

Report of the First ITU-T TSAG Meeting for the 2022–2024 Study Period

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Abstract

The first Telecommunication Standardization Advisory Group (TSAG) meeting for the 2022–2024 study period of the International Telecommunication Union - Telecommunication Standardization Sector (ITU-T) was held from 12 to 16 December 2022 in a hybrid format at ITU Headquarters in Geneva and online. The main outcomes of this TSAG meeting, including the establishment of a Focus Group on Metaverse, are reported in this article.

Keywords: ITU-T, TSAG, standardization

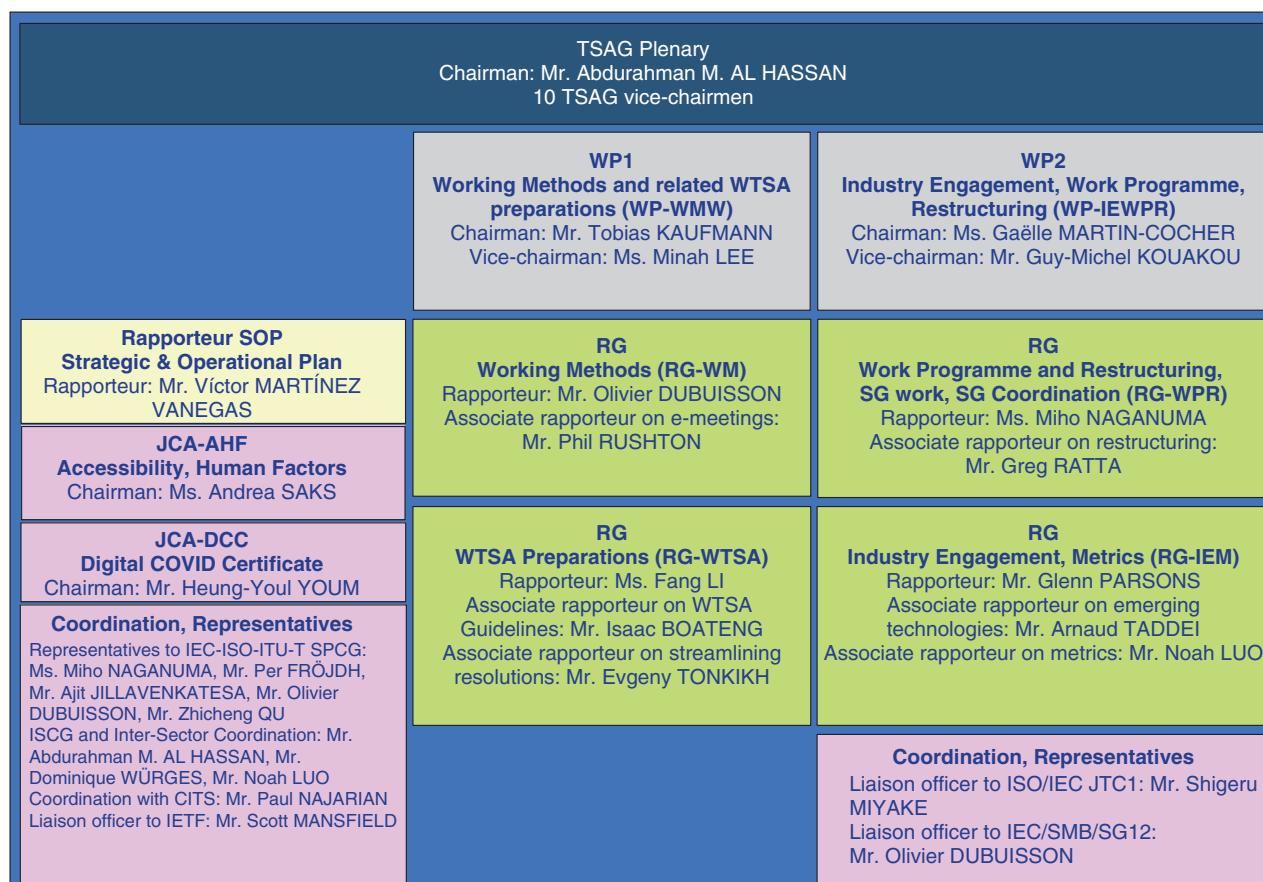
1. Introduction

The Telecommunication Standardization Advisory Group (TSAG) reviews the standardization activities of all Study Groups (SGs) of the International Telecommunication Union - Telecommunication Standardization Sector (ITU-T) and reviews their working methods, meeting rules, and procedures for cooperation with other standardization bodies. On the basis of an analysis of standardization issues to be addressed by ITU-T in the future, TSAG discusses and proposes an SG structure for the next study period to the World Telecommunication Standardization Assembly (WTSA) [1], which is held every four years.

The first TSAG meeting for the 2022–2024 study period of ITU-T was held from 12 to 16 December 2022 in a hybrid format at the ITU Headquarters in Geneva and online, with approximately 257 participants from 52 countries. From Japan, the ICT Standardization Division, Global Strategy Bureau, Ministry of Internal Affairs and Communications (MIC) headed the Japanese delegation, which consisted of 13 in-person participants including Mr. Seizo Onoe, then director-elect of the Telecommunication Standardization Bureau, and participants from companies and organizations (National Institute of Information

and Communications Technology (NICT), the Telecommunication Technology Committee (TTC), NEC, NTT, NTT DOCOMO, OKI, Hitachi), and 8 remote participants from the MIC, KDDI, NICT, Hitachi, Fujitsu, and the ITU Association of Japan.

On the first day of the plenary, the TSAG Management Team proposed a new organizational structure for TSAG meetings, which was approved. The new structure introduces two new Working Parties (WPs), which had not been established before: two Rapporteur Groups (RGs) under WP1, Working Methods (RG-WM) and WTSA Preparations (RG-WTSA), and two RGs under WP2, Working Programme and Restructuring, SG work, SG Coordination (RG-WPR) and Industry Engagement, Metrics (RG-IEM) (**Fig. 1**). Members of the TSAG Management Team are listed in **Table 1**. The TSAG chairman is Mr. Abdurahman M. Al Hassan from Saudi Arabia, Ms. Miho Naganuma from NEC was appointed as one of the 10 TSAG vice-chairmen and rapporteur for RG-WPR, and Mr. Shigeru Miyake of Hitachi was agreed to continue as the liaison officer with the International Organization for Standardization/International Electrotechnical Commission (ISO/IEC) Joint Technical Committee 1 (JTC1).



CITS: Collaboration on ITS Communication Standards
 IETF: Internet Engineering Task Force
 ISCG: Inter-Sector Coordination Group on issues of mutual interest
 SPCG: Standardization Programme Coordination Group

Fig. 1. Structure of TSAG.

2. Establishment of new Focus Groups and Joint Coordination Activities

2.1 Proposal for a new Focus Group on Metaverse

When the Focus Group (FG) on Metaverse (FG-MV) was proposed by ITU-T SG16 (Multimedia), a key point for discussion was which organization should be the parent SG. Establishing an ad hoc group (AHG) for creating Terms of Reference (ToR) was proposed on the first day of the plenary and Ms. Gaëlle Martin-Cocher (Canada), vice-chairman of TSAG, was elected as the AHG leader. FG-MV was agreed in the plenary to be newly established under TSAG. Regarding the opinion that the term metaverse should not be used from a trademark point of view, the ITU legal department was consulted, and it was confirmed that there was no problem as it is not

about selling a product.

2.2 Establishment of Joint Coordination Activity on Machine Learning (ITU-T JCA-ML)

The request was made by a liaison from SG13 (Next Generation Networks) and was endorsed on the first day of the plenary because of the wide range of issues related to ML among the SGs. The need for collaboration with ISO/IEC and other standards developing organizations (SDOs) dealing with similar ML-related standardization was noted to avoid duplication of efforts.

2.3 Establishment of JCA on Quantum Key Distribution Network (JCA-QKDN)

The FG on Quantum Information Technology for Networks (FG-QIT4N) ended its activities in 2022.

Table 1. TSAG Management Team.

Name	Country	Contact
Abdurahman M. AL HASSAN Chairman	Saudi Arabia	National Cyber Security Authority (NCA)
Khalid AL-HMOUD Vice-chairman	Jordan	Telecommunications Regulatory Commission (TRC)
Ulugbek AZIMOV Vice-chairman	Uzbekistan	Ministry for Development of Information Technologies and Communications
Isaac BOATENG Vice-chairman	Ghana	National Communications Authority
Olivier DUBUISSON Vice-chairman	France	Orange
Tobias KAUFMANN Vice-chairman	Germany	Federal Network Agency for Electricity, Gas, Telecommunications, Post and Railway (BNetzA)
Guy-Michel KOUAKOU Vice-chairman	Côte d'Ivoire	ARTCI
Fang LI Vice-chairman	China	CAICT, MIIT
Gaelle MARTIN-COCHER Vice-chairman	Canada	InterDigital Canada Ltd.
Víctor Manuel MARTÍNEZ VANEGAS Vice-chairman	Mexico	Instituto Federal de Telecomunicaciones (IFETEL)
Miho NAGANUMA Vice-chairman	Japan	NEC Corporation
Tobias KAUFMANN WP1 chairman	Germany	Federal Network Agency for Electricity, Gas, Telecommunications, Post and Railway (BNetzA)
Minah LEE WP1 vice-chairman	Korea (Rep. of)	Ministry of Science and ICT, TTA
Gaelle MARTIN-COCHER WP2 chairman	Canada	InterDigital Canada Ltd.
Guy-Michel KOUAKOU WP2 vice-chairman	Côte d'Ivoire	ARTCI

The establishment of this JCA was proposed by China and approved because the issues related to QKDN are diverse among the SGs and it is necessary to fulfil a mutual coordination function in a forum such as the JCA.

3. Main results of WP1

3.1 RG-WM

The RG-WM discusses the work methods in ITU-T and the revision of the ITU-T A-series Recommendations (Organization of the work of ITU-T). At this meeting, the activities of the AHG on Governance and Management of E-meetings (AHG-GME), chaired by Mr. Phil Rushton (UK), were reported. This AHG has been the most active group since the last TSAG meeting. He reported that the AHG has met four times since the last TSAG meeting and compiled a list of issues and guidelines for holding e-meetings. After reflecting the revised comments

from each country in the editing session, the Supplement 4 to ITU-T A-series Recommendations (A. Suppl. 4) “Supplement on guidelines for remote participation” was agreed upon.

This meeting also agreed on a proposal from Telecom Italia and others to revise A. Suppl. 2 “Guidelines on interoperability experiments and proof-of-concept events” and discussed the Recommendations on working methods and the future course of action for the supplement documents.

3.2 RG-WTSA

The RG-WTSA discusses the consolidation, simplification, and streamlining of Resolutions for WTSA-24. At this meeting, Canada proposed the creation of a one-pager to help WTSA session chairmen work more efficiently by providing a concise summary and reference at hand of the useful guidance found in the A-series Recommendations and Resolution 1. It is envisioned that the one-pager will

be developed as an RG-WTSA guideline under RG-WTSA. The proposal was continued for further discussion, as there were different opinions from each country as to whether it is useful or not necessary. There was also a proposal from Russia for the integration and simplification/streamlining of WTSA and Plenipotentiary Conference (PP) Resolutions, and it was agreed to continue the activities for the integration and simplification/streamlining in accordance with the instructions from PP-22, taking into consideration how it should be achieved.

In other discussions, it was agreed to develop guidance on “Principles for Reviewing WTSA Resolutions” and guidelines for the preparation of WTSA resolutions.

4. Main results of WP2

4.1 RG-WPR

The RG-WPR reviews work plans, structures, SG work, and coordination, including the review of activity reports of all SGs, approval of proposed task organization by SGs, coordination of regional groups, coordination among SGs, other SDOs and sectors, and coordination on matters related to SMART (scientific monitoring and reliable telecommunication) submarine cable systems, IMT (International Mobile Telecommunications)-2020, and climate change.

In this meeting, the status reports of each SG were introduced and the activities of other SDOs were reported. The action plan for the SG restructuring analysis was discussed with the U.S. participant as the editor, which aims at a thorough review of potential restructuring options for ITU-T on the basis of the empirical analysis, with a view to approving the SG restructuring proposal at WTSA-24. SG restructuring is an important issue that TSAG needs to address. To move forward with the action plan, the definition of key performance indicators (KPIs)/metrics to be collected and analyzed is to be clarified, the priorities of the various KPIs/metrics to be collected and the timing of their implementation are to be identified, and a project plan for conducting the analysis related to SG restructuring (Gantt chart to WTSA-24) was devel-

oped and agreed upon.

4.2 RG-IEM

The RG-IEM discusses measures to promote the participation of industry in ITU-T. At this meeting, Canada proposed to add to the ToR of this RG a requirement to promote participation of next-generation personnel from industry in ITU-T and thoroughly review the current industry involvement process, including the current chief experience officer/chief technical officer (CXO/CTO) meeting-coordination process. There were various opinions such as from a legal perspective, and it is important to consider the obligation to participate as well as acquiring rights through participation, and while some said that attending the CXO/CTO meetings was a very positive experience, other commented that there is an inherent problem of not attracting people from industry to ITU-T. Therefore, it is important to solve this fundamental problem so that the participation of future engineers will increase.

There was also a proposal from China to send a circular including PP resolutions to organizations that are not members of ITU-T to encourage participation of industry. Russia, Saudi Arabia, and others expressed their agreement with the proposal, but there were some who thought that it was a premature idea, and the proposal was finally included as part of the action plan for the future.

5. Future plans

The 2nd TSAG meeting for this study period is scheduled to be held in Geneva from May 30 to June 2, 2023. Due to the short period until the next WTSA, TSAG meetings are scheduled to be held approximately every six months, with the third TSAG meeting scheduled for January 2024. It was proposed that the final two meetings of TSAG for this study period be held in conjunction with the Inter-regional Meetings.

Reference

- [1] WTSA-20, <https://www.itu.int/en/ITU-T/wtsa20/Pages/default.aspx>



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Director, Standardization Office, Research and Development Planning Department, NTT Corporation.

He received a B.E. and M.E. in electrical and electronic engineering from Sophia University, Tokyo, in 1993 and 1995. He joined NTT Access Network Service Systems Laboratories in 1995, where he researched and developed operation and maintenance systems for optical fiber cable networks. He has been contributing to standardization efforts in ITU-T SG6 since 2006. He was the rapporteur of Question 6 of ITU-T SG6 from 2006 to 2008 and rapporteur of Question 17 of ITU-T SG15 from 2008 to 2012. He also served as the chairman of the ITU-T Focus Group on Disaster Relief Systems and Network Resilience and Recovery. He was the vice-chairman of ITU-T SG15 from 2013 to 2022. He also contributes to the activities of International Electrotechnical Commission (IEC) Technical Committee 86 (fiber optic systems). He received the ITU-AJ award from the ITU Association of Japan in 2017. He is a member of the Institute of Electronics, Information and Communication Engineers (IEICE).



Jiro Nagao

Senior Manager, Standardization Office, Research and Development Planning Department, NTT Corporation.

He received a Ph.D. in information science from Nagoya University, Aichi, in 2007 and joined NTT the same year. From 2007 to 2011, he was engaged in research and development of image processing and content distribution technology. From 2012 to 2017, he worked for NTT Communications, serving as the technical leader of commercial video streaming services. From 2017 to 2021, he was engaged in research and development of immersive media and presentation technology at NTT Service Evolution Laboratories. Since 2019, he has contributed to the international standardization efforts on immersive live experience (ILE) of ITU-T SG16. He served as an editor of ITU-T H.430.4 (ex H. ILE-MMT) and H.430.5 (ex H. ILE-PE) from 2019 to 2020. He received the ITU Association of Japan Encouragement Award in 2021. He is currently an associate rapporteur of ITU-T SG16 Q8 (Immersive Live Experience, since 2022) and the leader of ILE Sub Working Group of the Telecommunication Technology Committee (since 2020). He is a member of the Institute of Electrical and Electronics Engineers (IEEE), IEICE, and the Japanese Society of Medical Imaging Technology (JAMIT).
