International Telecommunication Union

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

ITU

o Objective
  - Introduce seminar
  - Set stage for understanding ITU's role in global standardization
o Outline
  - Seminar overview
  - ITU structure
    - ITU-R
    - ITU-T
    - ITU-D

Next Generation Networks for Next Generation Users, Services

o 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

o "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

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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

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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

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ITU Structure

o **Office of the Secretary-General; 3 sectors with Bureaus:**

- **Radiocommunication**
- **Telecommunication Standardization**
- **Telecommunication Development**

o **Membership**

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

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

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ITU Sector Roles and Mission

ITU

o **ITU-R:** management of radio-frequency spectrum and satellite orbits

o ITU-T: standards covering all fields of telecommunications

o 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)

ITU

o Held every ~3-5 years
  • WRC-03: 9 Jun - 4 Jul 2003, Geneva
  • WRC-07: 8 Oct - 2 Nov 2007, Geneva
o Reviews and revises Radio Regulations
  • international treaty: use of RF spectrum and satellite slots
  • determines Questions for study by RA, SGs

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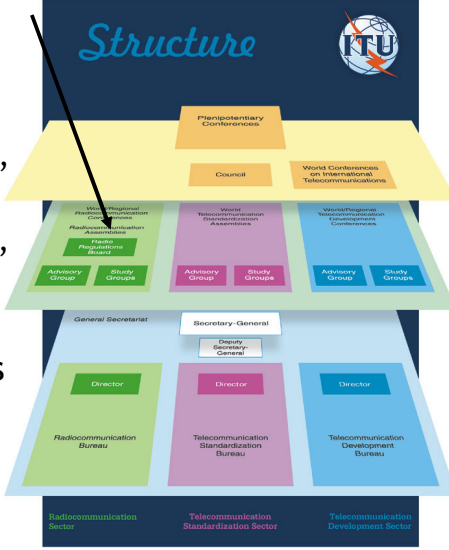
Radiocommunication Assembly (RA)

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

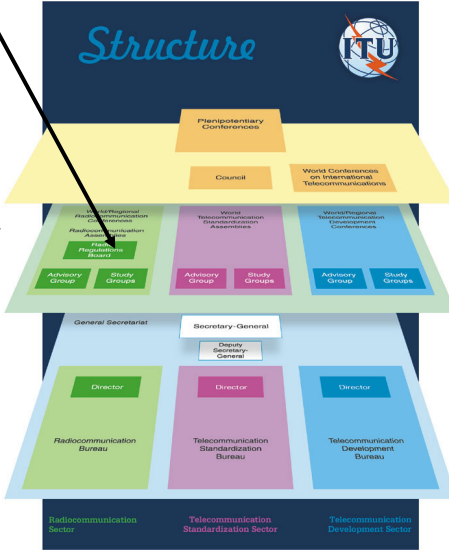*Structure*

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Radio Regulations Board (RRB)

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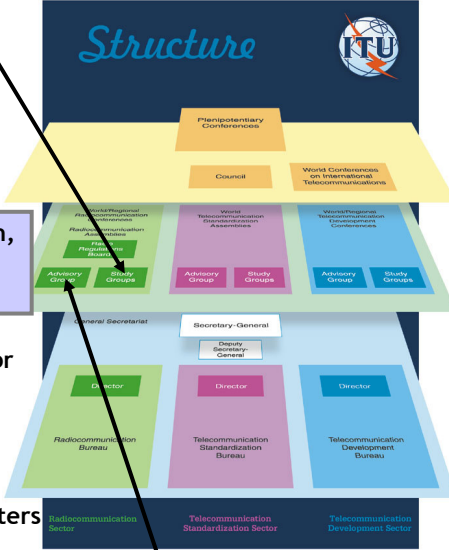

Structure

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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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ITU Sector Roles and Mission

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World Telecommunication Standardization Assembly

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

Structure

Plenipotentiary Conferences

Council

World Conferences on International Telecommunications

World/Regional Radiocommunication Conferences

Radiocommunication Assemblies

Radio Regulations Board

World Telecommunication Standardization Assemblies

World/Regional Telecommunication Development Conferences

Advisory Group | Study Groups | Advisory Group | Study Groups | Advisory Group | Study Groups

General Secretariat — Secretary-General — Deputy Secretary-General

Director | Director | Director

Radiocommunication Bureau | Telecommunication Standardization Bureau | Telecommunication Development Bureau

Radiocommunication Sector | Telecommunication Standardization Sector | Telecommunication Development Sector

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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
TSAG Telecommunication Standardization Advisory Group

Structure

Plenipotentiary Conferences

Council

World Conferences on International Telecommunications

World/Regional Radiocommunication Conferences

Radiocommunication Assemblies

Radio Regulations Board

World Telecommunication Standardization Assemblies

World/Regional Telecommunication Development Conferences

Advisory Group | Study Groups | Advisory Group | Study Groups | Advisory Group | Study Groups

General Secretariat — Secretary-General — Deputy Secretary-General

Director | Director | Director

Radiocommunication Bureau | Telecommunication Standardization Bureau | Telecommunication Development Bureau

Radiocommunication Sector | Telecommunication Standardization Sector | Telecommunication Development Sector

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ITU Sector Roles and Mission

ITU

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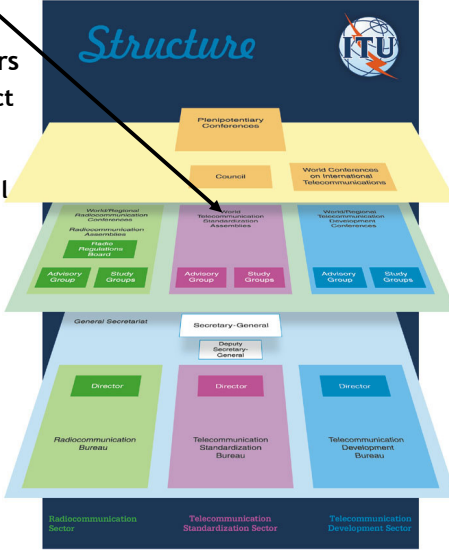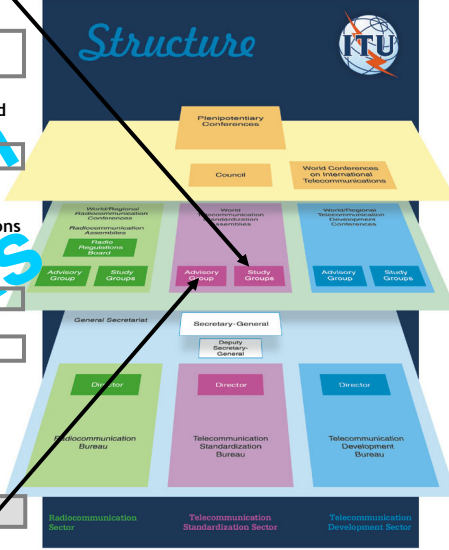

World Telecommunication Development Conference

ITU

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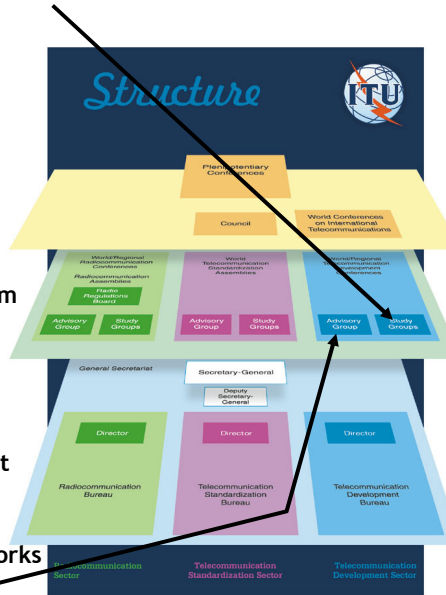- Establish ITU-D SGs, mandates

ITU-D Study Groups, TDAG

o **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

o **SGs focus: telecoms development strategies**
  - SG 1: Telecom development strategies and policies
  - SG 2: Develop, manage telecom services and networks
  - TDAG: Advisory Group

Structure

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Thank you!

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Acronyms

ITU

2G	Second Generation	P.Eng.	Professional Engineer
3G	Third Generation	RA	Radio Assembly
BDT	Telecommunication Development Bureau	RAG	Radio Advisory Group
CCV	Coordination Committee for Vocabulary	SAG	Telecommunication Standards Advisory Group
CPM	Conference Preparatory Meeting	SC	Special Committee on regulatory/procedural matters
ICT	Information and Communications Technology	SG	Study Group
		TDAG	Telecommunication Development Advisory Group
ITC	International Teletraffic Congress	WRC	World Radiocommunication Conference
ITU	International Telecommunication Union		
ITU-D	ITU - Development Sector	WTDC	World Telecommunication Development Conference
ITU-R	ITU - Radio Sector		
ITU-T	ITU - Telecommunication Standardization Sector	WTSA	World Telecommunication Standardization Assembly
NGN	Next Generation Network		

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