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| A black and white logo  Description automatically generated | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2025-2028 | | | TSAG-TD4R1 |
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| **Title:** | | | Report of the first meeting of the Telecommunication Standardization Advisory Group (Geneva, 26-30 May 2025) – Plenary sessions | |
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| **Abstract:** | This TD contains the report of the first meeting of the ITU-T Telecommunication Standardization Advisory Group (Geneva, 26-30 May 2025) in the 2025-2028 study period. NOTE – The final version of this Report will be issued as [TSAG-R1](https://www.itu.int/md/T25-TSAG-R-0001). |

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.

The Report for the first meeting of TSAG is published in one part:

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| TSAG-R1 | Plenary sessions |

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# General information and opening of the meeting by the TSAG Chair

The TSAG Chair, Mr Abdurahman M. AL HASSAN, Saudi Arabia (Kingdom of), welcomed the TSAG participants to the first meeting of the Telecommunication Standardization Advisory Group (TSAG) for the 2025-2028 study period, which was held in Geneva, 26-30 May 2025. Mr AL HASSAN was assisted by Mr Bilel JAMOUSSI, Deputy to the TSB Director, and Mr Hiroshi OTA, Advisor.

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| 1.1 | Live interpretation in six official ITU languages was provided to TSAG plenary sessions and WP sessions on 26 and 30 May 2025. 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 [TD6](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0006), which provided guidance on using Zoom, the public chat and the use of the timer tool. Additional information on using Zoom was available at [Using Zoom in TSAG](https://www.itu.int/en/ITU-T/tsag/2025-2028/Documents/TSAG_Zoom_User_Guide.pdf). |
| 1.2 | Mr AL HASSAN first requested the meeting to observe a minute of silence in remembrance of Mr Henry (Hank) L. Marchese, a U.S. AT&T veteran who chaired CCITT Study Group 4 "Transmission maintenance of international lines, circuits and chains of circuits; maintenance of automatic and semi-automatic networks" (1985–1988),was instrumental in the transition of CCITT to ITU-T at the 1992 Plenipotentiary Conference, and the introduction of the A series Recommendations under TSAG.  He then welcomed the ITU Secretary General, Ms Doreen BOGDAN-MARTIN, the BDT Director, Mr Cosmas ZAVAZAVA and the TSB Director, Mr Seizo ONOE. |
| 1.3 | All the TSAG Vice-Chairs attended the meeting: Ms Nurona Makhmudova (Uzbekistan), Ms Gaëlle Martin-Cocher (InterDigital Canada Ltd), Ms Miho Naganuma (NEC Corporation, Japan) and Messrs Jasim Al Ali (United Arab Emirates), Yazeed Aljaafreh (Jordan), Per Frojdh (Telefon AB - LM Ericsson, Sweden), Mihail Ion (Romania), Guy-Michel Kouakou (Republic of Côte d'Ivoire), Nilo Pasquali (Brazil), and Heung Youl Youm (Korea (Rep. of)). |
| 1.4 | A training session for TSAG newcomers was organized on 27 May 2025; the newcomer welcome pack material is contained in [TD17](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0017). |
| 1.5 | In total, 287 participants attended this first TSAG meeting (176 physical participants and 111 remote participants). [TD19](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0019) shows the final list of participants. |
| 1.6 | This report contains the following annexes:   * Annex A: Decisions on Recommendations * Annex B: Terms of reference of TSAG Working Parties and Rapporteur Groups * Annex C: Leadership of the various working parties, rapporteur groups, JCAs and other roles under TSAG * Annex D: Terms of Reference of the new ITU-T Joint Correspondence Group on IoT Security (JCG-IoTSec) * Annex E: Terms of Reference of the new ITU-T Joint Correspondence Group on Trust (JCG-Trust) * Annex F: Terms of Reference of the new ITU-T Joint Coordination Activity on metaverse standardization (JCA-MV) * Annex G: Terms of Reference of the renewed ITU-T Joint Coordination Activity on verifiable health credentials (JCA-VHC) * Annex H: Interim RGM schedule * Annex I: Updates to the TSAG work programme * Annex J: Outgoing liaison statements |
| 1.7 | Account of resources used and fellowships provided:   * Captioning: CHF 3760 * Interpretation (two days): CHF 21119 * Fellowships: 9 requests received, 9 granted and xx used (CHF 12880) |

# Opening remarks

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| 2.1 | ITU Secretary General, Ms Doreen BOGDAN-MARTIN gave her opening remarks. |
| 2.2 | The BDT Director, Mr Cosmas ZAVAZAVA, gave his opening remarks. |
| 2.3 | The TSB Director, Mr Seizo ONOE, welcomed all delegates to this first TSAG meeting in this 2025-2028 study period. His speech is found in [TD12](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0012). |
| 2.4 | The TSAG Chair gave his opening remarks |

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

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| 3.1 | The meeting adopted:   * Agenda, document allocation and work plan [TD2R3](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0002). * Time management plan in [TD1R4](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0001).   The meeting took note of the overview of the agendas and reports in [TD5](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0005). |
| 3.2 | TSAG adopted the draft agenda in [TD3](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0003) for the TSAG closing plenary session on 30 May 2025. |
| 3.3 | [TD14R1](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0014) lists contributions submitted and considered during this TSAG meeting. |
| 3.4 | [TD15](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0015) lists incoming liaison statements for this TSAG meeting. |

# Appointments

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| 4.1 | [TD22R2](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0022) proposed TSAG structure, organization, and leadership for the 2025-2028 study period. TSAG approved. |
| 4.2 | [TD7R3](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0007) proposed Terms of Reference for the TSAG WPs and RGs. TSAG approved, as found in Annex B. |
| 4.3 | TSAG agreed to the proposed appointment of JCA leaderships and other roles, as found in [TD128R3](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0128). |
| 4.4 | The agreed leadership of the various working parties, rapporteur groups, JCAs and other roles under TSAG is summarized in Annex C. |

# Reports by the TSB Director

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| 5.1 | The TSB Director presented the ITU-T activity report ([TD9](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0009), 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 August 2024 to May 2025. It was noted. |
| 5.2 | [TD10R1](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0010) showed the action plan related to the Resolutions and Opinion of WTSA. It was noted. |

# Network of Women in ITU-T (NoW)

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| 6.1 | [TD77](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0077) informed on the outcome of the survey on promoting gender equality. It was noted. |
| 6.2 | [TD119](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0119) provided the composition of the management team of the Network of Women in ITU-T (NoW in ITU-T) for the 2025–2028 Study Period. The appointments in this TD were endorsed. |

# ITU-T Joint Coordination Activities (JCA)

## 7.1 JCA on Accessibility and Human Factors (JCA-AHF)

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| 7.1.1 | [TD31](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0031) provided the progress report of JCA-AHF. It was noted.  TSAG endorsed its continuation until next TSAG meeting pending the review process (see clause 7.9). TSAG also agreed with the updated JCA-AHF leadership, as listed in Annex C. |

## 7.2 JCA on Digital COVID 19 certificates (ITU-T JCA-DCC)

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| 7.2.1 | [TD30](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0030) provided the progress report. It was noted. |
| 7.2.2 | [C5](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-C-0005) proposed to continue JCA-DCC (Digital COVID-19 Certificates) as JCA-VHC (Verifiable Health Credentials). Annex G provides the agreed revised terms of reference.  TSAG endorsed its continuation until next TSAG meeting pending the review process (see §7.9). |

## 7.3 JCA on Quantum Key Distribution Network (ITU-T JCA-QKDN)

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| 7.3.1 | [TD32](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0032) provided the report of the recent activities of JCA-QKDN. It was noted. |
| 7.3.2 | [C7](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-C-0007) proposed to continue JCA-QKDN.  TSAG endorsed its continuation until next TSAG meeting pending the review process (see §7.9). |

## 7.4 JCA on Internet of Things, digital twins and smart sustainable cities and communities (JCA-IoT, DT and SSC&C)

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| 7.4.1 | [TD50](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0050) provided the revised title and Terms of Reference of Joint Coordination Activity on Internet of Things and Smart Cities and Communities (JCA-IoT and SC&C). It was noted.  TSAG endorsed its continuation until next TSAG meeting pending the review process (see §7.9). |

## 7.5 JCA on Machine Learning (JCA-AI/ML)

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| 7.5.1 | [TD75](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0075) informed TSAG of revision of the terms of reference and name of this JCA with the same leadership.  TSAG endorsed its continuation until next TSAG meeting pending the review process (see §7.9). |

## 7.6 JCA on IMT2020

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| 7.6.1 | SG13 chair informed that SG13 agreed to continuation of this JCA and TSAG endorsed that at the last TSAG meeting (Geneva, 29 July - 2 August 2024) as shown in [TSAG-R8](https://www.itu.int/md/T22-TSAG-R-0008/en). It was noted.  TSAG endorsed its continuation until next TSAG meeting pending the review process (see §7.9). |

## 7.7 JCA on Identity Management (JCA-IdM)

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| 7.7.1 | [TD88](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0088) informed TSAG about continuation of the Joint Coordination Activity on Identity Management (JCA-IdM) for this study period (2025-2028).  TSAG endorsed its continuation until next TSAG meeting pending the review process (see §7.9). |

## 7.8 JCA on Child Online Protection (JCA-COP)

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| 7.8.1 | [TD132](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0132) provided background information on JCA-COP.  TSAG noted this TD and instructed SG17 to consider the way forward, considering the guidance for review of JCAs (see §7.9 below) and the request from TSAG for all SGs to streamline JCA operations (see item 8 of §13.1.4 below). |

## 7.9 Guidance for review of JCAs

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| 7.9.1 | After the discussion on JCAs, it was felt that guidance for review of JCAs is necessary. A new appendix of A.18 "Guiding principles for the periodic review of JCAs" was developed and agreed to help the review of JCAs (see §13.1.3 No.5 and §13.1.4). TSAG decided to continue all the JCAs until the next TSAG meeting, when their continuation will be reviewed based on the information provided (see §13.1.3 No.8b concerning a liaison statement [TSAG-LS9](https://www.itu.int/ifa/t/2025/ls/tsag/sp18-tsag-oLS-00009.zip) to all SGs on the subject).  The TSAG Chair invited TSAG and all SGs to review the JCAs that report to them with a view to only keeping those JCAs that must continue applying the guidelines in A.18 Appendix I and keeping in mind the financial implications of JCAs to TSB and ITU-T membership |

# Human rights

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| 8.1 | [C19R1](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-C-0019) proposed that TSAG should ask the Director TSB to take forward a program of work on this topic to support and inform Member States, and to report back to Member States at the next meeting of TSAG.  TSAG requested the TSB Director to continue working on the issue of human rights and standardization, within the existing budget and ITU mandate, taking into account C19R1. |

# Bridging the Standardization Gap (BSG)

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| 9.1 | [TD115](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0115) provided a progress report on Bridging the Standardization Gap (BSG). It was noted. |
| 9.2 | [TD113](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0113) provided material on Bridging the Standardization Gap (BSG) training on Contribution and TSAG overview, which was held as a virtual session on 28 April 2025. It was noted. |

# Vocabulary

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| 10.1 | [TD34](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0034) provided the report of activities of the Standardization Committee for Vocabulary. It was noted. |

# Collaboration with other sectors and organizations

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| 11.1 | [TD56R1](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0056) reported on the progress made by the IEC SMB/ISO TMB/ITU-T TSAG Standardization Programme Coordination Group (SPCG). It was noted. |
| 11.2 | [TD146R1](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0146) proposed operating principles and expected deliverables for TSAG representatives to the IEC-ISO-ITU-T Standardization Programme Coordination Group (SPCG). TSAG approved the proposal. |
| 11.3 | TSAG took note of the report of the ISCG ([TD81](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0081)) and appointed its representatives and coordinators. |

# ITU Journal

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| 12.1 | [TD117](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0117) provided details on all 2024 and 2025 publications as well as on the latest Webinar Series which share insights from leading minds in academia and industry. It was noted. |

# Results of TSAG Working Parties

## 13.1 TSAG Working Party 1 "Working methods, collaboration, engagement and strategic planning"

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| 13.1.1 | Working Party 1 met under the leadership of the WP1 Chair, Ms Minah Lee (Korea (Rep. of)), with the assistance of the WP1 Vice-Chair, Mr Per Frojdh (Telefon AB - LM Ericsson, Sweden) and Mr Simão Campos (TSB). |
| 13.1.2 | [TD97R1](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0097) provided the WP1 report. |
| 13.1.3 | Action to TSAG:   1. TSAG to approve the changes to the **terms of reference** of **WP1, RG-IES and RG-WM** as found in [TSAG-TD7R3](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0007/en) §D.1, §D.3 and §D.4, respectively. 2. RG-IES-2: TSAG to issue a liaison statement to all ITU-T Study Groups to request input and support from all Study Groups to identify potential metrics and a suitable framework for the development of ITU-T standards success stories ([TSAG-TD140R2](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0140)). 3. RG-IES-3: TSAG to appoint Mr Scott Mansfield as TSAG Representative to ISCG to support the coordination on the topic of industry engagement 4. RG-WM-3: TSAG Plenary to appoint Mr Phil Rushton (UK) as TSAG Representative to ISCG especially to support the coordination of the remote participation guidelines. 5. RG-WM-4: TSAG to agree the new appendix in ITU-T A.18 to guide SGs and TSAG on the JCA review process found in the attachment to [TSAG-TD141R2](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0141/en). 6. RG-WM-6: TSAG to endorse adding a new work item in the work programme to initiate revision of WTSA Res.1 as found in [TSAG-TD130R3](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0130/en), see Annex I. 7. RG-WM-7: TSAG to endorse the updated RG-WM work programme as found in [TSAG-TD125R2](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0125/en), see Annex I. 8. TSAG Plenary to issue the following liaison statements: a) RG-WM-2: LS/o to SG2, 11, 17 and 21 to request comments on the draft A.RA for possible determination at next TSAG meeting ([TSAG-TD136R1](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0136/en)). b) RG-WM-5: LS/o to all SGs and JCAs to inform on the new appendix in ITU-T A.18 ([TSAG-TD149R2](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0149/en)). 9. RG-IES-4: TSAG to authorize RG-IES to hold two interim rapporteur group meetings (all online), as found in listed in §‎9.1 of [TSAG-TD97R1](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0097). See details in Annex H. 10. RG-WM-8: TSAG to authorize RG-WM to hold three interim rapporteur group meetings (all online), as found in §‎9.2 of [TSAG-TD97R1](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0097). See details in Annex H. 11. Approve the WP1 report as found in [TSAG-TD97R1](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0097). |
| 13.1.4 | The actions above were agreed by TSAG. |

## 13.2 TSAG Working Party 2 "Work Programme, restructuring and thematic Resolutions"

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| 13.2.1 | Working Party 2 met under the leadership of the WP2 Chair, Ms Gaëlle MARTIN-COCHER (InterDigital, Canada), with the assistance of the WP2 Vice-Chair, Mr Guy-Michel KOUAKOU (Côte d'Ivoire), and Ms Tatiana KURAKOVA (TSB). |
| 13.2.2 | [TD100R2](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0100) provided the WP2 meeting report. |
| 13.2.3 | Actions to TSAG related to RG-WPR   1. **WP2-4:** Review the inclusion of the item about streamlining the Resolutions, assess the ToR in their entirety and approve the **ToR for the RG-WPR** as found in [TD7R3](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0007/en) 2. **RG-WPR-1, 2, 3, 4:** Adopt revised **Questions** Q3/17 *"Telecommunication information security management and security services"* ([TD89](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0089)), Q10/17 *"Management of digital identity"* ([TD90](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0090)), Q6/21 *"Visual, audio and signal coding"* ([TD58](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0058)), and new Question Q10/20 *"Internet of Things (IoT) solutions for effective energy management in smart sustainable cities and communities (SSC&C)"* ([TD48](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0048/en)) 3. **RG-WPR-5**: Approve Liaison Statement on Q9/21 (metaverse), [TD142](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0142/en) 4. **WP2-8:** Approve the Liaison Statement on the Terms of reference ITU-T SGs at the New work item opening – [TD150R1](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0150/en" \t "_blank) 5. **RG-WPR-6**: Approve Liaison Statement on Collaboration and Coordination on Smart and Sustainable Communities, [TD138R3](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0138) 6. **RG-WPR-7**: Approve the **ToR** for coordination between SGs 17 and 20 on WTSA-24 Action 7 (IoT Security) – [TD144](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0144/en). See Annex D. 7. **RG-WPR-8:** Approve the **ToR** for coordination between SGs 13, 17 and 20 on WTSA-24 Action 8 (Trust) – [TD145](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0145/en). See Annex E. 8. **WP2-9**: Approve Liaison Statement on the establishment of the Joint Correspondence Group on IoT Security (JCG-IoTSec) – [TD151R1](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0151/en) 9. **WP2-10**: Approve Liaison Statement on the establishment of the Joint Correspondence Group on Trust (JCG-Trust) – [TD152](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0152/en) 10. **RG-WPR-9:** Advise the Director of TSB to include in his report to Council the request to allocate budget to convene workshops in line with WTSA-24 Action 4, and to report back to TSAG 11. **RG-WPR-10:** Allocate ITU-T F.742.3 under ITU-T Study Group 20 and amend Resolution 2 Annex C accordingly.   NOTE – No RGMs are planned for RG-WPR before the next TSAG meeting.  Actions to TSAG related to RG-DT   1. **WP2-5:** Review the inclusion of the item about streamlining the Resolutions, assess the ToR in their entirety and approve the ToR for the RG-DT as appears in [TD7R3](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0007/en) 2. **RG-DT-1:** Approve Liaison Statement on activities and studies on sustainable digital transformation, [TD147R1](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0147/en) 3. **RG-DT-2:** Approve Liaison Statement on work on Digital Transformation, [TD148](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0148/en) 4. **WP2-6:** Agree the interim rapporteur group meetings (all online) for RG-DT, as found in as found in §‎10 of [TSAG-TD100R2](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0100). See details in Annex H.   Actions to TSAG related to WP2   1. **WP2-1**: Approve the ToR of the TSAG WP2 as found in [TD7R3](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0007/en) 2. **WP2-2:** Approve creation of the new JCA-MV with the Terms of Reference as shown in [TD51](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0051) and reporting to TSAG. See Annex F. 3. **WP2-3**: WP2 collected the names of Mr Muath Al Rumayh (Kingdom of Saudi Arabia) and Mr Shin-Gak Kang (ETRI, Republic of Korea) as the co-chairs for this group. TSAG is asked for appointing the new group leadership. 4. **WP2-7**: Approve Liaison Statement on lead study group concept, [TD139R1](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0139). 5. **WP2-12:** Approve the WP2/TSAG meeting report – [TD100R2](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0100). |
| 13.2.4 | The actions above were approved by TSAG. |
| 13.2.5 | TSAG noted the informal consultation group discussion on the AI work organization at ITU-T:  The informal consultation discussion took place immediately after the WP2 closing session. It was devoted to the AI related work and its organization.  The results of the offline consultations on the coordination of AI related works across ITU-T (AI for Good, [ITU-T landscape for AI standards webpage](https://www.itu.int/itu-t/landscape/?topic=tx518&group=g&search_text=), existing Work Items and Questions under the SGs, FGs and JCA-AI/ML), and consideration for future related work as follows. Participants expressed a need for discussions and coordination in advance of the next TSAG meeting. A way forward was proposed as follows:   * The membership is invited to participate in the JCA-AI/ML meeting on 18 July 2025. This meeting may consider whether or not the JCA should remain under the SG13 or should report to TSAG. * TSB director was kindly requested to invite SG chairs and vice-chairs and TSAG chairs and vice chairs for a discussion after the JCA-AI/ML meeting to also discuss any action items from the AI For Good standardization summit. |

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

|  |  |
| --- | --- |
| 14.1 | TSAG took note of [TD13R2](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0013), with the schedule of ITU-T meetings in 2025 and 2026. TSB indicated that this is a living document, which is continuously updated, and that it would provide updates on a regular basis. |
| 14.2 | TSAG took note of the plans of the second and third TSAG meetings in the 2025-2028 study period as follows (subject to change):   | Event | Tentative venue and date (TBC) | | --- | --- | | Second TSAG meeting | Geneva, 26-30 January 2026 | | Third TSAG meeting | Geneva, 1-5 February 2027 |   Various delegations requested a review of the plans of meetings to avoid overlap with important national holidays and other ITU meetings. TSB agreed to look into the issue and to try to identify the best possible solution, also taking into consideration meeting room availability at ITU headquarters, |
| 14.3 | TSAG took note of the planned interim TSAG rapporteur group meetings as in Annex H. |

# Any other business

|  |  |
| --- | --- |
| 15.1 | None. |

# Consideration of draft meeting Report

|  |  |
| --- | --- |
| 16.1 | The Chair announced that, as per the practice in past TSAG meetings, the draft meeting report in [TD4R1](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0004) (this TD) would be prepared in due course and open for review and comments for a period of two weeks. |

# Closure of meeting

|  |  |
| --- | --- |
| 17.1 | The TSB Director delivered his closing remarks. |
| 17.2 | The TSAG Chair delivered his closing remarks. |
| 17.3 | The TSAG meeting was closed on 30 May 2025, 1112 hours, Geneva time. |

Annex A:  
Decisions concerning Recommendations, Supplements and other agreed texts (TSAG, May 2025)

Agreement

| Document | Status | Title | Reference |
| --- | --- | --- | --- |
| A.18 (2nd Edition) | New | Joint coordination activities: Establishment and working procedures, Appendix I: Guiding principles for the periodic review of JCAs | [TD141R2](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0141) |

NOTE – In line with WTSA-24 Resolution 22, TSAG agreed to the following change to Resolution 2, Annex C:

– Assign responsibility of ITU-T F.742.3 to ITU-T SG20, from ITU-T SG21.

Annex B:  
Terms of reference of TSAG Working Parties and Rapporteur Groups

This Annex contains the detailed terms of reference for each of the TSAG working parties and Rapporteur Groups. Table 1 complements the information, showing the overall proposed assignment of WTSA Resolutions, Opinion and Actions to the TSAG Working Parties and Rapporteur Groups.

Table 1 – Assignment of WTSA Resolutions, Opinion and Actions to TSAG WPs and RGs

| WP | RG | Resolutions, Opinion, Actions |
| --- | --- | --- |
| WP1 | Rapporteur Group Working Methods (RG-WM) | * Resolutions 1, 22, 31, 32, 40, 54, 67, 70, 75, 83, 87 * WTSA-24 Action 1 * (ITU-T A-series of Recommendations and Supplements, except A.Suppl 7) |
| Rapporteur Group Industry Engagement and Strategic and Operational Planning (RG-IES) | * Resolutions 7, 11, 18, 34, 43, 44, 55, 68, 74, 85, 90, 107, 108 * WTSA-24 Actions 3, 5, 6 * (ITU-T A-series Supplement 7) |
| WP2 | Rapporteur Group Work Programme and Restructuring, SG Work, SG Coordination (RG-WPR) | * Resolutions 2, 20, 29, 47, 48, 49, 50, 52, 60, 61, 62, 64, 65, 72, 73, 76, 77, 78, 79, 84, 88, 89, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105. * Opinion 1 * WTSA-24 Actions 2, 4, 7, 8, 9, 10, 11, 12, 13, 14, 15 |
| Rapporteur Group Sustainable Digital Transformation (RG-DT) | * Resolutions 58, 69, 86, 106 |

B.1 Working Party 1 on Working methods, collaboration, engagement and strategic planning (WP1)

* Review proposals from RG-WM on the existing and future working methods (Resolution 22), including electronic working methods (Resolution 32) and practices, processes and procedures for the ITU-T Sector, including:
  + ITU-T A-series texts.
  + Guidance to study groups for their organization of work.
  + Manual for Rapporteurs & Editors.
  + Author's Guide.
  + Guidance for fully virtual meetings and physical meetings with remote participation.
  + Accessibility and human factors (Resolution 70).
  + Implementation guidelines for ITU-T Recommendations.
* Review proposals from RG-IES for the ITU strategic and operational plans, increased industry engagement and provide recommendations to TSAG on this topic, including:
  + Progress the implementation of Resolution 68 and 108
  + Streamlining WTSA Resolutions

B.2 Working Party 2 on Work Programme, restructuring and thematic Resolutions (WP2)

* Progress issues related to work programme for 2025-2028 study period, including:
  + Review proposed new or modified ITU-T study group Questions.
  + Coordinate matters crossing ITU-T study groups.
* Progress issues related to the study group structure, including:
  + Analyse ITU-T study group restructuring, using an evidence-based approach, taking into account the restructuring related action plan, and to undertake, monitor and guide the work through a rapporteur group or other appropriate group, and make a progress report on the implementation of an action plan for the analysis of ITU-T study group restructuring at each TSAG meeting (Resolution 99 *instructs TSAG* 1).
  + Develop the detailed study group structure for the next study period in view of improving the efficiency of operation of ITU‑T.
  + Review the Lead Study Group reports andstudy the concept and effectiveness of Lead Study Groups used in Resolution 1 §2.1.5, report the conclusions to the next WTSA (WTSA-24 Action 2).
* Develop a report and proposal(s) to be submitted by TSAG to WTSA-28 on study group responsibilities, mandates and allocation of work to be defined in Resolution 2.
* Progress, study and organise the work on new thematic Resolutions (101, 102, 103, 104 and 105) including WTSA-24 Action 14:
  + To examine areas of overlap between work of the ITU-T and the work of other ITU sectors and international bodies and provide guidance as to how ITU-T should address telecommunications standardization matters related to NGSO satellite systems.
* Progress the implementation of Resolution 58, 69, 86 and 106.
* Review and address Actions from the Action Plan on implementation of WTSA-24 Resolutions & Actions under WP2 responsibilities (see Table 2 of WTSA-24 Action Plan items 2, 7, 8, 9, 10, 13 and 14).
* Foster collaboration by ensuring:
  + Cooperation with WSC, ISO/IEC JTC 1, ISO/IEC/ITU-T SPCG, UPU, and other SDOs and Fora, Consortia etc.
  + Inter-Sector coordination with other ITU Sectors (ITU-D/TDAG, ITU-R/RAG, ISCG, ISC- TF) on matters of mutual interest.
* Provide inputs to the TSAG report with recommendations for consideration by the next WTSA (Resolution 99 instructs TSAG 3).

B.3 Rapporteur Group on Industry Engagement and Strategic and Operational Planning (RG-IES)

* Consider the issue of industry engagement discussed at WTSA-24, including Resolution 68 (Rev. New Delhi, 2024).
* Continue organizing Industry Engagement workshop (IEW) by the IEW Steering Committee (IEWSC), as appropriate.
* Perform a review of the CxO/CTO coordination process.
* Establish an appropriate mechanism at the TSAG level to be used by the study groups and focus groups to examine and coordinate work on new and emerging technologies (Resolution 22 *resolves* 5).
* Review industry engagement statistics.
* Identify mechanisms to improve coordination with other SDOs and opensource communities to avoid duplication.
* Review the annual ITU-T operational plans.
  + Identify the key strategic priorities in ITU-T that are unique to the Sector or at least complementary to those undertaken by other SDOs.
  + Serve as the TSAG focal point to provide appropriate input to the Council on the implementation of the Strategic Plan.
* Provide input to the Council working group on the elaboration of the draft strategic plan in preparation for PP-26 and subsequent years.
* Coordinate the discussion and preparation of TSAG proposals for WTSA-28 regarding streamlining Resolutions, collaboration, coordination, industry engagement and strategic planning (see Table 1 for related Resolutions, Opinions, Actions).
* Monitor the regional preparations for WTSA-28 and produce a list of regional focal points and coordinators for proposals relating to WTSA Resolutions.
  + Maintain existing guidelines and develop new guidelines for WTSA preparation (A Supplement 7).

B.4 Rapporteur Group on Working Methods (RG-WM)

* Consider reviewing the core working methods of ITU-T as discussed at WTSA-24, including Resolution 1 (noting WTSA-24 Action 1) and ITU-T Rec A.1
* Maintain existing and develop new ITU-T A-series Recommendations and Supplements, except A Supplement 7.

1. Maintain existing and develop new guidelines for Study Groups, including the Manual for Rapporteurs & Editors, the Author's Guide, etc.

* Develop Sector-specific procedures, if needed, concerning fully virtual meetings and physical meetings with remote participation (PP Resolution 167).
* Consider rules and procedures (Resolutions 32, 40 and 67), ITU-T structure and groups (Resolutions 22 and 54) and Membership rights (Resolution 31).
* Consider operations & procedures to address topics of general interest for the Sector (Resolutions 70, 75, 83, 87).
* Coordinate the discussion and preparation of TSAG proposals for WTSA-28 regarding working methods (see Table 1 for related Resolutions, Opinions, Actions).

B.5 Rapporteur Group on Work Programme and Restructuring, SG work, SG Coordination (RG-WPR)

* Progress issues related to work programme and study group structure for 2025-2028 study period.
* Review the Lead Study Group reports.
* Review proposed new or modified ITU-T study group Questions.
* Coordinate matters crossing ITU-T study groups (except those coordinated by RG-DT).
* In collaboration with study groups, develop guidelines for study groups on efficiency measures, processes, possible work organization, suitable structures.
* Analyse ITU-T study group restructuring using an evidence-based approach (Resolution 99 *resolves*); make a progress report on the implementation of an action plan for the analysis of ITU-T study group restructuring at each TSAG meeting (Resolution 99 *instructs TSAG 1*); provide the progress report to the study groups after each TSAG meeting (Resolution 99 *instructs TSAG 2*); and provide inputs to the TSAG report with recommendations for consideration to the next WTSA (Resolution 99 *instructs TSAG 3*).
* Develop a report and proposal(s) to be submitted by TSAG to WTSA-28 on study group responsibilities, mandates and allocation of work to be defined in Resolution 2.
* Coordinate the discussion and preparation of TSAG proposals for WTSA-28 regarding thematic Resolutions including their streamlining (see Table 1 for related Resolutions, Opinions, Actions).

B.6 Rapporteur Group on Sustainable Digital Transformation (RG-DT)

* Identify the definitions, concepts, system architectures, use-cases, fundamental underlying technologies, interoperability, and the ecosystem aspects of relevance for digital transformation required to achieve a successful sustainable digital transformation as per Strategic Goal 2 of PP Res. 71
* Consolidate all guidelines, recommendations, technical reports, best practices and use cases developed by ITU-T on sustainable digital transformation, through the use of ITU web-based tools, and to identify strategies and mechanisms to facilitate and allow Member States to proactively use these tools to hasten the transfer of knowledge.
* Update the gap analysis, as needed, with activities and studies on digital transformation
* Liaise as necessary to foster cooperation and collaboration with other recognized bodies and standards development organizations (SDOs), with the Radiocommunication Sector, the Telecommunication Development Sector, and the General Secretariat.
* Collaborate with the TDAG and the Intersectoral Coordination Group on digital transformation and provide TDAG with the information pertaining to the two first bullets to identify needs of developing countries for supporting documentation of ITU-T Recommendations (such as guidelines, technical report etc), related to sustainable digital transformation
* Monitor and progress, as far as digital transformation is concerned, the implementation of
  + WTSA-24 Resolution 106 (Enhancing standardization activities on sustainable digital transformation)
  + WTSA-24 Resolution 58 (Encouraging the creation and enhancement of national computer incident response teams, particularly for developing countries)
  + WTSA-24 Resolution 69 (Non‑discriminatory access and use of Internet resources and telecommunications/information and communication technologies)
  + WTSA-24 Resolution 86 (Facilitating the implementation of the Smart Africa Manifesto)
* Coordinate the discussion and preparation of TSAG proposals for WTSA-28 regarding sustainable digital transformation resolutions, including their streamlining (see Table 1 for related Resolutions, Opinions, Actions).

Annex C:  
Leadership of the various working parties, rapporteur groups, JCAs and other roles under TSAG (Geneva, 26-30 May 2025)

Appointed leadership of TSAG working parties and rapporteur groups

| Group | Leadership |
| --- | --- |
| Working Party 1 on  Working Methods, Collaboration, Engagement and Strategic Planning (WP1) | Chair: Minah Lee (Korea)  Vice-chair: Per Fröjdh (Ericsson) |
| Rapporteur Group on Working Methods (RG-WM) | Rapporteur: Glenn Parsons (Ericsson Canada)  Associate Rapporteurs:  Ena Dekanic (USA) Tong Wu (China Telecom) |
| Rapporteur Group on Industry Engagement and Strategic and Operational Planning (RG-IES) | Rapporteur: Scott Mansfield (Ericsson Canada)  Associate Rapporteurs:  Bruce Gracie (Ericsson Canada) Dao Tian (ZTE) Julien Maisonneuve (Nokia) |
| Working Party 2 on  Work Programme, Restructuring and Thematic Resolutions (WP2) | Chair: Gaëlle Martin-Cocher (InterDigital)  Vice-chair: Guy-Michel KOUAKOU (Côte d'Ivoire) |
| Rapporteur Group on Work Programme and Restructuring, SG Work and SG Coordination (RG-WPR) | Rapporteur: Miho Naganuma (NEC)  Associate Rapporteurs:  Nilo Pasquali (Brazil) Aminata Drame (Senegal) |
| Rapporteur Group on Sustainable Digital Transformation (RG-DT) | Rapporteur: Ahmed Said (Egypt)  Associate Rapporteurs:  Jasim Al Ali (UAE) Nurona Makhmudova (Uzbekistan) Cynthia Lesufi (South Africa) |

Appointed leadership of the JCAs and other roles under TSAG

| Group | Appointments in the 2025-2028 study period |
| --- | --- |
| Joint Coordination Activity on Accessibility and Human factors (JCA-AHF) | Chair: Ms Lidia Best, G3ict |
| Vice-chairs: Christopher Jones, G3ict David Fourney, G3ict |
| Joint Coordination Activity on Digital COVID Certificate (JCA-DCC) *to become JCA on Verifiable Health Credentials (JCA-VHC)* | Co-chairs:  Mr Heung-Youl Youm, Korea (Rep. of); Mr Carl Leitner, WHO |
| Joint Coordination Activity on Quantum Key Distribution Network (JCA-QKDN) | Chair: Mr Junsen Lai CAICT, MIIT, China (P.R.) |
| Vice-chair: Mr Hao Qin, National University of Singapore |
| Joint Coordination Activities on metaverse standardization (JCA-MV) | Co-chairs:  Muath AlRumayh, CST, Saudi Arabia; Shin-Gak Kang, ETRI, Korea (Rep. of) |
| Joint Correspondence Group on IoT Security (JCG-IoTSec) | Co-convenors:  Bret JORDAN (for ITU-T SG17) Ramy Ahmed FATHY (for ITU-T SG20) |
| Joint Correspondence Group on Trust (JCG-Trust) | Co-convenors:  Xiaojia SONG (for ITU-T SG13) N. Kishor NARANG (for ITU-T SG17) Gyu Myoung LEE (for ITU-T SG20) |
| TSAG Representatives to the IEC-ISO-ITU-T Standardization Programme Coordination Group (SPCG) | Ms Miho NAGANUMA NEC Corporation, Japan |
| Mr Per FRÖJDH Telefon AB – LM Ericsson |
| Mr Ajit JILLAVENKATESA United States |
| Mr Jun Seob LEE, ETRI, Korea (Rep. of) |
| Mr Zhicheng QU ZTE Corporation |
| TSAG Representatives to ITU Inter-Sector Coordination Group (ISCG) and on Inter-Sector Coordination | * **TSAG representatives:**  Mr Abdulrahman ALHASSAN, TSAG Chair  Mr Dominique WURGES, ITU-T SG5 Chair * **Accessibility:**  Ms Lidia BEST, JCA AHF Chair Mr Avinash AGARWAL, Rapporteur of ITU-T Q1/21 * **Climate Change:**  Mr Paolo GEMMA Mr Jean-Manuel CANET * **Remote Participation:**  Mr Philip RUSHTON * **Industry engagement** Mr Scott MANSFIELD |
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| TSAG Representative to the Collaboration Intelligent Transportation Systems (CITS) | Mr Paul NAJARIAN United States |
| ITU-T Liaison Officer to ISO/IEC JTC 1 | Mr Shigeru MIYAKE Telecommunication Technology Committee Japan |
| Liaison Officer to IETF | Mr Scott MANSFIELD Ericsson Canada |

Annex D:  
Terms of Reference of the new ITU-T Joint Correspondence Group on IoT Security (JCG‑IoTSec)

### D.1 Scope and objectives

WTSA-24 meeting (New Delhi, 15 – 24 October 2024) approved WTSA-24 Action 7 (IoT Security) as follows:

WTSA-24 instructs Study Groups 17 and 20 to establish a joint coordination or agreement mechanism between the study groups to determine a demarcation line on the topic of IoT security, and report to TSAG.

The Joint Correspondence Group on IoT Security (JCG-IoTSec) will deliberate on the topic of Internet of things (IoT) security, to implement the action requested by WTSA-24. In particular, this deliberation would include:

* Review and analyse the current scope of IoT security-related activities in SG17 and SG20;
* Identify overlap, synergy, and potential gaps in standardization activity on IoT security;
* Establish a demarcation line between SG17 and SG20 responsibilities in IoT security; and
* Propose coordination mechanisms and working arrangements to TSAG, if needed.

The objectives are to assist the Study Group 17 and Study Group 20 Chairs in preparing a report to TSAG on the demarcation line for IoT security.

### D.2 Work methods

* The parent entity of JCG-IoTSec is TSAG.
* JCG-IoTSec is open to organizations participating in ITU-T SG17 and SG20.
* The results of the JCG-IoTSec activities will be reported one month prior to each meeting of Study Group 17 and Study Group 20, respectively.
* The JCG-IoTSec activities will primarily be conducted through the dedicated mailing list [jcgiotsec@lists.itu.int](mailto:jcgiotsec@lists.itu.int) but may also include virtual meetings as agreed upon. These virtual meetings will be organized using meeting tools supported by TSB.
* Meeting announcements, including the draft agenda, will be distributed via e-mail at least one week in advance.
* The JCG-IoTSec Co-Convenors are Mr Bret Jordan, chair of WP2/17 and Mr Ramy Ahmed Fathy, Chair of WP3/20, as appointed by Study Group 17 and Study Group 20, respectively.
* The JCG-IoTSec may propose draft revisions to its terms of reference, as needed, to ensure continued relevance and responsiveness to evolving priorities.
* The JCG-IoTSec will remain active until an agreement is reached by TSAG.
* The JCG-IoTSec will report to the respective Study Groups and TSAG until the task is concluded.
* The potential extension of the JCG-IoTSec will be decided by TSAG upon input from the associated Study Groups.

Annex E:  
Terms of Reference of the new ITU-T Joint Correspondence Group on Trust (JCG‑Trust)

### E.1 Scope and objectives

WTSA-24 in October 2024 approved WTSA-24 Action 8 (Trust) as follows:

WTSA-24 instructs ITU-T study groups, inter alia Study Groups 13, 17 and 20, to establish a coordination mechanism amongst the study groups in order to deliberate on the topic of "trust" (including trusted information) and "trustworthiness", and report to TSAG.

The Joint Correspondence Group on Trust (JCG-Trust) will deliberate on the topic of "trust" (including trusted information) and "trustworthiness", to implement the action requested by WTSA-24. In particular, this deliberation would include:

* Discuss the concept of trust in the context of telecom and ICTs.
* Review existing standards and frameworks related to trust and trustworthiness.
* Identify key components of a comprehensive trust framework, encompassing SG13, SG17 and SG20 scopes
* Develop a basis for a definition of trust suitable for standard development organizations (SDOs).
* Develop a guideline for the scope and role of each SG in future trust-related standardization based on the area of expertise SG.

The objectives are to assist the associated Study Groups' chairs in preparing a report to TSAG on the topic of trust.

### E.2 Work methods

* The parent entity of JCG-Trust is TSAG.
* JCG-Trust is open to organizations participating in ITU-T SG13, SG17 and SG20.
* The results of the JCG-Trust activities will be reported one month prior to each Study Group meeting.
* The JCG-Trust activities will primarily be conducted through the dedicated mailing list [jcgtrust@lists.itu.int](mailto:jcgtrust@lists.itu.int) but may also include virtual meetings as agreed upon. These virtual meetings will be organized using meeting tools supported by TSB.
* Meeting announcements, including the draft agenda, will be distributed via e-mail at least one week in advance.
* The JCG-Trust Co-convenors are Ms Xiaojia Song, Q16/13 associate Rapporteur, Mr N. Kishor Narang, SG17 participant and Mr Gyu Myoung Lee, Q4/20 Rapporteur, as appointed by Study Group 13, Study Group 17 and Study Group 20, respectively.
* The JCG-Trust may propose draft revisions to its terms of reference, as needed, to ensure continued relevance and responsiveness to evolving priorities.
* The JCG-Trust will remain active until an agreement is reached by TSAG.
* The JCG-Trust will report to the respective Study Groups and TSAG until the task is concluded.
* The potential extension of the JCG-Trust will be decided by TSAG upon input from the associated Study Groups.

Annex F:  
Terms of Reference of the ITU-T Joint Coordination Activities on metaverse standardization (JCA-MV)

### F.1 Scope

The scope of JCA-MV is to coordinate ITU-T metaverse standardization work and foster collaboration across all relevant study groups within ITU-T, while providing a visible contact point and coordinating communication with external standards development organizations, consortia and forums working on metaverse-related standards, enabling effective two-way communications with these bodies.

The JCA-MV operates under the terms of Recommendation ITU-T A.18 and was established in accordance with WTSA-24 Resolution 105 "Metaverse standardization".

### F.2 Objectives

The objectives of JCA-MV are as follows:

F.2.1 To ensure that the ITU-T metaverse standardization work related to enabling technologies, systems, applications, services, protocols, security, accessibility, and sustainability for metaverse, progresses in a well-coordinated manner among all relevant ITU-T study groups;

F.2.2 To encourage relevant groups in ITU-T, the ITU Radiocommunication Sector and the ITU Telecommunication Development Sector to contribute to the JCA and share information relating to metaverse standardization;

F.2.3 To develop, maintain and update a roadmap for metaverse standardization, taking into account ongoing and published standard deliverables from ITU, other relevant standard development organizations (SDOs), consortia, and forums;

F.2.4 To consider and promote cooperation and complementarity in the development of international standards for metaverse with relevant organizations, including ISO, IEC, ISO/IEC JTC1, the 3rd Generation Partnership Project (3GPP), European Telecommunications Standards Institute (ETSI), Institute of Electrical and Electronics Engineers (IEEE), Internet Engineering Task Force (IETF), Metaverse Standards Forum (MSF), and open-source communities;

F.2.5 To report to the Telecommunication Standardization Advisory Group (TSAG) whenever duplication of efforts or other issues requiring coordination are discovered, to support TSAG coordination function among ITU-T study groups;

F.2.6 To act as a point of contact within ITU-T and with other standards development organizations, consortia and forums working on metaverse related standards especially to avoid duplication of efforts;

F.2.7 To maintain a list of contacts and representatives of relevant ITU-T study groups and other related ITU groups;

F.2.8 To maintain a list of contacts and representatives from other relevant standards development organizations, regional/national organizations, consortia, and forums who participate in the JCA-MV.

### F.3 Participation

Participation in the JCA-MV is open to representatives of ITU membership, including representatives of all ITU-T SGs and TSAG. Invited experts, including representatives from relevant standards development organizations, academia, fora, and consortia are also welcome to participate. In accordance with WTSA-24 Resolution 105 "metaverse standardization", participation is particularly encouraged from small and medium enterprises (SMEs) and vertical industries involved in metaverse development to ensure broad representation in the standardization process. Other ITU groups and relevant external bodies may be invited to appoint a representative to join the group.

### F.4 Working Methods

F.4.1 The participation of the JCA-MV is according to ITU-T A.18 and will comprise all ITU-T study group Chairs, the TSAG Chair, a number of study group Chair's appointees, metaverse contact persons in ITU-T study groups, and invited representatives from relevant standards development organizations such as ISO, IEC, as well as relevant academia, fora, and consortia.

F.4.2 The JCA-MV shall conduct its work primarily through correspondence but may also meet in association with meeting of TSAG and relevant Study Groups when necessary.

F.4.3 The JCA-MV shall progress its work primarily through electronic means, including email correspondence and conference calls, and shall hold face-to-face meetings only when deemed necessary for the effective completion of its tasks.

### F.5 Administrative Support

ITU-T Telecommunication Standardization Bureau (TSB) provides the secretariat and facilities required for the operation of JCA-MV within its resource limits.

### F.6 Meetings

The JCA-MV works electronically using teleconferences and with face-to-face meetings three times a year for considering timely updates and reports from different parties. Face-to-face meetings normally occur concurrently with study groups involved in the JCA-MV. Any meetings will be held as determined by the JCA-MV and will be announced to its participants through the JCA e-mail reflector and posted on the ITU-T website of the JCA-MV.

### F.7 Parent Group and Progress Reports

The JCA-MV reports its activities to TSAG as its parent group at its meetings. An executive summary will be sent to TSAG after each JCA-MV meeting. Progress reports and proposals will be sent to relevant study groups as necessary, in accordance with Recommendation ITU-T A.18.

### F.8 Lifetime

See ITU-T A.18.

Annex G:  
Revised Terms of Reference for the Joint Coordination Activity on Verifiable Health Credentials (VHC)

NOTE – This JCA used to be called Joint Coordination Activity on Digital COVID-19 Certificates (JCA-DCC).

### G.1 Scope

COVID-19 illustrated the need for digital health certificates including vaccination records that could be used in an interoperable fashion across organizations. Digital health certificates, such as with COVID-19, are intended to provide proof that a person has been vaccinated against infectious diseases, tested for the virus, or recovered from infectious diseases.

Leveraging the lessons learned from digital COVID-19 certificates, a global trust framework is needed to build upon for future verifiable health credentials (VHC). VHC enhances healthcare and public safety efficiency by enabling rapid and secure sharing of health information. VHC can represent information found in health credentials, a future form of digital health certificate. Opportunities to expand health credentials to cover other vaccination, such as yellow fever or Monkeypox are possible with VHC. It is recognized that VHC should be suitable to be used by both existing and emerging systems such as those based on decentralized identity (DID).

VHC could be integrated together with other governments credentials, such as a passport using technologies such as public key infrastructure (PKI) and distributed ledger technologies to enhance data protection. VHC could be implemented in four stages: issuing, importing, and offline verification of the verifiable health credentials, and verification by transportation, health officials, and/or government officials. A primary goal of this JCA is to ultimately result in tools used to prevent the spreading of infectious diseases worldwide and enabling individuals to have control over their own health information as they seek care.

There is a need for coordinating activities across ITU-T SGs and related SDOs working on this important subject. The Terms of Reference of this JCA are consistent with Recommendation ITU-T A.18. The scope of the JCA is coordination of the ITU-T verifiable health credential (VHC) standardization work including digital health certificates among relevant ITU-T study groups and external organizations and forums, fostering the use of compatible data architectures for sharing data, and promoting interoperability, agility and safety for users, and all relevant stakeholders involved.

The JCA-VHC should consider PP-22 Resolution 215 on the "Role of telecommunications/ICTs in mitigating global pandemics" and the UN Sustainability Goal 3: GOOD HEALTH AND WELL-BEING.

The JCA-VHC will be a platform for relevant stakeholders – such as public health authorities, telecom regulators, healthcare delivery organizations, services providers, platform providers, network operators, travellers' organizations, healthcare users' organizations, international organizations, and industry forums and consortia.

### G.2 Objectives

The JCA-VHC will ensure that the ITU-T VHC standardization work is progressed in a well-coordinated way among relevant study groups. Planning issues can be brought to the attention of the JCA-VHC. The JCA-VHC will facilitate work assignment through the involved study groups when it is not clear under which Question work should be done and recommend an allocation of tasks.

The JCA-VHC will analyse VHC standardization work items and coordinate an associated standardization roadmap.

The JCA-VHC will act as a point of contact within ITU-T on VHC and with other intergovernmental organizations (in particular WHO), the European Commission as well as with SDOs/Forums (in particular ISO/IEC JTC 1/SCs 6, 17, 27, 35, and 37, W3C, ISO/PC 317, ISO/TC 215, ISO/TC 307, GSMA, EC, IEEE, ECMA, etc.) in order to avoid duplication of standardization work and assist in coordinating the VHC work of the relevant study groups.

As per Recommendation ITU-T A.18, clause 6.2, JCA-VHC is open, but (to restrict its size) should primarily be limited to official representatives from the relevant ITU study groups that are responsible for work on VHC. A portion of each JCA-VHC meeting may be allocated to raising awareness of VHC issues addressed by other ITU-T Study Groups Questions, and external organizations.

JCA-VHC may also include invited experts and should invite representatives from other intergovernmental organizations (e.g. WHO) and relevant recognized SDOs/Forums (in particular the ISO and IEC committees as referenced above), as appropriate.

The JCA should strive towards encouraging joint activity with the relevant SDOs (in particular ISO and IEC) and organizations.

### F.3 Administrative support

TSB will provide support for JCA-VHC within available resource limits.

### F.4 Meetings

JCA-VHC will work electronically using teleconferences and with face-to-face meetings as needed. Meetings will be held as determined by the JCA-VHC and will be announced to its participants and on the ITU-T website. JCA-VHC will meet during TSAG meeting if it needs to.

### F.5 Progress reports

The JCA-VHC will report to TSAG at its meetings. Progress reports and proposals will be sent to relevant study groups as necessary, in accordance with Recommendation ITU-T A.18.

### F.6 Leadership

Co-chairs: Mr Heung Youl Youm (Rep. of Korea) and Mr Carl Leitner (WHO)

### F.7 Other contacts

JCA-VHC secretariat ([tsbjcavhc@itu.int](mailto:tsbjcavhc@itu.int)).

### F.8 Lifetime

See Recommendation ITU-T A.18.

Annex H:  
Interim TSAG RGM schedule (Geneva, 26-30 May 2025)

NOTE – All the events below are virtual.

WP1

RG-WM

| # | Date | Time (Geneva time) | Format[[3]](#footnote-4) | Objectives | Deadline |
| --- | --- | --- | --- | --- | --- |
| 1 | 2025-09-23 | 13:00-15:00 | V | Progress revised *A.1* (based on [TSAG-TD135-R3](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0135)) | 2025-09-16 |
| 2 | 2025-11-06 | 13:00-15:00 | V | Progress on A.13 pros and cons on agreement of informative texts at WP meetings, and on the remote participation guidelines, including possible alignment of A Supplement 4 with the CWG-FHR Guidelines for remote participation based on [TSAG-C9](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-C-0009) (Rep. of Korea). | 2025-10-30 |
| 3 | 2025-12-11 | 13:00-15:00 | V | Progress new A.RA (based on [TSAG-TD122](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0122) and the reply LSs from SG2, 11, 17 and 21); and revised A.1 (based on [TSAG-TD135-R3](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0135) and results from 23 Sept RG-WM e-meeting) | 2025-12-04 |

RG-IES

| # | Date | Time (Geneva time) | Format1 | Objectives | Deadline |
| --- | --- | --- | --- | --- | --- |
| 1 | 2025-09-16 | 14:00-16:00 | V | Discuss all activities with a focus on industry engagement | 2025-09-08 |
| 2 | 2025-10-14 | 14:00-16:00 | V | Discuss all activities with a focus on the strategic and operational plan matters | 2025-10-06 |

WP2

RG-WPR

None.

RG-DT

| # | Date | Time (Geneva time) | Format1 | Objectives | Deadline |
| --- | --- | --- | --- | --- | --- |
| 1 | 2025-09-10 | 13:00–15:00 | V | Progress the work based on the RG-DT ToR | 2025-09-03 |
| 2 | 2025-11-12 | 13:00–15:00 | V | Progress the work based on the RG-DT ToR | 2025-11-05 |
| 3 | 2026-03-11 | 13:00–15:00 | V | Progress the work based on the RG-DT ToR | 2026-03-04 |
| 4 | 2026-05-13 | 13:00–15:00 | V | Progress the work based on the RG-DT ToR | 2026-05-07 |
| 5 | 2026-07-08 | 13:00–15:00 | V | Progress the work based on the RG-DT ToR | 2026-07-01 |
| 6 | 2026-09-09 | 13:00–15:00 | V | Progress the work based on the RG-DT ToR | 2026-09-02 |

Annex I:  
Updates to the TSAG work programme

| RG | Work item | Type of text | Version | Status | Approval process | Timing | Subject / Title | Reference(s) | Editor(s) | Summary |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| RG-WM | [A.1-rev](http://www.itu.int/itu-t/workprog/wp_item.aspx?isn=18921) | Recommendation | Rev. | Under study | TAP | 2026 | Working methods for study groups of the ITU Telecommunication Standardization Sector | [TD135R4](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0135/en) | [Olivier Dubuisson (Orange)](mailto:olivier.dubuisson(AT)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.RA (ex A.SupplRA](http://www.itu.int/itu-t/workprog/wp_item.aspx?isn=18704)) | Recommendation | New | Under study | TAP | 2026 | Appointment and operations of registration authorities | [TD122](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0122) | [Olivier Dubuisson (Orange)](mailto:olivier.dubuisson(AT)orange.com)  [Philip Rushton](mailto:philrushton@rcc-uk.uk) | This Recommendation provides a methodology 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 | [Res.1-rev](http://www.itu.int/itu-t/workprog/wp_item.aspx?isn=18921)\* | Resolution | Rev | Under study | WTSA | 2028 | Rules of procedure of the ITU Telecommunication Standardization Sector | [TD130R3](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0130/en) | [Olivier Dubuisson (Orange)](mailto:olivier.dubuisson(AT)orange.com) | WTSA-24 instructed TSAG to initiate review of WTSA Resolution 1 and submit to WTSA-28 their outcome |

\* NOTE 1 – Work item added at this meeting.

NOTE 2 – New Appendix I to A.18 was drafted and approved at this meeting ([ITU-T A.18 2nd Edition](https://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=22361)), hence it is not recorded in this table.

**Acronyms:**

* **RG:** Designation of the Rapporteur Group responsible for the development of a work item
* **Work item:** Short name identifying a (draft or approved) Recommendation or other text.
* **Type of text:** One of: Recommendation (including amendment/corrigenda); Supplement; Implementer's Guide; Technical Papers, Technical Reports; or Other
* **Version:** Indication of whether a work item is new or revised
* **Status:** Current Approval state of a work item
* **Approval process:** One of: Traditional Approval Process (TAP); Alternative Approval Process (AAP); or Agreement
* **Timing:** Best current estimate of the expected year and month of Determination (TAP), Consent (AAP), or Agreement (non-normative materials) of a work item
* **Subject / Title:** Best current expectation of the full name of a work item
* **Reference(s):** Previous published version of a work item and/or its latest draft. It may also include reference to A.5 justification documentation.
* **Editor(s):** Person(s) responsible for providing to the Rapporteur the agreed updated baseline text of a work item after each relevant meeting
* **Summary:** Summary of a work item as described in its latest baseline text

Annex J:  
Outgoing liaison statements (Geneva, 26-30 May 2025)

| Outgoing LS | Title | For action to | For info. to | Deadline | Related LS | Approved |
| --- | --- | --- | --- | --- | --- | --- |
| [TSAG-LS2](https://www.itu.int/ifa/t/2025/ls/tsag/sp18-tsag-oLS-00002.zip) | LS on Comments sought on A.RA | SG2; SG11; | SG21; SG17; | 2025-12-04 | - | 2025-05-30 |
| [TSAG-LS3](https://www.itu.int/ifa/t/2025/ls/tsag/sp18-tsag-oLS-00003.docx) | LS on Collaboration and Coordination on Smart and Sustainable Cities and Communities | IEC SMB; ISO/TMB; | SPCG; | - | - | 2025-05-30 |
| [TSAG-LS4](https://www.itu.int/ifa/t/2025/ls/tsag/sp18-tsag-oLS-00004.zip) | LS on lead study group concept | SG2; SG3; SG5; SG21; SG11; SG12; SG13; SG15; SG17; SG20; | - | 2026-01-12 | - | 2025-05-30 |
| [TSAG-LS5](https://www.itu.int/ifa/t/2025/ls/tsag/sp18-tsag-oLS-00005.docx) | LS on the development of ITU-T Standards Success Stories | SG2; SG3; SG5; SG21; SG11; SG12; SG13; SG15; SG17; SG20; | - | 2025-09-08 | - | 2025-05-30 |
| [TSAG-LS6](https://www.itu.int/ifa/t/2025/ls/tsag/sp18-tsag-oLS-00006.zip) | LS/r on revised text of Question 9/21 on metaverse (reply to SG21-LS76) | SG21; | SG20; JCA-MV; | 2025-10-01 | [SG21-LS76](https://www.itu.int/ifa/t/2025/ls/sg21/sp18-sg21-oLS-00076.docx) | 2025-05-30 |
| [TSAG-LS7](https://www.itu.int/ifa/t/2025/ls/tsag/sp18-tsag-oLS-00007.docx) | LS on the activities and studies on sustainable digital transformation | ITU-R SG 1; ITU-R SG 5; ITU-R SG 6; ITU-R SG 3; ITU-R SG 4; ITU-R SG 7; ITU-D SG 2; ITU-D SG 1; ISO/IEC JTC1/SC40; ISCG; IEEE P2023; IEC SMB SG12; SG2; SG3; SG5; SG21; SG11; SG12; SG13; SG15; SG17; SG20; | ITU-R RAG; ITU-D TDAG; | 2025-11-13 | - | 2025-05-30 |
| [TSAG-LS8](https://www.itu.int/ifa/t/2025/ls/tsag/sp18-tsag-oLS-00008.docx) | LS/r on Work on Digital Transformation (reply to ITU-D TDAG-DT/6(REV.3) | ITU-D TDAG; | - | - | [ITU-D TDAG-DT/6(REV.3)](https://www.itu.int/ifa/t/2025/ls/itu-dtdag/sp18-itu-dtdag-iLS-00006.docx) | 2025-06-30 |
| [TSAG-LS9](https://www.itu.int/ifa/t/2025/ls/tsag/sp18-tsag-oLS-00009.zip) | LS on streamlining JCA operations | SG2; SG3; SG5; SG21; SG11; SG12; SG13; SG15; SG17; SG20; | JCA-AHF; JCA-IdM; JCA-IoT, DT and SSC&C; JCA-COP; JCA-IMT2020; JCA-DCC; JCA-QKDN; JCA-AI/ML; | 2026-01-13 | - | 2025-05-30 |
| [TSAG-LS10](https://www.itu.int/ifa/t/2025/ls/tsag/sp18-tsag-oLS-00010.docx) | LS on the Terms of reference ITU-T SGs at the new work item opening | SG2; SG3; SG5; SG21; SG11; SG12; SG13; SG15; SG17; SG20; | - | - | - | 2025-05-30 |
| [TSAG-LS11](https://www.itu.int/ifa/t/2025/ls/tsag/sp18-tsag-oLS-00010.docx) | LS on the establishment of the Joint Correspondence Group on IoT Security (JCG-IoTSec) | SG17; SG20; | SG2, SG3, SG5, SG11, SG12, SG13, SG15, SG21 | 2025-10-01 |  | 2025-05-30 |
| [TSAG-LS12](https://www.itu.int/ifa/t/2025/ls/tsag/sp18-tsag-oLS-00010.docx) | LS on the establishment of the Joint Correspondence Group on Trust (JCG-Trust) | SG13, SG17, SG20 | SG2, SG3, SG5, SG11, SG12, SG15, SG21 | 2025-12-15 |  | 2025-05-30 |

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1. <https://extranet.itu.int/sites/itu-t/studygroups/2022-2024/tsag/Captioning> [↑](#footnote-ref-2)
2. <https://www.itu.int/webcast/archive2/t2022-24tsag> [↑](#footnote-ref-3)
3. Format: Physical (P), Virtual (V), Physical with Remote participation (PR) [↑](#footnote-ref-4)