



21-30 October 2008

**16th Radiocommunication Advisory Group
(4-6 February 2009)**

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Committed to connecting the world

ITU-T product

- ITU-T Recommendations at the heart of today's ICTs from physical to application layer
- Over 200 new and updated Recommendations are produced each year
- Approx. 90 per cent approved by AAP - ITU-T's fast track process
- AAP cut approval time by 80 to 90 per cent to as little as 5 weeks and average of 9 weeks
- Veto removed
- More than 3100 ITU-T Recommendations are in force
- Wherever appropriate, ITU-T will reference the deliverables of other standards bodies rather than duplicate their work.
- Good cooperation and collaboration is essential between ITU-T and those other bodies
- Close collaboration with ISO, IEC, IETF, IEEE etc.

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Membership

- New work leading to new members:
 - Ygomi and Head Acoustics following work in area of intelligent transport systems (ITS).
 - University of Zimbabwe; Institute for Information Research; UK Telecommunication Academy as a result of Kaleidoscope academic initiative
- Already 4 new Associates in 2009.
- 20 new memberships in 2008, 40 new Associates (including Apple).

WTSA-08 Statistics:

- Five regional preparatory meetings (Brazil, Ghana, Uzbekistan, Syria, Viet Nam) in association with Regional Development Forums on Bridging the Standards Gap in collaboration with BR, BDT and Regional Offices
- Resulted in regional common proposals from five regions
- WTSA adopted 21 new Resolutions, revised 27 existing Resolutions, adopted two new Recommendations and revised 7 existing Recommendations
- Among the 48 Resolutions nine call for collaboration with the BR (See Resolutions in annex)
- Total of 350 contributions
- 99 participating countries
- Over 1000 attendees
- 13 ministers/vice-ministers
- VIPs spanning the world and the ICT industry sector

WTSA-08 A first in many ways:

- 1st time chaired by a woman
 - Lyndall Shope-Mafole, Director-General, South African Ministry of Communications
- 1st time in Africa
- 1st time preceded by a Global Standards Symposium
- 1st time academia invited – tutorial on ITU-T given them
- 1st time side events held: accessibility; climate change; and cybersecurity
- 1st time associated exhibition of new technologies including 3D TV
- 1st substantial restructuring of the Sector
- 1st time term limits on chairmanships applied:
 - Virtually complete new team of chairmen and vice-chairmen from 33 countries
- Unprecedented media coverage
 - local and international: including 3 TV interviews, 3 radio interviews, and numerous printed articles and web coverage



First Global Standards Symposium



- Held on 20 October 2008
- 500 participants
- Chaired by H.E. Mr Nguyen Thanh Hung, Vice-Minister, MIC/Viet Nam
- High level speakers: ministers; ambassadors; heads of regulatory bodies; CTOs of multinationals; heads of major standards bodies
- Adopted nine page report which was presented next day to the first Plenary of the WTSA-08
- The conclusions addressed
 - ways to bridge the standardization gap;
 - challenges in the new standards landscape, including climate change and accessibility;
 - ways to strengthen collaboration amongst standards bodies.
- Conclusions were acted on by WTSA-08

New structure:

- major restructuring and streamlining of the study groups
- The total number of study groups was reduced from thirteen to ten:
 - SG 2 service definition, numbering and routing, telecommunications for disaster relief/early warning, telecommunication management
 - SG 5 EMC and electromagnetic effects
 - SG 9 integrated broadband cable and TV networks
 - SG 11 signaling and protocols, intelligent networks and test specifications
 - SG 12 quality of service and quality of experience
 - SG 13 future networks, NGN, mobility management and fixed-mobile convergence
 - SG 15 access network transport, optical technology and optical transport networks
 - SG 16 multimedia, ubiquitous applications, accessibility for persons with disabilities
 - SG 17 security, identity management (IdM)

Study Group 2/3 Highlights

- **SG2:** Allocation of codes for ALL fixed and mobile numbers including development of new codes for new applications eg machine to machine.
- 116 111 for child helplines around the world.
- Allocation of the international dialing code 888 to the UN for use in disaster relief situations.
- **SG 3:** Study of data collected via three separate questionnaires resulted in “Indicative rate for international mobile termination” (ITU-T D.99).
 - A similar exercise was undertaken for fixed line termination charges in the nineties and resulted in reduced charges.

Study Group 5/9 Highlights

- **SG 5:** New work addressing the electromagnetic compatibility (EMC) for home networks.
- In accordance with [Resolution 72](#) of WTSA-08, SG 5 will accelerate its work on human exposure to EMF.
- **SG 9:** If you have a cable connection at home it's via ITU-T Recommendations for set top boxes from SG 9
- New work on next generation cable modems which act as universal integrated receivers or set-top-boxes for home networking.

SGs 11/12 Highlights

- **SG 11:** Home to Signaling System 7 (SS7), without which telecom systems worldwide would not interoperate.
- Now working on protocols of critical importance to the rollout of NGN.
- Signalling support for emergency telecommunication services (ETS).
- Expanded its coverage of specifications for conformance and interoperability testing.
- **SG 12:** QoS specifications critical for IPTV rollout.
- Key ITU-T Recommendations on IPTV including one defining user requirements for Quality of Experience (QoE) for IPTV services and another for performance monitoring for IPTV.

SGs 13/15 Highlights

- **SG 13:** NGN-GSI represents one of the largest, most wide-ranging standardization projects ever undertaken.
- A single meeting often called upon to evaluate more than 500 technical proposals.
- New Focus Group on Future Networks (FG-FN)
- **SG 15:** All DSL broadband connections come via an ITU-T Recommendation from SG 15.
- Latest G.993.2 (VDSL2) - major achievement - a tenfold increase over ADSL.
- SG 15 standards at the core of the network power all of today's communications.
- Massive industry support for the first global standard offering an in-home, high-speed network capable of delivering room-to-room HDTV – G.hn.

SGs 16/17 Highlights

- **SG 16:** Primetime Emmy Award for Excellence to ITU, ISO and IEC advanced video coding standard, ITU-T H.264 .
- **SG 17:** Work on traceback enables the determination of the origin of electronic communications that will mitigate denial of service (DoS) attacks and short message service (SMS) spam.
- Identity management (IdM) identified as the biggest fear preventing users from placing more trust in online networks. Work in SG 17 and IdM-GSI advancing.

Resolutions on coordination:

- Resolution 18 (originated in 1993) calls for RAG and TSAG to keep under review new and existing work in the two Sectors
- Resolution 38 (originating in 2000) calls for coordination among ITU-T, ITU-R and ITU-D for activities relating to IMT and responds to proposal from ITU-R to develop a roadmap for all of ITU-T standardization activities related to IMT
- Resolution 44 (originated in 2004) on Bridging the standardization gap between developing and developed countries (next slide)
- Resolution 45 (originated in 2004) calls for effective coordination with ITU-R and ITU-D on the high-priority standardization issues: NGN; cybersecurity; telecommunications for disaster relief; home networking; and Internet-related issues
- New Resolution 57 invites TSAG, RAG and TDAG to assist in the identification of subjects common to the three Sectors and mechanisms to enhance cooperation and collaboration in all Sectors on matters of mutual interest, and the three Directors to collaborate and report to the respective Sector advisory bodies on options for improving cooperation at the secretariat level

Bridging the Standards Gap:

- Resolution 44 recognises the efforts being made to meet PP-06 Resolution 123
- encourages ITU regional offices to work closely with the TSB
- encourages developed countries to establish cooperation programmes with developing countries
- suggests a separate expenditure line in ITU budget for bridging standardization gap
- encourages voluntary contributions (so far only Korea, Nokia-Siemens, Cisco and Microsoft have contributed to the fund)
- more guidelines to explain ITU-T Recommendations and their application with emphasis on Recommendations having regulatory and policy implications
- encourages remote participation (100 ITU-T meetings had remote participation in 2008);
- Develop mechanism to measure results
- Actions to be performed by TSB with BDT cooperation:
 - Compile and maintaining a database containing information on new standardised technologies
 - Organizing training courses on the application of specific Recommendations and on methods of examining compliance of manufactured products with these Recommendations

Some new Resolutions:

- New Resolution 59 instructs Director TSB to encourage Sector Members to promote the participation in ITU-T activities of their subsidiaries in developing countries
- A new Resolution 64 on encouraging the deployment of IPv6 and to study the allocation and economic aspects of IP addresses and to report to Council on the question of IPv6 address allocation and registration by TSB for interested members
- New Resolution 67 establishes a Standardization Committee for Vocabulary (SCV) to adopt terms and definitions in the six languages including graphical symbols, letter symbols, units of measurement, etc
- New Resolution 68 calls for a new group of high-level industry executives in order to assist in identifying and coordinating standardization priorities and following consultations bring them the needs of developing countries

Some more new Resolutions:

- New Resolution 70 encourages more work in the field of telecommunication/ICT accessibility for persons with disabilities and to review the accessibility of ITU services and facilities
- New Resolution 71 to encourage cooperation between ITU-T and academia, universities and their associated research establishments, and invite Council to consider reduced fee
- New Resolution 73 on ICTs and Climate Change encourages the membership to work towards reductions in greenhouse gas in line with the United Nations Framework Convention on Climate Change
- New Resolution 74 instructs Director TSB to propose to Council to consider reduced ITU-T fee for Sector Members from developing countries based on that applied in ITU-D, and that it include its consideration of this matter in the work of the Council for preparation of PP-10

Measurement concerns related to human exposure to electromagnetic fields

- Resolution 72 – *recognizing*
- ...the work done within ITU Radiocommunication Sector (ITU-R) study groups on radiowave propagation, electromagnetic compatibility (EMC) and related aspects, including measurement methods;
- *resolves*
- to invite ITU-T, in particular Study Group 5, to expand and accelerate its work and support in this domain...
- ... cooperating on these issues with ITU-R Study Groups 1 and 6

Conformance and interoperability testing

- Resolution 76 requires ITU-T to develop conformance and interoperability testing Recommendations as quickly as possible
- that ITU-T in collaboration with the other Sectors:
 - assist developing countries in identifying training opportunities
 - assist developing countries in establishing regional or subregional conformity and interoperability test centres
- instructs the Director TSB in cooperation with BDT and BR to identify and prioritize the problems faced by developing countries
- based on results produce a report for Council 2009 on:
 - i) the overall effect on ITU and manufacturers
 - ii) legal, national and international regulatory implications
 - iii) cost of setting up of facility
 - iv) location of testing facility
 - v) measures to be taken to build the necessary human-resource capacities
- to carry out the necessary studies with a view to introducing the use of an ITU Mark including financial and legal implications for ITU-T and for ICT industries, and other concerns
- Invites Council to report to PP-10

Implementation:

- TSB developing an Action Plan for implementation of all WTSA-08 Resolutions in consultation with BDT and BR
- Increased number of study group meetings in the regions planned
- New regional group meetings planned
- Work has started on Resolution 76 Report in cooperation with BR and BDT
- Other TSB workshops coordinated with BDT (and BR where appropriate)
- Partial fellowships now available for all ITU-T study group meetings
- Consultancy contracts given for production of handbook on fibre optics and implementation of Resolution 70 (accessibility)
- Financial implications of WTSA-08 decisions will be incorporated in draft budget to present to Council-09

Conclusions:

- ITU's role as the world's pre-eminent global ICT standards body is strengthened
- Bridging the standardization gap recognised as essential to ITU's mission to Connect the World
- A streamlined and efficient study group structure adopted avoiding duplication and focusing on key objectives
- New team of chairmen and vice-chairmen from 33 countries
- First SG15 meeting since WTSA-08 was completely paperless, had largest ever participation (367 delegates) largest ever number of contributions (336) consented 28 Recommendations including new high profile global standard on home networking:
 - PC World (US) 13.12.08: "The powerful world standards organization ...[ITU].. has reached agreement on G.hn a set of specifications that would encompass phone lines, power lines, and coaxial cable to provide HDTV room to room..."
- Full list of WTSA Resolutions is at: <http://www.itu.int/publ/T-RES/e>

Resolutions calling for collaboration with BR

- Res. 18 Principles and procedures for the allocation of work to, and coordination between, ITU-R and ITU-T
- Res. 38 Coordination among ITU-T, ITU-R and ITU-D for activities relating IMT
- Res. 44 Bridging the standardization gap between developing and developed countries
- Res. 45 Effective coordination of standardization work across study groups in ITU-T and the role of TSAG
- Res. 57 Strengthening coordination and cooperation among ITU-R, ITU-T and ITU-D on matters of mutual interest
- Res. 70 Telecommunication/information and communication technology accessibility for persons with disabilities
- Res. 72 Measurement concerns related to human exposure to electromagnetic fields
- Res. 73 Information and communication technologies and climate change
- Res. 76 Studies related to conformance and interoperability testing, assistance to developing countries, and a possible future ITU Mark programme