

• • **T** • • Mobile •

**T-Mobile**

**Faster, Easier, More Secure**

## T-Mobile International

- Strong European and US Presence
  - Operating in 13 Countries
- 100% GSM Technology
- 3<sup>rd</sup> Largest Mobile Operator in the world
  - 70M+\* Mobile Customers
- Strong Financial Performance
  - \$14.6B in Revenue
  - \$ 3.1B in EBITDA
- Investing in the Future
  - \$3.1B in 2001 CapEx
  - \$2.0B in 2002 T-Mobile US CapEx
  - GPRS Network Rollout Across all Operations
  - UMTS Licenses in Europe

\* Includes Affiliates

## T-Mobile US

- Now T-Mobile
  - Brand Conversion Nearly Complete
  - Started in July, Complete in October 2002
- Over 211M Covered POPs, 8,300 Cities
  - 100% GSM and GPRS Deployed
- International GSM Roaming to 90 Countries and 200 Carriers
- Significant Investment in Mobile IP
  - GPRS + WLAN
  - National ATM Backbone
  - Multiple Application Platforms
  - EDGE Preparation
- Significant Support Systems and Resources
  - IT Transaction Systems and Networks Process 30M Records/Day
  - Over 7,000 Customer Care Reps Manage 200,000 Customer Contacts/Day
  - Dedicated Enterprise Customer Care Center

## Facts

- Our Enemies are Smarter with Ever Increasing Technical Capabilities
- Current Wireless Communication had become a necessary tool that Improves Our Operations and Efficiencies on a daily basis
- Wireless phones have become a standard in everyday life with a significant penetration into regular population

## Before

- Too Many Users Cause Network Congestion and Failed Communications When Communication Is Needed Most – During An Emergency
- Wireless Voice and Data Services Were Not End to End Secure Leaving Us Vulnerable to Interception

## After

### ■ Wireless Priority Service

- The National Communication System (NCS) defined the need for Successful Communication During Emergencies
- Using embedded GSM functionality, T-Mobile and Dyncorp delivered a solution that is in use in Washington DC and New York

### ■ Secure Voice

- The National Security Agency defined the need for Type 1 End to end Secure Encrypted Wireless communications
- In partnership with T-Mobile, General Dynamics developed a Type 1 security module for the Motorola P280 phone. This service is commercially available on the T-Mobile network
- GSM delivers superior call clarity with minimal delays

## Wireless Priority Service (WPS)

- Allows National Security and Emergency Preparedness (NS/EP) wireless users priority access to available wireless radio channels when necessary for emergency calls during periods of wireless network congestion.
- T-Mobile successfully implemented WPS in New York and Washington DC in May, 2002
- In negotiations for a nationwide implementation by 2003, including per-call invocation

## Wireless Priority Service (WPS)

- Through NCS, NS/EP users are assigned a “priority level” associated with their T-Mobile service
- During an emergency, priority access is provided by T-Mobile. (Future revisions will include per call invocation)
- Upon initiating a call, Priority Access users are queued in the “front” of the line according to their priority level for the next available radio resource out
- No one is “bumped” from a current call

## National Security and Emergency Preparedness (NS/EP) users

- **Access to WPS based on their priority level**
  1. Executive Leadership and Policy Makers
  2. Disaster Response / Military Command and Control
  3. Public Health, Safety, and Law Enforcement Command
  4. Public Services/ Utilities and Public Welfare
  5. Disaster Recovery

## Success!

- On September 11<sup>th</sup> of this year, the President visited Ground Zero in New York City.
- Due to the event, everyone had trouble with their wireless phones (multiple carriers)
- The White House Communications Agency (supports the president with communications wherever he goes) using their T-Mobile WPS service were able to successfully make calls throughout the event

## Upcoming Challenges

### ■ Coverage

- Additional coverage and capacity is necessary for areas important to the NS/EP community.
- Assistance is required from the NS/EP community for development of those sites

### ■ Security

- Many NS/EP users qualify for secure communications in times of emergency. Type I secure communications is facilitated with priority service

## Secure “Sectera” Phones



- Motorola GSM P280 + General Dynamics Sectera clip-in Secure module available through NSA
- Provides up to Type I secure communications – wireless to wireless or wireless to landline
- Certified by the NSA for classified information up to the To Secret level
- Uses the latest Advanced Encryption Standard (AES) approved by the Dept. of Commerce to replace DES

## Secure “Sectera” Phones

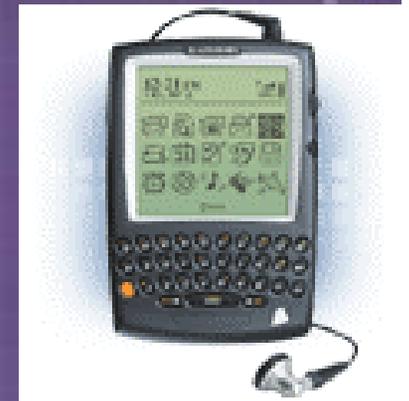
- Uses transparent circuit switched data which was embedded in the T-Mobile GSM network since its inception.
- Service plans available through General Dynamics and the T-Mobile Enterprise Sales Force.
- Complimentary with Wireless Priority Service
- Roams in over 90 countries

## Other Commercial Data Products and Services

Commercial products indicate where  
technology and services are moving

# Blackberry With Voice

- Security
  - We are integrating PKI to qualify for increased Federal and State use
- Wireless Email
  - Be discreetly notified as new email arrives.
  - Immediately respond to important messages
- Voice Services
  - With GSM voice service you can place and receive phone calls
- Connected Organizer with PC synchronization
  - Quick and easy wireless access to your address book, calendar and task list throughout the day
- Short Messaging Service (SMS)
  - Easily exchange short text messages with other SMS-enabled devices
- Wireless Internet Services
  - With optional Internet services, you can retrieve a wide range of information from the web.



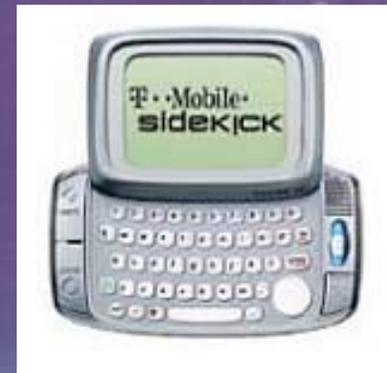
## Pocket PC

- The Pocket PC Phone Edition integrates:
  - Functionality of a mobile phone
  - Convenience of wireless Internet / Intranet access
    - Speeds up to 56 kbps
    - Full color browsing – (Full page vs. PDA reformatted pages)
  - Windows OS (Word, Microsoft Excel, and Outlook) and other applications
- Wireless E-mail and Instant Messaging:
  - POP3
  - MSN Hotmail (built-in) and other Webmail services
  - AOL Mail (add-on)
  - MSN Messenger Client



## Sidekick

- The T-Mobile Sidekick is a low cost product and service rolled into a unique messaging /multi media PDA with a large screen and keyboard. Services include; Voice, Native HTML browsing, Email, AOL IM, SMS, PIM, Camera Attachment, Polyphonic Ring tones, Games and an HTML desktop interface.
- Mobile Snapshots: can take photos and send them as a wireless email attachment to any email address.
- Wireless synchronization with your personal Web based Desktop Interface. If your device breaks or is lost you still have all of your personal information stored on your personal web page.



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# T-Mobile Wireless Internet (GPRS)

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