Opening
1.1.3 Introductory Remarks; ITU Structure

ITU-BDT Regional Seminar on Fixed Mobile
Convergence and New Network
Architecture for the Arab Region
Tunis, Tunisia, 21-24 November 2005

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Objective and Outline

Objective
- Introduce seminar
- Set stage for understanding ITU’s role in
  global standardization

Outline
- Seminar overview
- ITU structure
  - ITU-R
  - ITU-T
  - ITU-D

ITU-BDT Regional Seminar on Fixed Mobile Convergence and
New Network Architecture for the Arab Region
Next Generation Networks for Next Generation Users, Services

- today’s young person is tomorrow’s decision maker
  - rising expectations: expects multimedia services, security, personalization and mobility for enhanced productivity and user experience
  - rising ability to pay as economies develop
- “demographic” shifts
  - mobile subscribers outnumber fixed: mobility is a key capability of Next Generation Networks
  - technology enabling convergence: telephony, data, entertainment: need common and cost-effective solutions now and in the future

Seminar Overview

Day 1
- Session 1.1 - Opening
- Session 1.2 - International Framework
- Session 1.3a, b - Network Evolution to NGN and Convergence

Day 2
- Session 2.1a, b: - Broadband Technologies and Solutions
- Session 2.2a, b: - Network Evolution to NGN - NGN Network Planning
Seminar Overview

Day 3
- Session 3.1a, b: Operational and Regulatory Aspects of Convergence
- Session 3.2a, b: Fixed Mobile Convergence
- Session 3.3: Convergence in ICT

Day 4
- Session 4.1a, b: 2G to 3G Migration/Evolution
- Session 4.2: Seminar Feedback and Conclusions

ITU Structure

- Office of the Secretary-General; 3 sectors with Bureaus:
  - Radiocommunication
  - Telecommunication Standardization
  - Telecommunication Development

- Membership
  - 189 Member States
  - >650 Sector Members
  - >50 Associates

Additional details available on ITU web site:
www.itu.int/aboutitu/overview/index
### 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

### World Radiocommunication Conference (WRC)

- *Held every ~3-5 years*
  - WRC-03: 9 Jun - 4 Jul 2003, Geneva
- *Reviews and revises Radio Regulations*
  - international treaty: use of RF spectrum and satellite slots
  - determines Questions for study by RA, SGs
Radiocommunication Assembly (RA)

- Normally meets with a WRC
  - RA-03: 2-6 Jun 2003, Geneva
  - RA-07: 1-5 Oct 2007, Geneva
- Work priorities, urgency, time-frames
- Approves ITU-R Recommendations, technical studies in support of WRCs

Radio Regulations Board (RRB)

- Approves Rules of Procedure for applying Radio Regulations and registering frequency assignments made by Member States
**ITU-R Structure - Study Groups**

- **SG 1** Spectrum management
- **SG 3** Radiowave propagation
- **SG 4** Fixed-satellite service
- **SG 6** Broadcasting services
- **SG 7** Science services
- **SG 8** Mobile, radiodetermination, amateur and related satellite services
- **SG 9** Fixed service
- **CCV** Coordination Committee for Vocabulary
- **CPM** Conference Preparatory Meeting
- **SC** Special Committee on regulatory/procedural matters
- **RAG** Radio Advisory Group

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World Telecommunication Standardization Assembly

- Normally held every 4 years
  - WTSA-2000, 27 Sep - 6 Oct 2000, Montreal, Canada
  - WTSA-2004, 5-14 Oct 2004, Florianopolis, Brazil
- Approves ITU-T work program
- Determines priorities, urgency, time-frames
- Approves ITU-T Recommendations
- Reports from SGs, TSAG
- Decides on structure of study groups, mandates, Questions

ITU-T Study Groups, TSAG

- 2 Operational aspects of service provision, networks and performance
- 3 Tariff and accounting principles including related telecommunication economic and policy issues
- 4 Telecommunication management
- 5 Protection against electromagnetic environment effects
- 6 Outside plant and related indoor installations
- 9 Integrated broadband cable networks and television and sound transmission
- 11 Signalling requirements and protocols
- 12 Performance and quality of service
- 13 Next Generation Networks
- 15 Optical and other transport network infrastructures
- 16 Multimedia terminals, systems and applications
- 17 Security, languages & telecommunication software
- 19 Mobile telecommunication networks

ITU-T Telecommunication Standardization Advisory Group

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**World Telecommunication Development Conference**

- Held approx. every 4 years:
  - WTDC 2002, Istanbul
  - WTDC 2006, Doha
- Objectives and strategies for development of telecommunications
  - Priority: expand, modernize networks to boost telecom penetration and access in the world's poorer countries
  - Review progress in telecom development
  - Promote international cooperation
  - Provide direction to BDT
  - Establish ITU-D SGs, mandates
ITU-D Study Groups, TDAG

- ITU-D:
  - Forum for developing and developed countries, and public and private sector organizations to meet
  - Purpose: devise innovative solutions to specific problem areas per WTDC
  - No technical standards
- SGs focus: telecoms development strategies
  - SG 1: Telecom development strategies and policies
  - SG 2: Develop, manage telecom services and networks
  - TDAG: Advisory Group

Thank you!
## Acronyms

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<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>2G</td>
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<td>NGN</td>
<td>Next Generation Network</td>
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<td>P.Eng.</td>
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