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Mobile Devices

The most effective way to build a strong and effective mobile strategy is by using a tool that is made expressly for the job. The RailDOCS Mobile Business Platform was built upon the premise of ultimate mobility for the railroad worker, and is supported by the very best "military tough" handheld computers available. We refer to these handhelds as Personal Mobile Tools (PMTs) to distinguish them from commodity Personal Digital Assistant (PDA) handhelds, which are more commonplace.

PMTs are intended to be taken right to the work site — inside a bungalow, at a switch machine, on a locomotive — where they can provide the highest value and benefit through the highest level of worker mobility. The RailDOCS Mobile systems are designed so that these highly mobile devices guide the work processes that ensure every aspect of the work is completed and documented in the proper manner based on governmental and company requirements. Other useful information, like troubleshooting guides or equipment information, can also be loaded onto the PMTs.

With rules and standards continuously evolving, and with the high rate of attrition and new hires, getting business intelligence out to where it makes a difference is more important now than ever. For managers and other railroad employees that require access to RailDOCS away from the office, we also support the use of Ultra-Mobile PCs and Laptops.

Nomad

Standard Features

- Linux 2.6.26.7
- Commercial Qtopia ver. 2.3.12
- 806 MHz Marvell PXA320 XScale processor
- 128 MB DDR SDRAM
- 1 GB nonvolatile flash storage
- Touchscreen
- Full VGA, sunlight-readable color TFT display
- Integrated speaker and microphone
- Rugged submersible design
- 15 hours battery life with active use (default settings)
- Integrated Bluetooth and 802.11g wireless capability
- Secure Digital (SDIO) slot
- USB host and client
- Notification LEDs
- Audio Jack
- Backlit numeric style keypad for night use
- Integrated GPS (SiR F Star III, WAAS Capable)
- Integrated laser 1D bar code scanner
- Integrated digital camera (color, 2 megapixel resolution)

Standard Software

- POP3, SMTP, IMAP4 - file attachment capability
- Calendar
- Contacts
- Tasks
- Text editor
- Calculator
- Music
- Pictures
- Videos

Standard Accessories

- Rechargeable PowerBoot Module
- AC charger
- Hand strap
- Stylus pens
- Package of 10 screen protectors

Physical

- Size 6.92" (17.6 cm) x 3.92" (10.0cm) x 1.96" (5.0cm)
- Weight 21 ounces (596 g) including rechargeable battery

Environment

- Operating temperature -22 to 140°F (-30 to 60°C)
- Humidity MIL-STD-810F, Method 507.4
- Water IP67, MIL-STD-810F, Method 512.4, Procedure I
- Drop MIL-STD-810F, Method 516.5, Procedure IV 26 drops from 4 ft (1.22 m) onto concrete 6 additional drops at -22°F (-30°C) 6 additional drops at 140°F (60°C)
- Sand and dust IP67, MIL-STD-810F, Method 510.3, Procedures I & II, IEC-529 IP-X6
- Vibration MIL-STD-810F, Method 514.5, Procedure I
- Altitude MIL-STD-810F, Method 500.4, Procedures I, II & III 15,000 ft at 73°F (23°C)

Electrical

- Processor Marvell PXA320 XScale CPU 806 MHz
- Memory 128 MB DDR SDRAM ~30 MB reserve
- Storage Onboard nonvolatile NAND Flash 512 MB to 2 GB ~50 MB reserved
- Expansion 1x SDIO slot
- Display 480x640 pixel (VGA) 16 bit color TFT with LED backlight
- Batteries 5200 mAh Li-Ion rechargeable pack

I/O

- USB host and client, power and audio jack

Extraordinary Extended Warranty Option – Key Features

- Applies to the first and second years of Extended Warranty coverage on Nomad, Recon and Rangers.
- Extraordinary Extended Warranty must be purchased when you buy your new handheld computer or within first year of ownership.
- When an Extraordinary Extended Warranty is purchased, your standard manufacturer's one-year warranty is automatically upgraded to include accident coverage.
- Applies to Trimble handheld computers sold in the US and Canada only.
- Applies to accidental damage in addition to standard manufacturer's warranty.
- Does not cover PowerBoot Modules or Battery Packs.
- Handheld computer must be returned with the serial number intact to qualify.
- Already own an Extended Warranty? If you're in the first or second year, you now have Extraordinary Extended Warranty coverage—as of January 1, 2008.
- We may repair or replace your device at our discretion.
- We increased the coverage, but not the price for Extraordinary Extended Warranties.

Connectivity Options

- USB Modem 56 KBPS
- USB Network 10-Base-T

Cables

- RS-232 - Null

Power

- PowerBoot Module
- AC Power Supply
- Vehicle Charger

Case

- Deluxe Case

General

- Null Modem for RS-232 Cable
- Gender Changer for RS-232 Cable
- Stylus
- Screen Protectors
- Hand Strap
- USB/RS-232 serial adapter

Recon

Standard Features

- Linux 2.6.15 (Familiar/handhelds.org)
- Commercial Qtopia ver. 2.1.2
- 400 MHz Intel PXA255 XScale processor
- 64 MB high-speed SDRAM
- 256 MB nonvolatile (NAND) storage
- Touchscreen
- Sunlight-readable color TFT display
- Integrated speaker and microphone
- Rugged waterproof design
- 15 hours of continuous room-temperature operation with default settings
- Integrated Bluetooth and 802.11g wireless capability

Standard Software

- POP3, SMTP, IMAP4 - file attachment capability
- Calendar
- Contacts
- Tasks
- Text editor
- Calculator
- Music
- Pictures
- Videos

Standard Accessories

- Rechargeable PowerBoot Module
- Standard CF-Cap
- AC charger
- User's guide
- Hand strap
- Two stylus pens
- Package of 10 screen protectors

Physical

- Size 6.5" (16.5 cm) x 3.75" (9.5cm) x 1.75" (4.5cm)
- Weight 17 ounces (490 g) including rechargeable PowerBoot Module

Environment

- Operating temperature -22 to 140°F (-30 to 60°C)
- Humidity MIL-STD-810F, Method 507.4
- Water IP67, sealed against accidental immersion (1m for 30 min.) MIL-STD-810, Method 512.4, Procedure I
- Drop MIL-STD-810F, Method 516.5, Procedure IV 26 drops from 4 ft (1.22 m) onto plywood over concrete 6 additional drops at -22°F (-30°C) 6 additional drops at 140°F (60°C)
- Sand and dust IP67, MIL-STD-810F, Method 510.4, Procedures I
- Vibration MIL-STD-810F, Method 514.5, Procedure I (Fig 17) & II
- Altitude MIL-STD-810F, Method 500.4, Procedures I, II & III 15,000 ft at 73°F (23°C)

Electrical

- Processor Intel PXA255 XScale CPU 400 MHz
- Memory 64 MB high-speed SDRAM ~22 MB reserve
- Storage Onboard nonvolatile NAND Flash 256 MB ~31 MB reserved
- Expansion 1x Type I and 1x Type II CompactFlash slots
- Display 240x320 pixel (1/4 VGA) color TFT with LED front light
- Batteries 3800 mAh NiMH rechargeable pack

I/O

- Standard 9-pin (male) D-shell RS-232 serial and USB ports

Extended Warranty Option – Key Features

- Covers functionality failures for additional year(s).
- Provides TDS factory service.
- Can be purchased any time during the current warranty period for a maximum of two additional years.

Limitations

- TDS has the option, depending on hardware failure, to supply customer-replaceable parts, provide send-in factory repair service or provide carry-in repair service to a TDS Authorized Service Provider, or provide replacement of the product.
- Warranty does not cover accessories or components such as cables, user-replaceable CompactFlash cards or batteries.
- Excludes damage caused by misuse, accident, fire, or theft.
- Excludes cosmetic damage that does not affect product function.
- Can only be purchased while the product is under regular or extended warranty. Extended warranty is available for a maximum of two years.
- Available in the U.S., Canada and Puerto Rico only.

Memory

- Compact Flash 1 GB

Connectivity Options

- Compact Flash Modem 56 KBPS
- Compact Flash Network 10-Base-T
- Compact Flash Bluetooth
- Compact Flash 802.11b

Scanners

- Compact Flash Barcode
- Bluetooth Handheld Barcode

GPS

- Compact Flash GSM/GPRS
- Compact Flash GPS
- Compact Flash Ultra GPS

Cables

- RS-232 - Null

Power

- PowerBoot Module
- AA PowerBoot Module
- AC Power Supply
- Vehicle Charger

Cap

- Midsize CF-Cap
- Extended CF-Cap
- Optical CF-Cap

Case

- Case for use with Extended CF-Cap
- Deluxe Case
- Deluxe Case for use with Extended CF-Cap

General

- Compact Flash Digital Camera
- Null Modem for RS-232 Cable
- Gender Changer for RS-232 Cable
- Stylus
- Stylus/Pen Combination
- Screen Protectors
- Lanyard
- Hand Strap

EeePC

As the x86 computer architecture and solid-state storage technologies have advanced, a new and compact form factor for mobile computing has emerged. These new devices are most often referred to as Ultra-Mobile PCs (UMPC) or Subnotebook computers. These devices offer a better-than-laptop portability, and, with solid state storage and lower-powered CPUs, they also offer better reliability and battery life. When combined with modern, low-cost, open-source operating systems and software, these devices are powerful and reliable tools available at exceptionally attractive prices.

In late 2007, ASUS was first to the US market with a device that successfully brought together these key factors into a compelling UMPC product, the EeePC 701. The product was found to be a wonderful platform for hosting the RailDOCS Mobile Business Platform.

In May of 2008, ASUS added the EeePC 900 to its EeePC line, and we believe it to be an even more attractive platform than the EeePC 701.

Laptops

RMI offers RailDOCS Mobile VM to give laptop users the same functionality enjoyed by users of more mobile computing platforms. This feature compliments the more mobile handheld option with additional deployment flexibility.

Although the best mobility features are lacking, this feature allows non-maintenance workers the flexibility to do fill in or emergency work on their laptops, without a more mobile device that would end up being idle most of the time. This deployment model runs the RailDOCS Mobile Business Platform in a Virtual Machine environment, atop Microsoft Windows XP. VMWare's Assured Computing Environment (ACE) product is the enabling technology used in this deployment model.

System Requirements (for Windows hosts):

- Desktop or laptop PC with 1GHz or faster x86-compatible processor
- Windows XP with Service Pack 1 or higher
- 1024MB of RAM recommended, 768MB minimum
- At least 2GB free disk space required.

An Internet connection is required for syncing. This will work with any Ethernet, Wi-Fi, or modem device that the Windows host supports. Limited VPN solutions are available as well.