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| A picture containing graphics, logo, font, symbol  Description automatically generated | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2022-2024 | | | TSAG–R2 |
| **TSAG** |
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| **TELECOMMUNICATION STANDARDIZATION ADVISORY GROUP**  **REPORT 2** | | | | |
| **Source:** | | | Telecommunication Standardization Advisory Group | |
| **Title:** | | | Report of the second meeting of the Telecommunication Standardization Advisory Group (Geneva, 30 May - 2 June 2023) | |
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| **Abstract:** | This TD contains the report of the second meeting of the ITU-T Telecommunication Standardization Advisory Group (Geneva, 30 May-2 June 2023) in the 2022-2024 study period. |

NOTE 1 – This report contains the conclusions and actions decided at this TSAG meeting.

NOTE 2 – Unless otherwise noted, all Contributions and TDs referenced in this report are of the TSAG series of documents and refer to the most recent published revision.

Note by the TSB:

The Reports for the second meeting of TSAG are published in the following documents:

TSAG-R2 Report of the second meeting of the Telecommunication Standardization Advisory Group (Geneva, 30 May - 2 June 2023)

TSAG-R3 Report of the second meeting of the Telecommunication Standardization Advisory Group (Geneva, 30 May - 2 June 2023) – Determined revised Recommendation ITU-T A.8 "*Alternative approval process for new and revised ITU-T Recommendations*"

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# Opening of the meeting, TSAG Chairman

The TSAG Chairman, Mr Abdurahman M. AL HASSAN, Saudi Arabia (Kingdom of), welcomed the TSAG participants to the second meeting of the Telecommunication Standardization Advisory Group (TSAG) for the 2022- 2024 study period, which was held in Geneva, 30 May-2 June 2023. Mr AL HASSAN was assisted by Mr Bilel JAMOUSSI, Chief of the ITU-T study groups department, and Mr Martin EUCHNER, Advisor.

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| 1.1 | Live interpretation in six official ITU languages was provided during the 30 May and 2 June 2023 plenary sessions; and real-time captioning[[1]](#footnote-2), remote participation using Zoom, and webcasting[[2]](#footnote-3) were provided for all TSAG plenaries and Rapporteur Group sessions. At the beginning of the meeting, an avatar read out the note contained in [TD231](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0231), which provided guidance on using Zoom, the public chat and the use of the timer tool. Additional information on using Zoom was available in [TD223](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0223). |
| 1.2 | Mr AL HASSAN welcomed the ITU Deputy Secretary General, Mr Tomas LAMANAUSKAS; the BDT Director, Mr Cosmas ZAVAZAVA; the BR Director, Mr Mario MANIEWICZ; and the TSB Director, Mr Seizo ONOE. |
| 1.3 | The following TSAG Vice-Chairmen attended the meeting: Mr Isaac BOATENG (Ghana), Mr Olivier DUBUISSON (France), Mr Tobias KAUFMANN (Federal Republic of Germany), Mr Guy-Michel KOUAKOU (Republic of Côte d'Ivoire), Ms Fang LI (P.R. China), Ms Gaëlle MARTIN-COCHER (InterDigital Canada Ltée), Ms Miho NAGANUMA (NEC Corporation, Japan), Mr Victor Manuel MARTINEZ VANEGAS (Mexico), and Mr Ulugbek AZIMOV (Republic of Uzbekistan). Mr Khalid AL-HMOUD (Hashemite Kingdom of Jordan) did not attend the meeting. |
| 1.4 | In total, 265 (144 physical, 121 only remote) participants attended this second TSAG meeting: 54 Member States, 7 Sector Members (ROAs), 24 Sector Members (SIOs), eight Sector Members (Regional and other International Organizations), one Sector Member (Other entities), one regional organization, three Permanent Missions, four Academia, one entity as per PP Resolution 99, and 50 ITU staff, and five elected officials of the ITU; see [TD222](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0222), which reflects the final list of participants. |
| 1.4.1 | Nine fellowships were requested and granted. |
| 1.4.2 | A training session for TSAG newcomers was organized on 31 May 2023; the newcomer welcome pack material is contained in [TD224](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0224). Some 20 newcomers (on site and remotely) attended this session. |
| 1.5 | The ITU Deputy Secretary General, Mr Tomas LAMANAUSKAS, in his opening remarks, highlighted the importance of standards, as did the G7 leaders a few days before ethe TSAG meeting. He saw a need for ITU to go beyond technical standardization such as ITU to address standards in areas on the challenge of climate crisis, for ITU standards to be gender responsive, and to include a perspective for an overarching human rights dimension and to tackle a technical standards setting process for new and emerging technologies, with ITU to keep on searching for new and pragmatic ways to become more inclusive to satisfy the ITU's strategic goals in the areas of universal connectivity and sustainable digital transformation. |
| 1.6 | The BR Director, Mr Mario MANIEWICZ, recognized the remarkable contribution of ITU-T in shaping the global telecommunication landscape, fostering interoperability and driving innovation, acknowledging the collective efforts of ITU-T alongside ITU-R and ITU-D in their commitment towards achieving universal connectivity and sustainable digital trans­formation. Both ITU-R and ITU-T develop international standards on telecommunications on ICTs with their respective domains, requiring coordination between the two Sectors, avoid duplication and ensure that channelled efforts towards the most efficient and effective manner such as in areas like unmanned aircraft systems, fixed, mobile, and satellite conversions in IMT 2020 networks and beyond, and satellite communications in developing countries; the use of liaison statements between ITU-T and ITU-R help bridge fostering improved colla­boration and facilitating the exchange of valuable insights, and to ensuring that work is appropriately aligned and complementary across Sectors. Mr MANIEWICZ called for working together towards the broader objectives of the Union, and towards contributing to the inter­national framework that enables the advancement of telecommunica­tions and radio­communications. In addition, Administrations and the Inter-Sector Coordination Group (ISCG) play an indispensable role to maintain coherence between the different Sectors as per Decision 5 of the Plenipotentiary Conference. Mr MANIEWICZ looked-out and invited member to WRC‑23 in Dubai to update the Radio Regulations the international treaty that guards the satellite frequency spectrum and satellite orbits. |
| 1.7 | The BDT Director, Mr Cosmas ZAVAZAVA, presented the priorities of ITU-D: 1) to bridge the last mile and deliver and unmask technology and ensure a human face for meaningful connectivity and not to leave anyone behind; 2) to look at an enabling environment as will be addressed by the GSR-23 global symposium for regulators in Egypt in June 2023; 3) digital transformation and the attainment of the Sustainable Development Goals; 4) the need for international cooperation and resource mobilization for us to implement impactful projects across the globe; and 5) cybersecurity and child online protection, and BDT's commitment to assist in bridging the standardization gap (BSG) as an area of common interest, as are accessibility, environment, smart cities and early-warning systems. |
| 1.8 | The TSB Director, Mr Seizo ONOE, welcomed all delegates to this second TSAG meeting in this 2022-2024 study period. His speech is contained in [TD225](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0225). |
| 1.9 | The TSAG Chairman observed that ITU-T is already halfway in the 2022-2024 study period, with just one year remaining to complete the work and to prepare ourselves for the next Assembly. He acknowledged the excellent work done and fruitful discussions having taken place by the Rapporteur groups in their many interim meetings. The TSAG meeting would review the results. The shortened duration of the TSAG meeting in this week and the high number of received contributions made it necessary to operate as efficiently as possible. |
| 1.10 | [Annex A](#_Annex_A_Summary_1) of this report summarizes the key outcomes (reports, liaison statements, next meetings) of this TSAG meeting. |

# Approval of the agenda, document allocation and time management plan

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| 2.1 | The meeting adopted the draft agenda, document allocation and work plan ([TD171R2](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0171)). TSAG accepted the time management plan in [TD170R5](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0170), which was further revised into TD170R10, and took note of the overview of the agendas and reports in [TD174](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0174). In total, four plenary sessions, four Working Party plenary sessions, eight Rapporteur Group sessions, one ad-hoc session, and nine other sessions were organized. |
| 2.2 | TSAG adopted the draft agenda in [TD172R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0172) for the TSAG closing plenary meeting that took place on 2 June 2023. It was agreed to add a new agenda item 30.1 under Any Other Business on remote participation at the WTSA-24.  [TD174](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0174) provides an overview of all draft agendas and reports. |
| 2.3 | [TD229R2](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0229) lists all the contributions submitted and considered during this 2nd TSAG meeting. [TD230](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0230) provides the list of all the 133 TDs of the TSAG meeting. |
| 2.4 | [TD228R2](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0228) summarizes the 26 incoming liaison statements received by TSAG since 17 December 2022, vis-à-vis the nine outgoing liaison statements agreed by the May/June 2023 TSAG meeting and sent until 5 June 2023, and the 11 liaison statements sent from the December 2022 TSAG meeting. |

# Reports by the TSB Director

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| 3.1 | The TSB Director presented the ITU-T activity report ([TD189](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0189), slide set in [Addendum 1](https://www.itu.int/dms_pub/itu-t/md/22/tsag/td/230530/GEN/T22-TSAG-230530-TD-GEN-0189!A1!PPT-E.pptx)), highlighting the key results achieved in ITU-T standardization from 1 December 2022 to 19 May 2023. The meeting took note of the report. |
| 3.2 | The head of the ITU Office for Europe, Mr Jaroslaw PONDER, on behalf of the Regional Office Directors, presented in [TD190](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0190) the contribution of the ITU Regional Offices to the ITU- T Operational Plan and Coordination activities with TSB (December 2022 – April 2023). The TD summarizes the contribution of the ITU Regional Offices to the implementation of the ITU-T four-year rolling operational plan as requested by the Resolution 25 (Rev. Bucharest, 2022) of the ITU Plenipotentiary Conference. |
| 3.2.1 | The meeting appreciated the improvements to the ITU MyWorkspace platform that TSB staff has been making, and the meeting took note of the report, and invited the study groups to consider the material. |
| 3.3 | The Chief of the ITU Finance Resources Management Department, Mr Alassane BA, presented in [TD197](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0197) the draft four-year rolling operational plans for the Union for 2024-2027. |
| 3.3.1 | Delegates made comments such as the need to address risks and operational risks, and to address the SDGs from a strategic and operational view. The ITU General Secretariat will want to take those comments into account when presenting an improved document to the Council meeting. TSAG took note of TD197. |
| 3.4 | TSB presented in [TD191R2](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0191) the WTSA-20 Action Plan for the 2022-2024 study period related to the Resolutions and Opinion of WTSA, which has been updated since December 2022. |
| 3.4.1 | For delegates to understand the relationship of ITU-T with UPU POC under WTSA Resolution 11, [TD281](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0281) gives an update on the collaboration between TSB and UPU secretariat, upon request of the TSAG management team. The matter was discussed in detail within the RG-WTSA. |
| 3.4.2 | RG-WTSA was invited to consider the Action Plan in [TD191R2](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0191) when discussing preparations for WTSA-24. |
| 3.4.3 | The meeting appreciated this document, which was further updated in [TD191R3](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0191) after the meeting and shared it with ITU-T SGs and regional telecommunication organizations, see [TSAG-LS15](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00015.zip). |

# Digital Transformation

## 4.1 Proposed new Focus Group on digital transformation (FG-DT)

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| 4.1.1 | TSAG received two proposals in [C49](https://www.itu.int/md/T22-TSAG-C-0049) from Nigeria, South Africa, Tarbiat Modares University (Iran, Islamic Republic of), and Viet Nam; in [C51R1](https://www.itu.int/md/T22-TSAG-C-0051) from Bahrain, Egypt, Huawei Technologies Switzerland AG, Kuwait, and Sudan; to establish a new Focus Group on digital transformation with proposed draft terms of reference (ToR); and comments on both proposals in [TD266](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0266) from the IEC SMB/ISO TMB/ITU-T TSAG Standardization Programme Coordination Group (SPCG). |
| 4.1.2 | Several Members States (India, Kenya, Russian Federation, and Tunisia) supported C51 favouring a Focus Group. Canada expressed opposition to the creation of such a Focus Group. |
| 4.1.3 | The meeting agreed to establish an ad-hoc group (AHG) on C49, C51 and TD266 under the leadership of Mr Ahmad SHARAFAT (Iran, Islamic Republic of) with the assistance by Mr Ahmed SAID (Egypt), to discuss the three documents and to bring a proposal and a report to the closing plenary. |
| 4.1.4 | Mr Ahmed SAID (Egypt) convened the AHG on C49, C51 and TD266, and presented his report in [TD284](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0284). As main conclusion, the AHG found that the creation of such a focus group is premature, but there was consensus to the creation of a TSAG rapporteur group on sustainable digital trans­formation (RG-DT). |
| 4.1.5 | The meeting agreed the report in [TD284](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0284). |
| 4.2 | TSB presented [TD295](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0295) "Digital Transformation Activities in 2023", which provides information on ITU-T activities on smart sustainable cities and digital transformation carried out in 2023. |
| 4.2.1 | The meeting took note of TD295, and asked RG-DT to consider that document. |

## 4.2 New TSAG Rapporteur Group on sustainable digital transformation (RG-DT)

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| 4.2.1 | The Convener of the AHG on C49, C51 and TD266, Mr Ahmed SAID, presented the proposal in [TD285](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0285) to establish a new TSAG Rapporteur Group on digital transformation (RG-DT) with proposed draft terms of reference. |
| 4.2.2 | TSAG established a new TSAG Rapporteur Group on sustainable digital transformation (RG-DT) with draft terms of reference in [Annex C](#_Annex_C_Terms_1) ([TD285R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0285)). TSAG agreed that the RG-DT would operate until the end of this study period, and that RG-DT would report to TSAG WP2. Three virtual meetings are planned for FG-DT in 2023; see §19.3 ([TD283R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0283)). TSAG requested TSB to implement the logistical infrastructure for this new RG-DT. |
| 4.2.3 | TSAG appointed Mr Ahmed SAID (Egypt) as Rapporteur of RG-DT, and Mr Ahmad Reza SHARAFAT (Iran, Islamic Republic of) and Ms Cynthia LESUFI (South Africa, Republic of) as Associate Rapporteurs of RG-DT, where the Associate Rapporteurs will act on a rotational basis to support the Rapporteur. It was agreed that Messrs SAID and SHARAFAT would alternate the role of Rapporteur and Associate Rapporteur between TSAG meetings. |

## 4.3 ITU Partner2Connect Digital Coalition

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| 4.3.1 | An information session on the ITU Partner2Connect Digital Coalition was organized on 2 June 2023 (1400-1430 hours) under the auspices of the ITU Secretary General. The Partner2Connect digital coalition promotes universal, meaningful connectivity and digital transformation for all. The presentation material is contained in [TD302](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0302). |

# ITU-T Focus Groups

## 5.1 ITU-T Focus Group on metaverse (FG-MV)

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| 5.1.1 | The Chairman of FG-MV, Mr Shin-Gak KANG, presented in [TD198](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0198) a liaison statement from FG-MV, which contains the progress report of FG-MV with updates from the December 2022 to May 2023 period. |
| 5.1.1.1 | TSAG took note of this outstanding report, which delegates found very informative and useful. |
| 5.1.2 | The Chairman of ITU-T SG20, Mr Hyoung-Jun KIM, presented in [TD236](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0236) a liaison statement, which informs TSAG and FG-MV that a new work item proposal from Q3/20 was transferred to FG-MV due to the scope of this proposal being related to metaverse. SG20 encouraged TSAG to request all other ITU-T Study Groups to transfer any proposed new work items and ongoing work items that are related to metaverse to the FG-MV for further study. |
| 5.1.2.1 | TSAG asked Mr KIM to informally consult with the Chairmen of ITU-T study groups and with interested parties on this proposal and to report to the closing plenary. Mr KIM was asked to take into account experiences made during the establishment of FG-QIT4N and on emerging technology issues, for which ITU-T currently does not have a suitable mechanism. |
| 5.1.2.2 | Mr KIM presented in [TD301](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0301) the outcome of the informal consultations on "metaverse work items and SGs". |
| 5.1.2.3 | TSAG took note of the report, and agreed to send a liaison statement as per [TD301](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0301) to all ITU-T study groups as in [TSAG-LS21](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00021.docx). |
| 5.1.3 | The Chairman of FG-MV, Mr Shin-Gak KANG, presented in [TD241](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0241) a liaison statement from FG-MV, requesting collaboration on metaverse standardization work. |
| 5.1.3.1 | TSAG took note of TD241. |

## 5.2 ITU-T Focus Group on costing models for affordable data services (FG-CD)

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| 5.2.1 | The Chairman of ITU-T SG3, Mr Ahmed SAID, presented in [TD240](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0240) a liaison statement, which informs about the establishment of a new ITU-T Focus Group on costing models for affordable data services (FG-CD). |
| 5.2.2 | The SPCG Chair, presented in [TD264](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0264) the IEC/ISO/ITU SPCG recommendation on new ITU-T Focus Group on costing models for affordable data services (FG-CD). |
| 5.2.3 | The meeting agreed to take on-board the SPCG recommendation and to send a liaison statement in [TSAG-LS13](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00013.docx) / [TD288](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0288) to ITU-T SG3 and to FG-CD. |

## 5.3 ITU-T Focus Group on Autonomous Networks (FG-AN)

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| 5.3.1 | The ITU-T SG13 Vice-Chairman, Mr Scott MANSFIELD (Ericsson Canada), presented in [TD247](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0247) a liaison statement on the continuation of the FG-AN operation until end of 2023. |
| 5.3.1.1 | The meeting took note of TD247. |

## 5.4 ITU-T Focus Group on Testbeds Federations for IMT-2020 and beyond (FG-TBFxG)

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| 5.4.1 | A liaison statement from ITU-T SG11 was presented in [TD270](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0270), which informs that the lifetime of the Focus Group on Testbeds Federations for IMT-2020 and beyond (FG- TBFxG) was extended until June 2024. |
| 5.4.1.1 | TSAG took note of TD270. |

# ITU-T Joint Coordination Activities

## 6.1 ITU-T Joint Coordination Activity on Digital COVID 19 certificates (ITU-T JCA-DCC)

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| 6.1.1 | The ITU-T JCA-DCC co-Chairman Mr Heung-Youl YOUM, presented in [TD209](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0209), which contains the progress report of the Joint Coordination Activity on Digital COVID-19 Certificates (JCA-DCC) and its meeting held on 24 February 2023 and informs TSAG about its planned activities in September 2023. |
| 6.1.1.1 | The meeting took note of TD209. |

## 6.2 ITU-T Joint Coordination Activity on Quantum Key Distribution Network (ITU-T JCA-QKDN)

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| 6.2.1 | The ITU-T JCA-QKDN Chairman, Mr Junsen LAI, presented in [TD210](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0210) an executive summary of the first meeting of the Joint Coordination Activity on Quantum Key Distribution Network (JCA-QKDN), Geneva, 22 March 2023. |
| 6.2.1.1 | The meeting took note of TD210. |

## 6.3 ITU-T Joint Coordination Activity on IMT-2020 and Beyond (JCA-IMT2020)

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| 6.3.1 | The ITU-T SG13 Vice-Chairman, Mr Scott MANSFIELD (Ericsson Canada), presented in [TD246](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0246) a liaison statement informing of the revised Terms of Reference for JCA-IMT2020. |
| 6.3.1.1 | The meeting took note of TD246. |

# Coordination with IEC, ISO, and the IEC-ISO-ITU-T Standardization Programme Coordination Group (SPCG)

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| 7.1 | TSAG took note of the report (in [TD213](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0213)) of the 22nd meeting of the IEC/ISO/ITU World Standards Cooperation (WSC) that took place on 24 February 2023, which contains a statement made by the UN High Commissioner for Human Rights, Mr Volker TÜRK, 24 February 2023 at the WSC meeting. |
| 7.1.1 | TSB was requested to prepare a report to the next TSAG meeting to provide information on   1. How to implement gender responsible standards? 2. To clarify the human rights approach, what ITU is either doing or planning to do, and why, and how HR approach links into ITU-T standards? |
| 7.2 | TSAG took note of the report (in [TD211](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0211)) on the progress made by the IEC SMB/ISO TMB/‌ITU-T TSAG SPCG. |
| 7.2.1 | The meeting encouraged the SPCG to consider the coordination opportunities provided by the ITU-T JCA on machine learning (JCA-ML) operated by SG13, in the context of the need to coordinate on artificial intelligence (AI). |

# Global Standards Collaboration (GSC)

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| 8.1 | TSB presented in [TD254](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0254) a report provides the outcome of the 2023 Global Standards Collaboration (GSC-23) meeting that took place in London, United Kingdom, 26- 27 April 2023. |
| 8.1.1 | The meeting took note of TD254. |

# Inter-Sector Coordination with ITU-D, ITU-R

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| 9.1 | The Chairman of the Inter-Sector Coordination Group (ISCG), Mr Fabio BIGI, presented the progress report (in [TD216](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0216)) of the ISCG on issues of mutual interest, highlighting the conclusions from its last meeting (2 May 2023). |
| 9.1.1 | TSAG took note of TD216. |
| 9.1.2 | TSAG supports that an ISCG meeting be organized during the next TSAG meeting in February 2024, see (RG-WM-2), clause 17.1.6. |
| 9.2 | TSAG took note of the liaison statement from ITU-T SG13 (in [TD242](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0242)) "LS/i on Revision of the mapping tables of Inter-Sector mutual interest", presented by the SG13 Vice-Chairman, Mr Scott MANSFIELD (Ericsson Canada). |

# Collaboration on ITS Communication Standards (CITS)

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| 10.1 | TSAG, with appreciation, took note of the report of CITS (in [TD215](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0215)), which summarizes ITU-T activities in the field of ITS communications since the last meeting of TSAG in December 2022. |
| 10.1.1 | It was the view of a Member State that the CITS is a long-term success story for the ITU; CITS was seen to operate very successfully in building relationships for collaboration and facilitation with partners and other SDOs; and TSB support staff for CITS was praised for running excellent CITS secretariat services. TSAG was advised to seriously consider the CITS collaboration model as an alternative to Focus Groups. |

# Languages on equal footing

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| 11.1 | The Chairman of the Standardization Committee for Vocabulary (SCV), Ms Rim BELHAJ (Tunisia), presented [TD218](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0218) with the report of activities of the SCV in the period January to May 2023. Attention is drawn to the convenience or suggested establishment of memoranda of understanding with other SDOs. |
| 11.1.1 | Several members supported the idea of establishing memoranda of understanding with other SDOs, and sought to see such memoranda be shared with TSAG in future meetings. |
| 11.1.2 | TSAG was made aware of the need to find a new SCV Chairman for the 2025-2028 study period, to fill the vacancy for Ms Rim BELHAJ, who is on her second term of office. |
| 11.1.3 | TSAG took note of this report. |
| 11.2 | The ITU-T SG2 Chairman, Mr Phil RUSHTON, presented the liaison statement in [TD243](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0243), which informs about current terms and definition activities within SG2. SG2 asks TSAG to evaluate possible issues, including possible deletion of clause 3.2 (Definitions developed in this text) from informal document templates. SG2 asks TSAG to evaluate the issue of outside definitions and amend the Author's Guide and maybe some Recommendations of the ITU-T A-series if needed. |
| 11.2.1 | TSAG asked RG-WM to consider this liaison statement, and to provide guidance to TSAG. The raised issue of accessibility of the CCT webpage was fixed and resolved during the meeting. |
| **11.3** | **Matters on inclusive language** |
| 11.3.1 | The ITU-T SG15 Chairman, Mr Glenn PARSONS (Ericsson Canada), presented the liaison statement in [TD263](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0263), which provides information on actions taken by SG15 on the topic of non-inclusive language. |
| 11.3.2 | The Russian Federation presented [C40](https://www.itu.int/md/T22-TSAG-C-0040) "On following with common solution of inclusive language by ITU-T study groups", which proposes to follow with the previous TSAG decision on postponing any activity on the alignment of ITU-T with non-normative requirements of inclusive language until a common overall solution for the Union and recommends to SGs be focused on actual issues. The Russian Federation proposed to send a liaison statement to ITU-T SGs with clear recommendation to postpone the process of revision of existing ITU-T Recommendations with non-normative requirements of inclusive language to avoid inefficient resource use until the Council and (or) PP make an appropriate decision to be applied overall Union. |
| 11.3.3 | The Russian Federation was invited to assist in the drafting of a liaison statement, which was proposed in [TD300](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0300) "LS/o on using inclusive language in ITU-T texts [to all ITU-T SGs]" providing guidance to ITU study groups on the issue of using inclusive language in ITU-T texts. |
| 11.3.4 | TSAG agreed to send [TSAG-LS20](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00020.docx) / [TD300R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0300) on using inclusive language in ITU-T texts to all ITU-T SGs, SCV, and ISCG. |

# IPR matters, Open standards

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| 12.1 | The Russian Federation presented [C42](https://www.itu.int/md/T22-TSAG-C-0042) "Definition of the Open Standard in the ITU-T", which proposes to modify the existing definition of the Open Standard by removing the unprovable "reasonable terms and conditions (which may include monetary compensation)" during closed-doors commercial negotiations. It also proposed to assess the feasibility of involving the ITU in studying the "reasonable" of terms and conditions". It was further proposed to change the definition of an Open Standard by removing condition (2). |
| 12.1.1 | The meeting asked the Russian Federation to lead informal consultations on C42 and to report the closing plenary. |
| 12.1.2 | The Russian Federation reported that informal consultations on C42 were conducted and reported on the outcome to the closing plenary. It was reported that some 20 delegations were participating; one proposal was received by e-mail with questions, however, the proposal did not find support. |
| 12.1.3 | The meeting took note of the report, and invited to continue further consultations off-line or in future meetings. C42 was noted. |

# Activities on gender in ITU-T and TSB

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| 13.1 | TSB presented [TD196](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0196), which inform about the outcome of the survey on promoting gender equality in ITU-T activities. |
| 13.1.1 | TSAG took note of TD196, and invited members to take steps leading to an increase of women participation in the activities of the Union. |

# ITU Journal on Future and Evolving Technologies

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| 14.1 | TSAG took note of [TD227](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0227) on the *ITU Journal on Future and Evolving Technologies*, which has published 148 papers since its launch in September 2020. Furthermore, new special issues are still calling for papers on 5G and beyond wireless systems, AI-driven security, AI for accessibility, metaverse, satellite constellations and space, for publication in 2023 and 2024. |
| 14.1.1 | The meeting took note of TD227. |

# Preparations for WTSA-24

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| 15.1 | TSB presented [TD248](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0248), which contains an update of the WTSA-24 regional preparatory meetings. |
| 15.1.1 | The meeting took note of TD248. |
| 15.2 | TSB presented [TD249](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0249), which contains an update on the planning on WTSA-24 Inter-regional coordination. |
| 15.2.1 | The meeting took note of TD249. |
| 15.3 | There was a request for TSB to report to the next TSAG meeting on the following:   1. to assess the gradual increase towards in-person participation across all study groups, taking into consideration the success at this TSAG; 2. to consider a WTSA-24 without remote participation, and report back on such implementation as part of the preparations for WTSA-24, noting that the webcast, the streaming, and the captioning will be available as usual; 3. to collect and assess lessons learned from WRC-23 and to discuss with the BR on any issues encountered as the BR is moving forward ahead toward a WRC-23 without the possibility of remote participation.   TSB will be considering those issues when negotiating the host country agreement with India for WTSA-24. It was noted that a decision on remote participation at WTSA-24 might need to be taken before the next TSAG meeting scheduled for February 2024. |

# Participation of members from developing countries and Africa in particular

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| 16.1 | Kenya raised concerns seeing drastically decreasing participation of African countries, and of developing countries in general. |
| 16.1.1 | The meeting requested TSB to provide information and analysis of the situation, including suggestions of possible mitigation measures (e.g., BSG) to the next TSAG meeting. |

# 17 Results of TSAG Working Parties

The two TSAG Working Parties progressed their work and brought their results to the TSAG closing plenary. The reports were agreed. The Plenary decisions are summarized below. [Annex A](#_Annex_A_Summary_1) to this report provides a table listing the TDs with the reports of the various Working Parties and Rapporteur Groups, the liaison statements they produced and the interim activities that are planned.

## 17.1 TSAG Working Party 1 "Working Methods and related WTSA preparations" (WP‑WMW)

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| 17.1.1 | Working Party 1 met under the leadership of the WP1 Chairman, Mr Tobias KAUFMANN (Germany), with the assistance of the WP1 Vice-Chairman, Ms Minah LEE, Korea (Rep. of) and Mr Simão Campos (TSB). |
| 17.1.2 | The WP1 Vice-Chairman presented the WP1 report in [TD177R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0177). |
| 17.1.3 | TSAG approved the WP1 meeting report in [TD177R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0177) (ref. action WP1-1). |
| 17.1.4 | TSAG agreed to Determine under TAP draft revised Recommendation ITU-T A.8 "*Alternative approval process for new and revised ITU-T Recommendations*" ([TSAG-R3](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-R-0003)) ([TD293](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0293)) (ref. action RG-WM-5) in accordance with WTSA Resolution 1. TAP consultation for Member States will be announced through TSB Circular letter 111 once the date and venue of the next TSAG meeting is confirmed. |
| 17.1.5 | TSAG agreed the revised "*Author's guide for drafting ITU-T Recommendations*" ([TD294](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0294)). (ref. action RG-WM-6) |
| 17.1.6 | TSAG agreed to organize an ISCG meeting during the next TSAG meeting in February 2024. (ref. action RG-WM-2) |
| 17.1.7 | TSAG changed the title of the RG-WM Associate Rapporteur to "*Associate Rapporteur on remote participation and electronic working methods*". (ref. action RG-WM-3) |
| 17.1.8 | TSAG agreed to instruct its representatives to the IEC SMB/ISO TMB/ITU-T TSAG SPCG, taking Recommendation ITU-T A.23 and ITU-T A-series Supplement 5 into consideration, to initiate internal consultations towards developing a proposal for a collaboration mechanism or guidelines between ITU-T study groups, and ISO or IEC Technical Committees respectively, and to report back on progress to the next TSAG meeting. (ref. action RG-WM-4) |
| 17.1.9 | TSAG requested TSB to improve the support of the training session for rapporteurs and editors to better cover the three items listed in [TD245R2](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0245)[[3]](#footnote-4). (ref. action RG-WM-7). |
| 17.1.10 | TSAG agreed to send the following three outgoing liaison statements prepared by WP1:  1. LS to request the appointment of an electronic working methods (EWM) liaison [to all ITU-T SGs]. ([TSAG-LS19](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00019.docx) / [TD297](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0297)) (ref. action RG-WM-8);  2. LS on draft analysis of operational parts of WTSA/PP/WTDC Resolutions [to all ITU-T SGs and regional organizations]. ([TSAG-LS15](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00015.zip) / [TD286R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0286)) (ref. action RG-WTSA-2);  3. LS to UPU on current discussion on WTSA Res.11, for their feedback. ([TSAG- LS17](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00017.docx) / [TD291](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0291)) (ref. action RG-WTSA-3). |
| 17.1.11 | TSAG agreed to update of the work programme of RG-WM as found in [TD298](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0298) (RG- WM‑9) and of RG-WTSA as found in [TD296](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0296). (ref. action RG-WTSA-4); see also [Annex B](#_Annex_B_Work_1). |
| 17.1.12 | TSAG authorized RG-WM and RG-WTSA to hold six and four interim rapporteur group meetings each (all online), as listed in §19.3 (ref: [TD177R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0177) §‎6.1 and §‎6.2) (ref. actions RG-WM-10 and RG-WTSA-5). |

## 17.2 TSAG Working Party 2 "Industry Engagement, Work Programme, Restructuring" (WP-IEWPR)

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| 17.2.1 | Working Party 2 met under the leadership of the WP2 Chairman, Ms Gaëlle MARTIN-COCHER (InterDigital, Canada), with the assistance of the WP2 Vice-Chairman, Mr Guy-Michel KOUAKOU (Côte d'Ivoire), and Ms Tatiana KURAKOVA (TSB). |
| 17.2.2 | The WP2 Chairman presented the WP2 report in [TD180R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0180). |
| 17.2.3 | TSAG approved the WP2 meeting report in [TD180](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0180)R2 (ref. action WP2-3). |
| 17.2.4 | TSAG agreed *the Action plan for a vibrant engagement of the industry* ([TD256](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0256/en)) (ref action RG-IEM-1) |
| 17.2.5 | TSAG agreed the plan for convening *the Industry Engagement workshop* in spring 2024 and set up its steering committee with the terms of reference as found in [TD257R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0257), as well as in Annex 1 of the WP2 report (TD180R2). (ref. action RG-IEM-2) |
| 17.2.6 | TSAG took note of the appointment of the chairman of the ITU Industry Engagement workshop steering committee Mr Didier BERTHOUMIEUX (Nokia, Finland). (ref. action WP2-1) |
| 17.2.7 | TSAG agreed *the baseline text for report of the analysis of ITU-T study group restructuring alternatives* ([TD214R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0214)) (ref. action RG-WPR-1). |
| 17.2.8 | TSAG took note of the report on the implementation of the action plan for analysis of ITU-T structural alternatives [TD234R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0234/en)) (ref. action RG-WPR-2) |
| 17.2.9 | TSAG took note of the updated matrix of work areas across the ITU-T study groups. ([TD277](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0277/en)) (ref. action RG-WPR-3) |
| 17.2.10 | TSAG agreed the interim activities plan – clause 7 of the WP2 report, TD180R2. (ref. action WP2-2) |
| 17.2.11 | TSAG agreed to send a Liaison Statement on incubation mechanism to all ITU-T study groups. ([TSAG-LS16](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00016.zip) / [TD290R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0290)) (ref. action RG-IEM-3) |
| 17.2.12 | TSAG agreed to send a Liaison Statement on status of the implementation of the action plan for analysis of ITU-T structural alternatives to all ITU-T study groups. ([TSAG- LS18](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00018.zip) / [TD292R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0292/en)) (ref. action RG-WPR-4) |
| 17.2.13 | TSAG agreed to requested TSB to incorporate, as appropriate, the information provided in [C022](https://www.itu.int/md/T22-TSAG-C-0022) in a Collective letter announcing the next TSAG meeting or a in standalone TSB Circular. (ref. action RG-IEM-4) |

# 18 SMART Subsea Cables

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| 18.1 | The Chairman of the ITU/WMO/UNESCO IOC Joint Task Force on SMART submarine cables, Mr Bruce M. Howe (University of Hawaii, USA), presented [TD272R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0272) with a liaison statement from the ITU/WMO/UNESCO IOC Joint Task Force on SMART submarine cables, highlighting the activities of the joint Task Force on SMART Subsea Cables - Science Monitoring And Reliable Telecommunications. |
| 18.2 | The meeting took note of TD272R1 and agreed to share the material with all ITU-T study groups ([TSAG-LS14R1](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00014R1.zip) / [TD287](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0287)). |

# 19 ITU-T meeting schedule including date of next TSAG meeting

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| 19.1 | TSAG took note of [TD194R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0194), with the schedule of ITU-T meetings in 2023 and 2024. |
| 19.2 | TSAG took note of the plans for the third and fourth TSAG meetings and first and second Interregional Meetings in the study period 2022-2024, which were proposed as follows:   | Event | Tentative venue and date (TBC) | | --- | --- | | 1st Interregional Meeting (IRM)\* | Virtual, Thursday, 22 February 2024 | | 3rd TSAG meeting\* | Geneva, Monday 26 February. – Friday 1 March 2024 | | 2nd Interregional Meeting | Virtual, Thursday, 25 July 2024 | | 4th TSAG meeting | Geneva, Switzerland, Monday 29 July – Friday 2 August 2024 |   NOTE:  \*TSAG was made aware of the possibility that the dates or venue of the third TSAG meeting could change: e.g., by moving the third TSAG meeting earlier (when hosted by ITU in Geneva), due to possible Geneva Motor Show event in parallel with the currently planned dates so as to avoid excessive hotel room rates, or the possibility of receiving an invitation from a host country abroad of Switzerland.  It was also requested to avoid any conflict with the Chinese New Year period in 2024 (9-15 February) and to take that requirement into account for the planning.  In any case, it was agreed that the IRM#1 meeting be a fully virtually event only and to take place on a Thursday in the week before the TSAG meeting. |
| 19.3 | TSAG took note of [TD283R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0283), which consolidates all planned interim TSAG meetings as follows: |

| # | Date | Time[[4]](#footnote-5) | Format[[5]](#footnote-6) | TSAG Group | Information (ToR/scope/main topic) | Submission  deadline |
| --- | --- | --- | --- | --- | --- | --- |
|  | 27 June 2023 | 1200-1500 hours (UTC+02:00) | V | RG-WM | Progress Rec. ITU-T A.1 | 17 June 2023 |
|  | 4 July 2023 | 1200-1500 hours (UTC+02:00) | V | RG-WM | Progress Rec. ITU-T A.7 | 24 June 2023 |
|  | 5 July 2023 | 1300-1430 hours  (UTC+02:00) | V | RG-WPR | Revisions for the baseline text (TD214R1) concerning:   * definitions of KPIs * relative priorities of KPIs * possible new structures | 28 June 2023 |
|  | 24 July 2023 | 1300-1500 hours (UTC+01:00) | V | RG-DT | * Collect inputs to be used for performing a gap analysis on the activities and studies on digital transformation in ITU-T, ITU-D and ITU-R as well as in other standardization bodies; * Consider definitions, concepts, system architectures, use-cases, fundamental underlying technologies, interoperability, and the ecosystem of digital transformation; * Develop draft new Resolution WTSA on digital transformation. | 16 July 2023 |
|  | 27 July 2023 | 1300-1500 hours (UTC+02:00) | V | RG-IEM | CTO/CxO review | 19 July 2023 |
|  | 5 September 2023 | 1300-1500 hours (UTC+02:00) | V | RG-IEM | Preparations for the industry engagement workshop | 28 August 2023 |
|  | 12 September 2023 | 1300-1500 hours (UTC+02:00) | V | RG-WM | Progress draft new Supplement A.SupRA and possible way forward for Recs ITU-T A.4 and A.6 | 2 September 2023 |
|  | 13 September 2023 | 1200-1400 hours  (UTC+02:00) | V | RG-WPR | Revisions for the baseline text (TD214R1) concerning:   * definitions of KPIs * relative priorities of KPIs * possible new structures | 6 September 2023 |
|  | 21 September 2023 | 1300-1500 hours (UTC+02:00) | V | RG-WTSA | Progress draft new A.SupWTSAGL and A.BN; review proposals on concrete implementation of streamlining of WTSA Resolutions and Opinion. | 13 September 2023 |
|  | 27 September 2023 | 1300-1500 hours (UTC+01:00) | V | RG-DT | * Progress a gap analysis on the activities and studies on digital transformation; * Consider inter alia, definitions, concepts, system architectures, use-cases, fundamental underlying technologies, interoperability, and the ecosystem of digital transformation; * Progress draft new Resolution WTSA on digital transformation. | 19 September 2023 |
|  | 9 October 2023 | 1300-1500 hours (UTC+02:00) | V | RG-IEM | WTSA Resolution 68 | 1 October 2023 |
|  | 19 October 2023 | 1300-1500 hours (UTC+02:00) | V | RG-WTSA | Progress draft new A.SupWTSAGL and A.BN; review proposals on concrete implementation of streamlining of WTSA Resolutions and Opinion. | 11 October 2023 |
|  | 24 October 2023 | 1200-1500 hours (UTC+02:00) | V | RG-WM | Progress Rec. ITU-T A.1 | 14 October 2023 |
|  | 7 November 2023 | 1300-1500 hours (UTC+01:00) | V | RG-IEM | Emerging technology mechanism | 30 October 2023 |
|  | 15 November 2023 | 1230-1400 hours (UTC+01:00) | V | RG-WPR | Revisions for the baseline text (TD214R1) concerning:   * definitions of KPIs * relative priorities of KPIs * possible new structures | 8 November 2023 |
|  | 16 November 2023 | 1300-1500 hours (UTC+01:00) | V | RG-WTSA | Progress draft new A.SupWTSAGL and A.BN; review proposals on concrete implementation of streamlining of WTSA Resolutions and Opinion. | 8 November 2023 |
|  | 17 November 2023 | 1300-1500 hours (UTC+01:00) | V | RG-DT | * Progress a gap analysis on the activities and studies on digital transformation; * Consider inter alia, definitions, concepts, system architectures, use-cases, fundamental underlying technologies, interoperability, and the ecosystem of digital transformation; * Progress draft new Resolution WTSA on digital transformation; * Submit RG-DT report to TSAG. | 9 November 2023 |
|  | 21 November 2023 | 1200-1500 hours (UTC+01:00) | V | RG-WM | Discuss pending issues from previous rapporteur group meetings | 11 November 2023 |
|  | 5 December 2023 | 1200-1500 hours (UTC+01:00) | V | RG-WM | Discuss pending issues from previous rapporteur group meetings | 25 November 2023 |
|  | 12 December 2023 | 1300-1500 hours (UTC+01:00) | V | RG-IEM | Metrics | 4 December 2023 |
|  | 10 January 2024 | 1300-1500 hours (UTC+01:00) | V | RG-WPR | Revisions for the baseline text (TD214R1) concerning:   * definitions of KPIs * relative priorities of KPIs * possible new structures | 5 January 2024 |
|  | 18 January 2024 | 1300-1500 hours (UTC+01:00) | V | RG-WTSA | Progress draft new A.SupWTSAGL and A.BN; review proposals on concrete implementation of streamlining of WTSA Resolutions and Opinion. | 10 January 2024 |
|  | 30 January 2024 | 1300-1500 hours (UTC+01:00) | V | RG-IEM | Industry participation | 22 January 2024 |
|  | Spring 2024 | TBD | Host/ GE? | – | Industry Engagement Workshop | – |

# 20 Consideration of draft meeting Report

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| 20.1 | The Chairman announced that, as per the practice in past TSAG meetings, the draft meeting report in [TD173](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0173) would be prepared in due course and open for review and comments for a period of two weeks. |

# 21 Closure of meeting

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| 21.1 | The ITU Secretary General, Ms Doreen BOGDAN-MARTIN, in her closing remarks congra­tulated for this successful TSAG meeting. She highlighted that this TSAG meeting contributed making ITU the most inclusive and most accessible standardization platform in the world. Consensus-based discussions on key topics from the metaverse to digital trans­formation and digital innovation as are in ITU's two strategic goals, universal connectivity and sustainable digital transformation, are bringing huge value and also visibility to ITU's work. She acknowledged enhanced level of industry participation and also in industry leader­ship, manifesting in ground-breaking initiatives like AI for Good, the Digital Currency Global Initiative, and the United for Smart Sustainable Cities Initiative. She pointed out that the world is turning to the ITU to develop technical standards and to foster trust in things like AI, and where the world is looking at the ITU to be taking inspiring actions in areas such as climate, and also for ITU to ensure safeguarding human rights. She looked forward to the SDG Digital Day on 17 September 2023 in New York just ahead of the SDG Summit, where ITU's goal is to put digital front and centre to rescue the sustainable digital goals. |
| 21.2 | The TSB Director, Mr Seizo ONOE, acknowledged in his closing remarks that this TSAG meeting has progressed important discussions from ITU-T's strategy and operations; and has moved efficiently through the significant workload. Debates have been challenging but always the spirit of cooperation and mutual respect has prevailed for which ITU is so well known, and exactly such spirit will be much needed to make the WTSA-24 impactful and successful. He welcomed the experts and communities to serve as innovators and progress made of ITU standards and to support diverse innovation areas from energy and mobility to health care, financial services, agriculture, and smart cities and AI adoption. Human rights in ITU-T's standards is an example of stakeholder influence, where ITU-T's technical expertise in framing the technical requirements adds value, but success requires engagement from Civil Society. Implementation of standards is very important, it makes the standardization meaningful and truly valuable, and this is where industry engagement could yield a double-win situation. |
| 21.3 | The TSAG Chairman thanked participants for the successful conclusion of this TSAG meeting, in particular the TSAG Vice-Chairmen, the Working Party Chairmen and WP Vice-Chairmen, the Rapporteurs and Associate Rapporteurs, the Chairmen of the study groups, chairmen of ad hoc groups/drafting/editing sessions, and the delegates for their active participation and their spirit of compromise. He also thanked Messrs Seizo ONOE, Bilel JAMOUSSI, Martin EUCHNER for their excellent guidance, advice, and support, and Ms Lara AL-MNINI for her excellent assistance and dedication, the TSB Counsellors (Ms Tatiana KURAKOVA, Ms Xiaoya YANG, Mr Stefano POLIDORI, Mr Hiroshi OTA, Mr Simão CAMPOS, Mr Martin ADOLPH, and Mr Denis ANDREEV) who supported the work, the projection assistants, TSB staff, the TSB and IS staff for IT and logistics, as well as the interpreters and the captioners, for their support and work. He wished all delegates safe travels. |
| 21.4 | The TSAG meeting was closed on 2 June 2023 at 1650 hours, Geneva time. |

# Annex A Summary of results of the TSAG Plenary, TSAG Working Parties, and of the TSAG Rapporteur Groups

| Group | Reports | Outgoing liaison statements, and other agreed outputs | Future meetings |
| --- | --- | --- | --- |
| TSAG | ([TD173](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0173)R1)  [TSAG-R2](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-R-0002) | * LS/r on new ITU-T Focus Group on costing models for affordable data services (FG-CD) [to ITU-T FG-CD, ITU-T SG3] ([TSAG-LS13](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00013.docx)) * LS/r on SMART Subsea Cables - Science Monitoring And Reliable Telecommunications [to ITU/WMO/ UNESCO IOC Joint Task Force on SMART submarine cables, to all ITU-T study groups] ([TSAG-LS14R1](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00014R1.zip)) * LS on metaverse work items and ITU-T Focus Group on metaverse [to all ITU-T study groups] ([TSAG-LS21](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00021.docx)) | * TBD |
| WP1 | [TD177R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0177) | * LS on using inclusive language in ITU-T texts [to all ITU-T SGs, SCV, ISCG] ([TSAG-LS20](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00020.docx)) | * TBD |
| WP2 | [TD180R2](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0180) |  | * TBD |
| RG-DT | – | – | * 24 July 2023: Main topic: gap analysis, definitions, concepts, system architectures, use-cases, fundamental underlying technologies, interoperability, and the ecosystem, new WTSA Resolution. Deadline: 16 July 2023. * 27 September 2023: Main topic: gap analysis, definitions, concepts, system architectures, use-cases, fundamental underlying technologies, interoperability, and the ecosystem, new WTSA Resolution. Deadline: 19 September 2023. * 17 November 2023: Main topic: gap analysis, definitions, concepts, system architectures, use-cases, fundamental underlying technologies, interoperability, and the ecosystem, new WTSA Resolution. Deadline: 9 November 2023. |
| RG-IEM | [TD182R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0182) | * LS on incubation mechanism [to all ITU-T study groups] ([TSAG-LS16](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00016.zip)) | * 27 July 2023: 1300-1500 hours, virtual. Main topic: CTO/CxO review. Deadline: 19 July 2023 * 5 September 2023: 1300-1500 hours, virtual. Main topic: Workshop. Deadline: 28 August 2023 * 9 October 2023: 1300-1500 hours, virtual. Main topic: WTSA Resolution 68. Deadline: 1 October 2023 * 7 November 2023: 1300-1500 hours, virtual. Main topic: Emerging technology mechanism. Deadline: 30 October 2023 * 12 December 2023: 1300-1500 hours virtual. Main topic: Metrics. Deadline: 4 December 2023 * 30 January 2024: 1300-1500 hours, virtual. Main topic: Industry participation: Deadline: 22 January 2024 |
| RG-WM | [TD183R3](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0183) | * (determined) draft revised Recommendation ITU-T A.8, *Alternative approval process for new and revised ITU T Recommendations* ([TSAG-R3](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-R-0003)) * Agreed revised "*Author's guide for drafting ITU-T Recommendations*" ([TD294](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0294)). * LS to request the appointment of an electronic working methods (EWM) liaison [to all ITU-T SGs] ([TSAG-LS19](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00019.docx)) | * 12 September 2023: 1300-1500 hours, virtual. Main topic: Progress draft new Supplement A.SupRA and possible way forward for Recs ITU-T A.4 and A.6. Deadline: 2 September 2023 * 24 October 2023: 1200-1500 hours, virtual. Main topic: Rec. ITU-T A.1. Deadline: 14 October 2023 * 21 November 2023: 1200-1500 hours, virtual. Main topic: Discuss pending issues from previous rapporteur group meetings. Deadline: 11 November 2023 * 5 December 2023: 1200-1500 hours, virtual. Main topic: Discuss pending issues from previous rapporteur group meetings. Deadline: 25 November 2023 |
| RG-WPR | [TD186](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0186) | * LS on status of the implementation of the action plan for analysis of ITU-T structural alternatives [to all ITU-T SGs] ([TSAG-LS18](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00018.zip)) | * 5 July 2023: 1300-1430 hours, virtual. Main topic: Revisions for the baseline text (TD214R1) concerning: definitions of KPIs, relative priorities of KPIs, possible new structures. Deadline: 28 June 2023 * 13 September 2023: 1200-1330 hours, virtual. Main topic: Revisions for the baseline text (TD214R1) concerning: definitions of KPIs, relative priorities of KPIs, possible new structures. Deadline: 6 September 2023 * 15 November 2023: 1230-1400 hours, virtual. Main topic: Revisions for the baseline text (TD214R1) concerning: definitions of KPIs, relative priorities of KPIs, possible new structures. Deadline: 8 November 2023 * 10 January 2024: 1300-1500 hours virtual. Main topic: Revisions for the baseline text (TD214R1) concerning: definitions of KPIs, relative priorities of KPIs, possible new structures. Deadline: 5 January 2024 |
| RG-WTSA | [TD188](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0188) | * LS on draft analysis of operational parts (resolves, instructs etc) of WTSA/PP/WTDC Resolutions [to all ITU-T SGs and regional telecommunication organizations] ([TSAG-LS15](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00015.zip)) * LS on further cooperation and mutual interest between ITU-T and UPU under WTSA Resolution 11 [to UPU] ([TSAG-LS17](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00017.docx)) | * 21 September 2023: 1300-1500 hours, virtual: Main topic: Progress draft new A.SupWTSAGL and A.BN; review proposals on concrete implementation of streamlining of WTSA Resolutions and Opinion. Deadline: 13 September 2023 * 19 October 2023: 1300-1500 hours, virtual. Main topic: Progress draft new A.SupWTSAGL and A.BN; review proposals on concrete implementation of streamlining of WTSA Resolutions and Opinion.; Deadline: 11 October 2023 * 16 November 2023: 1300-1500 hours, virtual. Main topic: Progress draft new A.SupWTSAGL and A.BN; review proposals on concrete implementation of streamlining of WTSA Resolutions and Opinion. Deadline: 8 November 2023 * 18 January 2024: 1300-1500 hours, virtual. Main topic: Progress draft new A.SupWTSAGL and A.BN; review proposals on concrete implementation of streamlining of WTSA Resolutions and Opinion. Deadline: 10 January 2024 |

# Annex B Work items of TSAG

| RG | Work item | Type of text | New/Rev | Status | Approval process | Timing | Subject / Title | Base text(s) | Editor(s) | Summary |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| RG-WM | [A.Sup‌RA](https://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=18704) | Supplement | New | Under study | Agreement | 2024-02 (medium priority) | Guidelines on the appointment and operations of registration authorities | [TD251R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0251) | [Olivier DUBUISSON](mailto:olivier.dubuisson@orange.com) | This Supplement provides guidance to aid ITU-T study groups in developing Recommendations with a registration function and in selecting a registration authority to provide this function. |
| RG-WM | A.1 | Recommendation | Revised | Under study | TAP | 2024-02[[6]](#footnote-7) | Working methods for study groups of the ITU Telecommunication Standardization Sector | [TD255R4](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0255) | [Olivier DUBUISSON](mailto:olivier.dubuisson@orange.com) | Recommendation ITU-T A.1 describes general work methods for ITU T study groups. It provides guidelines related to work methods, such as the conduct of meetings, preparation of studies, management of study groups, joint coordination groups, the role of rapporteurs and the processing of ITU T contributions and TDs. |
| RG-WM | A.7 | Recommendation | Revised | Under study | TAP | 2024-02[[7]](#footnote-8) | Focus groups: Establishment and working procedures | [TD217R2](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0217) | [Olivier DUBUISSON](mailto:olivier.dubuisson@orange.com); [Ena DEKANIC](mailto:ena.dekanic@fcc.gov) | Recommendation ITU-T A.7 describes working methods and procedures of a focus group such as its establishment, terms of reference, leadership, participation, financing, support, deliverables, etc.  ITU-T focus groups are a flexible tool for progressing new work. Such flexibility may allow for groups developing a wide range of deliverables. Since there have been many instances in which the membership of a focus group does not have experience in the development of technical specifications, it has been common that focus group deliverables, although useful, needed to be reworked by the parent study groups.  The creation of focus group guidelines for their working, including continued coordination with their parent group, could facilitate the swift development of deliverables by the parent group.  Appendix I provides a set of guidelines to guide study groups and focus groups when implementing ITU-T A.7 focus groups that aim at producing specifications that can be efficiently streamlined from focus group deliverables to ITU-T Recommendations or Supplements, or otherwise. |
| RG-WM | A.8 | Recommendation | Revised | Determined | TAP | 2023-06 | Alternative approval process for new and revised ITU T Recommendations | [TD293](http://www.itu.int/md/T22-TSAG-230530-TD-GEN-0293/en) | [Olivier DUBUISSON](mailto:olivier.dubuisson@orange.com) | Recommendation ITU-T A.8 provides working methods and procedures for approving draft new and revised ITU-T Recommendations using the alternative approval process. |
| RG-WTSA | [A.BN](http://www.itu.int/itu-t/workprog/wp_item.aspx?isn=18702) | Other (Briefing Note) | New | Under study | Agreement | 2024-02  (medium priority) | Briefing note: How to chair WTSA Committee/Ad hoc meetings | [TD262](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0262) | [Isaac BOATENG](mailto:isaac.boateng@nca.org.gh) | This briefing note is expected to provide guideline for WTSA leaders on how to organize the discussion and review of WTSA Resolutions during the weekend AHGs and to meet the timeline at WTSA. |
| RG-WTSA | [A.Sup‌WTSAGL](http://www.itu.int/itu-t/workprog/wp_item.aspx?isn=18701) | Supplement | New | Under study | Agreement | 2024-02  (medium priority) | WTSA preparation guideline on Resolutions | [TD261R1](https://www.itu.int/md/T22-TSAG-230530-TD-GEN-0261) | [Evgeny TONKIKH](mailto:et@niir.ru) | This supplement provides a guideline for ITU-T members on how to propose draft new and revised existing WTSA Resolutions in the preparation for WTSA. The review of WTSA Resolutions include editorial updates, identify overlap, identify candidates for suppression, how to simplify/shortening Resolutions, prepare consolidated draft texts, active involvement of the regional telecommunication organizations in pre-WTSA deliberations. |

# Annex C Terms of reference of the TSAG Rapporteur Group on sustainable digital transformation (RG-DT)

**RG-DT objectives:**

1. Perform a gap analysis on the activities and studies on sustainable digital transformation in ITU-T, ITU-D and ITU-R as well as in other standardization bodies.

2. Consider inter alia, definitions, concepts, system architectures, use-cases, fundamental underlying technologies, interoperability, and the ecosystem of sustainable digital transformation.

3. Identify stakeholders with whom ITU-T could collaborate and propose potential collective action and specific next steps.

4. Submit the results of the gap analysis and its recommendations to the next TSAG meeting for consideration and proper action.

5. Draft new Resolution WTSA on sustainable digital transformation.

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1. <https://extranet.itu.int/sites/itu-t/studygroups/2022-2024/tsag/Captioning/Forms/AllItems.aspx> [↑](#footnote-ref-2)
2. Webcast recording for the TSAG plenary sessions is available at <https://www.itu.int/webcast/archive2/t2022-24tsag> [↑](#footnote-ref-3)
3. Namely, definitions developed in informal ITU‑T documents; use of terms defined in non-ITU references; need to obtain copyright licenses to use texts copied into ITU documents from other standards (including definitions). [↑](#footnote-ref-4)
4. Geneva time, unless indicated otherwise. [↑](#footnote-ref-5)
5. Format: Physical (P), Virtual (V), Physical with Remote participation (PR) [↑](#footnote-ref-6)
6. TAP approval at the July 2024 meeting of TSAG. [↑](#footnote-ref-7)
7. TAP approval at the July 2024 meeting of TSAG. [↑](#footnote-ref-8)