ITU-T Liaison

2024-11 Summary (v2)

Work related to IETF

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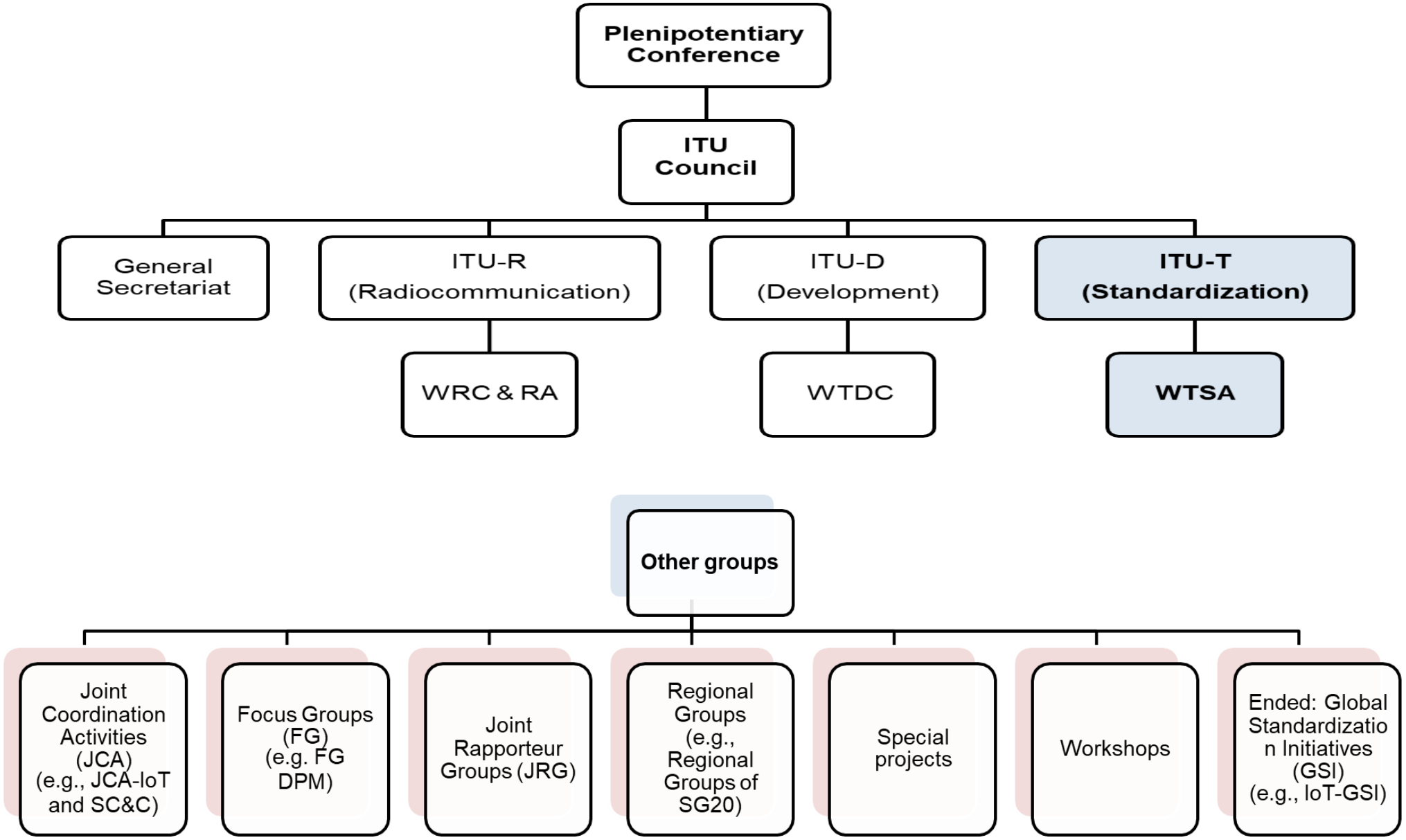
Why Does This Matter?

- International Treaty and Standardization
  - Contribution Driven
  - Industry Engagement
  - Not a Research Organization
- Takeaways
  - Top-Down messaging important
  - Political and Technical monitoring and engagement is needed

Introduction (use the links!)

- Structure of the ITU
  - Sectors and Organization Conferences
  - Leadership
- ITU-T
  - Structure
  - Study Groups
  - Representative Participation
- WTSA 2025-2028
  - Leadership
  - Study Group Restructuring
  - Resolutions
- Current Topics
  - Hot Topics
  - Liaisons from the past year
- Summary

ITU Structure



ITU Structure (Elected Officials)

ITU elected officials 2023-2026

Doreen Bogdan-Martin
of United States:
Secretary-General of ITU

Tomas Lamanauskas of Lithuania:
Deputy Secretary-General

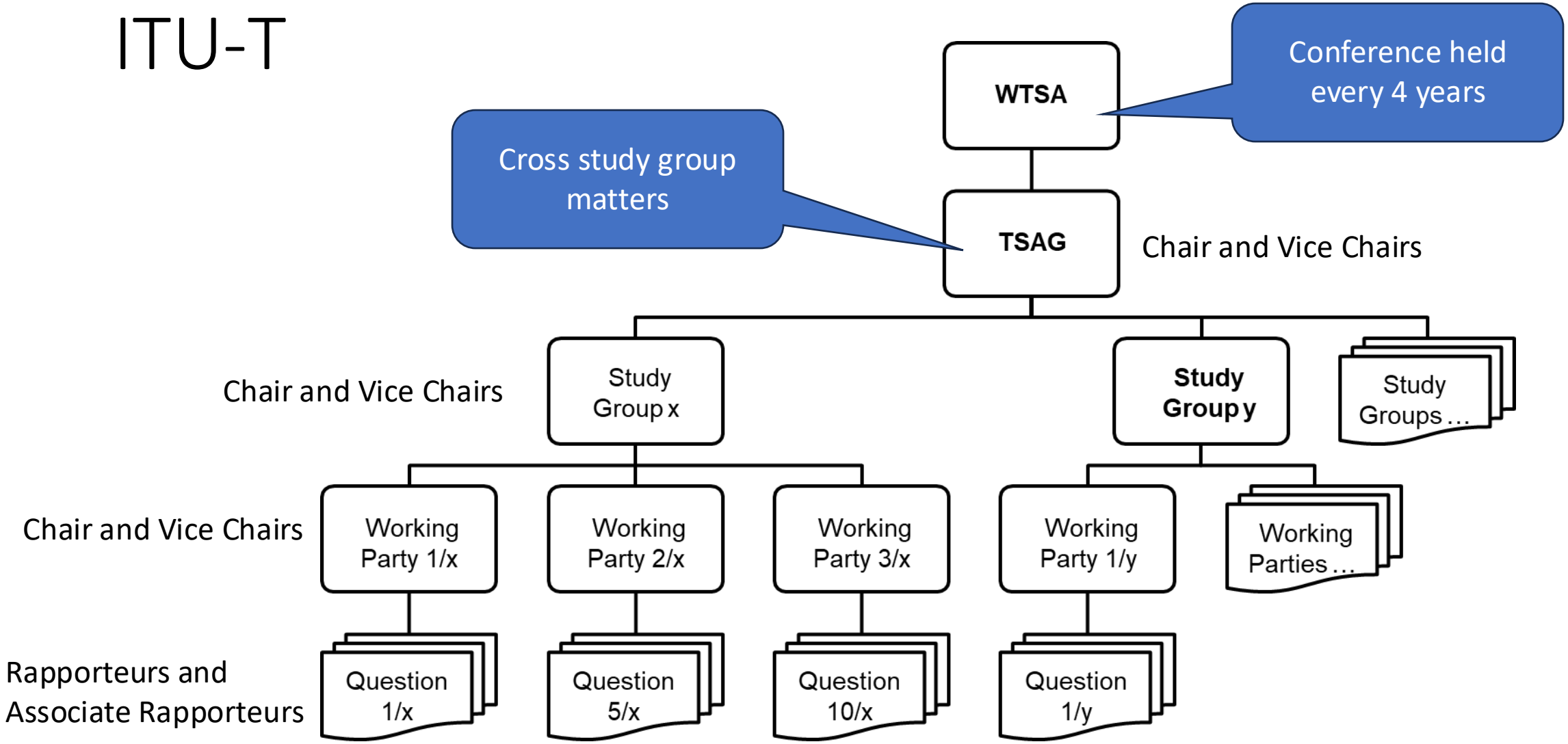
Directors of the three Bureaux

Mario Maniewicz
of Uruguay:
Radiocommunication
(ITU-R)

Seizo ONOE
of Japan:
Standardization
(ITU-T)

Cosmas Luckyson Zavazava
of Zimbabwe: Development
(ITU-D)

ITU-T

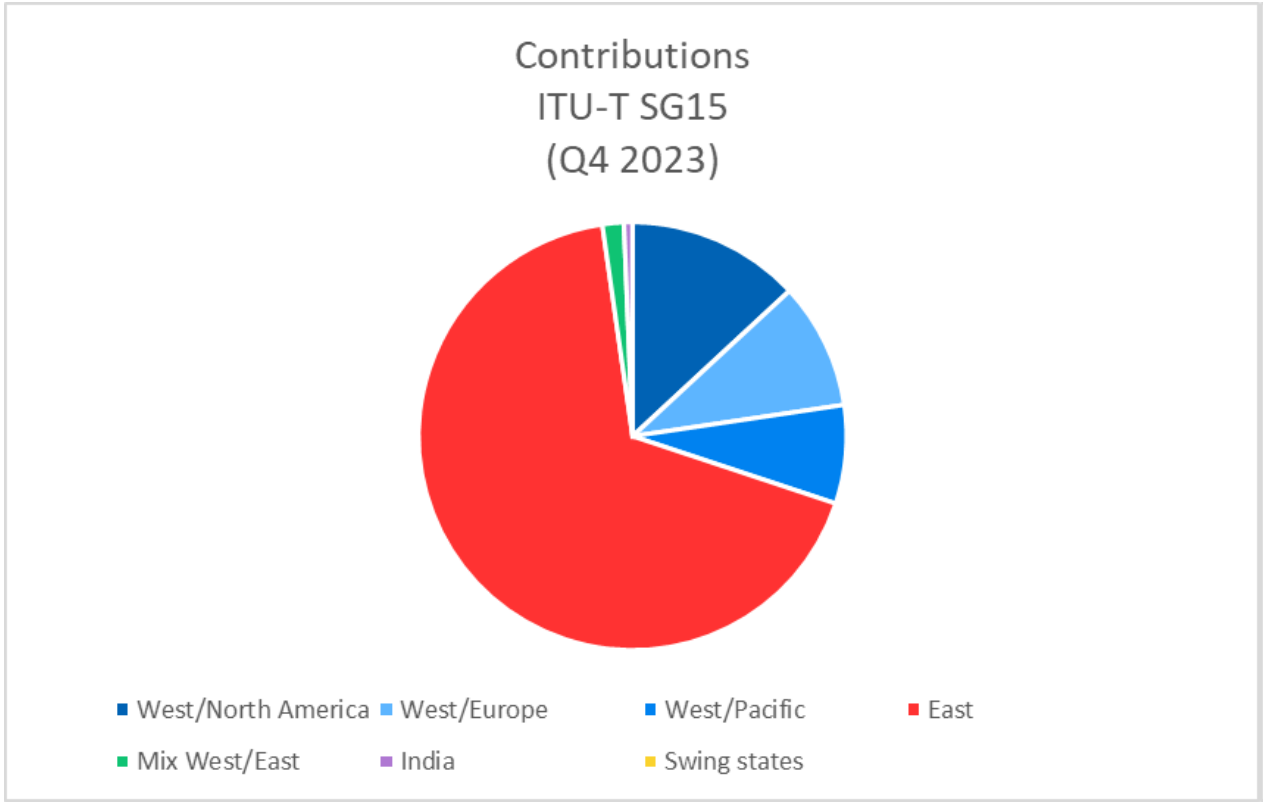

WTSA
Conference held every 4 years
Cross study group matters
TSAG
Chair and Vice Chairs
Chair and Vice Chairs
Study Group x
Study Group y
Study Groups …
Chair and Vice Chairs
Working Party 1/x
Working Party 2/x
Working Party 3/x
Working Party 1/y
Working Parties …
Rapporteurs and Associate Rapporteurs
Question 1/x
Question 5/x
Question 10/x
Question 1/y

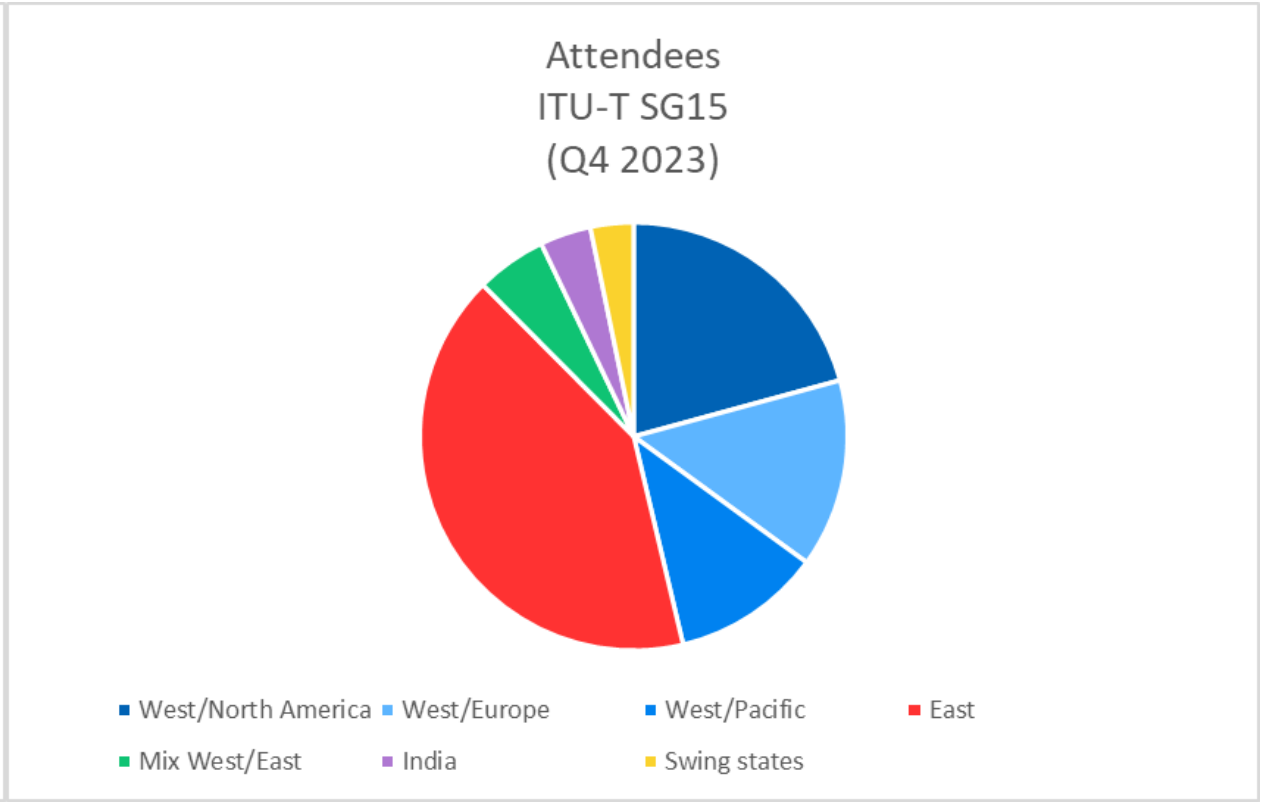
ITU-T Study Groups (New! From WTSA-24)

- SG2 - Operational aspects telecommunications and ICTs
  - Ms. Ena DEKANIC USA
- SG3 - Tariff and accounting principles and international telecommunication/ICT economic and policy issues
  - Mr. Ahmed SAID Egypt
- SG5 - Environment, climate action, circular economy, and electromagnetic fields
  - Mr. Dominique WÜRGES France
- SG11 - Signaling requirements, protocols, test specifications and combating counterfeit telecommunication/ICT devices
  - Mr. Tejpal SINGH India
- SG12 - Performance, quality of service and quality of experience
  - Ms. Tania VILLA TRÁPALA Mexico
- SG13 - Future networks and emerging network technologies
  - Mr. Kazunori TANIKAWA Japan
- SG15 - Networks, technologies and infrastructures for transport, access and home
  - Mr. Glenn Parsons Canada
- SG17 – Security
  - Mr. Arnaud TADDEI United Kingdom
- SG20 - Internet of Things digital twins and smart sustainable cities and communities
  - Mr. Hyoung Jun KIM Republic of Korea
- SG21 - Technologies for multimedia, content delivery and cable television
  - Mr. Noah LUO China

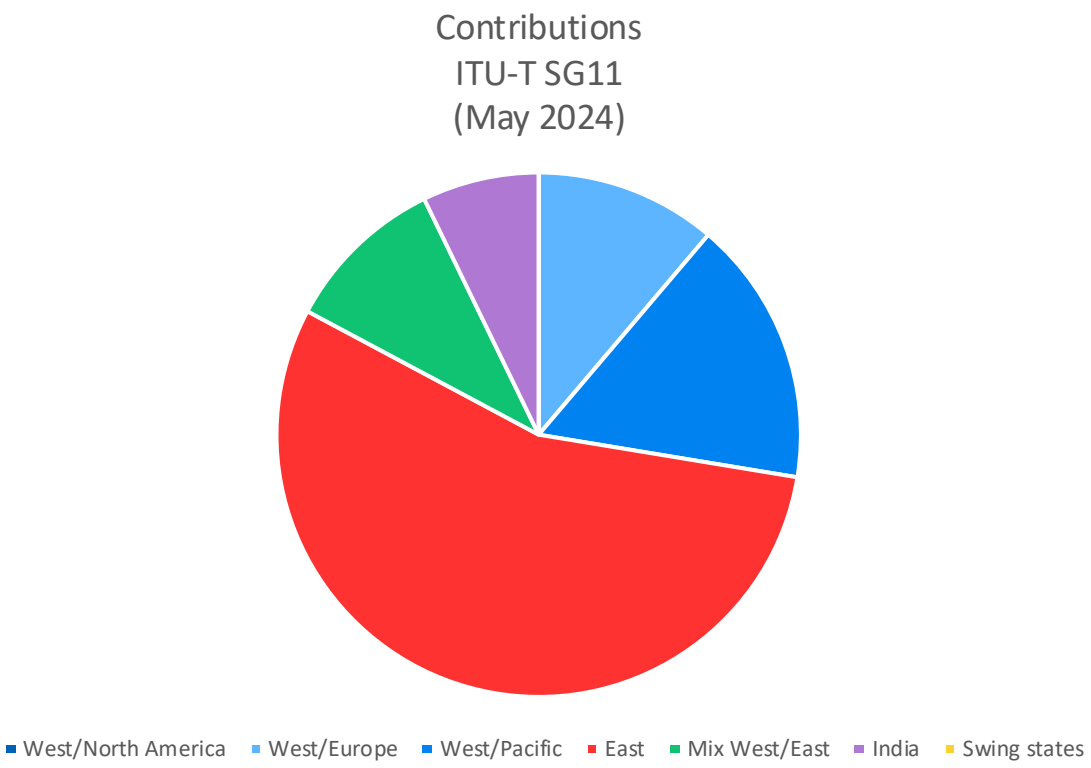
ICT: Information and Communication Technology

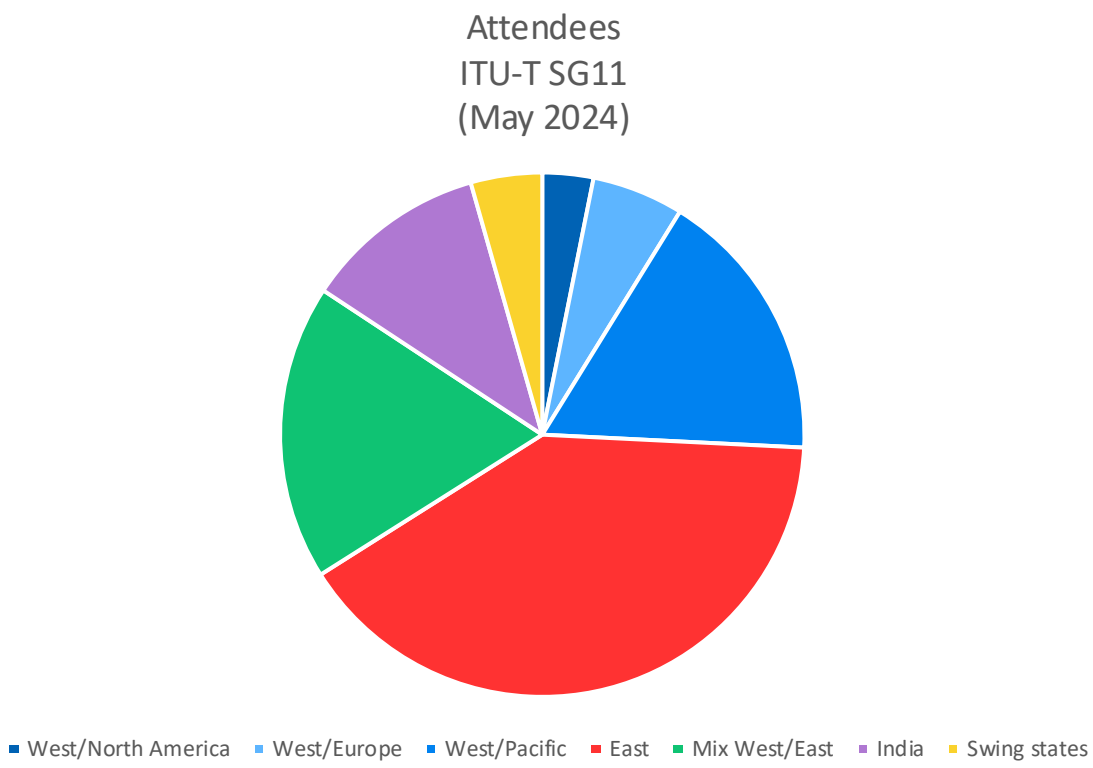
Representative participation ITU-T SG15





Representative participation at ITU-T SG11





WTSA

World Telecommunication Standardization Assembly (WTSA-24)
New Delhi, India, 15 – 24 October 2024

- IETF Chair presentation during Global Standards Symposium
  - GSS Conclusions
  - International AI Standards Summit (Roman Danyliw spoke)
    - See index 41:20 of the International AI Standards Summit archive recording
- Output
  - Draft Proceedings
  - Resolutions
    - RES 50 on Cybersecurity
    - RES 68 on the Evolving Role of Industry
    - RES 90 on Open Source
    - New Resolution on AI
    - New Resolution on Non-Terrestrial Networks
  - Study Group Mandates

ITU-T SG Mandates of interest to IETF

- SG2 (Operational Aspects)
  - Identity management and Identification related to IoT
- SG3 (Economic and Policy Issues)
  - For international telecommunication/ICT
    - Tariff and accounting principles
    - Economic issues
    - Policy issue
- SG5 (Environment, EMF, Efficiency)
  - Energy Efficiency, Clean Energy
- SG11 (Protocols, testing and combating counterfeiting)
  - Non-radio part of IMT-2030
  - Combatting Counterfeiting and Stolen ICT equipment

ITU-T SG proposals (continued)

- SG12 (Performance, QoS and QoE)
  - Quality of service and quality of experience
- SG13 (Future networks)
  - Quantum Communications and Quantum Networks
  - Fixed-mobile and satellite convergence
  - FG on Artificial Intelligence Native for Telecommunication Networks (AINN)
- SG15 (Transport, access and home)
  - Access Network Transport
  - Home Networking
  - Optical Technology

ITU-T SG proposals (continued)

- SG17 (Security)
  - Security Model, Framework, Architecture and Lifecycle
  - Cybersecurity and Service
  - End-device, Edge, Network, Cloud, and Application Security
  - Identity Management
  - Directory, PKI, formal languages, object identifiers
- SG20 (IoT, smart cities and communities)
  - Internet of Things (including identification)
  - Smart sustainable cities and communities (SSC&C) and related digital services, including effective energy management, digital twins and metaverse

ITU-T SG proposals (continued)

- SG21 (Multimedia and digital technologies)
  - Multimedia technologies
  - IP-based television
  - Automotive-related intelligent services
- TSAG (Standardization Advisory Group)
  - Liaison Arrangements
  - Cross Study Group Coordination
  - Development of Standards
    - Tooling
    - Gap Analysis
    - New Work Initiation
  - Industry Engagement

Current Topics

- Next Plenary Meetings
- Coordination
- Liaisons

Next Meetings

- SG13: 3-14 March 2025 (Next Generation Networks)
- SG15: 17-28 March 2025 (Transport Equipment)
  - First week conflicts with IETF 122
- SG17: 7-17 April 2025 (Security)
- TSAG: 26-30 June 2025 (Steering Group)
- WTDC-25: 17-28 November 2025, Baku, Azerbaijan (Development Sector)
- PP-26: 9-27 November 2026, Doha, Qatar. (Plenipotentiary)

Coordination

- Coordination
  - Established ad hocs or eMeetings that bring multiple groups together to ensure coordination.
- Works if there are people from all the organizations involved and a sharing mechanism is agreed.
- Examples:
  - IM/DM Coordination meetings hosted by ITU-T SG15
  - Informal gathering of modeling experts hosted by Linux Foundation ONMI (used to be ONF)

Matters of Coordination

- YANG at Scale
  - Brought up by Broadband Forum, communication between ITU-T SG15, IEEE 802.1 and liaison coming to IETF NETMOD.
  - Topic: Performance of YANG and NETCONF when there are large numbers of instances (10,000+). Broadband Forum has a technical presentation describing the issue
- Time Synchronization
  - IEEE 1588, IEEE 802.1 and ITU-T Q13/15 and ITU-T Q14/15 have been working new PTP and SyncPhy work that replaces the work done by the IETF for the 2008 version of IEEE 1588. IEEE 1588-2019 enhances IEEE 1588-2008 (which is kept for backward compatibility). There is now YANG and YANG profiles for Transport Equipment and Time Sensitive Networking applications.

Liaisons

- Liaisons are formal communication between organizations by letter/eMail.
- Some Issues:
  - Silence is seen as consent (Even on Informational Liaisons)
  - New Work Items are liaised only after the fact
  - Efforts to engage in discussion beforehand are considered "unofficial" and do not influence those with an agenda to start new work.
- Bottom Line:
  - Individuals/Delegates working in both organizations within their respective rules works best (but starting New Work is still an issue in the ITU-T in cases of overlap)

Liaisons

- Several liaisons on new work starting
  - Timing is that IETF is only notified after the new work has started
  - Working methods are significantly different between the organizations
    - Unless there is a resource that can operate effectively in both organizations, collaboration is difficult.
    - Collaboration by liaison is inefficient, especially if there is no one in the receiving organization that can champion the work
  - Need to continue to explain that silence is NOT consent
- Below is a table of the liaisons since IETF 118

Bottom Line

- Industry Recognized Center of Competence
  - Gap Analysis
- Early Identification of overlap
  - Currently requires individuals engaged since liaisons are not sent until after new work has started
- Avoiding conflicts will require more than liaisons
  - Leadership discussions
  - Coordination meetings