



IEEE 802 EC ITU standing committee

Glenn Parsons - Ericsson

glenn.parsons@ericsson.com
+1 613 963 8141

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Agenda for November meeting

- Role of this standing committee
- IEEE membership in ITU
- IEEE-SA BOG International SDO advisory group
- Update on WTSA-16

Role of the ITU standing committee

Objective

- Provide IEEE 802 input into IEEE-SA engagements with ITU
- Receive updates on IEEE-SA engagements with ITU
- Do not interfere with existing technical liaisons to ITU-T (e.g., in 802.1, 802.3)
- Do not interfere with existing regulatory and technical liaisons with ITU-R (e.g., in 802.18)

LMSC P&P section 5.6, item #2

<http://standards.ieee.org/about/sasb/audcom/pnp/LMSC.pdf>

- The subgroup is responsible for assisting the Sponsor (e.g., drafting all or a portion of a document, drafting responses to comments, drafting public statements on standards, or other purely advisory functions).

Operating practice

- Consensus
 - Any voting, approvals will be done by the EC
- Reciprocal attendance rights for 802 WGs
 - policy is per home WG
- Preparatory meetings for upcoming ITU events for IEEE
 - Formalize current volunteer engagement
 - Summarize issues to be discussed per ITU event
 - IEEE-SA staff will indicate targeted ITU events to guide the agenda
 - Review proposed positions/contributions
 - IEEE-SA staff or volunteers may propose
 - Hold conference calls as needed between plenaries


IEEE membership in ITU

IEEE and ITU

- IEEE is a Sector Member of ITU-T, ITU-R and ITU-D
 - Participate in the work of ITU-T Study Groups, Working Parties and expert groups, seminars, round tables, colloquia and workshops
 - Attend ITU and ITU-T decision-making bodies (e.g., ITU Plenipotentiary Conference, World Telecommunication Standardization Assembly)
 - ITU Council granted no fee sector membership ~2002
- IEEE is classified as a “regional or other international organization”
- IEEE is qualified as
 - [ITU-T A.6](#) - Cooperation and exchange of information with national and regional SDOs
 - [ITU-T A.5](#) - Making reference to documents from other organizations.

Register for a TIES Account

- Any IEEE 802 WG member may apply for a TIES Account under IEEE
 - Provides access to ITU-T documents
 - http://www.itu.int/online/mm/scripts/reg.screen1.html?_languageid=1


International Telecommunication Union

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TIES OnLine Registration : Page 1/4

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[Introduction](#)
[How to SEARCH](#)
[SEARCH](#)
[How to ORDER](#)
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[Palestine, Resolution 99 \(Rev. Guadalajara, 2010\)](#)

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- for Permanent Missions, please select the represented country (i.e. Italy for Permanent Mission of Italy)
- for ITU Staff, please select Switzerland

Attendance at ITU

- Typically, volunteers attend under their company's membership
- Volunteer attendance at ITU meetings as an IEEE representative requires IEEE-SA approval
 - ITU-R liaison (Mike Lynch) has been approved

Contact

Jodi Haasz

International Affairs Senior Liaison

j.haasz@ieee.org

IEEE-SA BOG International SDO advisory group

Chair: Glenn Parsons

Scope

- Provide guidance of the relationship between IEEE-SA and ITU, IEC and ISO
- ITU Work items
 - ITU-D conferences
 - IEEE staff educational presentations
 - ITU-T WTSA
 - Contribution assessment
- GSC-21
 - IEEE-SA will host in Vienna
 - 26-27 September 2017

Ongoing ITU-T conferences

ITU conferences - policy & governance

- Recent conferences
 - ITU Council
 - ITU-T TSAG
 - ITU-T WTSA

- Upcoming conferences
 - ITU Telecom (including CTO meeting & Kaleidoscope) – November 2016
 - ITU-T TDAG – January 2017
 - ITU CWG WSIS & Internet – February 2017
 - ITU-D RPM Americas – February 2017
 - TSB Director's IPR adhoc – early 2017
 - ITU-R RAG – April 2017
 - ITU-T TSAG – May 2017
 - ITU Council – May 2017
 - ITU-D WTDC – Oct 2017

Topics of interest

- Strategic plan of ITU
- Internet governance
- Addressing / numbering
- Privacy and trust
- Cooperation and collaboration with other SDOs
- Patent policy
- Open source

ITU Council 2016

- DOA / DONA MoU
 - Some members concerned about the ITU arrangement
- INR (International Numbering Resources)
 - Recommendation on revising fee structure
 - No new “revenue generation” agreed
- Membership
 - New categories
 - SME, Academia
 - Tightening membership “fee exemption”
- New ITU HQ
- New document access policy

TSAG Rapporteur Group on Strengthening Collaboration

- The goal is to improve the collaboration process with other SDOs such that it is simplified for ITU, but more importantly that it is mutually respectful.
- In the last study period, the focus was on a revision of the process documents: A.4, A.5 & A.6
The following is the resulting set:

Concept covered	Recommendation
Referencing	A.5-rev
Incorporation/Adoption	A.25
Joint work and/or collaboration	A.Supp.5 In force A.4 and A.6

- This study period the focus will be on open source

WTSA-16

WTSA-16 Summary

- Side events
 - GSS – with other SDOs
 - CxO – with industry
- Active discussions on:
 - privacy & trust
 - DOA/DONA
 - Internet of things
 - Counterfeit/theft
 - Open source
 - OTT
 - Resolution 1 – consensus vs voting
- Request for ITU-T to
 - study many new issues concerned by Member States
 - provide assistance to developing countries
 - Request more resources/revenue

Evolution of WTSA Resolutions (1993-2016)

WTSA-yy	number of Resolutions	Breakout of Resolutions			number of A4-Pages
		New (Res No.#)	revised	Suppressed/merged (Res No.# suppressed)	
WTSC-93	21	21 (Res No. 1 – 21)	-	-	59
WTSC-96	20	8 (Res No. 22-29)	12	9 (Res No. 6, 8, 12-16, 19, 21)	62
WTSA-00	21	11 (Res No. 31 ^[1] -41)	10	10 (Res No. 3-5, 9-10, 23-25, 27-28)	67
WTSA-04	31	14 (Res No. 42-55)	17	4 (Res No. 36, 37, 39, 41)	93
WTSA-08	49	21 (Res No. 56-76)	28	3 (Res No. 42, 46, 51)	139
WTSA-12	50 (+1)	6 (Res No. 77-82; Op No. 1)	44	5 (Res No. 17, 26, 53, 56, 63)	187
WTSA-16	60 (+1)	16	31	6	256*

[1] Resolution Number 30 was never used.

* page number of WTSA-16 proceedings

Suppressed Resolutions

1. Resolution 33 “Guidelines for ITU-T strategic activities”
2. Resolution 38 “Coordination among ITU-T, ITU-R and ITU-D for activities relating to IMT”
3. Resolution 57 “Strengthening coordination and cooperation among ITU R, ITU T and ITU D on matters of mutual interest”
4. Resolution 71 “Admission of academia to participate in the work of ITU-T”
5. Resolution 81 “Strengthening collaboration”
6. Resolution 82 “Strategic and structural review”

New Resolutions

[COM3/1] – Evaluation implementation of WTSA Resolutions

[COM4/1] - Cloud based event data technology

[COM4/2] - Protection of users of telecommunication/ICT services

[COM4/3] - Enhancing the non-radio aspects related standardization activities in ITU-T on international mobile telecommunications

[COM4/4] - International mobile roaming (IMR)

[COM4/5] - Enhancing access to an electronic repository of information on numbering plans published by ITU-T

[COM4/6] - Interconnection of 4G, IMT-2020 networks and beyond

[COM4/7] - Promoting use of ICTs to bridge financial inclusion gap

[COM4/8] - Strengthening and diversifying ITU-T resources

New Resolutions

[COM4/9] - Facilitating implementation of Smart Africa Manifesto

[COM4/10] - Enhancing the standardization of Internet of Things and Smart Cities & Communities for global development

[COM4/11] - ITU-T initiatives to raise awareness on best practices and policies related to service quality

[COM4/12] – ITU-T participation in periodic review and revision of ITRs

[PLEN/1] – ITU-T studies for combating counterfeit telecommunication/ICT devices

[PLEN/2] – Combating mobile telecommunication device theft

[PLEN/3] – Open source in ITU-T

New Resolutions

[COM4/2] - Studies concerning protection of users of telecommunication/ICT services

- ITU-T SG 3, with ITU-T SG 2, 12 and 17, to carry out studies including standards
- Invites Member States
 - consider creation of an enabling environment in which telecommunication operators can provide telecommunication/ICT services for their users, with the appropriate quality, level of confidence and security, and stimulating competitive, fair and affordable prices, and in order in general to protect users of telecommunication/ICT services
- invites Member States, Sector Members, Associates and Academia
 - Contribute and collaborate on implementing this Resolution

[COM4/3] - Enhancing non-radio aspects related standardization activities in ITU-T on international mobile telecommunications

- TSAG to coordinate among ITU-T SGs, encourage collaboration with other SDOs
- ITU-T SGs to report annually in ITU-T's standard strategy on IMT
- SG 13 to maintain roadmap of IMT, establish JCA IMT-2020
- SG 15 to promote studies on IMT's fronthaul and backhaul network standardization activities
- SG 11 to promote studies on non-radio aspects of IMT's signalling, protocol and testing
- SG 12 to promote studies on non-radio aspects of IMT service, QoS and QoE
- SG 17 to promote studies on IMT network and applications' security

[COM4/6] - Interconnection of 4G, IMT-2020 networks and beyond

- TSB Director to
 - identify and prioritize problems related to achieving interconnection of IP-based networks such as IMT2020 and beyond
 - Report to Council
- ITU-T SG11 to develop ITU-T Recommendations which specify the framework and signalling architectures for Interconnection of 4G, IMT-2020 networks and beyond
- ITU-T SG2 to develop ITU-T Recommendations which specify the ENUM architecture, including administrative control related to international telecommunication resources

[COM4/8] - Strengthening and diversifying ITU-T resources

- *resolves to instruct TSB Director 1 to study for possible new measures to generate additional revenue for ITU-T, including revenues that may be obtained from INRs and C&I testing.*

[COM4/9] - Facilitating implementation of Smart Africa Manifesto

- **TSB Director**
 - to establish mechanisms for collaboration and cooperation between ITU-T SGs and Smart Africa office in development of standards
 - to provide assistance to Smart Africa and Africa Regional Groups pilot projects of implementation of ITU standards;
 - to strengthen trainings and guide Smart Africa member states, partner industries and organizations in their adoption of ITU-T's standards

[COM4/10] - Enhancing the standardization of Internet of Things and Smart Cities & Communities for global development

- **ITU-T SG20 to**
 - develop ITU-T Recommendations, roadmap aimed at implementing IoT and SC&C on issues related to emerging technologies and vertical industries
 - collate, evaluate, assess and share IoT use cases for interoperability and standardization for data and information exchange
- **TSB Director to**
 - carry out pilot projects in cities related to the SC&C KPI assessment activities
 - continue to support the United for Smart Sustainable Cities Initiative (U4SSC)

[COM4/11] - ITU-T initiatives to raise awareness on best practices and policies related to service quality

32

- **ITU-T to**
 - develop Recommendations on performance, QoS and QoE
 - develop initiatives to raise awareness to inform users operators' QoS
 - provide references for national quality measurement framework
 - organize workshops, training programmes
- **TSB Director to**
 - continue support Quality of Service Development Group
 - conduct activities in each region
- **ITU-T SGs**
 - elaborate recommendations in defining strategies and testing methodologies to monitor and measure QoS and QoE
 - Study QoS and QoE evaluation scenarios, measurement strategies and testing tools, sampling methodologies for quality of service measurements at a local, national and global level
 - references about minimal satisfactory key performance and key quality indicators for evaluating QoS
 - Raise participation from all regions

[PLEN/1] - ITU-T studies for combating counterfeit telecommunication/ICT devices

- ITU-T SG11 be the lead study group
 - study existing/new reliable, unique, persistent and secure identifiers, in collaboration with ITU-T SG 2, 17 and 20, that have the potential to be used, including their scope of application and level of security in the context of their possible duplication/cloning;
 - to develop methods of assessing and verifying identifiers used for purposes of ...;
 - develop mechanisms for identifying production, unique identifiers
 - study possible solutions/frameworks to discover identity management information
 - identify a list of technologies/products, used for testing conformance with ITU-T Recommendations

[PLEN/2] - Combating mobile telecommunication device theft

- ITU-T to develop solutions to duplication of unique identifiers
- ITU-T SG11 to lead the combat against mobile telecommunication device theft
- ITU-T SG11 and 17 to study... draw up a list of identifiers used in mobile telecommunication/ICT device
- TSB Director
 - compile best practices
 - facilitate standardization, specifically regarding the exchange of identifier of mobile devices reported stolen or lost, and to prevent lost or stolen mobile devices from accessing mobile networks
 - Consult... to identify existing and future technological measures
 - Provide assistance to Member States upon request

[PLEN/3] - Open Source in ITU-T

resolves

- **TSAG**
 - continue to work on benefits and disadvantages of implementation of open-source projects in relation with ITU-T work
 - continue fulfilling of the outcomes of TSAG Report 8 concerning open source,
- all applicable ITU-T study groups, within available financial resources, to
 - 1 provide inputs to TSAG enquiries on open source;
 - 2 consider output from TSAG on open source;
 - 3 continue using open source as appropriate;
 - 4 support the use of open-source projects in their work,
 - 5 continue engaging with open-source projects,
- **TSB Director**
 - to provide open source related training (e.g. tutorials, seminars, workshops) to ITU-T participants

Modified Resolutions

Resolution 2 - Study Group responsibility and mandates

- ‘Human factors’ moved from SG2 to SG16
- ITU-T SG2 – operational impact of the Internet, convergence (services or infrastructure) and new services, such as OTT, on international telecommunication services and networks
- ITU-T SG3 – study international telecommunication/ICT policy and economic issues and tariff and accounting matters (including costing principles and methodologies), with a view to informing the development of enabling regulatory models and frameworks. Additionally, SG3 will study economic impact of the Internet, convergence ...
- ITU-T SG5 - Environment, climate change and circular economy

Resolution 2 - Study Group responsibility and mandates - continued

38

- ITU-T SG9 - 3D, multiview and high-dynamic range
- ITU-T SG11 - Signalling requirements, protocols, test specifications and combating counterfeit products
- ITU-T SG13 - Future networks with focus on IMT-2020, cloud-computing and trusted network infrastructures
- ITU-T SG20 - Internet of things (IoT) and smart cities and communities (SC&C)

Resolution 7 - Collaboration with the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC)

- invite TSB Director to review the agreement between ISO/IEC and ITU-T, with a view toward exploring options for accessing and publishing common texts, including a possible unified approach;

Resolution 68 - Evolving role of industry in ITU-T

- TSB Dir to
 - Continue to organize CTO Group meetings, communiqués
 - Encourage wide participation from industry from all regions in CTO Group meeting
 - Develop an effective mechanism to organize these meetings (e.g, by having a stable composition and regular participation)
 - Report to TSAG and next WTSA
- Encourage SM from developing countries to raise standardization priorities and needs of developing countries

Resolution 76 -

Studies related to conformance and interoperability testing, assistance to developing countries, and a possible future ITU Mark programme

- ITU-T
 - assist developing countries on C&I Pillar 3 d 4
 - improve mutual recognition between different regional testing centres
 - methodologies and procedures should be developed for remote testing using virtual laboratories
 - “7 that ITU can address ... promote... by means of having an ITU testing mark regime, and/or any revenue-generating possibilities,”
- to instruct TSB Director
 - to accelerate Pillar 1
 - publish annual plan of C&I activities
 - facilitate development and implementation of ITU-T C&I test laboratory recognition procedure

Resolution 76 - continued

- instructs ITU-T Conformity Assessment Steering Committee to study and define the ITU-T recognition procedure of Testing Laboratories, in collaboration with existing certification schemes such as IEC
- invite Member States and Sector Members
 - i) provide requirements for C&I testing activities;
 - ii) potential collaboration on future C&I activities;
 - iii) contribute to Product Conformity Database

Resolution 77 - Software defined networking

- instruct ITU-T SG 13
 - Continue JCA-SDN, and study SDN-related work programmes ((including virtualization of network functions, programmable networks and network as a service) in ITU-T SG, as well as in other SDOs
- Instruct ITU-T SGs (in addition to above)
 - continue and enhance collaboration/cooperation between SDOs and open-source software projects on SDN
 - Continue develop ITU-T SDN standards
 - consider the potential implications by the SDN orchestrator layer to ITU-T Operation Supporting System (OSS) related work
- Instruct TSAG
 - Continue coordination across ITU-T SGs and collaboration with SDOs
- Instruct TSB Director
 - Conduct workshops with other orgs, to organize annual SDN&NFV workshop with Open Source solutions representation to share SDN/NFV standard progress and real experience in current carrier network

IEEE 802 position

Summary

- WTSA was a political event that set the direction of ITU-T for the next four years.
 - There is minimal impact to the work of IEEE 802
 - However, resolutions on topics that could have a future impact include
 - Privacy & trust
 - Addressing (DOA/DONA)
 - Counterfeit/theft
 - Conformance and Interoperability