ITU-T SG15 Liaison Report

13 May 2024
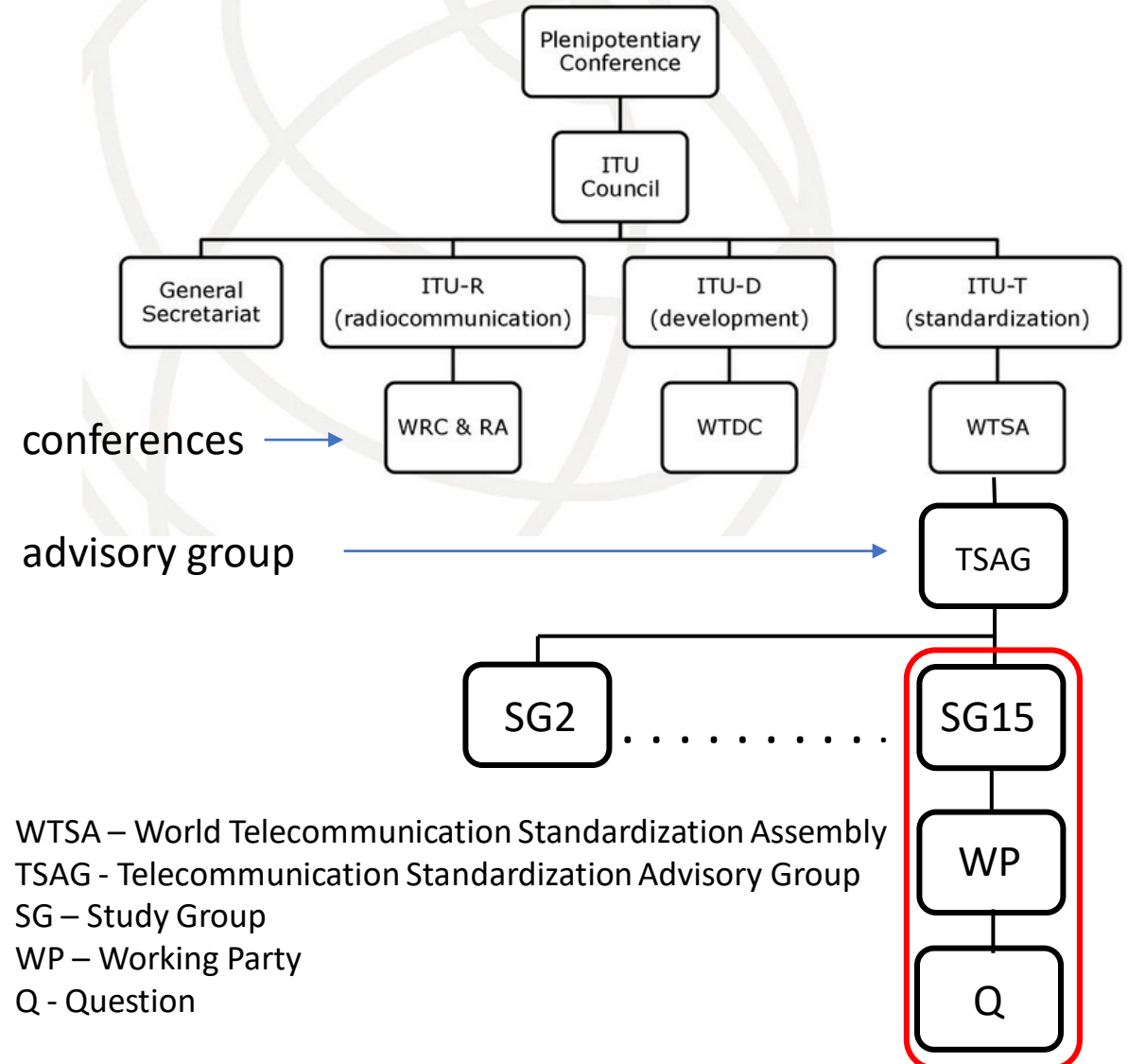
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ITU-T SG15 Liaison Officer

ITU high level structure

ITU Structure and organization

- ITU is an organization of the UN
  - Structure and scope of work for ITU-T study groups as well as SG leadership, is refreshed on a 4-year cycle via WTSA
  - Leadership at the WP and Question level is determined by the SG chair

- Documents
  - Normative standards are referred to as Recommendations
  - Informative documents are Supplements or Technical Reports

conferences ⟶

advisory group ⟶
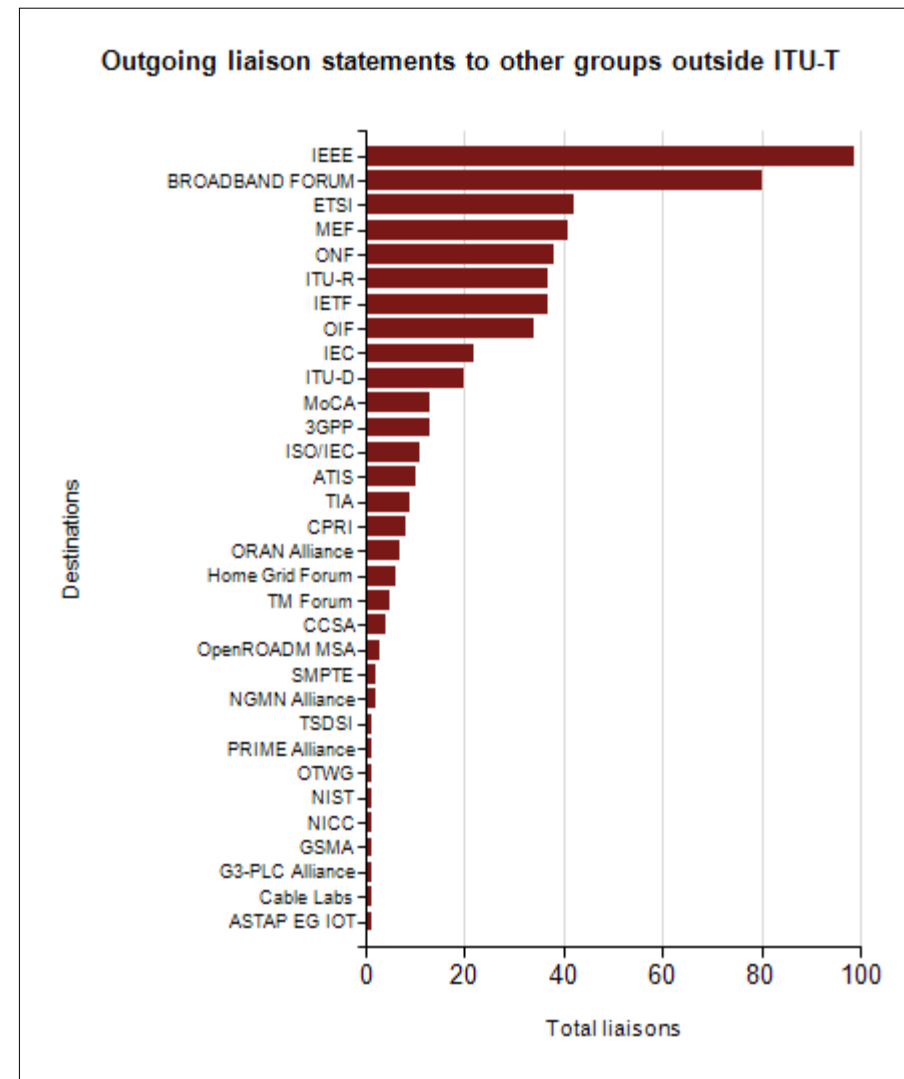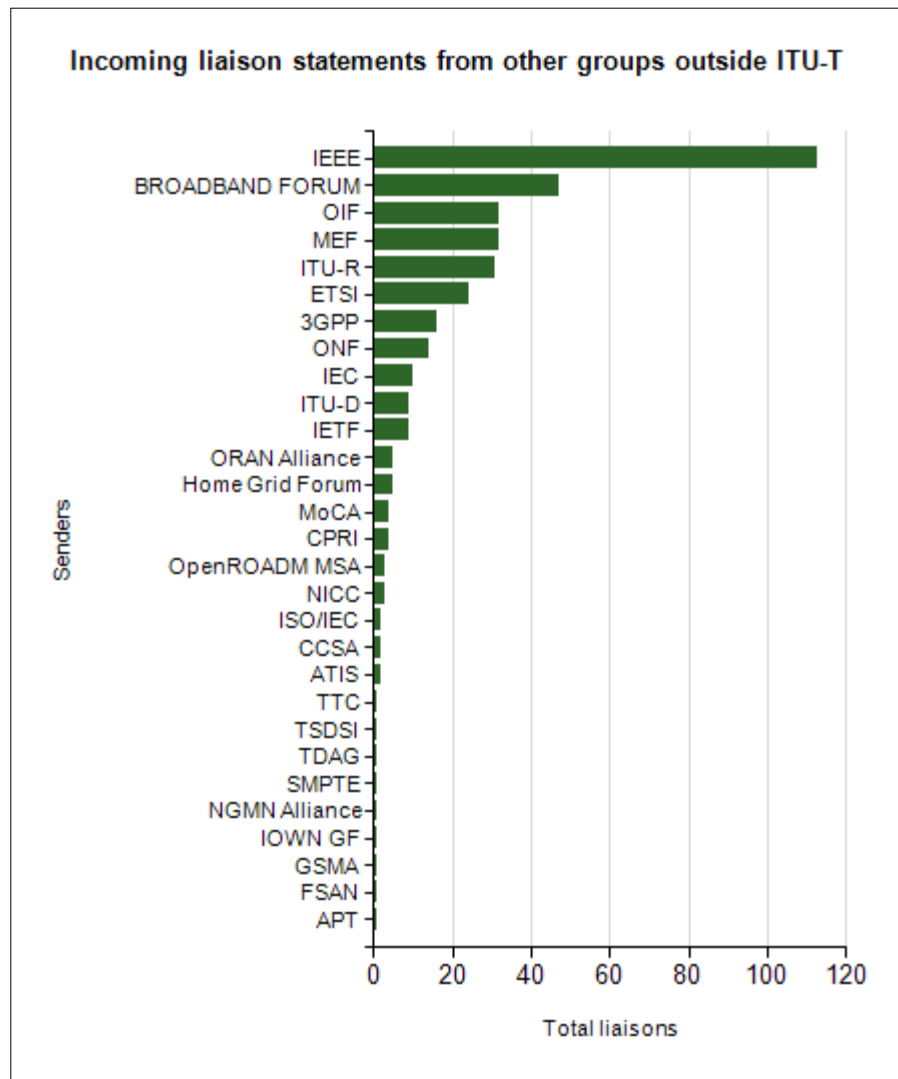
WTSA – World Telecommunication Standardization Assembly
TSAG - Telecommunication Standardization Advisory Group
SG – Study Group
WP – Working Party
Q - Question

ITU-T SG15 structure

Question	Question title
1/15	Coordination of Access and Home Network Transport Standards
2/15	Optical systems for fibre access networks
3/15	Technologies for in-premises networking and related access applications
4/15	Broadband access over metallic conductors
5/15	Characteristics and test methods of optical fibres and cables, and installation guidance
6/15	Characteristics of optical components, subsystems and systems for optical transport networks
7/15	Connectivity, Operation and Maintenance of optical physical infrastructures
8/15	Characteristics of optical fibre submarine cable systems
10/15	Interfaces, interworking, OAM, protection and equipment specifications for packet-based transport networks
11/15	Signal structures, interfaces, equipment functions, protection and interworking for optical transport networks
12/15	Transport network architectures
13/15	Network synchronization and time distribution performance
14/15	Management and control of transport systems and equipment

WP1/15 — Questions 1/15 through 4/15
WP2/15 — Questions 5/15 through 8/15
WP3/15 — Questions 10/15 through 14/15

WP: Working Party

SG15 collaboration within the ecosystem

Incoming liaison statements from other groups outside ITU-T

Outgoing liaison statements to other groups outside ITU-T

Joint Q2/15, Q5/15, Q6/15 correspondence G.652 Fiber

- At the recent Q6/15 meeting, it was agreed that it is possible to satisfy the 802.3 requests for dispersion data in tabular form and for different confidence levels

- Work will continue until the next SG15 meeting (1-12 July), with data expected to be provided from that meeting

- General agreement to produce an informative document discussing an idealized statistical model of link parameters

Other work items of potential interest (1)

- Q2/15
  - G.9806: Higher speed bidirectional p2p optical access system (HS-PtP)
    - 100 Gb/s per wavelength (very similar to P802.3dk)
  - G.sup.VHSP: Very high speed PON
    - 200-250 Gb/s per wavelength over a p2mp network with ~32 dB of link loss
- Q6/15
  - G.698.2: Amplified multichannel dense wavelength division multiplexing applications with single channel optical interfaces
    - Revision to add 800G interfaces, including Transmitter Quality Metrics (e.g., EVM or TCC)

Other work items of potential interest (2)

- Q11/15
  - OTN and FlexO evolution to beyond 1 Tb/s (G.709[.x], G.798)
    - 800GBASE-ER1[-20] is based on FlexO frame formats
    - OTN transport of Ethernet is important for long haul and L1/L0 networking applications
- Q13/15 – ongoing work on PTP transport over Ethernet
- Q14/15 – ongoing work on YANG models
  - Monthly coordination calls among all interested SDOs/MSAs