



# **UPCS Band Proposal**

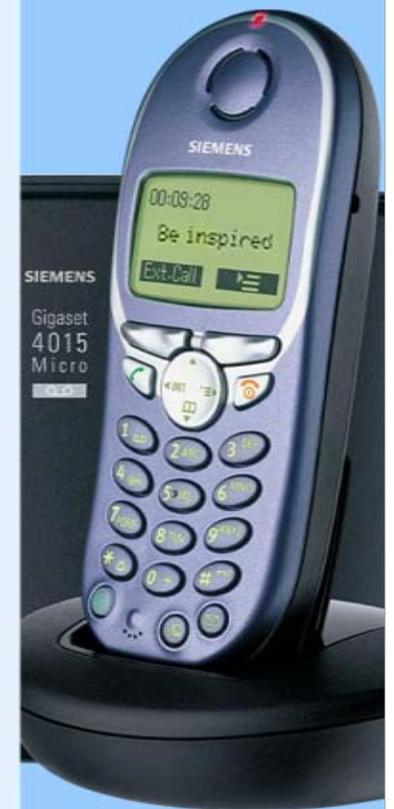
## ***Introduction of New Advanced Wireless Services***

**ET Docket No. 00-258**

March 4, 2004

# Vision for the UPCS Band

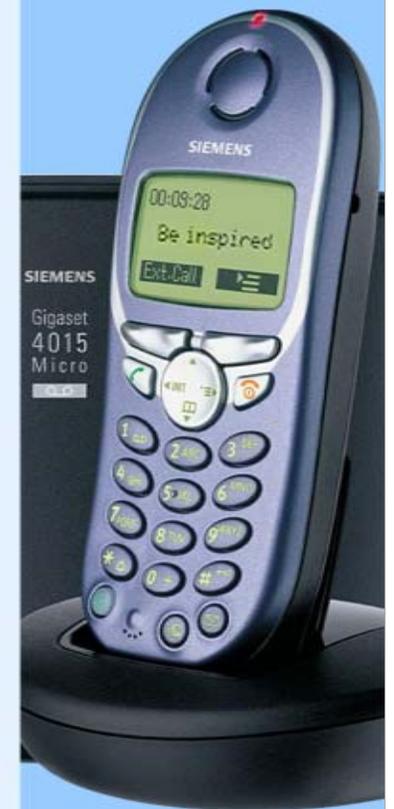
- An unlicensed band optimized for voice and multimedia traffic.
- RF requirements tailored for residential, small business in-building and small area applications.
- IMT-2000 family member for uncoordinated use in unlicensed spectrum.
- Band etiquette provides an sophisticated means to coordinate use of the band and deal effectively with interference.



# Introducing DECT to the US Market

**SIEMENS**  
mobile

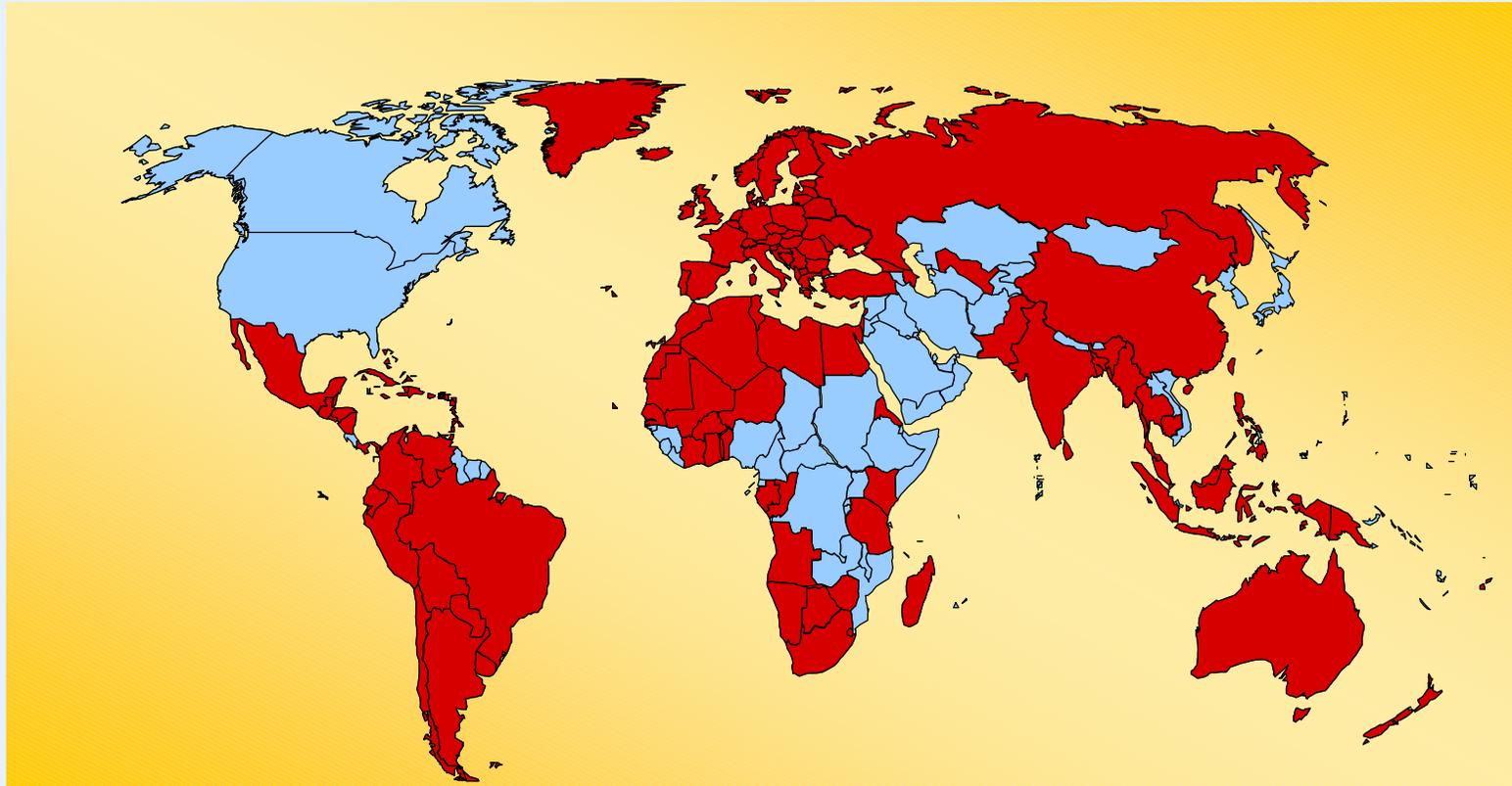
- Digital Enhanced Cordless  
Telecommunications
- Enables Voice and Multimedia Traffic
- Common Standard Developed by ETSI
- Designed for Residential Use and In-Building and Picocell Applications



# DECT Deployment Worldwide

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mobile

**Adopted in at least 116 countries**



**America: 20 countries**

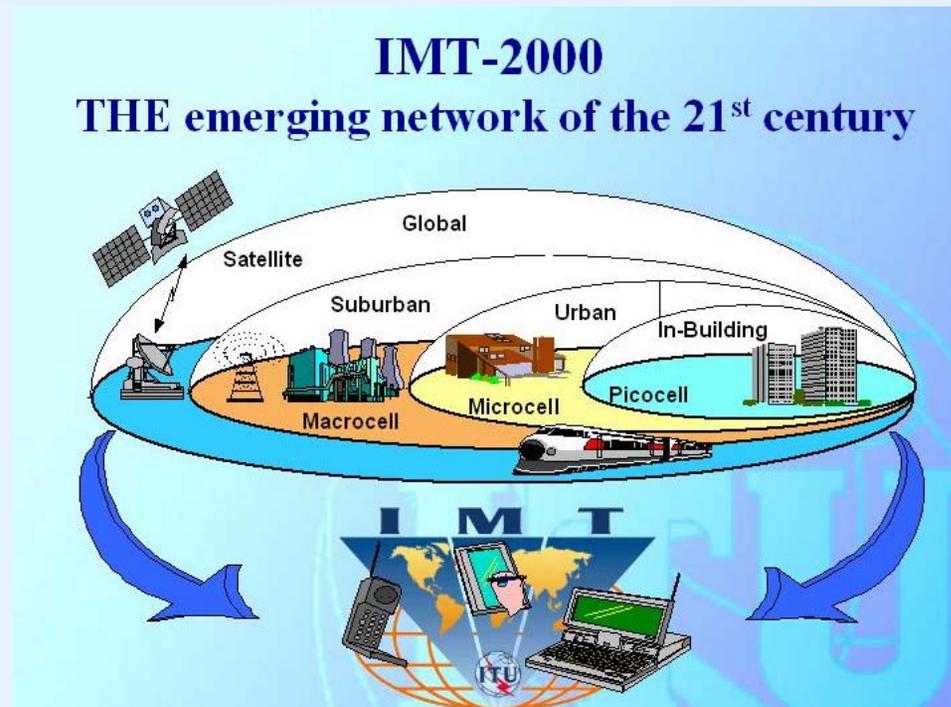
**Europe: 48 countries**

**Africa: 26 countries**

**Asia-Pacific: 22 countries**

# DECT is recommended by ITU for 3G deployment (IMT-2000)

DECT is the only IMT-2000 family member optimized for uncoordinated use on unlicensed spectrum



## IMT 2000 Terrestrial Radio Interfaces

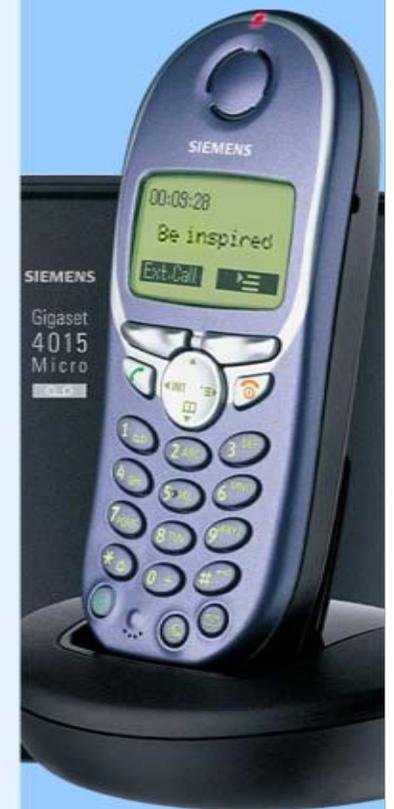


<b>IMT-2000 CDMA Direct Spread</b>	<b>IMT-2000 CDMA Multi-Carrier</b>	<b>IMT-2000 CDMA TDD</b>	<b>IMT-2000 TDMA Single Carrier</b>	<b>IMT-2000 FDMA/ TDMA</b>
<b>WCDMA (UMTS)</b>	<b>CDMA2000 1X and 3X</b>	<b>UTRA TDD and TD-SCDMA</b>	<b>UWC-136/ EDGE</b>	<b>DECT</b>

# Benefits To US Consumer

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- **Low Cost for High Quality Cordless Phone**
  - Economies of Scale (50 million DECT /year)
  
- **Fully Developed Technology**
  
- **High Capacity for Voice Quality**
  - Better Utilization of Bandwidth
  - CD Quality Voice & User Features
  
- **High Voice Security Standards**  
(encryption technology built in)



# Example of New DECT Phone

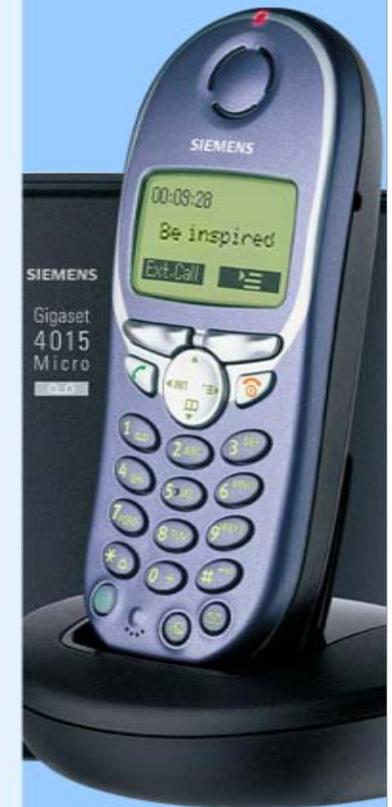
integrated  
camera

Catch and share the  
moment, experience  
new ways of internet  
communication



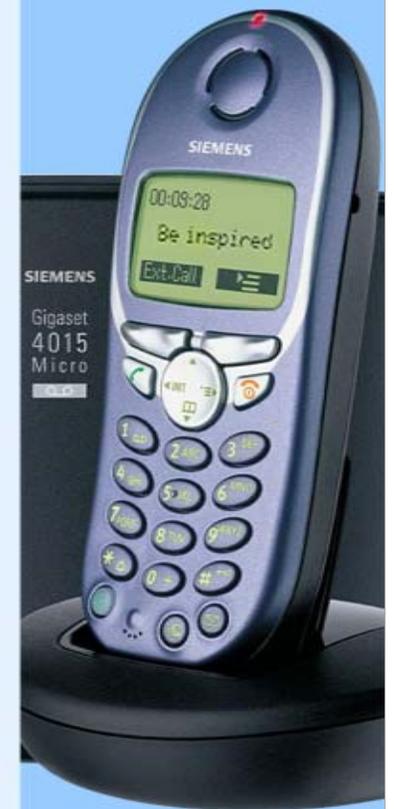
## Features:

- voice plus additional services
- color display
- SMS, Fast-MMS
- Instant Messaging
- e-mail
- streaming video



# FCC Action Necessary

- Remove fixed channelization
- Set maximum bandwidth of 2.5 MHz
- Extend the isochronous band down to 1915 MHz
- Remove the packing rule, section 15.323 (b)



# Conclusion

**SIEMENS**  
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- Fully Developed Technology
- Benefit to Consumers
- Efficient Use of Spectrum
- Minimal Technical Rule Modifications

