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| A black and white logo  Description automatically generated | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2025-2028 | | | TSAG-TD4 |
| TSAG |
| Original: English |
|  | | |  | Geneva, 26-30 May 2025 |
| **TD** | | | | |
| **Source:** | | | Chair, TSAG | |
| **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 welcomed the ITU Secretary General, Ms Doreen BOGDAN-MARTIN, the BDT Director, Mr Cosmas ZAVAZAVA and the TSB Director, Mr Seizo ONOE. |
| 1.3 | The following TSAG Vice-Chairs attended the meeting: Mr Jasim Al Ali (United Arab Emirates), Mr Yazeed Aljaafreh (Jordan), Mr Per Frojdh (Telefon AB - LM Ericsson, Sweden), Mr Mihail ION (Romania), Mr Guy-Michel KOUAKOU (Republic of Côte d'Ivoire), Ms Nurona Makhmudova (Uzbekistan), Ms Gaëlle MARTIN-COCHER (InterDigital Canada Ltd), Ms Miho NAGANUMA (NEC Corporation, Japan), Mr 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, xxx participants (xxx physical participants and xxx remote participants) attended this first TSAG meeting. [TD19](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0019) shows the final list of participants. |
| 1.5.1 | xxx fellowships were requested, xx were granted. |
| 1.6 | This report contains the following annexes:   * Annex A: Decisions on Recommendations * Annex B: New TSAG Work Items * Annex C: Work items in TSAG * Annex D: Terms of references of TSAG Working Parties and Rapporteur Groups * Annex E: Terms of Reference for an ITU-T Joint Coordination Activity on metaverse standardization (JCA-MV) * Annex F: Revised Terms of Reference for an ITU-T Joint Coordination Activity on verifiable health credentials (JCA-VHC) * Annex G: Interim RGM schedule * Annex H: Outgoing Liaison Statements |
| 1.7 | Account of resources used and fellowships provided:   * Captioning: CHF xxx * Interpretation (two days): CHF xxx * Fellowships: xx requests received, xx granted and xx used (CHF xxx) |

# 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 fourth TSAG meeting in this 2022-2024 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 [TD1R3](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. |
| 4.3 | [TD128R2](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0128) proposed appointment of JCA leaderships and other roles. TSAG approved. |

# 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 was 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. |

## 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)TSAG noted the 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 Cretentials).  TSAG endorsed its continuation until next TSAG meeting pending the review process. |

## 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. |

## 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. |

## 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 JCA-ML Terms of Reference, name of this JCA and leadership.  TSAG endorsed its continuation until next TSAG meeting pending the review process. |

## 7.6 JCA on IMT2020

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| 7.6.1 | SG13 informed that it agreed to continuation of this JCA and TSAG endorsed 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. |

## 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. |

## 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 information on JCA-COP.  TSAG noted this TD and instructed SG17 to consider the way forward. |

# 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 Contributions and TSAG overview, which was hald 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 governance arrangements and expected deliverables for TSAG representatives to the IEC-ISO-ITU-T Standardization Programme Coordination Group (SPCG). TSAG approved the proposal. |

# 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 and related WTSA preparations"

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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 | [TD97](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-TD140-R2](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 attachment to [TSAG-TD141-R2](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-TD130-R3](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0130/en). 7. RG-WM-7: TSAG to endorse the updated RG-WM work programme as found in [TSAG-TD125-R2](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0125/en). 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-TD136-R1](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-TD149-R2](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-TD97-R1](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0097). 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-TD97-R1](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0097).   Approve the WP1 report as found in [TSAG-TD97-R1](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0097). |

## 13.2 TSAG Working Party 2 "Industry Engagement, Work Programme, Restructuring"

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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 | [TD100R1](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0100) provided the WP2 meeting report. |
| 13.2.3 | **0 Actions for TSAG**  Actions 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, [TD138R2](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) 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) 8. **WP2-9**: Approve Liaison Statement on the establishment of the Joint Correspondence Group on IoT Security (Joint-CG-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 (Joint-CG-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   Actions 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, [TD147](https://www.itu.int/md/T25-TSAG-250526-TD-GEN-0147/en)-R1 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 e-meetings for RG-DT (clause 8.1)   Actions 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. 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. **WP2-11:** Note the status of implementation of WTSA decision, Annex 1   **WP2-12:** Approve the WP2/TSAG meeting report – [TD100R1](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0100) |

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

|  |  |
| --- | --- |
| 14.1 | TSAG took note of [TD13](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:   | Event | Tentative venue and date | | --- | --- | | Second TSAG meeting | Geneva, 26-30 January 2026 | | Third TSAG meeting | Geneva, 1-5 February 2027 (TBC) | |
| 14.3 | TSAG took note of the planned interim TSAG meetings as in Annex G. |

# 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 [TD4](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 gave closing remarks. |
| 17.2 | The TSAG Chair gave closing remarks. |
| 17.3 | The TSAG meeting was closed on 30 May 2025, 1200 hours, Geneva time. |

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

Agreement

| Document | Status | Title | References |
| --- | --- | --- | --- |
| A.18 Amd.1 | New | Joint coordination activities: Establishment and working procedures (New Appendix) | [TD141R2](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0141) |

Annex B: New TSAG Work Items

The following new work item was agreed.

* To initiate revision of WTSA Res.1 (RG-WM)

Annex C: Work items in TSAG

| **Work item** | **Question** | **Status** | **Timing** | **Approval process** | **Version** | **Subject / Title** |
| --- | --- | --- | --- | --- | --- | --- |
| [A.1-rev](http://www.itu.int/itu-t/workprog/wp_item.aspx?isn=21306) | RG-WM | Under study | 2025 | TAP | Rev. | Working methods for study groups of the ITU Telecommunication Standardization Sector |
| [A.RA (ex A.Suppl-RA)](http://www.itu.int/itu-t/workprog/wp_item.aspx?isn=21305) | RG-WM | Under study | 2025 | TAP | New | Appointment and operations of registration authorities |

Annex D: Terms of references of TSAG Working Parties and Rapporteur Groups

(To be copied from [TD7R3](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T25-TSAG-250526-TD-GEN-0007))

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

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”.

1. **Objectives**

The objectives of JCA-MV are as follows:

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;

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;

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;

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;

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;

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;

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

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.

1. **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.

1. **Working Methods**

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.

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.

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.

1. **Administrative Support**

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

1. **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.

1. **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.

1. **Lifetime**

See ITU-T A.18.

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

**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.

**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.

**3. Administrative support**

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

**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.

**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.

**6. Leadership**

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

**7. Other contacts**

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

**8. Lifetime**

See Recommendation ITU-T A.18.

Annex G: Interim RGM schedule, TSAG May 2025 meeting

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

WP2

RG-WPR

| # | Date | Time (Geneva time) | Format1 | Objectives | Deadline |
| --- | --- | --- | --- | --- | --- |
| 1 | None |  |  |  |  |

RG-DT

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

Annex H: Outgoing Liaison Statements

(To be added)

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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)