

Global Standardisation

Key to the success of Third Generation Mobile

A UMTS Forum industry perspective

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About The UMTS Forum

Promoting the global success of UMTS / W-CDMA

- **Cross-sector membership comprises operators, manufacturers, regulators, application developers, research organisations and others from 40 countries worldwide**
- **Dedicated to study market and technology aspects of UMTS/WCDMA**
- **Delivering market focused inputs to other key stakeholders e.g. investment community and the media**
- **Close partnerships with ITU and 3G standardisation bodies (3GPP): UMTS Forum participates in 3GPP Project Co-ordination Group meetings**



About The UMTS Forum

Selected areas of study

- Charting the evolution roadmap to UMTS for mobile operators globally
- IMT-2000 spectrum – to meet future demand for mobile multimedia services
- Market aspects, including traffic characteristics studies
- IP capabilities for Multimedia Services
- Complementary technologies including WLAN, TDD
- “Social Shaping” – the 3G customer experience





Close Co-operation with ITU



Regular participation of UMTS Forum in ITU sector groups:

ITU-T: participation in Informal Summits.

ITU-D: involvement in ITU regional seminars and other contributions

ITU-R: work of UMTSF Spectrum Aspects Group with ITU experts

WRC 2003 Key Messages (June 2003):

- **Assessment by WRC 2007 of spectrum needs for the evolution of IMT-2000**
- **Band 2.5-2.7 GHz formerly identified by WRC 2000 for IMT-2000 on a global basis needs to be unconstrained by interference from Broadcast Satellite Systems (BSS) in the relevant part of the band**



ITU-T Informal Forum Summit
San Francisco, 24-25 July 2003

GSM: The #1 Choice Globally

GSM is used by 1 person in 6 on this planet!

- **GSM will reach 1 billion subscribers later in 2003: More than 500 GSM networks in 200 countries worldwide**
- **GSM is fastest growing mobile system in the Americas; also rapid GSM growth in other regions e.g. China**
- **GSM key benefits include automatic international roaming, service interoperability, largest choice of terminals**
- **GSM demonstrates the importance of OPEN STANDARDISATION to benefit the market**
- **Large GSM subscriber base drives economies of scale for operators, manufacturers and end users**

GSM offers clear evolutionary path to W-CDMA/UMTS for 75% of world's digital wireless market



2003G! Licensing & launch status



UMTS subscribers already approaching 1 million worldwide

- 3G licensing largely complete in Europe, continues in other world regions.
- 98% of licenses awarded so far specify WCDMA technology, offering smooth evolution path from GSM
- EUROPE: WCDMA networks already live in UK, Italy, Austria. More commercial launches planned through 2003/2004/2005.
- ASIA PACIFIC: NTT DoCoMo “FOMA” (world’s first WCDMA network) customer numbers now increasing rapidly (> 500,000). WCDMA network live in Australia
- AMERICAS: Rapid growth in GSM (more than 100 operators) prepares operators for migration to UMTS / WCDMA. Issue of 3G spectrum licenses in USA likely 2004



3G Technology Choices



Almost 120 operators worldwide have selected W-CDMA

ITU RSPC IMT-2000 interfaces		Standards organisations
IMT-2000 DS	UMTS component paired WCDMA frequency bands (FDD mode)	3GPP
IMT-2000 TC	Components of unpaired frequency bands: UMTS (TDD mode) TD-CDMA and radio interface proposed by China TD-SCDMA	3GPP CCSA (TD-SCDMA)
IMT-2000 MC	CDMA2000: CDMA network evolution	3GPP2
IMT-2000 SC	Evolution of IS-136 (TDMA) networks primarily deployed in US – UWC 136	3GPP
IMT-2000 FT	DECT	ETSI

Source: ART



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UMTS: The benefits to operators

Optimising resources delivers an economic advantage







- UMTS builds on investments in GSM providing a network optimisation opportunity for operators
- UMTS gives operators additional capacity to support more subscribers (especially in urban centres) as well as greater speeds and ability to support new multimedia services
- UMTS operators can retain existing 2G core network, IT and service platforms; can also re-use existing sites and site sharing
- UMTS is the catalyst that will generate increased competition, giving operators the opportunity to increase differentiation in their service offerings

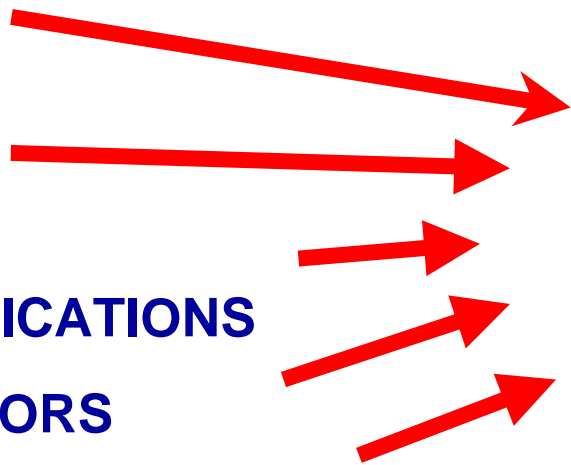


The Market Vision: A Crucial Input to Standardisation



- Standardisation must consider the requirements of the current and future mobile market
- UMTS Forum provides guidance as Market Representation Partner to 3GPP

-  MARKET FORECASTS
-  TRAFFIC MODELS
-  SPECTRUM STUDIES
-  NEW SERVICES & APPLICATIONS
-  SOCIAL SHAPING FACTORS
-  COMPLEMENTARY TECHNOLOGIES



The value of open standardisation



The enormous success of GSM has demonstrated the importance of standardisation in building a GLOBAL market for mobile services

- **GSM standardisation benefits...**

MOBILE OPERATORS – generation of valuable roaming revenues (up to 20% of ARPUs in some countries) & interoperability of equipment and services

NEW SERVICES – a consistent platform for developers

END USERS – access to a wide range of attractive, affordable terminals and the peace of mind that you can access services using your GSM mobile terminal “any time, any place”



Conclusion

Open standardisation means “win win” for industry and users

- Open standards simplify access for end-users to compelling, low cost mobile services and terminal devices
- Stable standards allow industry to develop new products and services with confidence
- Open standards give new and existing market entrants the opportunity to develop products and services for the largest possible global market
- Open standards provide valuable IPR and export opportunities for emerging economies who can become players on a world stage

UMTS Forum participation in ITU and 3GPP brings “eyes and ears” of the market to the mobile standardisation process

