IEEE 802 EC
ITU standing committee

Glenn Parsons - Ericsson

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

November 2019

Mentor DCN: EC-19-0195-00-INTL 12-Nov-19

Agenda for November meeting

- Role of this standing committee
- IEEE membership in ITU
- IEEE-SA BOG activities with ITU
- Review outcome of past meetings
  - ITU-T Telecommunication Standardization Advisory Group (TSAG) – Oct 2019
- Review preliminary notable outcome of
  - ITU-R Radio Assembly– Nov 2019
  - ITU-R World Radio Conference – Nov 2019
- Review other future meetings
  - ITU-T World Telecommunications Standardization Conference – Nov 2020

Mentor DCN: EC-19-0195-00-INTL   12-Nov-19

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
- **Preperatory meetings for upcoming ITU events for IEEE**
  - Formalize current volunteer engagement
  - Summarize issues to de 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

Mentor DCN: EC-19-0195-00-INTL   12-Nov-19

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

- **Typically, volunteers get access under their company's membership**
- **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

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

Lauren Rava
Public Affairs Associate Manager
l.rava@ieee.org

IEEE-SA BOG International SDO advisory group

Chair: Jim Matthews

Scope

- **Provide guidance of the relationship between IEEE-SA and ITU, IEC and ISO**

- **2019 activities**
  - ???

ITU conferences - policy & governance

- **Recent conferences**
  - ITU-T TSAG (remote participant)

- **IEEE-SA staff to confirm additional attendance**

IEEE-SA Topics of interest in ITU

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

Mentor DCN: EC-19-0195-00-INTL   12-Nov-19

Ongoing ITU-T conferences

TSAG

- **Rapporteur Group on Strengthening Collaboration with other organizations**
  - Recently responsible for updating/creating Recs A.5, A.25 and A.Suppl.5
  - Instead of using A.25 for incorporation of text from other SDOs, A.1 contributions were used for oneM2M. This resulted in an adhoc collaboration process for oneM2M (documented in Y.4500.1 Annex L) and missed trademark issues.
  - Looking to develop a process to cover 3GPP
- **Copyright**
  - As a result of a TSDSI issue, ITU legal noted that PP Res 66 (resolves 4) effectively gives away all ITU IPR on its work products.
- **Open source**
  - Some members are requesting TSAG define a process to leverage open source communities.
- **Strategic Standardization**
  - The group is tracking hot issues (e.g., 5G, AI, OTT, IOT, …)

TSAG Sept 23-27, 2019
Summary

- **Telecommunication Standardization Advisory Group (TSAG)**
  - advisory body to the study groups, membership and staff of ITU-T
  - responsible for the working procedures defined in the A-series Recommendations and the organization of the ITU-T work programme.
- **Attendees ~150 participants.**

TSAG Rapporteur Group on Strengthening Collaboration & Working Methods

- Improve the collaboration process with other SDOs such that it is simplified for ITU-T
    - mutually respectful and supportive of those engaged in other SDOs.
- In 2018 TSB advised not using A.25 for incorporation of text from other SDOs – oneM2M used contributions per A.1.
    - This was concerning to many and resulted in the effort to clarify the A-series recommendations.
    - This included several key clarifications on intellectual property rights.
- TSAG will ask the IPR adhoc group to review the IPR guidelines to ensure their compatibility with Resolution 66 'Documents and Publications of the Union' (notably resolves 5), which was updated by the Plenipotentiary Conference in 2018.

Revision of A.1, A5, A.13 & A.25

- Revision of A.1, A.13, A.5 and A.25 approved
  - despite objections received from Russia, Saudi Arabia, UAE & China
- Notable clarifications include:
  - Contributors acknowledge that their contributions are free of restrictions (e.g., copyright)
  - The entry condition for text included in whole or in part from other organizations was clarified to be only through A.25.
  - Addition of A.5-referencing work from "partnership project" non-legal entities (e.g., 3GPP).
  - The call at the beginning of meetings was updated to "knowledge of intellectual property rights issues (http://itu.in/ipr), including patents, copyright for software or text, marks"
  - Update of A.5 & A.25 justifications to include "Intellectual property rights issues (patents, copyrights for software or text, marks)"
  - Deferred issue of updating IPR cover page, in the case of incorporation, to the Director's IPR adhoc

A.1 Published Working Methods

- **1.4.6** Chairmen will ask, during each meeting, whether anyone has knowledge of intellectual property rights issues, including patents, copyright for software or text, marks, the use of which may be required to implement or publish the Recommendation being considered. See http://itu.int/ipr

- **1.8.2.1 amendment**: Changes or additions to an already published ITU T Recommendation..

- **1.8.2.5 corrigendum**: Corrections to an already published ITUT Recommendation.

- **1.8.2.6 erratum**: Corrections of publication and editorial errors in an already published ITU-T Recommendation. An erratum is published by TSB with the concurrence of the study group Chairman, in consultation with other relevant parties.

- **1.8.2.7 normative reference**: The whole or parts of another document where the referenced document contains provisions which, through reference to it, constitute provisions to the referring document

A.1 Published Working Methods cont'd

- **3.1.5** A general patent statement and licensing declaration may be submitted using the form available at the ITU-T website.
- **3.1.6** By making a contribution, contributors acknowledge, to the best of their knowledge, that material such as text, diagrams, etc., submitted as their contribution to the work of ITU-T has no restriction in order to permit the normal distribution of this material for discussions within the appropriate ITU-T study groups and other groups and possible use, in whole or in part, with or without modification, in any resulting ITU-T Recommendations that are published (see [PP Res. 66]).
  - ▫ Restrictions include, but are not limited to, copyright ownership by other entities
- **3.1.7** If a contribution proposes to make normative reference to, or to incorporate text, diagrams, etc. from a document from a source qualified according to [ITU-T A.5], the source document should be clearly identified in the contribution, allowing [ITU-T A.5] or [ITU-T A.25] to be followed in the case the study group reaches consensus on such a proposal.

A.5 [Published](#) References to other organizations

- **6.2.4** Current information, if any, about intellectual property rights (IPR) issues (patents, copyrights for software, trademarks).
- **7.3** For the case of a proposed referenced document jointly owned by multiple organizations in a partnership project that is not a legal entity, the partnership project is considered to be qualified according to the criteria in Annex B if each organization is itself qualified according to the criteria in Annex B. A reference to the A.5 justification shall be included in any Circular announcing a TAP consultation or any announcement for an AAP Last Call.

A.13   Published Non-normative publications

- 3.12.1 **implementers' guide**: An informative (non-normative) document which records all identified defects (e.g., typographical errors, editorial errors, ambiguities, omissions or inconsistencies, and technical errors) associated with a Recommendation or a set of Recommendations and their status of correction, from their identification to final resolution.

- 3.12.2 **supplement:** An informative (non-normative) document which contains material which is supplementary to and associated with the subject matter of one or more Recommendations but which is not essential to their completeness or understanding and implementation.

- 3.12.3 **technical paper or technical report**: An informative (non-normative) publication containing technical information, prepared by a study group on a given subject within its mandate.

A.25 [Published](#) Incorporating text

- 6.1.1 An ITU T study group or ITU-T members may identify the need to specifically incorporate text (in whole or in part, with or without modification) from a draft or approved document from another organization within a draft ITU-T Recommendation (or another draft ITU-T document). The need to incorporate text may also be identified by the organization itself. ITU T study groups are strongly encouraged to incorporate approved text rather than draft text from other organizations, and, whenever possible, to incorporate text without modification.

- 6.1.2.4 Intellectual property rights issues (patents, copyrights for software or texts, trademarks), if any:. see clauses 6.2 and 6.3. See: http://itu.int/ipr

A.25 [Published](#) Incorporating text cont'd

- 6.1.3 As soon as the documents to be incorporated are received (see clause 6.2.2), they are made available, with the agreement of the study group chairman, and subject to the permission arrangements set out in clause 6.3 and to the copyright arrangements set out in clause 6.4, for advance consideration by the relevant group. They are issued, together with information about them (see clause 6.1.2), as a TD at a study group or working party meeting, normally at least one month before the start of the meeting at which the ITU-T Recommendation (or other ITU-T document) is planned for determination for TAP consultation, or consent for AAP last call (or agreement). When the other organization is responsible of producing new versions of the text (see clause 6.1.2.10), the draft resulting ITU-T Recommendation is notified by a circular at least three months before the start of the meeting at which the Recommendation is planned for determination for TAP consultation or consent for AAP last call.

A.25
Incorporating text   cont'd

- 6.1.6 The resulting ITU-T Recommendation (or ITU-T document) shall identify the incorporated text, and shall provide an explicit bibliographic reference to the document of the organization and to its particular version, as described in clause 6.4 of [ITU T A.5]. In case the text of another organization is incorporated in whole and without modification, the ITU-T Recommendation provides a bibliographic reference in the ITU-T Recommendation to the documents followed by a note indicating that the referenced text is technically equivalent to the ITU T Recommendation and that any IPR issue applicable to the text from the other organization (see clause 6.1.2.4) also applies to the ITU-T Recommendation. In all other cases, a normative reference is provided as described in clause 6.4 of [ITU T A.5].

- 6.1.7 The cover sheet of the resulting ITU-T Recommendation will draw the attention of implementers to potential notices of intellectual property received by the other organization as they may also apply to the ITU-T Recommendation.

TSAG Rapporteur Group on Strengthening Collaboration

- **Resolution 90**
  - (TSAG) continue to work on the benefits and disadvantages of the implementation of open-source projects in relation with the work of the (ITU-T)
- **Open source**
  - JTC1 indicated that its Open Source Software advisory group was reconstituted, and a survey initiated. A response to this survey was agreed that is high level and indicates that there are various challenges for ITU.
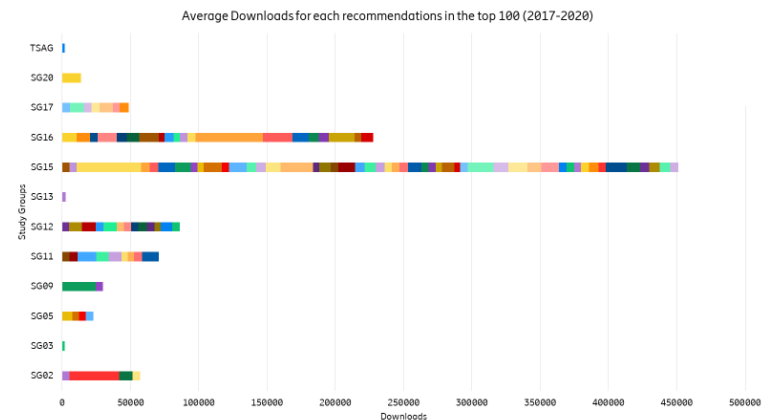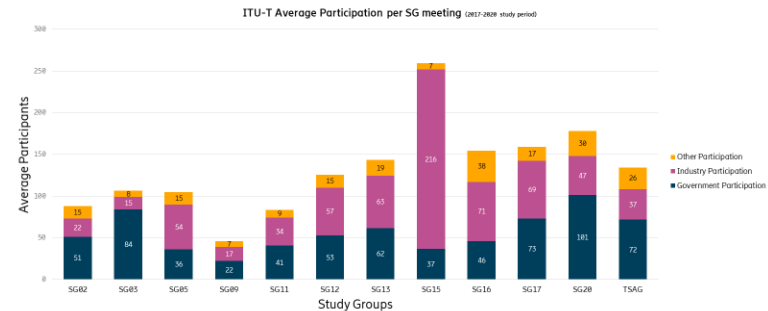
TSAG Rapporteur Group on Strategic Standardization

- Didier Berthoumieux (Nokia Finland) was the chair for this meeting and it will be Rim Belhassine-Cherif (Tunisie Telecom) for the next TSAG.
- Contributions from Japan, China and Ericsson highlighted the importance and value of metrics. The TSB collection and presentation will be discussed in RG-SS e-meeting.
- Symantec proposal for an Architecture Advisory Board (currently being trialed in SG17) was deferred to RG-SS e-meeting

TSAG C87 summary - metrics

- **ITU-T Metrics**
  - Compilation and correlation
- **Conclusion**
  - Industry participation has a clear impact to the value of ITU-T in the market
- **Next steps**
  - TSB evaluating automation of metrics, and compilation of results
  - Industry oriented ITU-T structure?

ITU-T average participation in SG meetings

ITU-T Average Participation per SG meeting (2017-2020 study period)

Average Downloads for each recommendations in the top 100 (2017-2020)

Mentor DCN: EC-19-0195-00-INTL   12-Nov-19

Ongoing ITU-R conferences

ITU-R Radiocommunication Assembly - background

- **RA-19 was held in Sharm El-Sheikh, Egypt from 21-25 October, immediately preceding WRC-19.**

- **RA-19 Goal**

  - establish the future work programme for the six ITU-R Study Groups

    - which address issues related to spectrum management, radiowave propagation, satellite services, terrestrial services, broadcasting services and science services, respectively.

RA-19 – notable process outcomes 1

- **Resolutions ITU-R 1-7: Working methods**
  - References were added to refer explicitly to relevant PP Resolutions on
    - deadlines for the submission of proposals to the RA (PP Res 165)
    - appointment and maximum term for chairmen and vice-chairmen (PP Res 208)
    - coordination among the three Sectors of the Union (PP Res 191).
- **Suppression of Resolution ITU-R 43 on the Rights of Associates**
  - reference made in a footnote to SMEs which meet the requirements of PP Resolution 209 to participate in the work of the Sectors of the Union as Associates.

RA-19 – notable process outcomes 2

- **Resolution ITU-R 1 addition on importance of enhancing inter-Sector coordination**
  - Mapping common areas of interest of work between ITU-D, ITU-T and ITU-R study groups
  - Two recent instances where the concept of collaboration has been challenged:
    - ITU-R SG1 and WTDC Resolution 9 on TV White Space
    - ITU-R SG1 and ITU-T SG3 on the spectrum sharing, i.e., proposed new draft Recommendation D.264

RA-19 – notable radio outcomes 1

- **Resolution 50 on the Role of the Radiocommunication Sector in the ongoing development of IMT, updated as proposed by WP 5D to highlight that various industry areas are utilizing IMT**
- **Revision of the Recommendation M.1036;**
  - Frequency arrangements for implementation of the terrestrial component of IMT in the bands identified for IMT in the Radio Regulations.

RA-19 – notable radio outcomes 2

- SG7 Recommendation on IMT and Earth Exploration Satellite Service (EESS) /Space Research Service (SRS) Coordination
  - Not approved. SG7 instructed to continue development taking into account comments from SG5 and SG3.
- SG 5 (which includes WP 5A and WP 5D) will continue to be chaired by Martin Fenton (Ofcom/UK) for a second term until 2023
- Cindy Cook (Canada) was elected as Chair for CPM-23.

World Radiocommunication Conference 2019 (WRC-19)

- Sharm el-Sheikh, Egypt, 28 October to 22 November 2019.
- WRC-19 goal
  - review and possibly revise the treaty-based Radio Regulations governing the use of the radio-frequency spectrum for terrestrial and satellite-based services
  - 3500 participants from almost 150 Member States
- In the WRC process only Member States have speaking rights
  - some international inter-governmental agencies can assist with technical views

WRC-19 topics

- identification of additional frequency bands for the future development of IMT and further enabling the rollout of IMT-2020/5G networks
- enabling of Earth exploration and meteorological-satellite systems to provide environmental monitoring, prediction and mitigation of the negative effects caused by climate change
- identification of spectrum to facilitate radiocommunication systems between train and trackside systems to meet the demands of a high-speed railway environment
- set the agenda for the next Conference, expected to take place in 2023.

WRC-19 notable agenda items

- **1.12 ITS in the Mobile Service**
  - Proposing alignment with ITU-R M.2121
- **1.13 IMT-2020 (5G)**
  - No change approved for bands 31.8 – 33.4 GHz, 47.0 – 47.2 GHz, 71.0 – 76.0 GHz and 81.0 – 86.0 GHz , other bands still in progress
- **1.16 RLAN (Wi-Fi) at 5 GHz**
  - No change approved for bands 5250 – 5350 MHz, 5350 – 5470 MHz, 5850 – 5925 GHz, other bands still in progress
  - Outdoor usage proposed for band 5150 – 5250 MHz
- **9.1.5 Radar Foot Notes (FNs)**
  - Compromise to amend the footnotes in discussion
- **9.1.8 Machine-type communication (MTC)**
  - No Change – Approved in Plenary

Mentor DCN: EC-19-0195-00-INTL   12-Nov-19

Future ITU-T conferences

ITU-T WTSA

- **World Telecommunication Standardization Assembly**
  - held every four years
  - defines the next period of study for ITU-T
  - elects leadership of Study Groups
- WTSA-20 will take place in Hyderabad, India, 17-27 November 2020
- Global Standards Symposium - 16 November 2020.

ITU Regional Preparations

<u>CITEL</u>: Inter-American Telecommunication Commission – North, Central and South America, and the Caribbean – 34 Member States except Cuba – Conf. Doc. 63 + Adds.

<u>CEPT</u>: European Conference of Postal and Telecommunications Administrations – 48 countries of the European region – Conf. Doc. 48 + Adds.

<u>ATU</u>: African Telecommunications Union – 46 Member States of the African region – Conf. Doc. 55 + Adds.

<u>APT</u>: Asia-Pacific Telecommunity – 38 Member States of the Asia-Pacific region – Conf. Doc. 64 + Adds.

<u>RCC</u>: Regional Commonwealth in the field of Communications – 17 Member States comprising the Russian Federation and former Soviet republics – Conf. Doc. 62 + Adds.

<u>League of Arab States</u> – 21 Arab States in and around North Africa, the Horn of Africa and Arabia – Conf. Doc. 72 + Adds.

IEEE 802 position

Summary

- ▫ **The various ITU conferences for this year were reviewed.**