Mobile Users and Devices

Jim Mann
Director, Engineering
iPAQ Mobile Solutions
Compaq Computer Corporation
March 11th, 2002
Agenda

- Mobile Users
- The Need For Wireless Data
- Mobile Convergence
- Growth of Wireless and Broadband Internet
- User Expectations & Requirements
- Mobile Device Categories
- Mobile Device Requirements
Mobile Users

- People becoming increasingly mobile
- Data importance rivaling voice
- Response times are shortening
  - Immediacy is now expected
  - Latency and bandwidth are critical
- Convergence is the rage
The Need For Wireless Data

- Personal Information Management
- Email & Messaging
- Corporate Data (Intranet, backend databases)
- Web surfing
- Consumer Services (News, Weather, Sports)
- E-commerce
- Multimedia (Audio, Video, Gaming)
- Location Based Services
- Voice over IP
- Unified Inbox (Email, Vmail, FAX)
- “Smart Information”
- Home automation and control
Mobile Convergence

Personal and Professional Lives Are Blending

Professional Needs
- Enterprise data access
- Corporate e-mail
- Corporate IM
- Collaboration
- Vertical applications
- Process mobilization
- Task lists
- Contact lists
- Voice

Personal Needs
- Stock quotes
- Travel schedules
- Financial data
- News, weather, sports
- Personal e-mail
- Personal IM
- Task lists
- Contact lists
- Voice

Up-to-date, up-to-the-minute access of information
Growth of Wireless and Broadband Internet

- Market Size
  - 300 Million Subscribers
  - 200 Million Users
  - 1 Billion Subscribers
  - 1 Billion Users

- Time
  - 1998
  - 2005
User Expectations & Requirements

- Expectations will increase (wired broadband experience)
- Security is critical!
- “Always” connected
- Ease of use / deployment / provisioning
- Flexibility / configurability
- Manageability
- Quality of Service
- Location based information
- Flat-rate pricing models
- Pricing will drive usage
Mobile Device Categories

- Notebooks / Tablet PCs
- Information (Internet) Appliances
- Personal Digital Assistants / Handhelds
- Smart Phones
- Pagers / Two-way Messaging Devices
- Phones
Mobile Device Requirements

- Low power
- Small size
- Low cost
- Low latency
- Fast connection
- “High” bandwidth
- Low analog system complexity
- “Easy” antenna integration
- Standard system interface
- Standards-based