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June 29, 2001

RECEIVED
JUN 29 2001
FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

**VIA MESSENGER**

Ms. Magalie Roman Salas
Secretary
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554

EX PARTE OR LATE FILED

*Re: DA No. 01-1172, WT Docket No. 01-14;* ***EX PARTE***

Dear Ms. Salas:

This is to advise you that on Thursday, June 28, 2001, representatives of Leap Wireless International, Inc. ("Leap") and its counsel met with members of the Commission's Wireless Telecommunications Bureau. The subject matter of the meeting included Leap's Request for Waiver and Extension of the Broadband PCS Construction Requirements (the "Extension Request").

At the meeting, Leap and its counsel discussed the merits of the Extension Request and described the 1xEV high-speed wireless data technology that Leap intends to deploy in certain markets as set forth in its filings. In this regard, Leap provided the members of the Bureau with a printed summary description of 1xEV technology, a copy of which is enclosed. Leap also informed the Wireless Telecommunications Bureau that, due to Leap's buildout efforts and certain technological developments, Leap now requires shorter extensions than originally requested.

Please contact the undersigned with any questions.

Very truly yours,

Patrick H. Shannon
of LATHAM & WATKINS

Enclosure

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1xEV Overview

Standards and Technology Development

Devices

System Architecture

Technology Benefits

Airlink Design
Fwd
Rev

Summary

Backup


# 1x EVolution (1xEV): IS-856

April 2001

# 1xEV Overview

***1xEV is a high performance and cost-effective Internet solution for consumers and business professionals:***

- High-speed/high capacity wireless Internet service
- Ideal for portable, mobile and fixed applications
- Built on mainstream IP backbones
- Compatible with existing and upcoming wireless networks and devices
- Significant time to market advantage
- Delivering 3G functionality years earlier

**Fixed**

**Mobile**

**Portable**

**Specialized Markets**

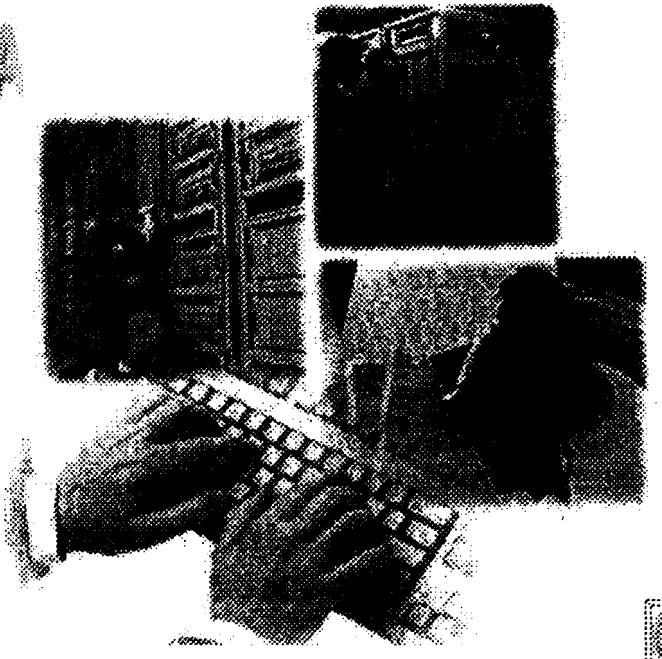
# 1xEV Proven Track Record

***Well proven technology based on over 4 years of dedicated development:***

- Early implementation of leading-edge concepts

***System prototyped and heavily tested:***

- Multiple iterations of access network prototypes
- Multiple iterations of device prototypes
- Field and capacity tests in live systems (Customer sites and Qualcomm site)



***Commercial ASIC samples in 2Q01***

***Standardized technology supported by leading infrastructure and device suppliers***

# 1xEV: Average and Peak Performance

***Spectrally efficient airlink provides 2.457 Mbps per sector forward peak throughput with a single 1.25 MHz CDMA frequency carrier***

***Asymmetric forward and reverse links:***

- Average forward link throughput per sector
  - Pedestrian environment = 1,080 kbps (1 receive antenna)
    = 1,550 kbps (2 receive antennas)
  - Vehicular environment = 550 kbps (1 receive antenna)
    = 980 kbps (2 receive antennas)
- Reverse link throughput = 220 kbps per sector

***Identical RF characteristics as 1x/IS-95:***

- Same chip rate, link budget, power requirements, and coverage area
- 1xEV carrier looks to the rest of the network as an 1x/IS-95 carrier

# 1xEV: Features Designed For The User

## *Leverage from the Internet protocol (IP):*

- Support for all popular operating systems and software applications
- No software drivers, wireless made easy

## *"Always on" user experience:*

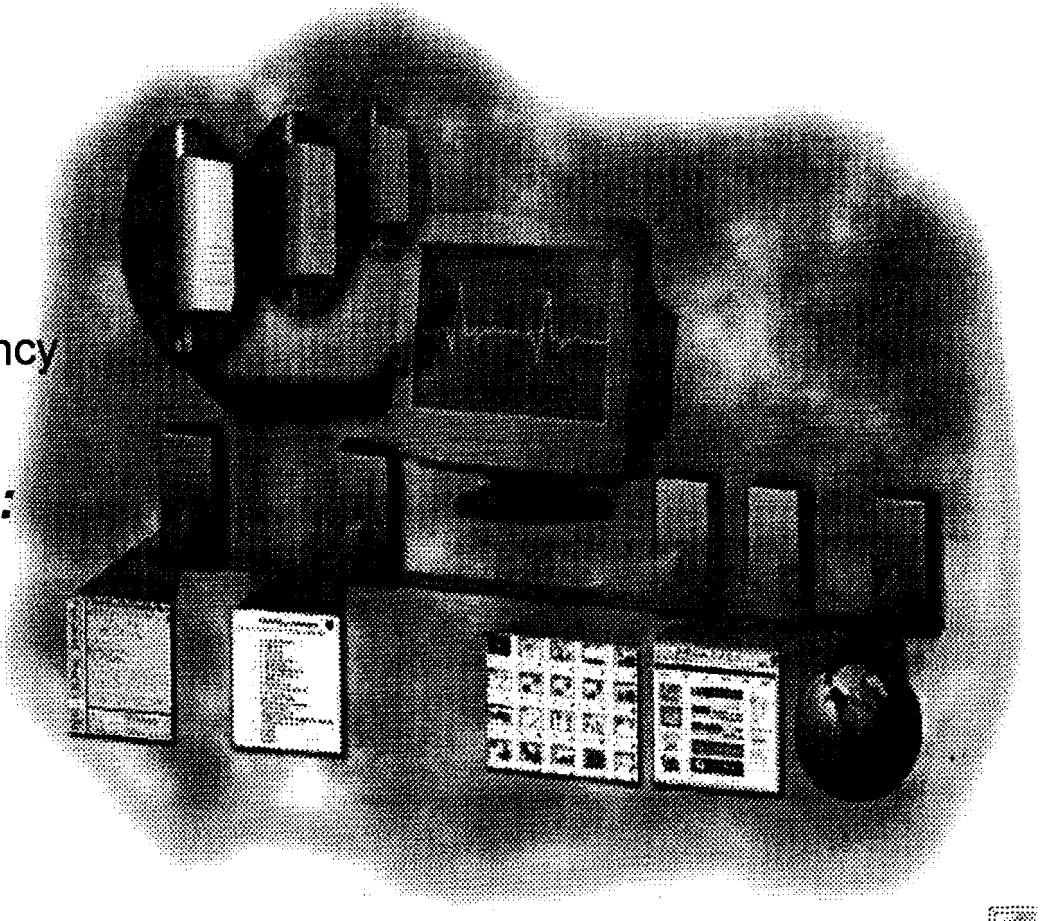
- Dormant mode
  - User experience is 'always on'
  - Fast access
  - Preserves airlink resources during dormancy
  - Transparent to user

## *QoS– User & Application Prioritization:*

- Multiple stream types
- Differentiated services

## *Security features:*

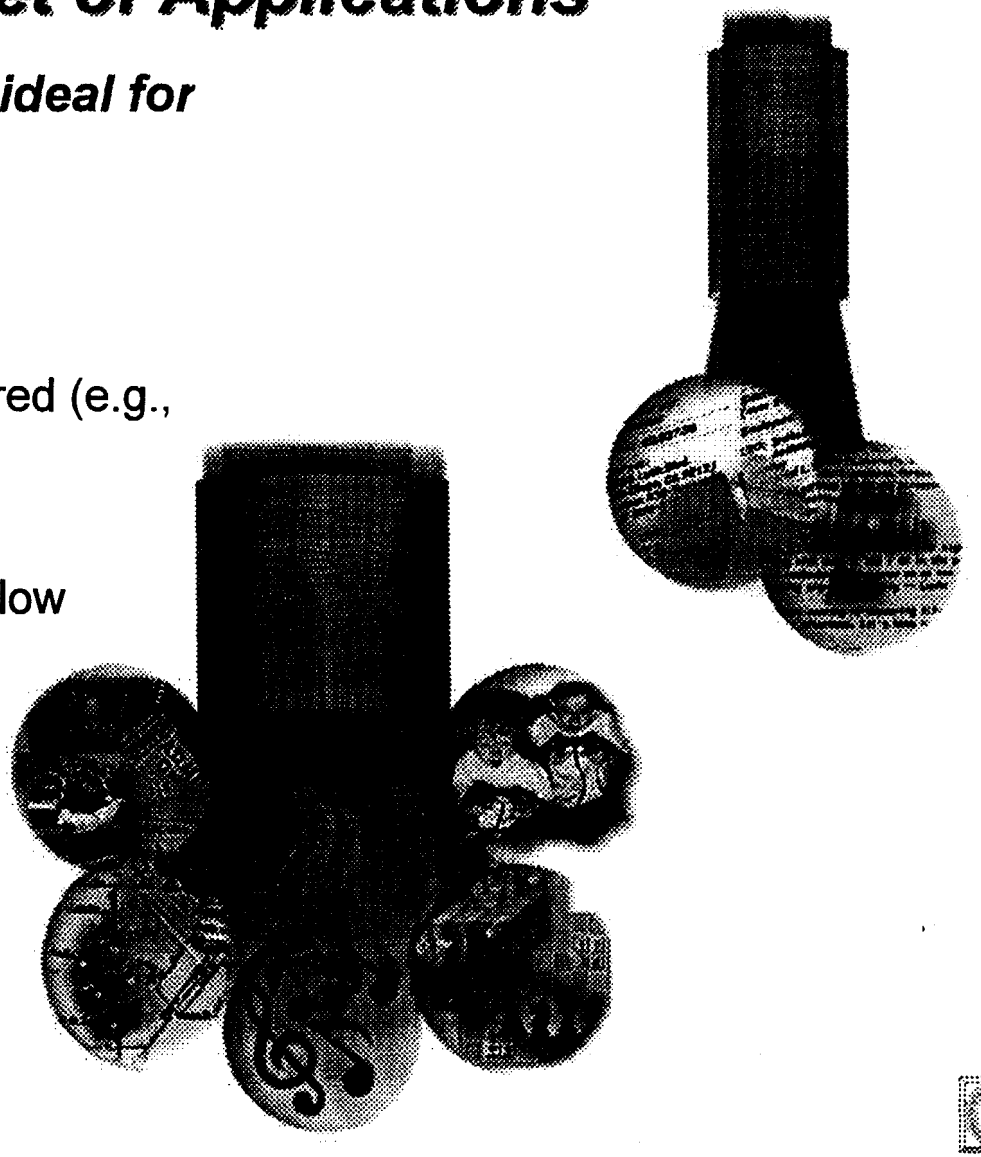
- Secure airlink
- Leverage from IP security mechanisms



# 1xEV: Support for a Broad Set of Applications

***1xEV's high performance and low cost ideal for a variety of applications:***

- Existing applications at lower costs (e.g., stock quotes, weather, ...)
- Data intensive applications can now be offered (e.g., video streaming, graphics, e-mail, airline reservations...)
- New breed of "wireless" applications that follow "Wire-line" Internet trends and add mobility



# Unleashing the Internet

## WILS, Wireless Internet Launchpad™ Suite

**Multimedia**
Qsynth™, CMX™,
IP Voice Chat,
Qtunes™, (MP3),
QTV™, (MPEG4),
Still Images

**Connectivity**
USB, Bluetooth,
PureVoice Mail™,
IP, WAP

**Positioning**
gpsOne™/
SnapTrack™

**User Interface**
Voice Recognition/
Recorder™/AGC™,
CMOS/CCD™*
Color LCD Driver
SIM/UIM Card Interface

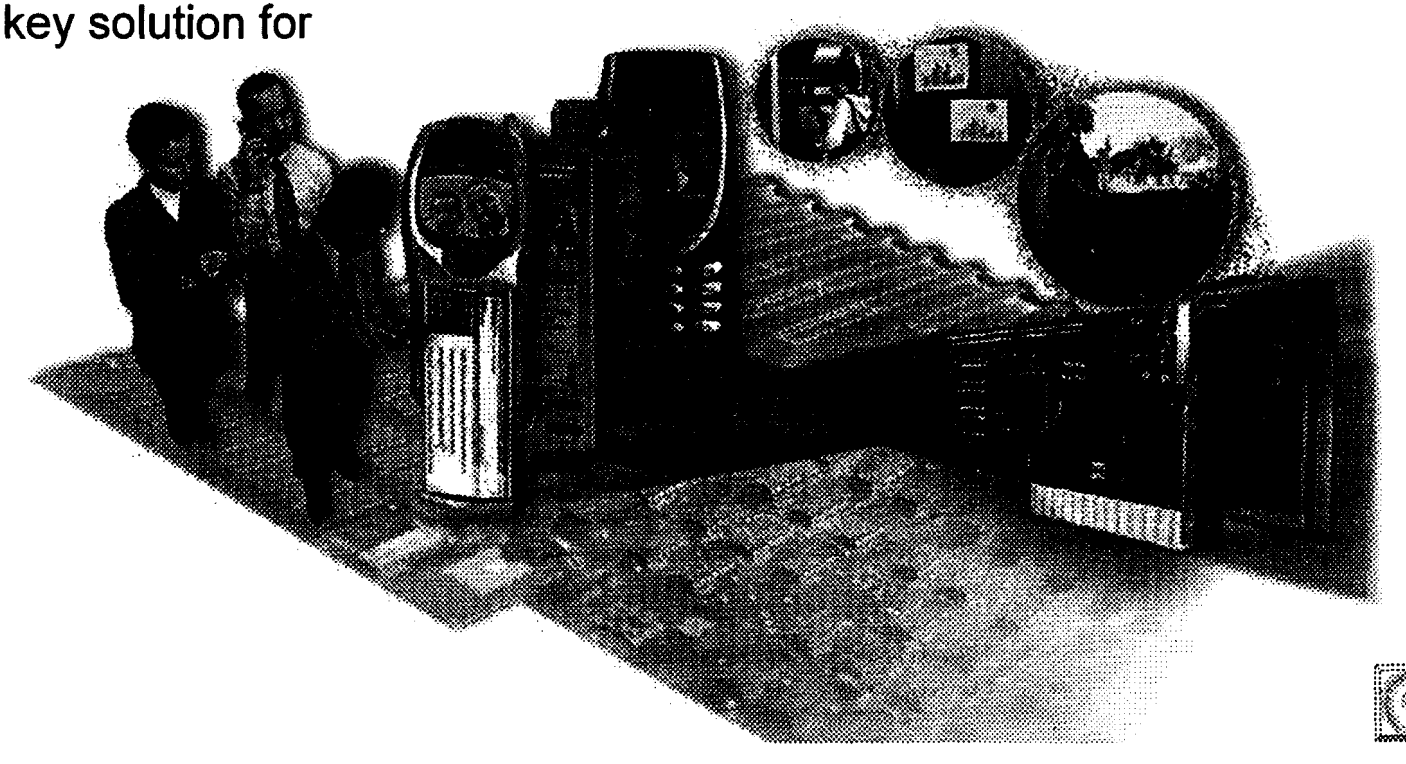
**Storage**
MMC
SD-Card

***A design suite that enables our customers to leverage CDMA technology***

# 1xEV Device Opportunity

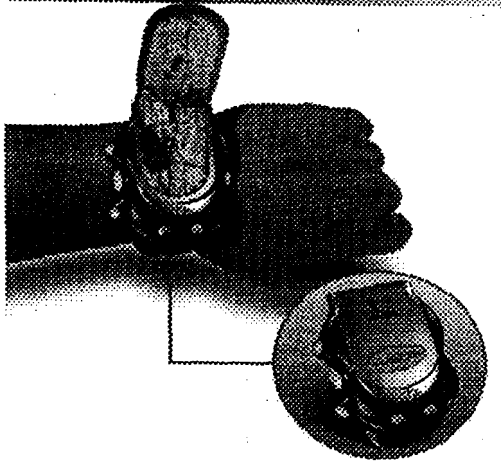
## *1xEV extends the domain and profitability of wireless devices:*

- 1xEV handsets can be used as modems
- Laptops/PDAs can integrate 1xEV directly or use plug-in PC cards
- 1xEV network appliances can be introduced
- 1xEV modules can be a key solution for Telemetry applications
- "Ubiquitous" service experience



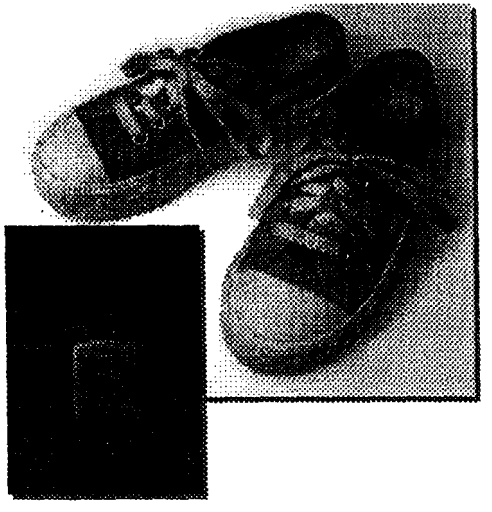
# Wireless Providing Value-Addition and Differentiation for ANY Product

Wireless Wrist Assist PDA

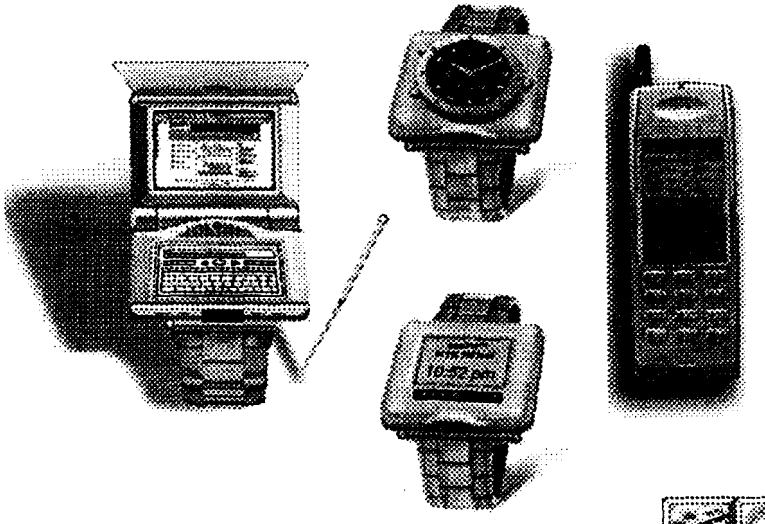


Wearable Wireless

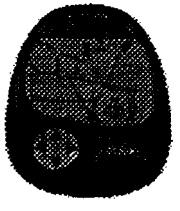
Location Tag



Wireless Communicators



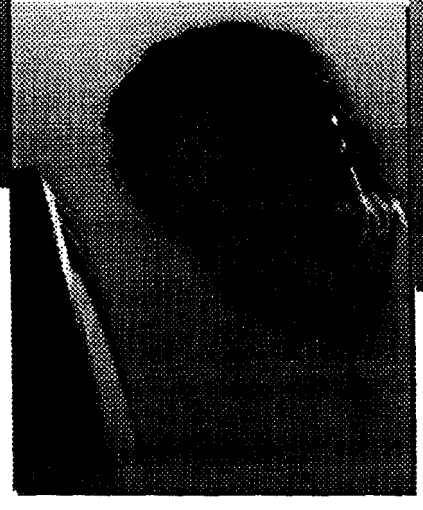
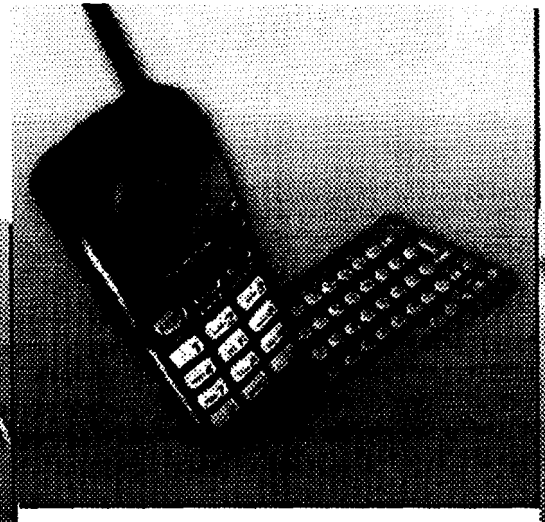
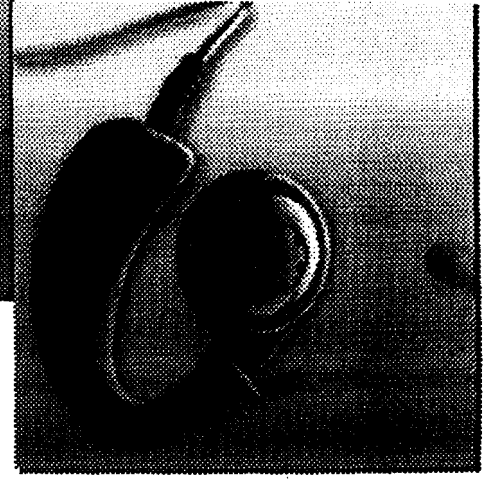
Pocket Navigator



# 1xEV Extends the Domain of Wireless Devices

## *1xEV and Bluetooth enable the proliferation of data/Internet accessories:*

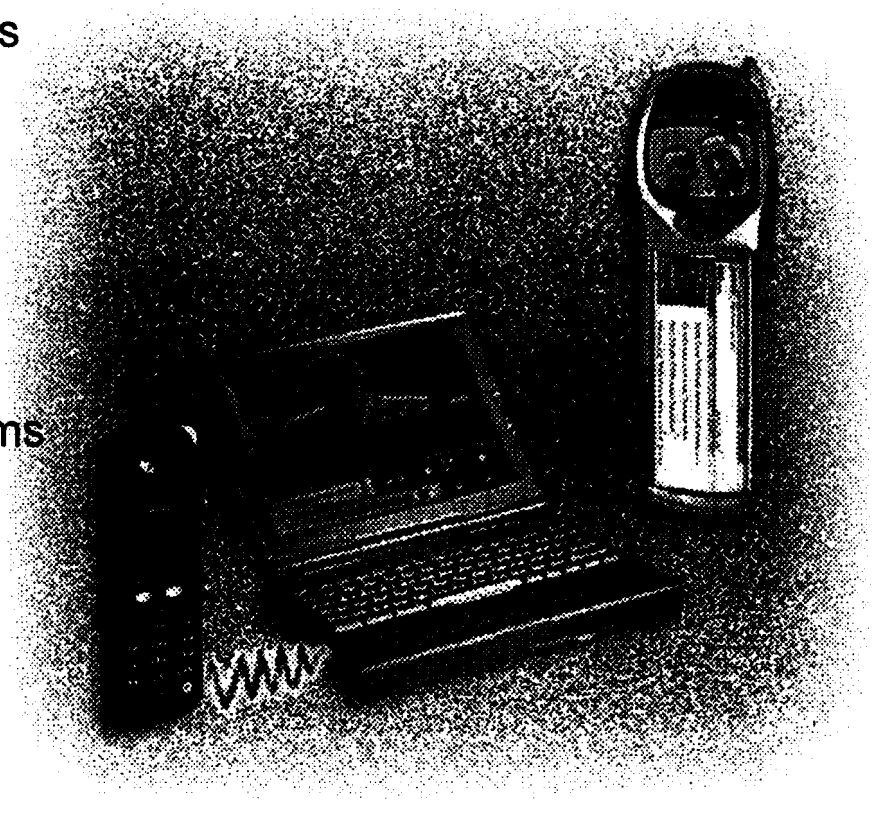
- Bluetooth enables wireless and effortless connectivity of accessories
- 1xEV's data rates will make viable the introduction of Internet accessories that will range from display and I/O extensions to media players and other innovative products

# 1xEV: Enabling Product Differentiation and Tiering

## *1xEV empowers high and mid-tier devices:*

- High and mid-tier devices will have the high data rates needed to introduce high-end value added services and applications, and to better focus on the business user
- PDAs and handheld computers can have heavier application content

## *1xEV empowers low-tier devices:*

- Low-tier devices with 1xEV can be used as modems
- Other bluetooth accessories can be purchased to enhance the Internet experience
- Cost of low-tier devices remains very low