



# IEEE 802 EC ITU standing committee

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# November meeting agenda

- **Background**
  - Role of this standing committee
  - IEEE membership in ITU
- **Update on IEEE-SA BOG activities with ITU**
- **Review outcome of past meetings**
  - ITU GSR – Sept 2020
  - ITU WSIS+15 – Sept 2020
  - ITU-T TSAG – Sept 2020
    - IEEE contribution supporting IEEE 802
- **Review future meetings**
  - ITU Council – November 2020 *virtual consultation*
  - ITU-T WTSA – Feb 2021 *(or beyond)*

# 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

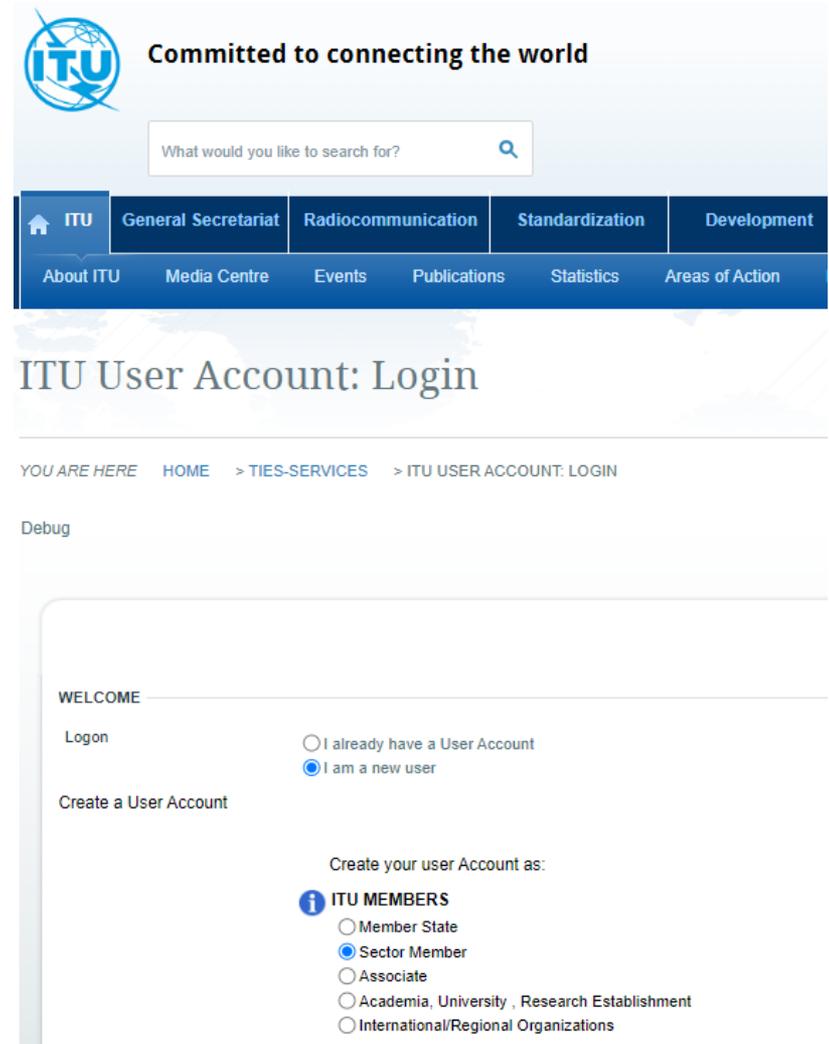
# IEEE membership in ITU

# 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

- 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
  - <https://www.itu.int/en/ties-services/Pages/login.aspx>



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**ITU MEMBERS**

Member State  Sector Member  Associate  Academia, University, Research Establishment  International/Regional Organizations

# 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

**Karen McCabe**

**Senior Director, Public Affairs and Marketing**

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# IEEE-SA BOG SDO Engagement ad hoc

# Organization

- **Reports to Standards and Standards Innovations SMDC of the IEEE-SA BOG**
- **Membership**
  - Chair – Glenn Parsons
  - Paul Nikolich
  - Other BOG members
- **Scope**
  - Provide strategic guidance to the IEEE SA BoG with respect to the relationship between IEEE SA and IEC, ISO, ITU, and regional Standards Development Organizations including a comparative assessment of the strengths and weaknesses of IEEE SA with respect to these organizations.

# ITU conferences - policy & governance

- **Preparation underway**
  - ITU-T engagement including analysis of WTSA resolutions
  - Coordination with ISOC
- **Recent attendance**
  - ITU-T TSAG – September 2020
- **Future conferences**
  - ITU-T WTSA – February 2021

# New IP

- **Future Network 2030 Focus Group (FG-NET 2030)**
  - Presented to ITU-T TSAG - see [TD 757](#)
  - New IP is positioned as a top-down architecture to solve a number of use cases in the FG.
  - SG13 is gaining the attention of many Member States by including the topic in its proposed work plan
    - This is seen as a threat to the underlying protocols, naming/number, and architecture of the Internet
- **IEEE-SA collaborating with ISOC on assessment**
  - IETF sent a [liaison](#) to TSAG in March
  - Internet Society issued a discussion paper, [“An analysis of the ‘New IP’ proposal to the ITU-T.”](#) in April

# What is New IP?

## FG-2030 Use Cases

- Holographic type communications (HTC)
- Tactile Internet for remote operations (TIRO)
- Intelligent operation network (ION)
- Network and computing convergence (NCC)
- Digital twins (DT)
- Space-terrestrial integrated network (STIN)
- Industrial IoT (IIoT) with cloudification



## New IP solution

- Advanced IP Backhaul Transport for 5G, B5G, and even 6G
- Requirements and New Capabilities from Network 2030
- Emerging industry verticals, for example, remote driving and operation, cloudified PLC, industrial IoT, industrial control and intelligent operation network
- Technical Aspects of Privacy, Trust and Intrinsic Security

# IEEE 802 position - Aug 2020

The IEEE 802 LAN/MAN Standards Committee (LMSC) develops and maintains networking standards and recommended practices for local, metropolitan, and other area networks, using an open and accredited process, and advocates them on a global basis. In order to ensure consistent global impact of standardization and increase awareness of the ecosystem related to network implementation and operation, IEEE 802 maintains liaison relationships with other groups. Communication is key to a healthy working relationship, fostering an understanding of the working methods of the different groups and thereby aiding efficient and non-duplicative standards development. This is important for global interoperability. IEEE 802 is engaged in standardization efforts that are integral building blocks of the Internet and private networks. Any standardization efforts investigating the evolution, or a revolution related to the Internet, Internet Protocol, or how the Internet or Internet Protocols leverage IEEE 802 standards or ongoing development is of interest to the IEEE 802 LMSC and we request coordination.

# Next steps for 802 position

- Request IEEE-SA to indicate this position to ITU-T on LMSC's behalf.
  - IEEE-SA is a peer SDO with ITU-T
- Requested through BOG SDO adhoc – Aug 10
  - Position developed by staff with 802 input
  - Submitted as C156
    - ITU-T TSAG (Sept 2020)
    - Presented by Karen McCabe to TSAG plenary on Sept 24<sup>th</sup>
    - Several (SA, RU, CN) agreed with the IEEE contribution and welcomed collaboration.

# Recent ITU conferences

# ITU-T TSAG - September 2020

- **Inter-regional meeting**
  - **WTSA Resolutions review ([TD852](#))**
- **Notable issues**
  - **TSB will improve metrics with charts & correlations ([TD792](#))**
  - **ITU-T joining oneM2M as a partner type 1**
  - **Restructuring of ITU-T study groups ([TD842](#))**
    - **Several propose reduction of 3 or 4 SGs, a few no change**
  - **New IP – creation of new work/questions in SG11 & SG13**
    - **aka "Future Vertical Communications Networks and Protocols (FVCN)", Network 2030**
    - **workshop proposed between ITU-T, IETF, and IEEE on the future network related topics.**
    - **TSAG informed SG11 & SG13 of its discussion ([TD913](#))**

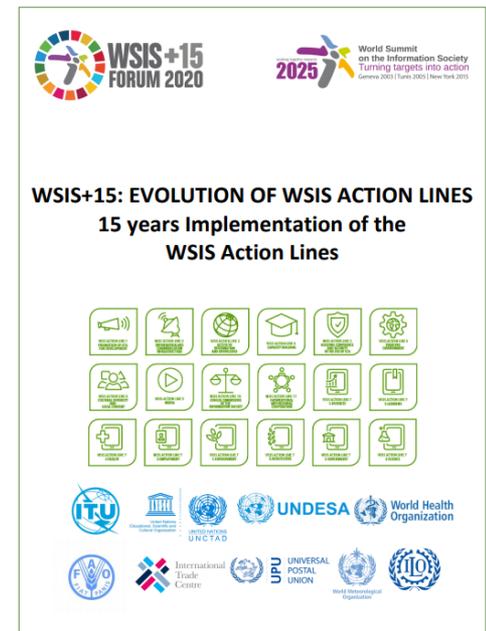
# Global Symposium for Regulators

- **Core sessions of GSR - 1 to 3 September 2020 online**
  - Leadership Debate
  - Special Regulatory Roundtable
  - Regional Regulatory Roundtable
- **Best Practice Guidelines proposed reforms**
  - Agile framework for competition in digital markets
  - Codes of conduct (voluntary or enforceable)
  - Upgrading national emergency plans
  - Spectrum reform
- **Chair's Conclusion**
  - “as the pace of digital transformation accelerates, developing an effective regulatory approach is more vital than ever.”



# WSIS+15 - Virtual WSIS Forum 2020

- **World Summit on the Information Society**
  - discuss the role of ICTs to implement the UN Sustainable Development Goals
  - 12 week agenda - concluded 7-10 September
- Highlights
  - UN Group on the Information Society (UNGIS) reiterated commitment to the WSIS Action Lines implementation and alignment of the WSIS and SDG processes
  - Strengthened the engagement with ITU Study Groups in line with the WSIS Process



# 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.
  - Responsible for the work programme between WTSA
- Virtual arrangement – 21-25 September
  - ~300 participants online (double previous attendance).
  - time limitations of 3 hours per day
  - TSAG work continues within Rapporteur Groups

# Future ITU conferences

# ITU Council

- **The Council acts as the Union's governing body in the interval between Plenipotentiary Conferences.**
- **Its role is to consider broad telecommunication policy issues to ensure that the Union's activities, policies and strategies fully respond to today's dynamic, rapidly changing telecommunications environment.**

# ITU Council - November 2020

- **Postpone WTSA-2020 (originally 17-27 November 2020)**
  - **At the last virtual Council, India proposed February 23 to March 3, 2021**
    - It took 3 months (via consultation) to agree
  - **India now proposes 1 -11 March 2022**
    - TSB notes current leadership/structure remains in place and TSAG has delegated power
  - **Russia proposes late 2021**
  - **Canada and US propose a virtual limited-agenda WTSA in Q1 2021**
- **Preparation for the World Telecommunication Policy Forum to 2022**
  - **Back-to-back with WSIS Forum in June 2022**
- **New headquarters premises project**
  - **Staff relocation - 2022**
  - **Demolition – 2023**
  - **Construction - 2024 – 2026**

# ITU-T WTSA

- **World Telecommunication Standardization Assembly**
  - (usually) held every four years
  - defines the next period of study for ITU-T
    - Including structure of Study Groups, work program of questions and direction from resolutions
  - elects leadership of Study Groups
- **WTSA-20 will take place in Hyderabad, India**
  - Originally 17-27 November 2020
  - Proposed postponement to 2021 or 2022
- **Global Standards Symposium**
  - Leader forum of SDOs immediately preceding

# ITU Regional Preparations

**CITEL**: Inter-American Telecommunication Commission – North, Central and South America, and the Caribbean – 34 Member States except Cuba

**CEPT**: European Conference of Postal and Telecommunications Administrations – 48 countries of the European region

**ATU**: African Telecommunications Union – 46 Member States of the African region

**APT**: Asia-Pacific Telecommunity – 38 Member States of the Asia-Pacific region

**RCC**: Regional Commonwealth in the field of Communications – 17 Member States comprising the Russian Federation and former Soviet republics .

**League of Arab States** – 21 Arab States in and around North Africa, the Horn of Africa and Arabia

# IEEE 802 summary

- **Regarding ITU-T and proposals made in the context of their next study period, there are topics of interest/concern for IEEE 802.**
  - **IEEE 802 standards are a building block of the Internet and many other Private Networks, so any SDO that is working at L2 or L1 should (at least) coordinate with IEEE 802.**
- **The details should be communicated with IEEE 802 WGs for discussion.**