

The Latest in Mobile Phone Capabilities

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Growing Global Interest in Wireless Data Services is Driving Innovation

Wireless is more than just phones and e-mail!

Application Trends

Mass Market Solutions

- Improved browsing experience
- Corporate e-mail access
- Video calling / streaming

Custom Solutions

- Mobile worker
- Machine to machine
- Fleet and asset tracking

Device Trends

Increased device selection

- Variety of form factors
- Choice of operating systems

Increased device capabilities

- Increased processing speeds
- Expanded memory
- Broader applications support

Improved device utility

- Application access
- Improved display resolution

Network Trends

High speed data network deployments around the globe

- Delivers data speed nearly equivalent to broadband
- Considerable improvement in throughput rates
- Enabling next generation of advanced data applications and devices

Focus is now shifting from core wireless applications (voice and e-mail) to solutions that drive cost savings, process efficiency and provide network back-up / redundancy



Value-Added Data Applications

Rogers enables advanced data solutions for the security industry

- Real time dispatch & access to national security databases
- CPIC queries on handheld devices
- GPS tracking of vehicles and personnel
- GPS navigation (directions)
- Electronic data capture (inspections, audits & incident reporting)
- Voicemail-to-text conversion, delivered via SMS
- Video surveillance access on handhelds
- And more...

Security on Your Wireless Device

- **GSM phone and data devices have two data storage locations**
 - Internal or expansion memory – typically flash based
 - SIM card – storage of SMS messages and contact names & numbers
- **Lost, stolen or re-deployed devices**
 - Network can send kill pill to SIM which stops it from ever being used to connect but data remains on SIM card
 - Care must be taken to wipe (scrub) old devices & destroy SIM cards to ensure no data remains on the device or SIM card when it is retired or re-deployed



Security on Your Wireless Device (cont'd)

- **Data encryption on devices**
 - BlackBerry
 - BlackBerry devices support internal encryption and full remote lock and wipe capability
 - BlackBerry devices can also have policies applied which restrict application loading, etc.
 - Windows Mobile 6 devices
 - Add-on software required for Windows Mobile 5 devices to encrypt data
 - Can be sent a kill pill if set up with active sync on exchange 2003 SP2
 - Windows XP
 - Hard drive encryption support built into Windows XP but not widely used
 - Where possible encryption should be used on devices to secure their internal data
- **Cameras**
 - At this time BlackBerry devices are the only devices that support wireless IT policies which can disable the internal camera and extended memory cards
 - Best solution is NO cameras for sensitive areas

Wireless Data – Non-Secure Technologies

- **SMS** – Not secure; messages are sent in plain text
- **POP3 Email** – Not secure; messages are fetched from a server in plain text
- **BlackBerry BIS service** – Not secure; messages are transmitted in plain text over the internet
- **BlackBerry Pin to Pin** – Not secure; messages are not encrypted
- **Picture Messaging** – Not secure
- **Direct Data Connections to Internet** – Not secure

Rogers mForms™

Mobilizes paper-based data collection processes

- Replaces paper forms with electronic versions
- Speeds collection & submission of critical field data
- Conveniently capture data while on or off-line
- Access to submitted data through secure web portal, with view, print & export capabilities
- Versatile forms controls make data entry fast & easy
- Supports Windows Mobile & BlackBerry devices



The screenshot shows the mForms web portal interface. It includes a navigation menu on the left with options like 'Service Order', 'Lead Capture', and 'Sales Order'. The main content area shows a 'My Forms' section with a 'Lead Capture' form and a 'DATA VIEWER' table.

| Company | Fund Number | Lead Name | Phone # | Creation Date | Last Modified Date | Action |
|----------------|-------------|-----------|--------------|------------------------------|------------------------------|--------|
| Marx | Adult | Erving | 206.886.8842 | Fri Sep 14 09:02:48 EDT 2007 | Fri Sep 14 09:02:48 EDT 2007 | |
| ACME Inc. | Barb | Shane | 416.842.8538 | Fri Sep 14 09:02:48 EDT 2007 | Fri Sep 14 09:02:48 EDT 2007 | |
| ATY Industries | Joely | Nick | 802.895.4488 | Fri Sep 14 09:02:48 EDT 2007 | Fri Sep 14 09:02:48 EDT 2007 | |
| Service First | Phan | Dustin | 612.893.8458 | Fri Sep 14 09:02:48 EDT 2007 | Fri Sep 14 09:02:48 EDT 2007 | |



TeleNav GPS Navigator

World's leading GPS navigation service available from Rogers

- Audible turn-by-turn instructions with street names
- Business Finder / Yellow Pages
- Integration with Address Book
- Maps & Compass
- Pre-planning on Internet
- Global roaming in US, EU, Mexico and Brazil
- Multilingual support including English, French and Spanish
- 3-D Moving Maps with birds-eye view similar to high-end in-vehicle navigation system



6 Best Practices for Securing Wireless Devices

- Develop a separate wireless security policy at the device level – wireless deployment is only going to grow
- Deploy a WPLANx (Wireless Private LAN Extension) to ensure you have complete control of all wireless data traffic and applications for laptops, tablets, etc.
- Select mobile solutions that provide application layer encryption and improve the wireless experience, e.g. NetMotion
- Always password protect the device / laptop and use 2 factor authentication where possible when connecting to corporate network, e.g. secure ID token.
- Encrypt the data on the wireless device where possible
- Support technologies that provide remote lock and “Kill Pills”
 - BlackBerry devices / BES with IT Policies,
 - Windows Mobile 6 devices connected to Exchange 2003 SP2 / 2007

