

ITU-T

**Leader in globalizing
IMT-2000 and next-
generation network
mobile solutions**

Study Group 19, "Mobile Telecommunication Networks", the successor to the Special Study Group on "IMT-2000 and Beyond", is responsible for studies relating to network aspects of mobile telecommunication networks, including International Mobile Telecommunications 2000 (IMT-2000) and beyond, wireless Internet, convergence of mobile and fixed networks, mobility management, mobile multimedia functions, internetworking, interoperability and enhancements to existing ITU-T Recommendations on IMT-2000.

SG 19 is the lead study group on mobile telecommunication networks and for mobility.

The Q.174x series of Recommendations includes the latest results from the work on combining the essential elements of packet-based core network next-generation network concepts applied in mobile networks.

For more information on the activities and work programme of SG 19, please visit the ITU-T website at:

<http://www.itu.int/ITU-T/studygroups/com19>



**Key technical standards and
related publications produced by
ITU-T SG 19**

- Q.1701 Framework for IMT-2000 networks
- Q.1702 Long-term vision of network aspects for systems beyond IMT-2000
- Q.1703 Service and network capabilities framework of network aspects for systems beyond IMT-2000
- Q.1711 Network functional model for IMT-2000
- Q.1721 Information flows for IMT-2000 capability set 1
- Q.1731 Radio-technology independent requirements for IMT-2000 layer 2 radio interface
- Q.1741.1 IMT-2000 references to release 1999 of GSM evolved UMTS core network with UTRAN access network
- Q.1741.2 IMT-2000 references to release 4 of GSM evolved UMTS core network with UTRAN access network
- Q.1741.3 IMT-2000 references to release 5 of GSM evolved UMTS core network
- Q.1741.4* IMT-2000 references to release 6 of GSM evolved UMTS core network
- Q.1742.1 IMT-2000 references (July 2001) to ANSI-41 evolved core network with cdma2000 access network
- Q.1742.2 IMT-2000 references (July 2002) to ANSI-41 evolved core network with cdma2000 access network
- Q.1742.3 IMT-2000 references (June 2003) to ANSI-41 evolved core network with cdma2000 access network
- Q.1742.4* IMT-2000 references (June 2004) to ANSI-41 evolved core network with cdma2000 access network
- Q.1742.5* IMT-2000 references (June 2005) to ANSI-41 evolved core network with cdma2000 access network
- Q.1751 Internetwork signalling requirements for IMT-2000 capability set 1
- Q.1761 Principles and requirements for convergence of fixed and existing IMT-2000 systems
- Supplement 47 Emergency services for IMT-2000 networks – Requirements for harmonization and convergence
- Supplement 52 Technical Report on NNI mobility management requirements for systems beyond IMT-2000
- Handbook on Deployment of IMT-2000 Systems

* Recommendations due to be finalized in 2005.

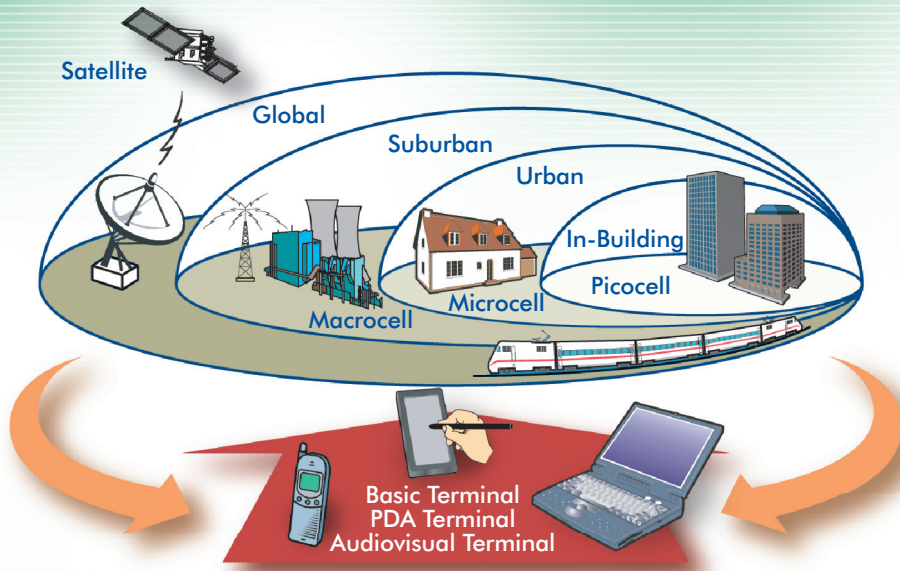
IMT-2000

04.2005 isbprme@itu.int

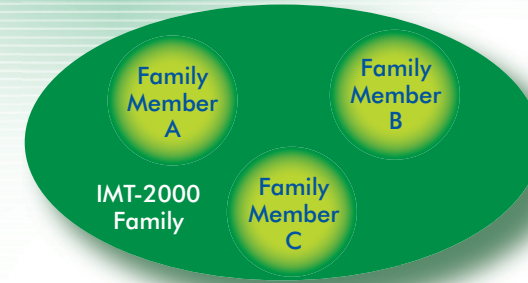
ITU-T

**Mobile
Solutions in
Next-Generation
Networks**

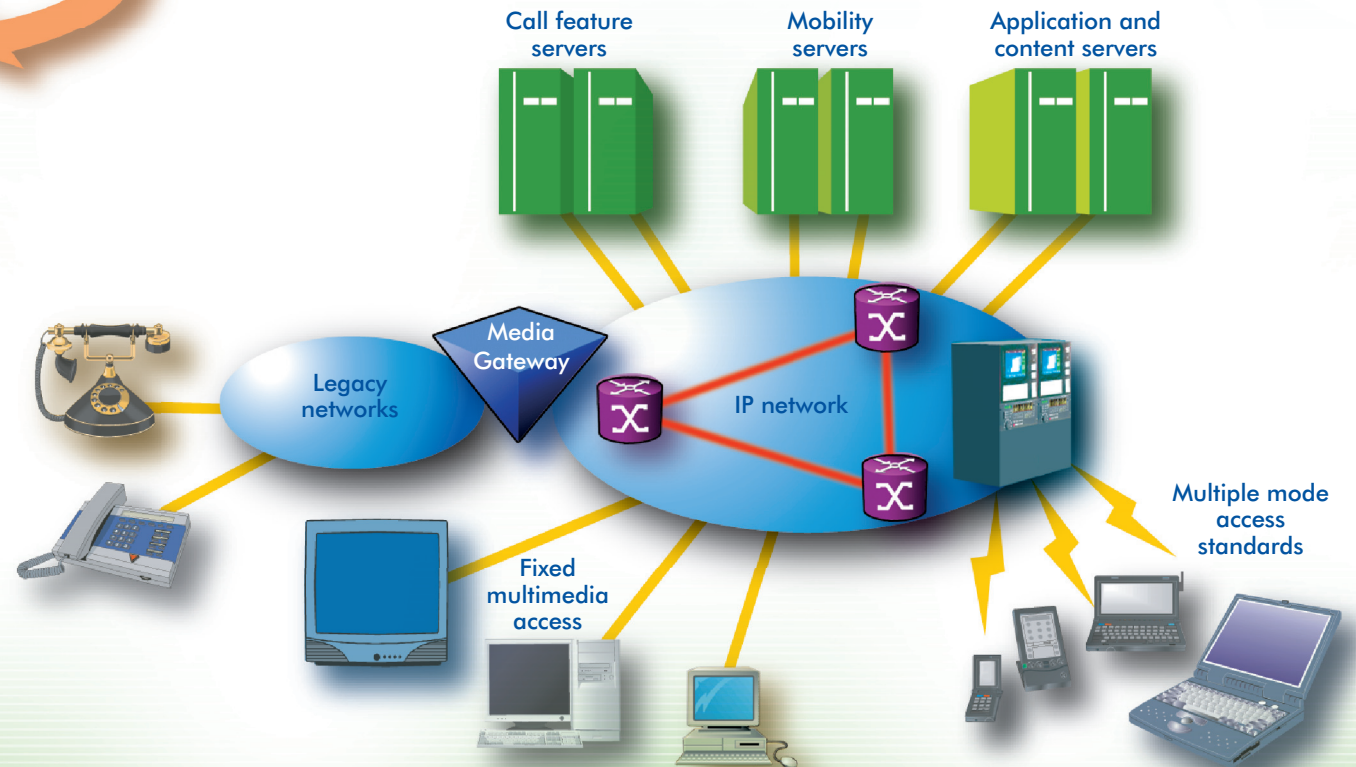
1) The global vision for IMT-2000...



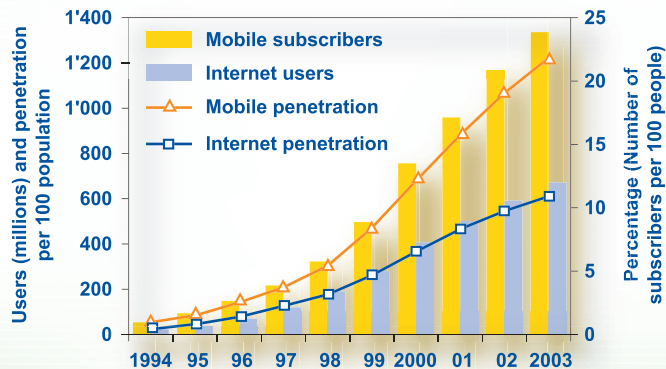
2) ...coupled with the existence of multiple IMT-2000 systems leads to the IMT-2000 Family concept...



4) ...leads to a generalized IMT-2000 functional architecture closely coupled with work on next-generation networks, including a generic "all-IP" access-independent core network architecture.



3) ...combined with the explosive growth of wireless and the Internet...



Source: ITU Internet Reports 2004: The Portable Internet.

For more information, see the ITU-T Study Group 19 website at: www.itu.int/ITU-T/studygroups/com19