Release Notes

Version 2.1.4 of Windows Mobile® 5.0 Operating System for the Field PC

Aug 2008

These release notes describe improvements and important information of Release 2.1.4 of Windows Mobile 5.0 for the Field PC. This release is for English and Japanese only. For other languages use Release 2.1.3. Additional information about updates added in previous OS release versions are mentioned in the previous release notes documents available at:

http://www.ultraruggedfieldpc.com/releasenotes.php

You can download the latest release 2.1.4 from the following website:

http://www.ultraruggedfieldpc.com

Instructions for installing the new operating system are contained in the Field PC Release 2.1.4 Installation Instructions at http://www.ultraruggedfieldpc.com/OS214InstallInstructions.pdf.

Contents

These release notes contain the following sections:

System Requirements

The software release is installed on the Field PC. It includes new features and addresses discrepancies or issues identified in previous operating system versions.

The Field PC is the only device that accepts this update.

New Features

The following features are in the Release 2.1.4 operating system for the Field PC.

- **Improved multiple USB device support.** Improved handling of multiple USB devices attached simultaneously to the USB Host port on the Field PC through a hub or adapter.

- **Enhanced USB Client drivers.** Enhanced drivers to better support custom development of multiple Field PC connections to desktop PCs.

Important Notes

- **Release 2.1.4 is only available in English and Japanese.** For other languages use release 2.1.3.

- **All memory, including */Storage*, is erased during OS install.** Transfer any data that needs to be saved to a peripheral device or desktop computer.

- **OS cannot be downgraded.** A Field PC running 2.1.1 or higher cannot be downgraded to a previous release 1.03 or earlier version. [607]

- **Today screen may flicker or refresh.** Appears in Field PCs with no wireless (Wi-Fi or Bluetooth) peripherals installed and that run a version of the OS that is based on AKU 3.x.

  For a list of workarounds, see this issue under *Known Issues* in this document. [380]

- **Device drivers should be installed in the primary device storage.** Install device drivers and applications in the "Device" option on the Field PC, not in a secondary storage

area. Installing them in another area may prevent the device driver or application from functioning properly.

- **CF Cards remain powered when they are inserted—even if they are not active.** This has little to no effect on CF card device operation. Also, the low power requirements of most CF peripherals when idle, typically has little impact on battery life. Power is removed from the CF card when the Field PC is turned off (suspended or powered off).

Resolved Issues

This section lists resolved issues in version 2.1.4 of the Field PC operating system.

Release 2.1.4

- Increased initial delay before writing to the internal flash storage memory location containing the operating system. Prevents memory corruption when installing the operating system or when saving data to "\Storage", which occasionally resulted in system lock ups during power on (stuck at white, green "Windows Mobile" logo, blue "Ultra-Rugged Field PC", or black "off" screen).

- Enhanced touchscreen drivers prevent occasional issues with touchscreen not responding.

- Automatic suspend 15 seconds after system resume at midnight to prevent battery drain in some specific product applications.

Known Issues

These commonly known issues may still be encountered in Release 2.1.4 version of the operating system.

Symptom or Issue	Workarounds	Issue
After suspending and later resuming the unit, occasionally a black screen may be encountered which freezes the OS.	Perform a Reset of the Field PC. This issue most often is encountered when using a CF or SD card device. A potential fix has been included in the pending OS release 2.1.5.	1426
The Bluetooth drivers from Microsoft® require you to enter a PIN for a Bluetooth device when the device needs no PIN.	Option 1: Enter 0000 as the pin. Or when you are asked to enter a PIN, leave the PIN entry box blank and click *Next*. Choose *No* when you are asked whether you want to make the device available on the device list. See the Reference Guide for more details. Option 2: If you are using a Bluetooth® CF or SD card from Socket Mobile®, load the Socket Bluetooth drivers for Windows Mobile® 5.0. After the drivers are loaded, you do not have to enter a PIN for devices that do not require a PIN.	140
Some USB flash drives do not work with the Field PC. Flash drives found not to work include the Gizmo® by Crucial, Inc.® and the Cruzer Titanium® 1.0 GB drive from SanDisk®.	Use a supported USB flash drive as listed in the FAQs on the web site.	208
GPS CF card cannot be turned off once it is turned on	This issue does not affect cards in software applications. There is a minimal increase in battery drain while idle.	271
Reset does not disable touchscreen lock	Unlock the touchscreen by tapping *Unlock* when it appears and then tap *Unlock* again.	305
Today screen flickers	The Today screen flicker can be eliminated by turning off the Wireless	380

Conditions: This flicker appears in Field PCs with no wireless (Wi-Fi or Bluetooth) peripherals installed and that are running a version of the OS that is based on AKU 3.x.	Today screen item under *Settings > Today > Items*. The Today screen flicker problem is resolved by installing a wireless device.	
USB device is not recognized after reset	Disconnect and reconnect the USB device.	400
File Explorer fails to access shared network drive ("Cannot Connect" error message appears) Conditions: This problem occurs when the Field PC has a Wi-Fi network connection or when there is a wired network connection.	Open Internet Explorer and enter the name of the computer with the shared resource (e.g., \\test-computer*).*	411
USB Host driver does not have power management capabilities.		446
When RAM memory is full, Field PC may close a program.	RAM memory is available on newer units up to 128MB	529
ActiveSync connection disables Wi-Fi connection	ActiveSync provides IP connection through desktop PC	547