Preparing for the World Telecommunication Standardization Assembly (WTSA-12)

Third APT Preparatory Meeting for WTSA-12
Cairns, Australia
19-21 March 2012
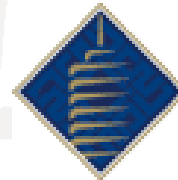
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WTSA-12: Date and venue

- 20-29 November 2012

  - 19 Nov GSS and 3-14 Dec WCIT

- Dubai World Trade Centre, UAE

مركز دبي التجاري العالمي
DUBAI WORLD TRADE CENTRE

Outline

- Guide to WTSA-12
- GSS and Preparatory Process
- WTSA-08 Resolutions and Action Plan
- Hot Issues
- Work Program Issues

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What is WTSA?

- WTSA sets direction, policy and structure for ITU-T

    - Meets every four years

    - Defines the general policy for the Sector

    - Establishes the ITU-T study groups

    - Approves work program of study groups

    - Appoints chairmen and vice-chairmen of ITU-T study groups

    - Reviews existing WTSA Resolutions (49)

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Main objectives of WTSA

- Underline ITU-T's role as the most effective venue for international standardization

- Pick up new work on emerging technologies

- Increase efficiency in order to make best use of delegate time and resources

- Avoid duplication and overlap of work

- Increase participation and relevance

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Who can participate?

- Member States and Sector Members

- Observers:

  - Regional telecom organizations

  - Intergovernmental organizations operating satellite systems

  - Any other regional or international organizations dealing with matters of interest

  - UN and specialized agencies of UN and IAEA

- ITU elected officials in advisory capacity

- Director TSB can make proposals

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WTSA Proposed Structure

- COM 1: Steering Committee

- COM 2: Budget Control

- COM 3: Working methods of ITU-T

- COM 4: Work programme and organization

- COM 5: Editorial Committee

- The Plenary may set up other Committees

Practical Matters

- Contributions requested preferably two months in advance (20 Sept.) and no later than 14 calendar days before opening of Assembly (6 Nov.)

- Paperless meetings, but MS can request two and SM can request one paper copy

- Joint registration system for WTSA and WCIT through focal points starting 20 August

- One full or two partial fellowships for eligible countries

WTSA Side Events and Exhibition

- Three Side Events:

  - e-Health

  - ICT innovation and standards (coupled with academia event)

  - Network resilience and disaster relief

- Exhibition

  - Goal: 5-10 companies

  - Showcase IPTV, others

Possible Outcomes

ITU-T Snapshot in 2012

- 10 study groups

- 6 focus groups (3 established at Jan 2012 TSAG)

- 9 Joint Coordination Activities

- 2 Global Standards Initiatives (IPTV, IoT)

- 250 standards/year

- 250 Rapporteurs

- 1000 Editors

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Study Group consolidation or restructuring

- Consolidation of current structure seems likely

- New work to be included in existing SGs

- ITU-T A.7 (focus groups): revise to allow TSB to better support Focus Groups ?

- Rules on remote participation?

- New membership initiatives

Candidatures

- WTSA Resolution 35 "…a maximum time in office of approximately eight years for study group and TSAG chairmen and vice-chairmen…"
  - Current chairs that cannot be re-elected for a second term are SG 2, SG 3, SG 15
- Objectives: to maintain level of expertise and momentum
- Expected results
  - Nomination of capable chairmen
  - Regional representation
- TSB Circular 251 sent on 24 January inviting candidates by 20 September

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Prior to WTSA-12

Regional preparation meetings

- ITU organizing back-to-back meetings for WTSA/ WCIT Preparations (March-May 2012)

  - RCC/Tashkent: 2-6 April

  - Arab States/Egypt: 28 April–1 May

  - Americas/Buenos Aires: 14-15 May

  - Africa/Durban: 21-24 May

- Sector Members from the region can participate in the regional preparatory meetings

- Fellowships available for RPMs

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Global Standards Symposium

- Monday, 19 Nov 2012

- Themes:

- Bridging the standardization gap: from innovation to standards

- Global Standards Challenges

  - e.g., e-health; resilience of networks to disasters

- Global Standards Collaboration: Roundtable

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Implementation of WTSA-08 Resolutions

WTSA-08

- ICTs and climate change
- Deployment of IPv6
- Accessibility to ICTs
- Conformance and interoperability
- Encouraging academic and developing country participation
- Major reorganization of the Study Groups
- Reduced fees for SMs from developing countries

WTSA-08 Action Plan where are we?

- Reporting tool to keep membership informed

- Now at Version 7 (Sept 2011)

- Lists responsible TSB staff member, deadlines

- Details actions taken and results achieved

- URLs

  - itu.int/dms_pub/itu-t/oth/26/01/T260100504E0007XLSE.xls

  - itu.int/dms_pub/itu-t/oth/26/01/T260100504E0007MSWE.doc

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WTSA-08 Action Plan – Metrics

- 49 Resolutions (21 new, 28 revised)

- 189 Action Items for 49 Resolutions, under 22 TSB staff

  - 40 Resolutions have 120 Action Items for TSB & Director

  - 24 Resolutions have 41 Action Items for SGs

  - 18 Resolutions have 30 Action Items for TSAG

  - 24 Resolutions have 46 Action Items in coop with sectors/GS

- Status Report (September 2011)

  - 103 Action Items are completed (54%)

  - 54 with ongoing activities are progressing on target (29%)

  - 22, mostly for WTSA-12, to be initiated (12%)

  - 10 pending (5%)

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WTSA-08 Action Plan Supporting Sector Objectives

- Bridging the Standardization Gap Action Items on:
  - Workshops; regional groups, activities and coordination; Conformance and Interoperability; Computer Incident Response Teams (CIRTs); training; remote participation

- Standardization Action Items on:
  - EWMs; security; ICT and Climate Change; external and internal cooperation; strategic activities (e.g. new FGs, JCAs); accessibility; academia participation

- Disseminating Information Action Items on:
  - Allocation and management of network resources (e.g. numbering); accessibility; IPv6; Seminar Coordination Committee; Technology Watch; Vocabulary Committee

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Bridging the Standardization Gap

- One of the three strategic goals of ITU-T

- BSG Fund for 2011: CHF 239,000

(Korean Communications Commission, NSN, Microsoft, Cisco)

- Reduced membership fees (CHF 3,975 PA)

- Manuals and handbooks on ITU-T Recommendations

  - Handbook on Testing (2011), Convergent Networks (2010), ITU-T Manual on Optical Transport Networks from TDM to Packet (2010) , DSL Story (2010)

- Standards Q&A Online Forum and New Focus Group

- Mentoring program for newcomers, fellowships

- Remote participation and meetings in region

- 40 new countries participating

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Developing country participation in WTSA-08
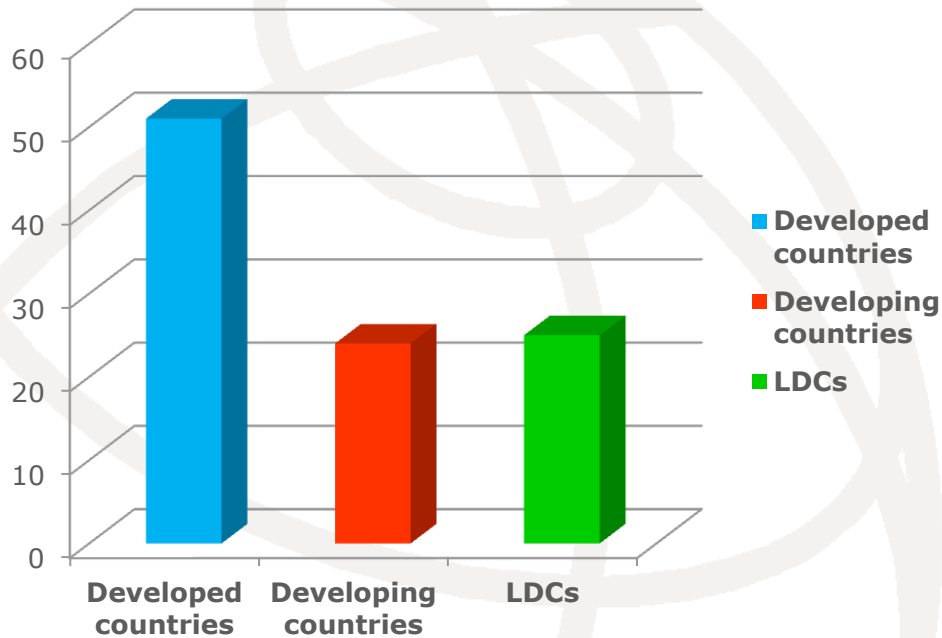
Based on participation of 99 Member States

Traditional areas of strength

- Network infrastructure: optical transport
- Access technologies
- Quality of Service (QoS) and network management
- Numbering
- Economic and policy issues
- Emergency telecoms
- Multimedia codecs (voice, video)

ITU-T should strengthen presence in certain areas

- e-Health

- Accessibility

- ICTs and climate change

- Internet of Things/M2M

- Intelligent Transport Systems

- Cybersecurity including Identity management

- IPTV, cloud computing and smart grid

- Conformity and interoperability

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Hot Topics

Technology Watch:
Identifying the Hot Topics

- Output contributed to creation of new Focus Groups, Study Group Questions, workshops, discussions, etc.

- Widely recognized inside and outside ITU

- Open to contributions and topic proposals

Decreasing Driver Distraction
ITU-T Technology Watch Report
August 2010

ICT as an Enabler for Smart Water Management
ITU-T Technology Watch Report
October 2010

Using Submarine Communications Networks to Monitor the Climate
ITU-T Technology Watch Report
November 2010

Standards and eHealth
ITU-T Technology Watch Report
January 2011

The Optical World
ITU-T Technology Watch Report
June 2011

Trends in Video Games and Gaming
ITU-T Technology Watch Report
September 2011

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Conformance and Interoperability Testing

Business plan:

- KPMG to present at Council-12 (July)

Conformity database

- About to receive first entries

Interoperability events

- Identify new customers/technologies

Capacity building

- In cooperation with BDT, additional forums in 2012

Assistance in the establishment of test facilities

ICTs and Climate Change

- ITU-T Universal charger: future versions to cover ICT devices other than mobile phone
- ITU-T Methodologies to assess ICT carbon footprint to be completed in 2012
- To come: standard on guidelines for recycling rare-metals in ICT products
- Joint task force with WMO and UNESCO on the use of submarine cables to monitor climate and provide tsunami warning
- 2nd ITU Green ICT Apps Challenge launched

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Smart Grid

NIST Smart Grid Framework 1.0 January 2010

- Electric Grid Transport & Distribution Communication Standards
- Optimization of facility usage
- Integration of renewable energy sources, which are distributed and less stable
- Integration of electric vehicles

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Disaster Relief

- New Focus Group on standards for Network Resilience and Recovery from disasters

- Focus:

  ➤ (1) disaster relief for individuals (to notify the damage situation from victims to their relatives, friends, or employers)

  ➤ (2) disaster relief guidance (to show victims the routes to evacuation shelters, home, etc.).

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Internet Access through ITU standards

- Access:

  - ADSL: ITU-T G.992

  - Powerline Transmission:

    ITU-T G.9960 (G.hn)

  - FTTX (Fibre to the <x>):

    - GPON (Gigabit Passive Optical

      Networks) ITU-T G.984

    - Bendable fibers: ITU-T G.657
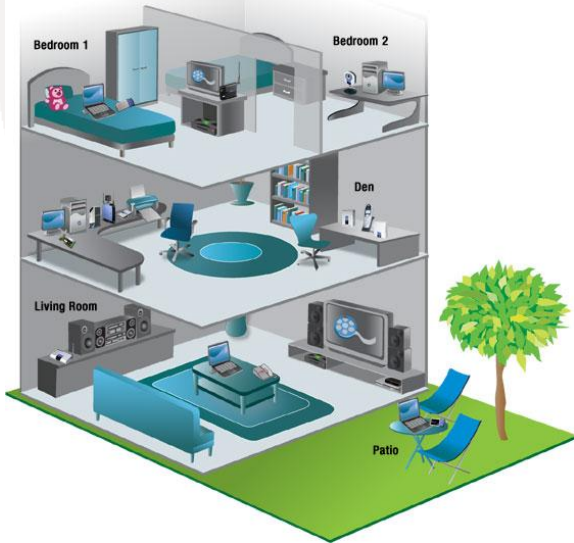
Optical Transport

- 95% of all international traffic runs over fibre = ITU-standards

- MPLS-TP

- Carrier Ethernet: ITU-T Y.1731

- Synchronization: Mobile Backhaul

- Optical Transport Networks from TDM to Packet

- Optical fibres, cables and systems

- SDH: ITU-T G.707

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e-Health

- Chief Technology Officer (CTO) request to accelerate work
- Protocol to relay biometric info, connecting doctors with patients in remote locations
- Requirements and network capabilities for e-health monitoring applications
- Workshop with World Health Organization (WHO) April 2012

Accessibility

- PP-10 Res 175 … accessibility for persons with disabilities…

- ITU provides accessibility to ICTs, and to ITU facilities for participants with visual, hearing or physical disabilities

- Voluntary fund to assist disabled participants

- Focus Group Audio Visual Media Accessibility

Internet of Things (IoT)/ Machine-to-Machine communications

- ITU's Global Standards Initiative on IoT started May in 2011

- ITU-T Focus Group M2M Service Layers created Jan 2012

  - Focus initially on e-health

  - 1st meeting April 2012

  - WHO/ITU Workshop on e-health standards and interoperability

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Cloud Computing

- Growth opportunity for Telcos

- Opportunity for developing countries

- Security, Audit, and Privacy

- Cloud Computing picks up a lot of activity in ITU

The Economist, Oct 2009

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Cybersecurity & Identity

The Economist, July 2010

- Strengthen the confidence and security in the use of ICTs

- Strengthen cybersecurity and combat cyber threats

- Identity Management

- Child Online Protection

- Cybersecurity Information Exchange Framework (CYBEX)

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Intelligent Transport Systems

- In-Vehicle Multimedia applications and services

- Climate Change

- Electric Vehicles

- Road Safety

- Driver Distraction

Multimedia: Prime Time Emmy Award for ITU standards

- Advanced video coding:

  ITU-T H.264

  - Used to compress billions of clips on YouTube, high-definition content on Blu-ray Discs

- New work:

  - Joint Collaborative Team (ITU-T, ISO/IEC) to reduce data rate by 50%

IPTV

- ITU-T suite of IPTV standards
- ITU organized interoperability testing events and showcasing events in Geneva, Singapore, India, Brazil, United Arab Emirates
- Demo at WTSA-12
- 2nd IPTV Application Challenge to be launched – prizes at WTSA

Involving future engineers
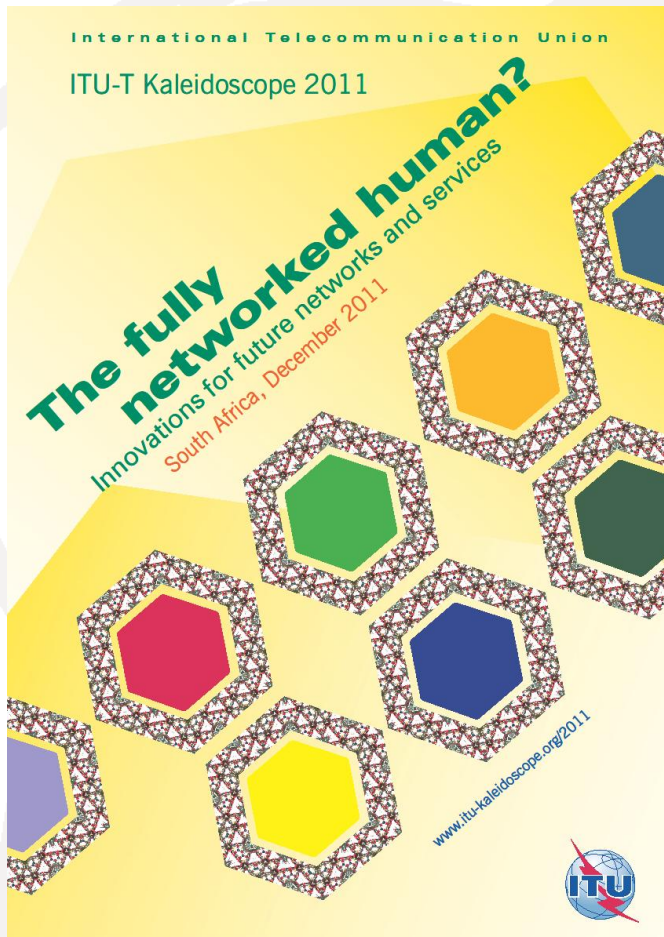
- Academia and universities can participate in the work of ITU at a reduced fee
- Kaleidoscope events
  - International events bringing academia and industry together
  - Rigorous, double-blind, peer-review process

Major issues related to working methods of ITU-T

- Current discussions

- International collaboration platform mechanisms

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Current discussions

Work methods inventory-1

- **WTSA-08 Resolution 1** – in particular
  - §7: Procedure for new/revised Questions
  - §8: Selection of approval process (AAP vs TAP)
  - §9: Traditional approval process
- **A-series Recommendations**
  - A.1: Work methods for ITU-T study groups
  - A.7: Focus groups: Working methods and procedures
  - A.8: Alternative approval process

Work methods inventory-2

- A-series Recommendations (cont'd)
  - A.4: Communication process between ITU-T and Forums and Consortia
  - A.5: Referencing documents of other organizations in ITU-T Recommendations
  - A.6: Cooperation and exchange of information with national and regional standards development organizations
  - A.23: Collaboration with ISO/IEC JTC1

ITU-T A.4, A.5, and A.6

- Scopes:
  - A.4 - Communication between ITU-T and Forums and Consortia
  - A.6 - Cooperation and exchange of information between ITU-T and national and regional standards development organizations
  - A.5 - References to documents of other organizations in ITU-T Recommendations
- Issues
  - Nested referencing not addressed in A.5
  - Discussions on updating A-Series Supplement 3 may lead to clarifications in A.4

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ITU-T A.7

- Focus groups: Working methods and procedures
- Scope
  - ➢ Defines the rules for ITU-T FGs
- Current issues
  - ➢ Refinement of rules based on recent experience
  - ➢ Funding of FG activities

Collaboration mechanisms

Current ITU-T collaboration toolbox

- Inter-SG collaboration
  - JCAs (high-level coordination on a theme – e.g. IPTV, IoT, NGN)
  - GSI (technical work in co-located "thematic" Rapporteur Group meetings)

- Reaching across to other ITU Sectors and external organizations
  - ITU-T A.23: Only with JTC1
  - Focus Groups

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JCAs (Joint Coordination Activities), GSI (Global Standards Initiative) and TSR (Technical and Strategic Review) (defined in ITU-T A.1, clause 2.2)

What they are, how they interwork, and some current issues

JCAs – Joint Coordination Activities

- First use: JCA-NGN, circa 2004 (WTSA-04)
- Currently, nine JCAs running; two JCAs concluded
- It is a coordination mechanism for a certain topic
  - ITU-T groups
  - Can be open to other (non-ITU-T, non-ITU) entities
- Open to participation of representatives of groups
  - Not intended for the membership-at-large
- Connected to a Study Group or TSAG

GSIs

- GSIs are <u>not</u> a group, but a bundling of "*birds-of-a-feather*" Questions, or
- A way of calling collocated, coordinated Rapporteur Group meetings
- Thematic:
  - IPTV, NGN, IoT (still running)
  - IdM (concluded)
- A GSI is not a group, but an assemblage of groups
  - Hence: no plenary, no chairman
- Expert participation: expected to do technical work
- Coordination: via the associated JCA

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Issues with GSIs

- Can be complex to manage, depending on:
  - How they are implemented
  - Number of participating Questions
    - More Questions mean more complicated groups
    - GSIs have a lot of flexibility on how to organize their work

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Get involved

- Regional preparatory meetings proven platform

- Regional groups should coordinate common proposals

- TSAG meeting

  - Virtual meeting 17-18 April (2 hours daily)

  - 2 – 4 (am) July 2012 in Geneva

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