the following Wireless WAN (WWAN) radio options: the Cinterion PH8 for GSM/UMTS networks worldwide, or the Sierra Wireless MC5728V for the Sprint and Verizon CDMA networks in the U.S.

A.2 Navigation Bar Icons

Wireless WAN icons are displayed in the navigation bar at the top of the screen that identify the packet data service and the signal strength.

When a modem detects that a packet data service is available, a letter is added to the signal strength icon indicating the type of service. Keep in mind that the signal strength icon is displayed without a letter if packet data service is not available, or if it is available but not yet initialized.

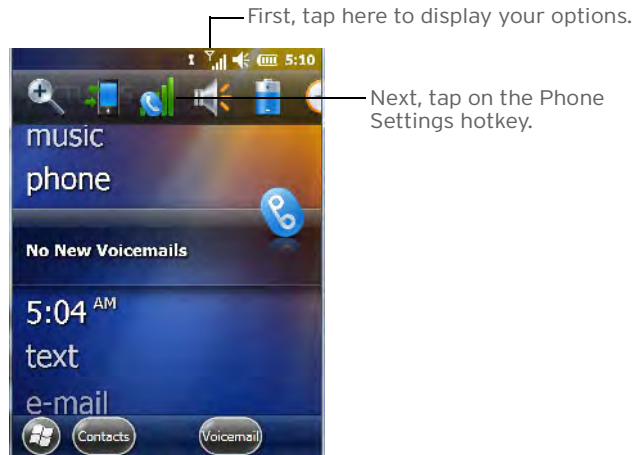
The symbols in the navigation bar identifying the modem connection are as follows:

- G - GSM/GPRS
- E - GSM/EDGE
- 3G - UMTS 3G
- H - UMTS/HSPA
- 1x - CDMA/1xRTT
- Ev - CDMA/1x EV-DO Rev. 0
- ^A_{EV} - CDMA/1x EV-DO Rev. A

A.3 Establishing a GSM/UMTS Radio Modem Connection

To display the *Data* tab through which you can configure a connection:

- Tap on the **a** **Navigation bar** at the top of the screen to display the hotkeys. Tap on the **Phone Settings** hotkey.



- In the *Phone Settings* bubble, tap on **Settings** to display the phone setting tabs.

Tap here to display the
phone setting tabs.

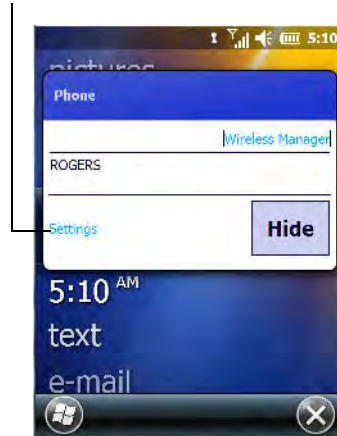
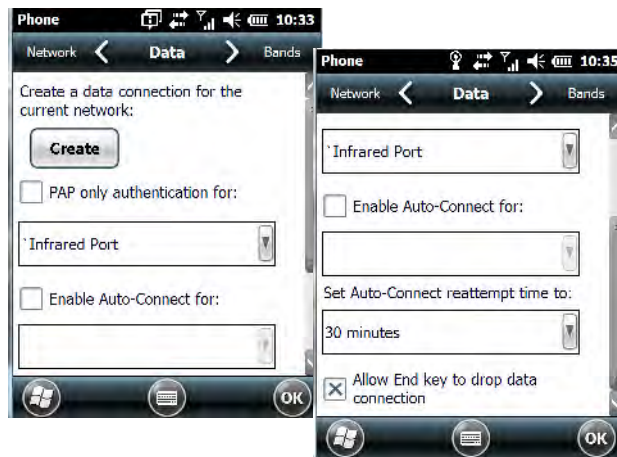


Figure A.1 Data Tab

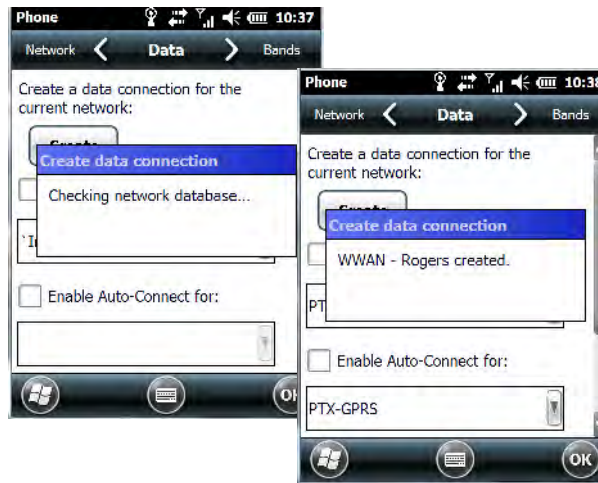


- Scroll to the **Data** tab.

By default the connection uses CHAP (Challenge Handshake Authentication Protocol); however, if your ISP does not support CHAP, tapping in the box to the left of *PAP only authentication for:* directs the connection to use PAP (Password Authentication Protocol) instead.

- Tap on the **Create** button.

A home data connection is automatically set up.



- To connect to the Internet, tap on the **Start>Internet Explorer** icon.



Note: Any application that needs Internet access will establish a packet data connection - for example, e-mail.

A.3.1 Disconnecting from a Network

To disconnect from the network:

- Tap on the **navigation bar** at the top of the screen, and then tap on the **Phone Settings hotkey**. In the pop-up *Phone bubble*, tap on **Wireless Manager**.
- Tap on the **Menu** button in the taskbar at the bottom of the *Wireless Manager* screen, and choose **Disconnect Cellular Data**.

A.3.2 Advanced GSM/GPRS Data Configuration

In most cases, when a GSM/GPRS radio and SIM are installed in your hand-held, setup is automatic. Follow the steps outlined under the heading "Establishing a GSM/UMTS Radio Modem Connection" on page A-3 to make a connection. The information in this section is for advanced setup purposes.

Manual configuration should only be necessary if:

- One or more parameters in the database are incorrect or a new operator is not yet in the database. (The database should be corrected for subsequent software releases.)
- An operator has assigned individual GPRS user names and passwords.
- A very large site has its own Access Point Name (APN). Such connections must be configured manually.
- A customer has subscribed for a static IP address. By definition this must be configured manually.

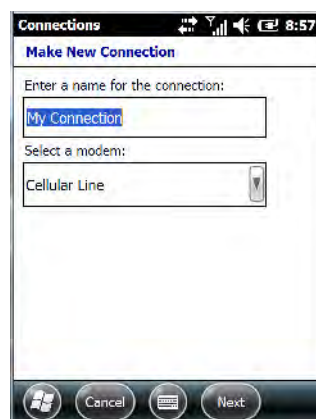
A.3.2.1 Manually Adding a New Modem Connection

- Tap on **Start>Settings>Connections folder icon**. Tap on the **Connections** icon.



- Choose **Add a new modem connection**.

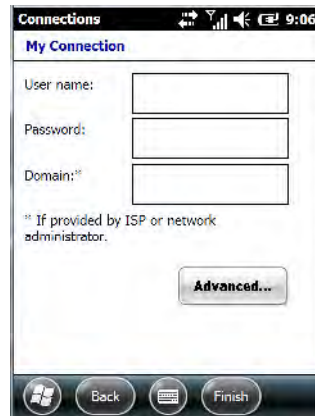
In most cases, you should choose *Add a new modem connection* from *ISP: WWAN - GPRS*. However, if you need to use a *Proxy server*, choose this option from *My Work Network*.



- Enter a **connection name** (optional).
- Choose **Cellular Line (GPRS)** from the *Modem* drop-down menu.
- Tap on **Next**.



- Type the **Access Point Name**, and tap on **Next**.



- If required, type a **User name** and **Password**.
- If you need to specify *TCP/IP* and *Server* information (i.e., you are using a static IP address) tap on the **Advanced...** button to complete the necessary details.
- Tap on **Finish** to create a new connection.

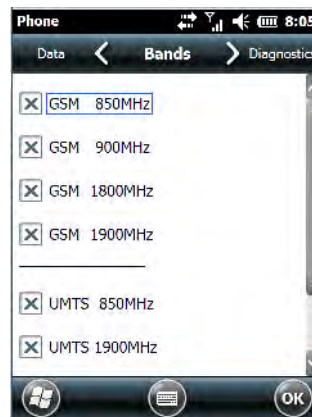
A.3.2.2 The Security Tab - Entering a PIN Number

This option allows you to assign a PIN (Personal Identification Number) so that your SIM card is protected from unauthorized use.



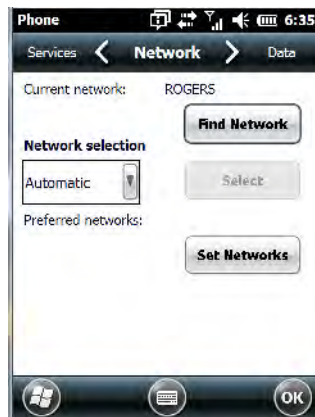
Note: For details about assigning a PIN number, refer to "Phone: Security Tab" on page 23.

A.3.2.3 Bands



By default, all frequency bands are enabled. Bands should not be disabled without knowledge about which bands are used by your network; an incorrect setting will prevent the WWAN modem from finding the network.

A.3.2.4 Network Configuration



By default the radio modem automatically chooses from the available and allowed networks (allowed networks are the home network and all other networks with which the home network has a roaming agreement). You may find there are some situations in which you want to override this default behaviour. For example, you might want to disable roaming if you find yourself in a border area where the home network is not available but a foreign roaming partner is available. Abroad, you may find that an available network does not have GPRS roaming agreements. In this case, you'll need to manually select the network which you know supports GPRS roaming.

Automatic network selection is enabled by default. You can also choose a network manually from the drop-down menu.

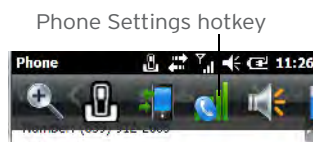


Note: Your home network operator will need to let you know which other networks have roaming agreements. Even when a network is listed with an 'Available' status, it does not necessarily follow that it can be used or that the roaming agreement covers GPRS.

A.4 Establishing a CDMA Radio Modem Connection

A.4.1 Sprint Connection

- Tap on the a **Navigation bar** at the top of the screen to display the hotkeys. Tap on the **Phone Settings** hotkey.



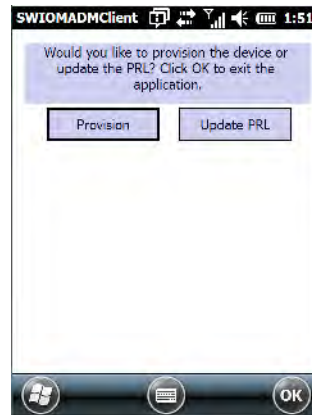
- In the *Phone Settings* bubble, tap on **Settings** to display the activation screen.



This screen appears when your service has not yet been initialized.

- Tap on **Yes** to begin preparing the service for initialization.

The next screen asks whether you'd like to *Provision* your device. Since a SIM card is not present in units equipped with CDMA radios, network settings need to be loaded into the modem. This process is referred to by Sprint as *provisioning*.



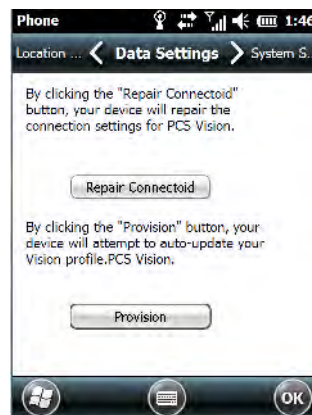
- Tap on **Provision** to load network settings onto the modem, and activate your service. The data connection is set up automatically on boot up.



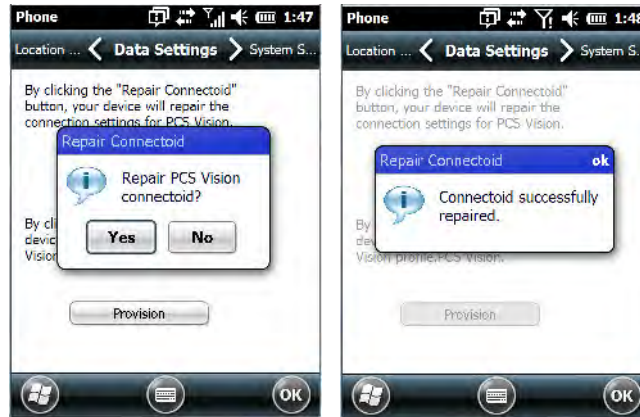
Important: *Since the network settings are updated wirelessly, make certain that you have good network coverage when you tap on Provision.*

A.4.1.1 Repairing a Network Connection

If your data connection is accidentally deleted, you can use this screen to set up your connection.



By tapping on **Repair Connectoid**, your data connection is restored. Note that *PCS Vision* is the default name assigned to the Sprint network connection.



A.4.1.2 Sound Tab and the Voicemail Field

If you need to find your *voicemail* number:

- Tap on the a **Navigation bar** at the top of the screen to display the hotkeys. Tap on the **Phone Settings** hotkey.

Phone Settings hotkey



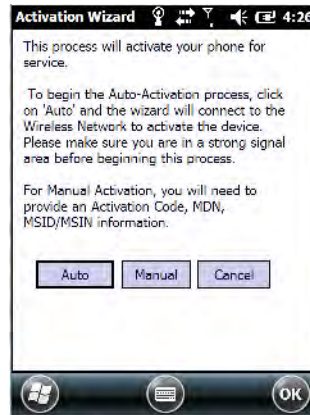
This tab displays the pre-configured voicemail number.



A.4.2 Verizon Connection

To create your Verizon data connection:

- Tap on the a **Navigation bar** at the top of the screen to display the hotkeys. Tap on the **Phone Settings** hotkey.
- In the *Phone Settings* bubble, tap on **Settings**.



This screen is displayed only when your service has not yet been activated.

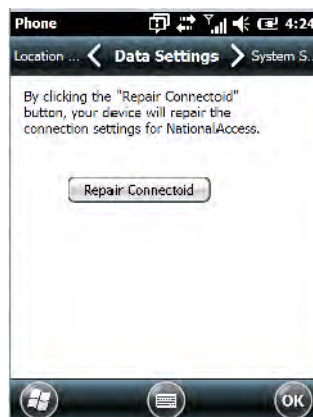
- Tap on **Auto** to set up the data connection.



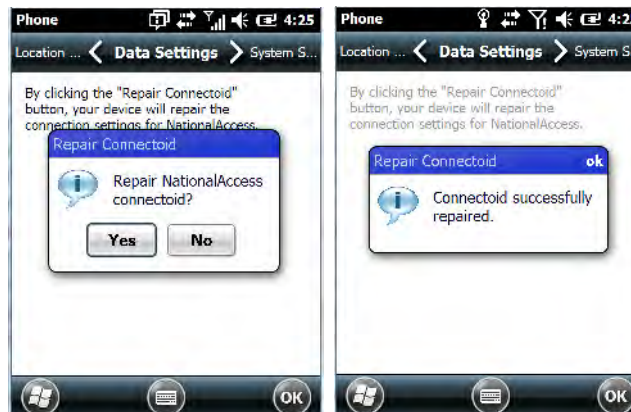
Important: *Since the network settings are updated wirelessly, make certain that you have good network coverage before tapping on 'Auto'.*

A.4.2.1 Repairing a Data Connection

If your data connection is accidentally deleted, you can use this screen to set up your connection.



By tapping on **Repair Connectoid**, your data connection is restored. Note that *NationalAccess* is the default name assigned to the Verizon network connection.



B

APPENDIX: PORT PINOUTS

B.1	Dock Port Pinout	B-3
B.2	Battery Contact Pinout	B-3

B.1 Dock Port Pinout

Pin #	Pin Name	Signal	Direction Relative To DPA	Comment
1	GND	DGND	-	
2	VDD_EXT_PWR	VDD_EXT_PWR	Input	These 3 pins are connected together.
3	VDD_EXT_PWR			
4	VDD_EXT_PWR			
5	BATT_OUT	VDD_BATT_OUT	Output	
6	AUDIO_P		Output	Audio positive.
7	AUDIO_N		Output	Audio negative.
8	VDD_USBOTG		Bi-directional	USB Power (+5.5V). As output, supplies external devices when EP10 is in USB Host mode. As input, charges battery when EP10 is in USB Client mode.
9	DOCK_ID		Input	Dock ID.
10	USB_OTG_DN		Bi-directional	
11	USB_OTG_DP		Bi-directional	
12	USB_OTG_ID		Input	
13	GND	DGND	-	
14	TXDATA		Output	RS-232 data transmit. Max bit rate 115 kbits/sec.
15	RXDATA		Input	RS-232 data receive. Max bit rate 115 kbits/sec.
16	GND	DGND	-	

B.2 Battery Contact Pinout

PIN #	Signal Name	Function
1	Pack +	Battery positive
2	Pack +	Battery positive
3	DQ	Serial data I/O
4	Det	Connect to Pack - through 0 Ω
5	-	No Connection
6	Pack -	Battery negative
7	Pack -	Battery negative



APPENDIX: IMAGERS APPLET

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The *Imagers* applet is used to create, modify, delete and activate imager settings. The principle uses of the applet are to decode bar codes and to capture images. A *Demonstration Application* is provided to demonstrate how the imager works. Refer to "Imager and Camera Demo" on page 88 for details.

C.1 Required Applets

In order to configure imaging, the *Manage Triggers* applet must be present in the *Settings>System* tab along with the *Imagers* applet.

C.2 Presets

There are two methods that can be used to configure an imager using the *Imagers* applet:

- Use a predefined preset.
- Create a custom preset based on a predefined preset.



Important: *It is strongly recommended that a predefined preset is used whenever possible. Each predefined preset contains a coherent group of settings that are known to work together in the intended environment. In almost all situations, at least one of the predefined presets results in a satisfactory outcome.*

A *preset* is a group of exposure and image correction settings. Each preset configures the imager for a specific purpose such as bar code decoding or image capture.

Presets also allow easier and faster configuration of the imager after power-on or resume from suspend.

The predefined presets are generic and satisfy most user requirements. A custom preset can be created for a specific user application, such as: include only specified bar codes, read only a specified number of bar codes or for reading unusual media.

Every preset belongs to a preset type. The following preset types are available:

- Imaging for photo capture.
- Imaging for bar code decoding.
- Symbology selection.

At any time, only one preset of each type can be designated as the user-selected *active* preset.

C.2.1 Predefined Presets

Predefined presets are built into the imaging software and cannot be changed. The predefined presets allow you to use the imager to perform specified tasks without having to understand and set numerous variables. In almost all cases these predefined presets are sufficient.

C.2.2 Bar Code Predefined Presets

These presets encompass the majority of the most popular bar codes and their subtypes. The *bar code decoding symbology* predefined presets define which bar codes can be decoded. The *bar code decoding camera* predefined presets determine how the bar code images are captured

C.2.2.1 Bar Code Decoding Symbology Predefined Presets

The following presets select groups of similar bar codes for decoding.



Note: It is recommended that the default preset be used whenever possible.

Factory Default

This preset enables the decoding of frequently used bar codes.

My Default

The bar codes in this preset can be enabled, disabled and so on.

All

This preset enables the decoding of all bar codes that the imager can decode. For a list of these symbologies see “Imager Bar Code Symbologies” on page C-18 and “Color Camera Bar Code Symbologies” on page C-19.

Linear

This preset enables the decoding of all the 1D symbologies that the imager can decode. For a list of these symbologies see “Imager Bar Code Symbologies” on page C-18 and “Color Camera Bar Code Symbologies” on page C-19.

Linear and PDF417

This preset enables the decoding of all the 1D and PDF symbologies that the imager can decode. For a list of these symbologies see “Imager Bar Code Symbologies” on page C-18 and “Color Camera Bar Code Symbologies” on page C-19.

Matrix

This preset enables the decoding of all 2 D symbologies that the imager can decode. See “Imager Bar Code Symbologies” on page C-18 and “Color Camera Bar Code Symbologies” on page C-19 for a list of these symbologies.

Postal

This preset enables the decoding of all the postal symbologies that the imager can decode. See “Imager Bar Code Symbologies” on page C-18 and “Color Camera Bar Code Symbologies” on page C-19 for a list of these symbologies.

C.2.3 Bar Code Decoding Camera Predefined Presets

The following presets enable successful bar code image capture in almost all conditions.



Note: It is recommended that the default preset be used whenever possible.

Default

This preset works in a wide range of conditions. It is optimized for a normal office lighting (about 300 Lux).

Low light

This preset is designed for very dark conditions such as inside a warehouse where the lights are kept low, or inside an unlit truck. This preset increases either the exposure time or the gain.

Low power

This preset minimizes the use of the flash so as to conserve the battery power on the EP10.

Glossy surface

This preset minimizes the use of the flash so as to reduce reflection. This preset is used to read bar codes that are behind glass, or inside the plastic window of an envelope.

C.2.4 Image Capture Predefined Presets

The following presets enable successful image capture in almost all conditions.



Note: It is recommended that the default preset be used whenever possible.

Default

This preset works in a wide range of conditions. It is optimized for a normal office lighting (about 300 Lux).

Motion

This preset uses a shorter exposure time so as to freeze motion.

Low light near

This preset is designed for dark conditions, it uses a longer exposure time and includes the flash.

C.3 Using the Imagers Applet

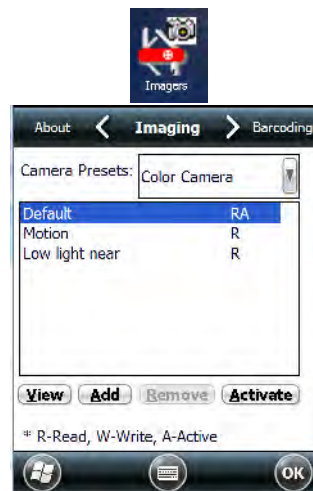
C.3.1 Configuring the Image Capture Presets

To configure the image capture presets, open the dialog box as follows:

- Tap on **Start>Settings>System** tab.
- Tap on the **Imagers** icon, and if it's not already selected, tap on the **Imaging** tab.

The following screen is displayed:

Figure C.2 Imaging Tab



This window lists all the presets, both predefined and custom. Presets are identified as follows:

- Predefined presets are marked as *read-only*.
- Custom presets are marked as *read and write*.
- One preset - either predefined or custom - is marked as *active*.

C.3.2 Selecting a Camera

Your EP10 has a built-in imager and a camera. One camera must be selected for configuration. To select a camera:

- Tap on the **Camera Presets** drop-down menu to view the camera options.
- Choose a **camera** - either *Imager*, the imager located at the top of the unit, or *Colour Camera*, the camera located at back of the EP10.

C.3.3 Setting the Active Preset

An active preset has an *A* to the right. To set an active preset:

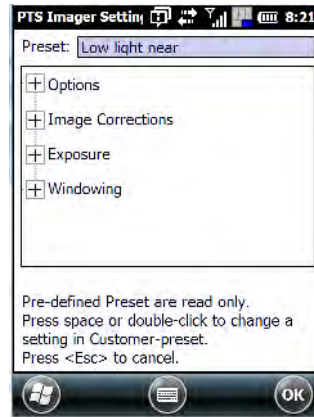
- Highlight the preset, and tap on the **Activate** button.

C.3.4 Viewing a Preset

To view the parameter settings in a preset:

- Highlight a preset, and tap on the **View** button.

The associated preset window is displayed.



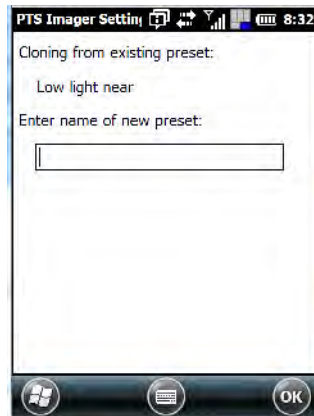
- Tap on the + sign to expand the lists so that you can view the parameter settings.

C.3.5 Creating a Custom Preset

A new custom preset is created by modifying a preset – either a predefined preset or an existing custom preset. To create a custom preset:

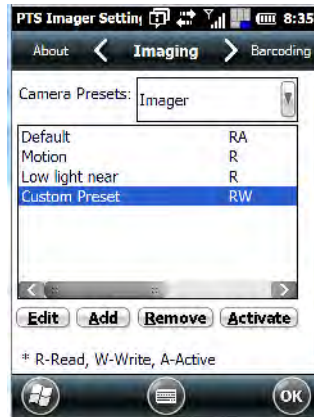
- Highlight a preset, and tap on the **Add** button.

In this example, the *Low light near* preset was chosen. A screen like the sample below is displayed.



- Type the **name** of the new preset in the dialog box.
- Tap on **OK** to save your changes.

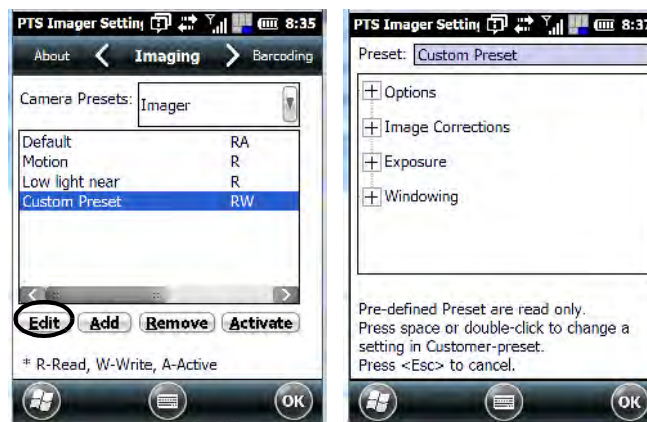
The preset list is displayed; the new custom preset appears at the end of the list. It is marked as read and write.



C.3.6 Modifying a Custom Preset

The parameter values in a custom preset can be modified. It is recommended that very few changes be made to a custom preset. To ensure that it will work reliably, it should be as close as possible to the original predefined preset. To change a parameter value:

- Highlight the **custom preset**, and tap on the **Edit** button.



- Tap on the + symbols to expand the lists so that you can view the parameter settings.
- Scroll through the parameter list until you reach the parameter that you want to change.
- For a parameter that can take a *range* of values:
 - Highlight the parameter, and then press the [SPACE] key or double-click the parameter.
 - An associated dialog box containing the valid range of values for the parameter and the current setting like the sample screen following is displayed.
 - Type a value in the field provided.
- For a parameter that toggles between two values such as *on* or *off* and *enabled* or *disabled*:
 - Highlight the parameter and then press the [SPACE] key, or double-click on the parameter. Either method toggles between the two available values.
- When you've completed your edits, tap on **OK**.

The parameter list is displayed; the new value for the changed parameter is shown.

- Tap on **OK** to exit to the preset list and save the changes.

C.3.7 Removing a Custom Preset

- Highlight the custom preset you want to delete, and tap on the **Remove** button.

A window is displayed warning you that you are about to remove a preset.

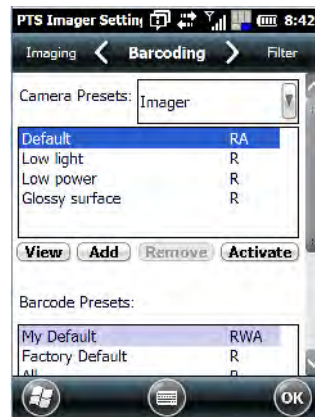
- Tap on **Yes** to remove the preset or **No** to cancel the operation.

C.4 Configuring the Bar Code Decoding Camera Presets

To configure the bar code decoding camera presets:

- Tap on **Start>Settings>System**.
- Tap on the **Barcoding** tab.

Figure C.3 Bar Code Presets



This window lists all the presets, both predefined and the custom. Presets are identified as follows:

- Predefined presets are marked as read-only. For a description, review “Predefined Presets” on page C-3.
- Custom presets are marked as read and write.
- One preset – either predefined or custom – is marked as active.



Note: The top portion of the window displays the bar code decoding camera presets.

The top part of the window displays the bar code decoding camera presets.

C.4.1 Selecting a Camera

One camera must be selected for configuration. To select a camera:

- Tap on the **Camera Presets** drop-down menu to view the camera options.
- Choose a **camera** – either *Imager*, the imager located at the top of the unit, or *Color Camera*, the camera located at back of the EP10.



Important: *Currently, only the ‘Imager’ can be used to read bar codes. The ‘Colour Camera’ is limited to taking photos.*

C.4.2 Setting the Active Preset

An active preset has an A to the right; in Figure C.3 on page page C-8, the active preset is *Defaults*. To set an active preset:

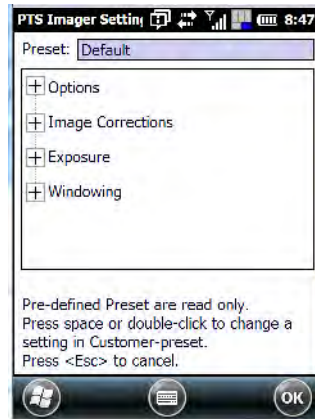
- Highlight the preset, and tap on the **Activate** button.

C.4.3 Viewing a Preset

To view the parameter settings in a preset:

- Highlight a preset, and tap on the **View** button.

The associated preset window is displayed.



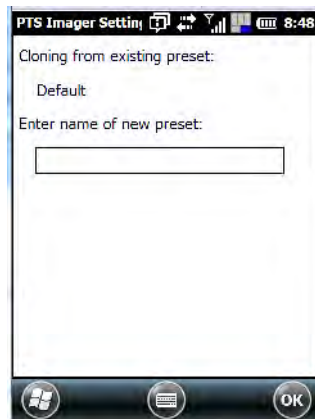
- Tap on the + sign to expand one of the lists so that you can view the parameter settings.

C.4.4 Creating a Custom Preset

A new custom preset is created by modifying a preset - either a predefined preset or an existing custom preset. To create a custom preset:

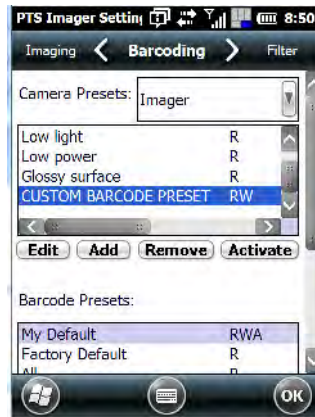
- Highlight a preset, and tap on the **Add** button.

A screen like the sample following is displayed.



- Type the **name** of the new preset in the dialog box.
- Tap on **OK** to save your changes.

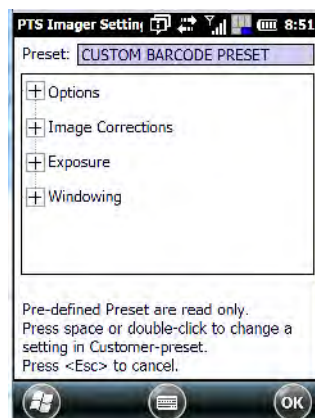
The preset list is displayed; the new custom preset appears at the end of the list. It is marked as read and write.



C.4.5 Modifying a Custom Preset

The parameter values in a custom preset can be modified. It is recommended that very few changes be made to a custom preset. To ensure that it will work reliably, it should be as close as possible to the original predefined preset. To change a parameter value:

- Highlight the **custom preset**, and tap on the **Edit** button.



- Tap on the + symbols to expand the lists and view the parameter settings.
- Scroll through the parameter list until you reach the parameter that you want to change.
- For a parameter that can take a *range* of values:
 - Highlight the parameter, and then press the [SPACE] key or double-click the parameter.
 - An associated dialog box containing the valid range of values for the parameter and the current setting is displayed.
 - Type a value in the field provided.
- For a parameter that toggles between two values such as *on* or *off* and *enabled* or *disabled*:
 - Highlight the parameter and then press the [SPACE] key, or double-click on the parameter. Either method toggles between the two available values.
- When you've completed your edits, tap on **OK**.

The parameter list is displayed; the new value for the changed parameter is shown.

- Tap on **OK** to exit to the preset list and save the changes.

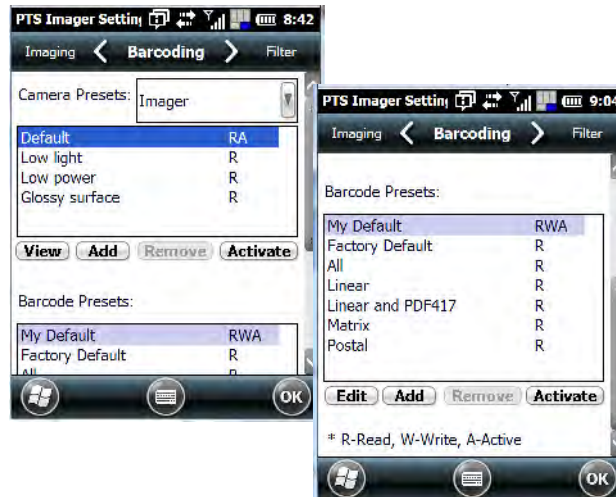
C.4.6 Removing a Custom Preset

- Highlight the custom preset you want to delete, and tap on the **Remove** button. A window is displayed warning you that you are about to remove a preset.
- Tap on **Yes** to remove the preset or **No** to cancel the operation.

C.4.7 Configuring the Bar Code Decoding Symbolologies

To configure the bar code decoding camera presets:

- Tap on **Start>Settings>System** tab.
- Tap on the **Barcoding** tab.
- Scroll down to view your bar code options.



C.4.8 Setting the Active Preset

An active preset has an A to the right; in Figure C.3 on page C-8, the active preset is *My Defaults*. To set an active preset:

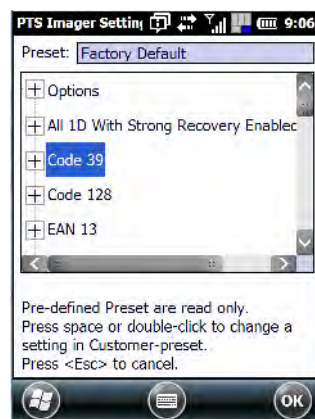
- Highlight the preset, and tap on the **Activate** button.

C.4.9 Viewing a Preset

To view the parameter settings in a preset:

- Highlight a preset, and tap on the **View** button.

The associated preset window is displayed.



- Tap on the + sign to expand one of the lists so that you can view the parameter settings.

C.4.10 Creating a Custom Preset

A new custom preset is created by modifying a preset - either a predefined preset or an existing custom preset. To create a custom preset:

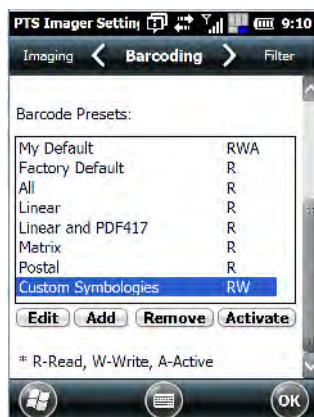
- Highlight a preset, and tap on the **Add** button.

A screen like the sample following is displayed.



- Type the **name** of the new preset in the dialog box.
- Tap on **OK** to save your changes.

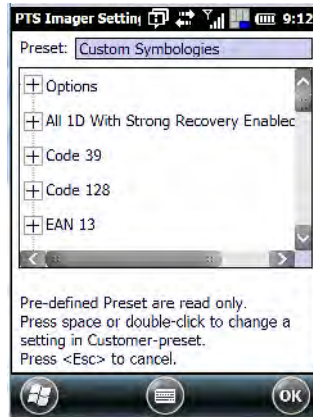
The preset list is displayed; the new custom preset appears at the end of the list. It is marked as read and write.



C.4.11 Modifying a Custom Preset

The parameter values in a custom preset can be modified. It is recommended that very few changes be made to a custom preset. To ensure that it will work reliably, it should be as close as possible to the original predefined preset. To change a parameter value:

- Highlight the **custom preset**, and tap on the **Edit** button.



- Tap on the + symbols to expand the lists and view the parameter settings.
- Scroll through the parameter list until you reach the parameter that you want to change.
- For a parameter that can take a *range* of values:
 - Highlight the parameter, and then press the [SPACE] key or double-click the parameter.
 - An associated dialog box containing the valid range of values for the parameter and the current setting is displayed.
 - Type a value in the field provided.
- For a parameter that toggles between two values such as *on* or *off* and *enabled* or *disabled*:
 - Highlight the parameter and then press the [SPACE] key, or double-click on the parameter. Either method toggles between the two available values.
- When you've completed your edits, tap on **OK**.

The parameter list is displayed; the new value for the changed parameter is shown.

- Tap on **OK** to exit to the preset list and save the changes.

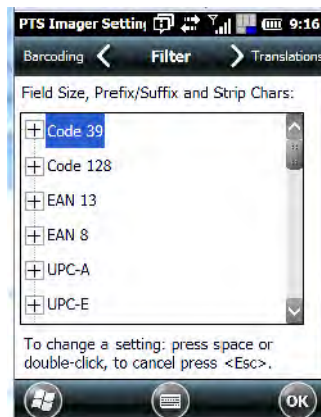
C.4.12 Removing a Custom Preset

- Highlight the custom preset you want to delete, and tap on the **Remove** button. A window is displayed warning you that you are about to remove a preset.
- Tap on **Yes** to remove the preset or **No** to cancel the operation.

C.4.13 Filter Tab - Manipulating Bar Code Data

To configure rules for manipulating bar code data:

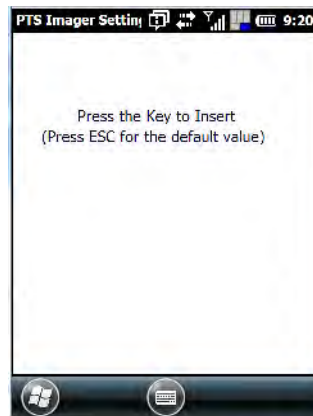
- Tap on **Start>Settings>System** tab.
- Tap on the **Imagers** icon, and then tap on the **Filter** tab.



C.4.13.1 Modifying a Bar Code Setting

The rules for manipulating data from selected bar code symbologies can be modified. To change the settings for a symbology:

- Tap on the + symbols to expand the lists and view the parameter settings.
- Scroll through the parameter list until you reach the parameter that you want to change.
- For a parameter that can take a *range* of values:
 - Highlight the parameter, and then press the [SPACE] key or double-click the parameter.
 - An associated dialog box containing the valid range of values for the parameter and the current setting is displayed.
 - Type a value in the field provided.
- For a parameter that takes a single character:
 - Highlight the parameter and then press the [SPACE] key, or double-click on the parameter. The following screen is displayed:

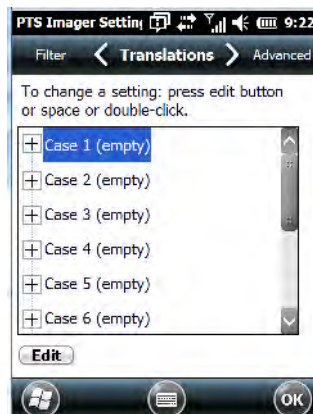


- When you've completed your edits, tap on **OK**.

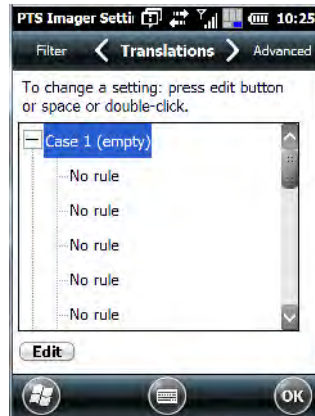
C.4.14 Translation Tab - Configuring Rules

Translation rules enable the automatic processing of bar code data. Up to 10 cases can be defined, each consisting of up to 10 sequential rules.

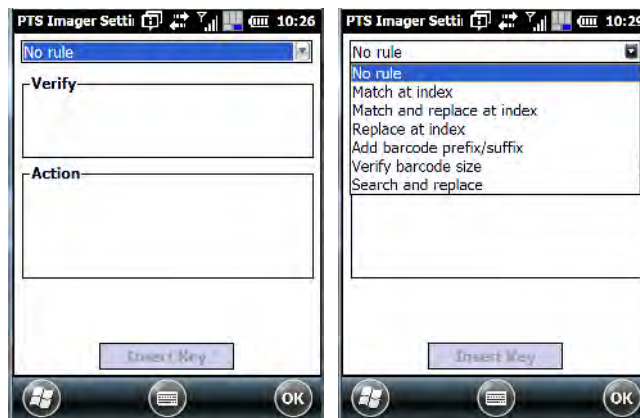
- Tap on **Start>Settings>System** tab.
- Tap on the **Imagers** icon, and then tap on the **Translation** tab.



- In the *Translations* tab, double-tap on a **Case #** to create rules.



- Tap on the **No rule** drop-down menu to display the rules.



When you choose a rule, an associated screen is displayed in which you can define the rule.



C.4.14.1 Case Rules

The case rules are defined as follows:

- **No rule** - ignored.
- **Match at index** - matches the match string at a specified index.
- **Match and replace at index** - matches the match string at a specified index and replaces/changes it.
- **Replace at index** - replaces/changes unspecified data in a given range.
- **Add barcode prefix/suffix** - adds a global prefix or suffix.

- **Verify barcode size** - verifies the bar code size. This rule should generally be assigned first, before creating subsequent rules.
- **Search and replace** - replaces all instances of the match string. (Note that this rule cannot fail.)



Important: *Keep in mind that the effects of previously applied rules must be taken into account when creating subsequent rules. For example, if the bar code size is important, it should be checked before any rules that might change the size are applied.*

C.4.15 Advanced Tab

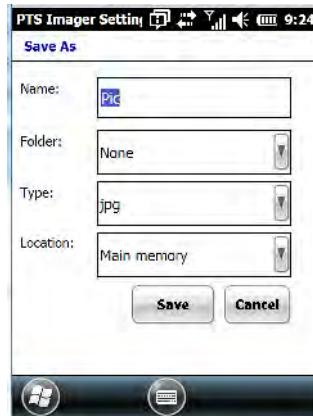
C.4.15.1 File Locations for Captured Images

To configure the location for saved images, open the dialog box as follows:

- Tap on **Start>Settings>System**.
- Tap on the **Imagers** icon, and then tap on the **Advanced** tab.

To define the location where imager files will be stored:

- Tap on the **File Location** button.



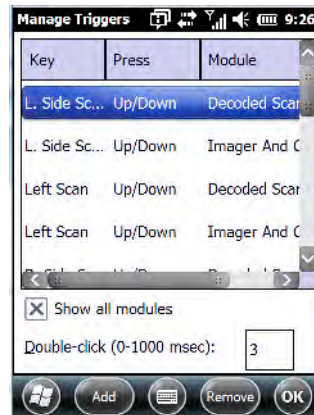
- Type the file **Name**, choose the **Folder** and file **Type**.
- Choose the **Location** in which your files will be saved.
- When you have completed all the changes, tap on the **Save** button.

C.4.15.2 Configuring Triggers

Viewing The Trigger Configuration

The trigger on the EP10 hand-held is configured using the *Manage Triggers* applet. The *Imagers* applet provides a shortcut to the *Manage Triggers* applet.

- In the *Advanced* tab, tap on the **Trigger Control** button.
- To view all the triggers and the hardware devices that are configured to use them, tap in the checkbox next to **Show all modules**.



Adding, Editing and Removing Triggers

For instruction about adding, editing and removing triggers, refer to “Manage Triggers” on page 147.

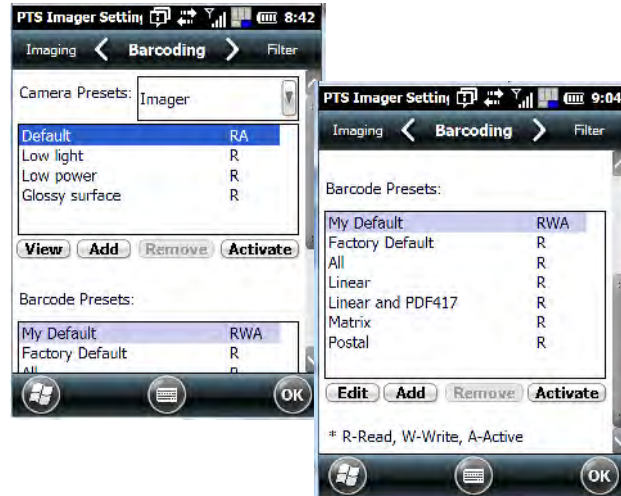
C.5 Bar Code Symbolologies

There are two sets of bar code symbolologies, one for *Imager* and one for *Colour Camera*. To display the bar codes available:

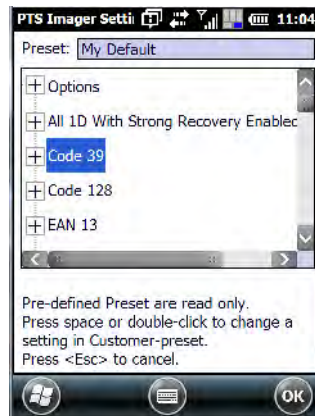
- In the *PTS Imager Settings* screen, scroll to the **Barcoding** tab.
- In the *Camera Presets*: drop-down menu at the top of the *PTS Imager Settings* screen, choose **Imager** or **Color Camera** depending on which set of bar codes you want to work with.



- Scroll down to the **Barcode Presets**.



- Tap on an **Barcode Preset** to display the bar code symbolologies.



C.5.1 Imager Bar Code Symbolologies

The bar code symbolologies for the *Imager* are listed in this section.

Table C.1

Imager Bar Code Symbolologies
All 1D With Strong Recovery Enabled
Code 39
Code 128
EAN 13
EAN 8
UPC-E
UPC-A
UPC/EAN Sharing Settings
Code 93 (disabled)
MSI Plessey (disabled)

Table C.1

Imager Bar Code Symbolologies
Code 11 (disabled)
Interleaved 2 of 5 (disabled)
Matrix 2 of 5 (disabled)
Discrete 2 f 5 (disabled)
Telepen (disabled)
Gs1 DataBar (disabled)
TLC-39 (disabled)
2D PDF-417
2D micro PDF-417
CodaBlock F (disabled)
CodaBlock A (disabled)
2D Data Matrix
2D QR Code
2D Maxicode (disabled)
2D Aztec (disabled)
Postal: PlanNET (disabled)
Postal: PostNET (disabled)
Postal: China (disabled)
Postal: Japanese (disabled)
Postal: Kix (disabled)
Postal: Royal (disabled)
Gs1

C.5.2 Color Camera Bar Code Symbolologies

The bar code symbolologies for the *Color Camera* are listed in this section.

Table C.2

Color Camera Bar Code Symbolologies
All 1D With Strong Recovery Enabled
Code 39
Code 128
EAN 13
EAN 8
UPC-E
UPC-A
Code 93 (disabled)
Codabar
Interleaved 2 of 5 (disabled)
Gs1 DataBar (disabled)

Table C.2

Color Camera Bar Code Symbolologies
Gs1 Composite
2D PDF-417
2D micro PDF-417
2D Data Matrix
2D QR Code
2D Maxicode (disabled)
2D Aztec (disabled)
Postal: PlanNET (disabled)
Postal: PostNET (disabled)
Postal: Australia (disabled)
Postal: Canadian (disabled)
Postal: Japanese (disabled)
Postal: Kix (disabled)
Postal: Korean (disabled)
Postal: Royal (disabled)

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