

Opening

1.1.3: Introductory Remarks; ITU Structure



***ITU/ITC Regional Seminar on Network
Evolution to Next Generation Networks
and Fixed Mobile Convergence
for CEE, CIS and Baltic States***

***Moscow, Russian Federation
27-30 April 2004***

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Seminar Overview



Today's technology savvy young person will soon be a key decision maker at home and at work. This "next generation user" is the target customer who will demand and expect multimedia services, security, personalization and mobility for enhanced productivity and user experience as normal. Next Generation Networks (NGNs) must meet the demands of these next generation users.

There are now more mobile users than fixed users. This increasing "demographic" shift requires an essential re-examination of the relationship between fixed and mobile networks. It also makes it very clear that mobility must be a core capability of the NGN.

The key objectives of this Seminar are to provide an overview of convergence in its widest sense (Telecom/IT/Broadcast), then to focus on near term convergence topics including fixed and mobile, Telecom + IT. The Seminar will include identification of directions and work topics for proceeding forward from near term convergence.



Workshop Overview

Day 1

- **Session 1.1 - Opening**
- **Session 1.2 - International Framework**
- **Session 1.3 - Network Evolution to NGN and Convergence**
- **Session 1.4 - Network Evolution to NGN**

Day 2

- **Session 2.1a : Network Evolution to NGN – Services and Traffic Engineering**
- **Session 2.1b: Network Evolution to NGN – Services and Traffic Engineering**
- **Session 2.2: Converged Networks**

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Workshop Overview

Day 3

- **Session 3.1 Operational Aspects of Convergence**
- **Session 3.2: Regulatory Aspects of Convergence**
- **Session 3.3a: Fixed Mobile Convergence**
- **Session 3.3b: Fixed Mobile Convergence**

Day 4

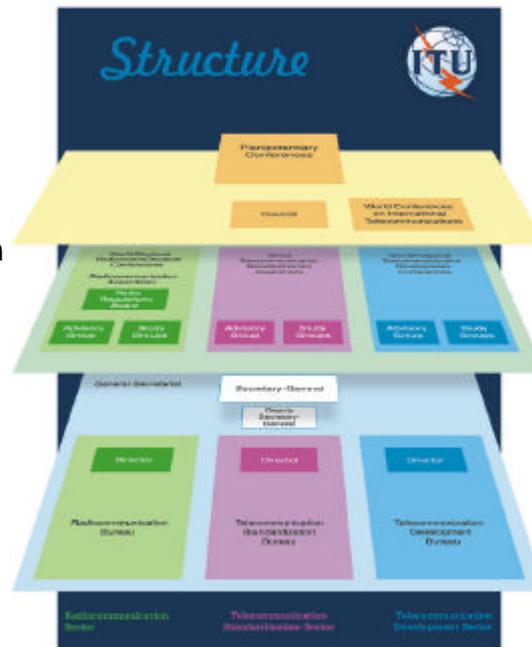
- **Session 4.1 Fixed Mobile Convergence**
- **Session 4.2: Seminar Feedback and Conclusions**

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ITU Structure

3 sectors:

- Radiocommunication
- Telecommunication Standardization
- Telecommunication Development



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ITU Sector Roles and Mission



- ITU-R: management of radio-frequency spectrum and satellite orbits
- ITU-T: standards covering all fields of telecommunications
- ITU-D: facilitate connectivity and access, foster policy, regulatory and network readiness, and expand human capacity through training programs, formulate financing strategies and e-enable enterprises in developing countries

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World Radiocommunication Conference (WRC)

- Held every ~2-3 years; WRC-03: June 2003, Geneva
- Role: review and revise the Radio Regulations
 - international treaty on use of the radio-frequency spectrum and satellite orbits
 - determine Questions for study by the RA and SGs



Additional details available in handouts and on ITU web site

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Radiocommunication Assembly (RA)

- Meets every ~2-3 years; may be with a WRC
 - RA-03: June 2003, Geneva
- RAs: work priorities, urgency and time-frames
- Approve ITU-R Recommendations, technical studies in support of regulatory work of WRCs



Additional details available in handouts and on ITU web site

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Radio Regulations Board (RRB)

- approves Rules of Procedure for applying Radio Regulations and registering frequency assignments made by Member States



Additional details available in handouts and on ITU web site

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ITU-R Structure - Study Groups

- 1 Spectrum Management
- 3 Radiowave Propagation
- 4 Fixed Satellite Service
- 6 Broadcasting Services
- 7 Science Services
- 8 Mobile, Radiodetermination, Amateur and related Satellite Services
- 9 Fixed Service
- SC Special Committee on Regulatory/Procedural Matters
- CCV Coord. Committee for Vocabulary
- CPM Conference Preparatory Meeting



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ITU Sector Roles and Mission

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- **ITU-T: standards covering all fields of telecommunications**
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World Telecommunication Standardization Assembly (WTSA)

- normally held every 4 years; WTSA-2000 in Montreal, WTSA-2004 to be in Florianopolis, Brazil
- approves ITU-T work program
- determines priorities, urgency and time-frame for completion of standards work
- approves ITU-T Recommendations
- considers reports of study groups and TSAG
- decides on structure of study groups, allocation of Questions

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Extensive Work Program - Major topics by Study Group

- 2 Operational aspects of service provision, networks and performance
- 3 Tariff and accounting principles including related telecommunications economic and policy issues
- 4 Telecommunication management, including TMN
- 5 Protection against electromagnetic environment effects
- 6 Outside plant
- 9 Integrated broadband cable networks and television and sound transmission
- 11 Signalling requirements and protocols
- 12 End-to-end transmission performance of networks and terminals
- 13 Multi-protocol and IP-based networks and their internetworking
- 15 Optical and other transport networks
- 16 Multimedia services, systems and terminals
- 17 Data Networks and Telecommunication Software
- SSG "IMT-2000 and Beyond"

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ITU Sector Roles and Mission

- ITU-R: management of radio-frequency spectrum and satellite orbits
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World Telecommunication Development Conference (WTDC)

- normally held every four years: WTDC 2002 in Istanbul, next WTDC in 2006
- fix objectives and strategies for worldwide and regional development of telecommunications
 - priority to expansion and modernization of networks and mobilization of resources to boost telecommunication penetration and access in the world's poorer countries.
- review progress made in telecommunication development in developing countries
- promote the international cooperation
- provide direction to BDT
- establish ITU-D study groups

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ITU-D Study Groups

- ITU-D not involved in technical standardization so manages only two study groups
 - serve as forum for developing and developed countries, and public and private sector organizations to meet
 - purpose: devise innovative solutions to address specific problem areas as identified by WTDC
- study focus: telecommunications development strategies
- SG 1 - Telecommunication development strategies and policies
- SG 2 - Development and management of telecommunication services and networks

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Thank you!

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Additional Details



World Radiocommunication Conference (WRC)

- Held every ~2-3 years; WRC-03: June 2003, Geneva
- Role: review and revise the Radio Regulations
 - international treaty governing the use of the radio-frequency spectrum and the geostationary-satellite and non-geostationary-satellite orbits
 - general scope of WRC agenda established 4 - 6 years in advance; final agenda set by ITU Council 2 years before
 - give instructions to the Radio Regulations Board and the Radiocommunication Bureau, and review their activities.
 - determine Questions for study by the RA and SGs in preparation for future radiocommunication conferences

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Radiocommunication Assembly (RA)

- **Meet every ~2-3 years; may be associated with a WRC; RA-03: June 2003, Geneva**
 - WRCs determine Questions for study by RA and SGs in preparation for future WRCs
- **RAs:**
 - approve work program for study groups
 - set up structures required to carry out work
 - work assignments priority, urgency and time-frame
- **Approve ITU-R Recommendations on technical specifications of systems**
- **Approve technical studies in support of regulatory work of WRCs**



Radio Regulations Board (RRB)

- **approves Rules of Procedure used in applying Radio Regulations and registering frequency assignments made by Member States**
- **addresses matters which cannot be resolved through application of Radio Regulations and Rules of Procedure**
- **considers reports of unresolved interference investigations carried out by the Bureau at request of administrations and formulates Recommendations**
- **advises WRCs and RAs**
- **Bureau Director is Executive Secretary**