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| **Keywords:** | TSAG; report; |
| **Abstract:** | The report of the third meeting of the ITU-T Telecommunication Standardization Advisory Group (Geneva, 10-14 December 2018) in the 2017-2020 study period. |

NOTE – All documents submitted and discussed or noted at this TSAG meeting are referenced in the agenda [TD276](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0276)R2 and [TD277](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0277). This report contains the conclusions and actions decided at this TSAG meeting.[[1]](#footnote-2)

Note by the TSB:

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

COM 17 – R 3 Report of TSAG

COM 17 – R 4 Draft revised Recommendation ITU-T A.1,  
Working methods for study groups of the ITU Telecommunication Standardization Sector

COM 17 – R 5 Draft revised Recommendation ITU-T A.5,  
Generic procedures for including references to documents of other organizations in ITU–T Recommendations

COM 17 – R 6 Draft revised Recommendation ITU-T A.13,  
Non-normative ITU-T publications, including Supplements to ITU–T Recommendations

COM 17 – R 7 Draft revised Recommendation ITU-T A.25,  
Generic procedures for incorporating text between ITU–T and other organizations

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# Opening of the meeting, TSAG Chairman

The TSAG Chairman, Mr Bruce Gracie (Ericsson Canada), welcomed the TSAG participants to the third meeting of the Telecommunication Standardization Advisory Group (TSAG) for the 2017-2020 study period, which was held at the ITU premises in Geneva, 10-14 December 2018.

* 1. Real-time captioning, interpretation in six languages, remote participation, and webcasting were provided at this TSAG meeting including its six Rapporteur Group meetings.
  2. Mr Gracie welcomed the elected officials, Mr Rancy (BR Director) and Mr Chaesub Lee (TSB Director).
  3. The following TSAG Vice-Chairmen attended the meeting: Ms Rim Belhassine-Cherif (Tunisia), Ms Weiling Xu (China, P.R.), Mr Reiner Liebler (Germany), Mr Vladimir Minkin (Russian Federation), and Mr Matano Ndaro (Kenya). Ms Monique Morrow (United States), Mr Omar Tayseer Al-Odat (Jordan), and Mr Victor Manuel Martinez Vanegas (Mexico) were not able to attend.

# Opening remarks by the TSB Director

The TSB Director welcomed all delegates to this third meeting of TSAG in this 2017-2020 study period (his speech is contained in [TD325](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0325/en)).

# Remarks by the ITU Secretary General

Mr Houlin Zhao, ITU Secretary General, addressed TSAG on Friday 14 December. Mr Zhao considered several past events in 2018 of relevance to the ITU such as the Plenipotentiary Conference 2018, Council, WTSID, WTIS, GSR, WSIS, Telecom, and AI Summit. Concerning the AI summits which ITU organized in partnership with and due to request from industry, he pointed out that ITU does not intend to enter the domain of regulations or ethics for artificial intelligence. PP-18 yielded good outcomes for ITU, a newly elected management team with Mr Chaesub Lee re-elected as TSB Director, and its first female elected Official with Ms Doreen Bogdan-Martin as BDT Director in more than 150 years of ITU history. He also acknowledged high interest in Resolutions 101 (IP-based networks), 102 (Internet-related public policy issues), 130 (cybersecurity), and the new Resolution on SMEs.

# TSAG Chairman's comments and observations

* 1. The TSAG Chairman highlighted that this TSAG meeting will want to consider and take into account the outcome of the 2018 Plenipotentiary Conference in Dubai which include revisions to several important Resolutions which impact ITU-T as well as relevant statements in the reports of the respective Chairmen of the two substantive Committees at the conference as well as the Working Group of the Plenary. TSAG will be starting work on the preparations for WTSA-20.
  2. The current TSAG meeting was organized such that documents were presented only once, either in Plenary or in one of the Rapporteur Groups, of which six had already been activated.

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

* 1. The TSAG Chairman presented the draft agenda, document allocation and work plan ([TD276](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0276)R2). TD276R2 was adopted. TSAG accepted the time management plan in [TD275R3](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0275), which further revised into TD275R6, and the overview of the agendas and reports in [TD274](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0329)R2.
  2. [TD277](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0277) contains the agenda for the closing TSAG plenary on 10 December 2018, which was adopted.

# Reports by the TSB Director

* 1. The TSB Director presented the activity report ([TD291](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0291)R1, slide set in Addendum 1) highlighting the key results achieved in ITU-T standardization from February to October 2018. TSAG noted the TSB Director’s report. TSB will be taking into account accessibility requirements for persons with disabilities for further improvement of the TSB services such as MyWorkspace, and ITU-T web pages.
  2. TSAG took note of [TD300](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0300), which summarizes the results of the Plenipotentiary Conference (2018, Dubai). TD300 focused on the ITU-T/TSB relevant topics and the changes with respect to Plenipotentiary Conference (2014, Busan).
  3. TSB presented the updated WTSA-16 Action Plan ([TD292](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0292)), which is a monitoring and reporting tool to keep track of the implementation of WTSA-16 Resolutions and Opinion. The updates cover the period from March to November 2018. TSAG took note of the document.
  4. TSAG took note of [TD310](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0310), which provides the initial draft PP-18 action plan for ITU-T.
  5. TSAG took note of the draft four-year rolling operational plan for the telecommunication standardization sector for 2020-2023 in [TD293](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0293); which will be sent to the next Council meeting for approval.
  6. Mr Kirill Oparin, Regional Office for the Commonwealth of Independent Countries (CIS) Region, on behalf of the other ITU Directors of Regional Offices, remotely presented [TD324](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0324), which summarizes the contribution of the ITU Regional Offices to the implementation of the ITU-T four-year rolling operational plan as requested by the Resolution 25 (Rev. Dubai 2018) of the ITU Plenipotentiary Conference. The meeting took note of the document.

# Organization of the work of TSAG for the 2017-2020 study period

7.1 New TSAG Rapporteur Group on Regional Groups (RG-CPTRG)

* + 1. In the context of Recommendation 8 of the Plenipotentiary Conference (Dubai, 2018), TSAG received two contributions that propose to create an ad-hoc group ([C056](https://www.itu.int/md/T17-TSAG-C-0056) from United States, [C061](https://www.itu.int/md/T17-TSAG-C-0061) from Brazil), and one contribution from GSMA ([C061](https://www.itu.int/md/T17-TSAG-C-0061)) that proposes to create a Rapporteur Group to clarify criteria for creation, participation and termination of regional groups of Study Groups, and the role of TSAG in this regard.
    2. TSB was asked to prepare a presentation on the activities in regional groups.
    3. TSAG considered those three contributions and agreed to establish a new Rapporteur Group (RG-CPTRG) with the initial task to prepare its terms of reference to be submitted for approval by the TSAG closing plenary.
    4. Mr Kwame Baah-Acheamfuor, Ghana, is the Rapporteur of RG-CPTRG.
    5. The results of RG-CPTRG are reported in section 17.8 of this report.
  1. The TSAG Rapporteur Group on Strategic and Operational Plan (RG-SOP) did not meet during this TSAG meeting.

# Focus Groups

## 8.1 Proposed new ITU-T Focus Group on Quantum Information Technology for Networks (FG-QIT4N)

* + 1. China (P.R.) presented [C054](https://www.itu.int/md/T17-TSAG-C-0054), which proposes to set up a new ITU-T Focus Group on Quantum Information Technology (QIT) for Networks (FG-QIT4N) to provide a platform for researching the impact of QIT on ICT networks and Quantum Information Network (QIN) related technologies, and lay a more comprehensive and solid foundation for the future ITU-T standardization and application promotion in this field. C054 includes also proposed Terms of Reference for FG-QIT4N.
    2. Mr Paul Redwin, United Kingdom, on behalf of ETSI ISG QKD, presented a received liaison statement in [TD406](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0406)R1, which conveys that ETSI ISG QKD strongly supports the efforts of ITU-T SG13 and SG17 to develop standards for QKD deployment and security in telecom networks and proposes to work closely with SG13 and SG17 in the future. Mr Redwin pointed out that the workplan of the proposed FG–QIT4 appears to duplicate that of ETSI ISG QKD. ETSI ISG QKD asked TSAG not create a Focus Group for Quantum Information Technology in Networks, but rather collaborate with ETSI ISG QKD for most efficient progress in this area.
    3. TSAG agreed to create an ad-hoc group on quantum (AHG-quantum) with Mr Arnaud Taddei, Symantec, as Chairman, and asked the AHG-quantum to investigate the scope of interest/responsibility of ITU-T in quantum matters and to discuss options for carrying the work forward.
    4. Mr Arnaud Taddei, AHG-quantum Chairman, presented in [TD443](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0443) the report of AHG-quantum. He reported that no consensus was reached to establish a new Focus Group as per a revised version of the ToR ([TD433R1](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-181210-TD-GEN-0433)). He presented a number of recommendations in TD443 section 7 which TSAG took into account.
    5. China (P.R.) read out a statement which was agreed to be included in the meeting report, see [Annex D](#_Annex_D_Statement).
    6. TSAG took note of this report and thanked Mr Arnaud Taddei for his leadership. TSAG thanked China for their initiative and contribution.
    7. TSAG recognized the interest in the subject matter area and agreed as a way forward to organize an ITU workshop on quantum, and China (P.R) offered to host such a workshop.
    8. China (P.R.) proposed that TSAG liaises with relevant ITU-T study groups on the proposed FG-QIT4N to solicit possible opinions. China (P.R.) also proposed to include C054 in the living list for further discussion. TSAG agreed to those proposals.
    9. TSAG encouraged ITU-T members to submit contributions to ITU-T Study Groups 2, 13, and 17 on the topics of quantum in accordance with the remit of those study groups.

## ITU-T Focus Group on Application of Distributed Ledger Technology (FG-DLT)

* + 1. Mr Martin Adolph, TSB, on behalf of Mr David Watrin, Chairman of ITU-T Focus Group on Application of Distributed Ledger Technology (FG-DLT), presented the FG-DLT progress report in [TD298](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0298) over the period February 2018 to October 2018. TSAG took note of the progress report.
    2. TSAG agreed the extension of the Focus Group lifetime from April 2019 to the September 2019 TSAG meeting.

## ITU-T Focus Group on Digital Currency including Digital Fiat Currency (FG-DFC)

* + 1. Mr Vijay Mauree, TSB, on behalf of Mr David Wen, Chairman of ITU-T Focus Group on Digital Currency including Digital Fiat Currency (FG-DFC), presented TSAG the progress report (in [TD299](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0299)). TSAG took note of the progress report.
    2. TSAG agreed the extension of the Focus Group lifetime from April 2019 to end of September 2019.

# Joint Coordination Activity on Accessibility and Human factors (JCA-AHF)

* 1. The JCA-AHF Chairman, Ms Andrea Saks (USA), presented the progress report of JCA-AHF in [TD313](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0313). She highlighted a new work item on “Guidelines on accessible conferencing tools” initiated by Q26/16 in October 2018 to address the importance of the accessibility of remote participation tools for persons with disabilities, especially for persons who are blind. She expressed her idea to having a contest aiming at improving the accessibility of existing and new conferencing tools. The JCA-AHF Chairman drew attention that JCA-AHF was mentioned several times in Resolution 175 (rev. Dubai 2018) “Telecommunication/information and communication technology accessibility for persons with disabilities and persons with specific needs”. She also listed other PP Resolutions (11, 66, 71, 139, 167) mentioning accessibility. TSAG took note of the progress report.
  2. Mr Chaesub Lee, TSB Director, indicated that TSB would take web-accessibility requirements into account.
  3. Mr Phil Rushton, ITU-T SG2 Chairman, acknowledged the allocation of a trial numbering resource by TSB for the World Global Telecom (WGT)’s project on an assisted global conference call platform for persons with disabilities briefed in the JCA-AHF report.

# New IEC SMB/ISO TMB/ITU-T TSAG Standardization Programme Coordination Group (SPGC)

* 1. Mr Ajit Jillavenkatesa, ITU-T representative to ISO/IEC/ITU-T Joint Task Force on effective collaboration (JTFEC), presented in [TD329](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0329) a proposal prepared by JTFEC to ISO TMB, IEC SMB, and ITU-T TSAG for the creation of an IEC SMB/ISO TMB/ITU-T TSAG Standardization Programme Coordination Group (SPGC) with terms of reference; as well as a proposal for a communication statement.
  2. TSAG approved the creation of an IEC SMB/ISO TMB/ITU-T TSAG Standardization Programme Coordination Group (SPGC), and TSAG approved the communication statement with the editorial modification to read:

Invites that the IEC General Secretary, ISO Secretary-General and the Director of ITU’s Telecommunication Standardization Bureau endorse the output of the Task Force by jointly signing a second planned communications statement currently being developed.

* 1. TSAG took note of the JTFEC reports contained in TD329.
  2. TSAG thanked the TSAG representatives to JTFEC, Mr Ajit Jillavenkatesa, Mr Yoichi Maeda, Ms Gaelle Martin-Cocher, and Mr Martin Euchner, TSB, for their engagement and support in JTFEC.
  3. TSAG appointed Mr Ajit Jillavenkatesa (United States), Mr Yoichi Maeda (Japan), and Ms Gaelle Martin-Cocher (Blackberry, Canada), as TSAG representatives to the IEC SMB/ISO TMB/ITU-T TSAG SPGC.

# TSB applications and ITU meeting registration system

* 1. Mr Sebastian Castano, TSB, presented in [TD391](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0391) an overview of the ITU-T enhanced applications and future services, such as MyWorkspace 2.0, neural machine translation, ICT standard landscape, TSBCloud 2.0, and ITUSearch 2.0. TSAG took note of TD391 and the new developments by TSB. TSAG took note of TD391.
  2. Mr Paul Marko, TSB, presented in [TD394](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0394) updated information on the CRM registration “Opt-in” functionality. TSAG took note of TD394.

# Languages

* 1. Mr Anibal Cabrera Montoya, TSB, on behalf of Ms Rim Belhaj, SCV Chairman, presented TD388 with the status report of SCV activities. TSAG took note of that report.
  2. TSAG considered [C048](https://www.itu.int/md/T17-TSAG-C-0048) from the Central African Republic on the use of language translating helmets or free language translation software in the work of ITU-T. C048 could not be presented remotely. TSAG recommended that such contributions should be submitted to the Council Working Group on Languages (CWG-Lang) which will be able to examine all technologies in that domain.

# Bridging the Standardization Gap

* 1. Mr Charles Chike Asadu, University of Nigeria, Nigeria, remotely presented [C047](https://www.itu.int/md/T17-TSAG-C-0047) on the implementation of WTSA-16 Resolution 44. He raised the problem faced by some developed countries that find it difficult to understand Resolution 44 (Rev. Hammamet, 2016) and he raised the need for a top-down approach to better understand ITU-T Recommendations.
  2. TSAG agreed that this contribution be further discussed with the TSB Director, taking into account Resolution 123 (rev. Dubai, 2018) and the activities of ITU-D, and that the TSB Director provide information to the next TSAG meeting on this activity.

# Intellectual Property Rights (IPR)

* 1. TSB presented section 4 of the TSB Director’s Report in [TD291R2](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0291), informing the meeting that ISO and IEC had aligned their patent guidelines with those of ITU for the case where the patent holder declared its refusal to grant licenses (Option 3 in the patent declaration form). TSAG took note of this information.

# Kaleidoscope

* 1. Ms Alessia Magliarditi, TSB, presented [TD327](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0327) "Evaluation of Kaleidoscope 2018 papers with respect to relevance in ITU activities", which provides an overview of the ITU Kaleidoscope academic conference 2018 (K-2018) that was held in Santa Fe, Argentina, from 26 to 28 November 2018. The Annex to TD327 presents a keynote speech, invited papers and accepted papers selected for presentation and publication, and identifies links to related activities in ITU-T and other ITU sectors. This report will be transmitted to RAG and TDAG. TSAG took note of TD327.
  2. TSAG invited ITU-T study groups and Focus Groups to review the papers relevant to their scope of work, and to take into consideration this input from the research community.

# ITU Journal: *ICT Discoveries*

* 1. Ms Alessia Magliarditi, TSB, presented [TD390](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0390) “ITU Journal: *ICT Discoveries*”, which provides information on the publication of the second special issue on “Data for Good” of the ITU Journal: ICT Discoveries, and announces the preparation of the third special issue on radiowave propagation (in collaboration with ITU-R/BR) and the publication of its Call for Papers. TSAG took note of TD390.

# Results of TSAG Rapporteur Groups

Six TSAG Rapporteur Groups conducted their work and brought their results to the TSAG closing plenary. Reports were noted and the Plenary decisions are summarized below. [Annex A](#_Annex_B_Summary_1) provides a table listing the TDs with the reports of the various Rapporteur Groups, the liaison statements they produced, as well as the interim activities that are planned.

## 17.1 Determination of revised Recommendations ITU-T A.1, A.5, A.13, and A.25

* + 1. In accordance with Resolution 1 (rev. Hammamet, 2016) section 9 – Traditional Approval Process (TAP), TSAG decided determination of draft revised Recommendation ITU-T A.13 “Non-normative ITU-T publications, including Supplements to ITU T Recommendations” (in [TD441](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-181210-TD-GEN-0436)). [TSAG Report 6](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-R-0006) contains the text to be sent out for TAP consultation.
    2. The Russian Federation presented a statement in [TD446](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-181210-TD-GEN-0446) to TSAG, expressing their concerns on the IPR (copyright and trademark) situation, legal issues round partnership collaborations, maturity of draft revised Recommendations ITU-T A.1, A.5, and A.25, and objected to start TAP at this meeting. The statement is included in this report in [Annex E](#_Annex_E_Statement).
    3. TSAG considered proposed determination of draft revised Recommendations ITU-T A.1, A.5, and A.25 as a package.
    4. Saudi Arabia requested more time to consider the impact of draft revised Recommendations ITU-T A.5 and ITU-T A.25.
    5. TSAG recognized the views expressed in the reports of RG-WM and RG-SC that the three texts proposed for determination are sufficiently mature.
    6. TSAG noted that the procedure of Resolution 1 (rev. Hammamet, 2016) section 9 applies, and that the initiation of TAP consultation by determination is not an approval of texts. A formal consultation of ITU Member States will be undertaken. Any party that wishes to further improve the text of the determined Recommendations can propose changes by submitting Contributions or liaison statements. The next TSAG meeting will review again the texts of the determined draft recommendations taking into account these inputs as well as the comments sent by Member States as replies to the consultation.
    7. In accordance with Resolution 1 section 9 (rev. Hammamet, 2016) – Traditional Approval Process (TAP), TSAG decided determination of
* draft revised Recommendation ITU-T A.1 “Working methods for study groups of the ITU Telecommunication Standardization Sector” (in [TD440](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-181210-TD-GEN-0440)); [TSAG Report 4](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-R-0004) contains the text to be sent out for TAP consultation;
* draft revised Recommendation ITU-T A.5 “Generic procedures for including references to documents of other organizations in ITU-T Recommendations” (in [TD432R1](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0432)); [TSAG Report 5](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-R-0005) contains the text to be sent out for TAP consultation;
* draft revised Recommendation ITU-T A.25 “Generic procedures for incorporating text between ITU-T and other organizations” ([TD442](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0442)); [TSAG Report 7](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-R-0007) contains the text to be sent out for TAP consultation.
  + 1. TSAG advised the TSB Director to bring the related IPR issues, those contained in the RG-SC living list and including those in Annex E, to the attention of the next meeting of the TSB Director's Ad Hoc Group on IPR meeting, planned in January 2019, and to seek appropriate advice from that meeting.
    2. The TSB Director will explicitly announce the intention to apply the traditional approval procedure in accordance to Resolution 1 (rev. Hammamet, 2016) section 9.3.1 for the determined texts of revised Recommendations ITU-T A.1, ITU-T A.5, ITU-T A.13, and ITU-T A.25. Information on the Member States consultation is available in TSB Circular 138 issued 20 December 2018.

## TSAG Rapporteur Group on Standardization Strategy (RG-StdsStrat)

* + 1. The Rapporteur of RG-StdsStrat, Mr Stephen Hayes (Ericsson Canada), presented the results and meeting report in [TD286](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0286). TSAG took note of that report.
    2. TSAG agreed to send an outgoing liaison statement on hot topics to all ITU-T study groups; see [TSAG LS16](https://www.itu.int/ifa/t/2017/ls/tsag/sp16-tsag-oLS-00016.doc).
    3. TSAG authorized RG-StdsStrat to hold up to four interim e-meetings (see [Annex A](#_Annex_A_Summary)) on the basis that contributions will be received. Contributions are invited until September 2019, in particular, on
* analysis of the Sustainable Development Goals (SDGs) and C053 concerning proposed actions to study mapping between the SDGs and the Questions of each study group, with the objective that the group can develop the next steps, prepare and present options to the next TSAG meeting (September 2019);
* the strategic aspects of ITU-T structural optimization, which analyses the situation in ITU-T and identifies possible options for such structural optimization.

RG-StdsStrat plans to meet at the next TSAG meeting.

* + 1. TSB Director announced that TSB will be studying the SDG mappings in C053, including how SDG assignments can be documented in ITU-T outputs, and to share its findings with the relevant TSAG Rapporteur Groups. In any case, he also invited the membership to provide ideas how to best accommodate this task such as finding non-subjective criteria for SDG mappings.
    2. TSAG thanked Mr Stephen Hayes for his excellent leadership since March 2018.
    3. TSAG confirmed that Mr Didier Berthoumieux (Nokia Corporation, Finland) is the rotating Rapporteur for RG-StdsStrat from January until September 2019.
    4. TSAG invited the TSB Director to conduct off-line consultations concerning absent and inactive co-Rapporteurs in RG-StdsStrat.
    5. TSAG appointed Mr Arnaud Taddei, United States, as co-Rapporteur for RG-StdsStrat, as proposed by United States.
    6. The Russian Federation informed TSAG that Mr Vasily Dolmatov, co-Rapporteur of RG-StdsStrat cannot continue, and that the Administration is considering to nominate a replacement for him, which was acceptable for TSAG.

## TSAG Rapporteur Group on Work Programme (RG-WP)

* + 1. Mr Hiroshi Ota, TSB, on behalf of the absent Rapporteur of RG-WP, Mr Reiner Liebler (Germany) at the final TSAG plenary, presented the RG-WP report in [TD290](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0290). TSAG took note of this report.
    2. TSAG agreed to invite contributions on the structure of study groups. It is understood that the RG-WP will be the focal point for the consideration of structural options, notwithstanding an initial review by RG-StdsStrat on structural optimization.
    3. TSAG agreed to request TSB to consider expansion of the statistics regarding ITU-T study group work.
    4. TSAG agreed to record the allocation of the unused ITU-T Y.1550-series to SG12, as negotiated with the SG13 Chairman, and to document the result in the RG-WP living list, which collects changes to Resolution 2 (rev. Hammamet, 2016) in preparation for WTSA-20.
    5. TSAG endorsed the amendments of Question 4/9 “Guidelines for implementations and deployment of transmission of multichannel digital television signals over optical access networks and Hybrid Fibre-Coaxial (HFC)” and Question 9/9 “Requirements, methods, and interfaces of the advanced service platforms to enhance the delivery of sound, television, and other multimedia interactive services over integrated broadband cable networks”. The revised Q4/9 text is found in [TD400](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0400/en), and the revised Q9/9 text is found in [TD401](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0401/en).
    6. TSAG endorsed disbanding Question 9/15 “Transport network protection/restoration” and moving responsibility for
* packet-based protection to Question 10/15 “Interfaces, interworking, operation, administration and maintenance (OAM) and equipment specifications for packet-based transport networks”;
* circuit-based protection and generic protection to Question 11/15 “Signal structures, interfaces, equipment functions, and interworking for optical transport networks”;
* and restoration using SDN to Question 12/15 “Transport network architectures”.

[TD383](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0383/en) Annexes A, B, and C provide the details of the revised Questions 10/15, 11/15, and 12/15.

* + 1. TSAG endorsed the creation of Question 5/16 “Artificial intelligence-enabled multimedia applications” with modifications, and endorsed the creation of Question 22/16 “Distributed ledger technologies and e-services”. The proposed Q5/16 and Q22/16 texts are found in [TD357](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0357) and the modifications for Q5/16 are found in [TSAG LS17](https://www.itu.int/ifa/t/2017/ls/tsag/sp16-tsag-oLS-00017.docx).
    2. TSAG agreed to send the response liaison statement in [TSAG LS17](https://www.itu.int/ifa/t/2017/ls/tsag/sp16-tsag-oLS-00017.docx) to SG16 on TSAG’s endorsement of Q5/16 with modifications, of TSAG’s endorsement of Q22/16, and TSAG inviting SG16 to proceed with the approval of both Questions as per Resolution 1 (rev. Hammamet, 2016) clause 7 procedures.
    3. TSAG endorsed the revision of Question 4/17 “Cybersecurity”, revision of Question 5/17 “Countering spam by technical means”, revision Question 6/17 “Security aspects of telecommunication services, networks and Internet of Things”, and revision of Question 8/17 “Cloud computing and Big data infrastructure security”. The revised Question texts are found in [TD364](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0364/en).

## TSAG Rapporteur Group on Working Methods (RG-WM)

* + 1. The Rapporteur of RG-WM, Mr Stephen Trowbridge (USA), presented the report of RG-WM in [TD288](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0288). TSAG took note of that report.
    2. TSAG authorized RG-WM to organize one interim e-meeting with the following terms of reference:

The e-meeting will continue reviewing *the draft Rapporteur and Editor’s Manual*,taking into account contributions submitted as well as the revised text of ITU-T A.1, ITU-T A.13, ITU-T A.5 and ITU-T A.25, just determined.TSAG plans to agree on a new version of the *Rapporteur and Editor’s Manual* at next TSAG meeting in September 2019 when the related A-series Recommendations are also planned for approval. The Rapporteur of RG-WM will inform via TSAG e-mail list on the date of the e-meeting.

## TSAG Rapporteur Group on Strengthening Cooperation (RG-SC)

* + 1. The Rapporteur of RG-SC, Mr Glenn Parsons (Canada), presented the report of RG-SC in [TD282](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0282). TSAG took note of that report.
    2. TSAG agreed to send three outgoing liaison statements:
* LS/r on ITU inter-Sector coordination for information to ISCG, TDAG, RAG in [TSAG LS14](https://www.itu.int/ifa/t/2017/ls/tsag/sp16-tsag-oLS-00014.doc)  
  (ref. revised ToR of ISCG).
* LS/o on ITU inter-Sector coordination for action to ISCG, and for commenting to TDAG, ITU-D SGs, RAG, ITU-R SGs, ITU-T SGs in [TSAG LS13](https://www.itu.int/ifa/t/2017/ls/tsag/sp16-tsag-oLS-00013.zip)  
  (ref. updated mappings of common interest areas of work between the ITU-D and ITU-T study groups and between the ITU-R and ITU-T study groups for ITU inter-Sector coordination).
* LS/o on Open Source Software for commenting to ISO/IEC JTC 1 Study Group in [TSAG LS12](https://www.itu.int/ifa/t/2017/ls/tsag/sp16-tsag-oLS-00012.docx).
  + 1. TSAG authorized RG-SC to meet electronically for two interim e-meetings, see [Annex A](#_Annex_B_Summary_1).
    2. The Russian Federation proposed to state in the report for the previous meeting when texts are planned for determination at the next meeting, as is the practice in ITU-T study groups. TSAG took note of that proposal.
    3. TSAG invited the TSB Director to seek input from the TSB Director's Ad Hoc Group on IPR on the new Living List item on IPR in [TD431R2](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0431).
    4. RG-SC will meet at the fourth TSAG meeting.

## TSAG Rapporteur Group on Strategic and Operational Plan (RG-SOP)

This Rapporteur Group did not meet at this TSAG meeting.

## TSAG Rapporteur Group on Review of WTSA Resolutions (RG-ResReview)

* + 1. The Rapporteur of RG-ResReview, Mr Vladimir Minkin (Russian Federation), presented the report of RG-ResReview in [TD280](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0280), which TSAG noted.
    2. TSAG agreed to send one liaison statement in [TSAG LS15](https://www.itu.int/ifa/t/2017/ls/tsag/sp16-tsag-oLS-00015.zip) on streamlining resolutions for commenting to ISCG, ISC-TF, TDAG, RAG, and all ITU-T study groups.
    3. TSAG authorized RG-ResReview to hold one interim e-meeting if contributions are submitted on reviewing WTSA resolutions, including streamlining as in the scope of this Rapporteur Group, see [Annex A](#_Annex_B_Summary_1).
    4. RG-ResReview will meet at the fourth TSAG meeting.

## TSAG Rapporteur Group on Regional Groups (RG-CPTRG)

* + 1. The Rapporteur of RG- CPTRG, Mr Kwame Baah-Acheamfuor (Ghana), presented the report of RG- CPTRG in [TD284](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0284). TSAG took note of that report.
    2. TSAG approved the Terms of Reference of the RG-CPTRG with modifications as contained in Annex C.
    3. TSAG agreed to send the outgoing liaison statement on the creation, participation and termination of Regional Groups for action to ITU-T SGs 2, 3, 5, 11, 12, 13, 17, 20, and for information to ITU-T SG9, SG15, SG16 as contained in [TSAG LS17](https://www.itu.int/ifa/t/2017/ls/tsag/sp16-tsag-oLS-00018.doc).
    4. The meeting accepted Ms Ena Dekanic, United States, as associate Rapporteur, as proposed by United States.
    5. The Russian Federation will be nominating a candidate for the post of an associate Rapporteur of RG-CPTRG, which TSAG accepted.
    6. RG-CPTRG will meet at the next TSAG meeting.

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

* 1. TSB prepared [TD296](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0296), which outlines the meetings schedule for ITU-T from January 2019 to December 2020. TSAG took note of TD296. An updated schedule of meeting was provided in [TD296](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0296)R1.
  2. TSAG agreed the schedule of the next TSAG meetings in this study period:
* Monday 23 – Friday 27 September 2019
* Monday 10 – Friday 14 February 2020 (tbc)
* Monday 6 – Friday 10 July 2020 (tbc).
  1. TSAG appealed to the ITU-T Study Groups to avoid any overlaps with the scheduled TSAG meetings.

# Any other business

None.

# Consideration of draft meeting Report

Mr Reinhard Scholl, Deputy to the TSB Director, informed TSAG that a draft version of the meeting report would be uploaded by 20 December 2018. The report will be open for review and comment until 13 January 2019.

# Closure of meeting

* 1. Mr Chaesub Lee, TSB Director, appealed to ITU members and Standards Developing Organizations (SDO), in particular ETSI, that collaboration needs to be based on the principle of mutual respect and benefit in order to bring value to all involved parties. There have been many examples where “duplication of work” was used as an argument to prevent ITU-T from doing work, but Mr Lee has never seen the reverse, namely that “duplication of work” was used as an argument in other SDOs to join ITU-T’s ongoing work. For example, ITU has been working on IoT for more than 10 years now – long before most other SDOs even considered working on it – and has invited other SDOs to join ITU-T’s effort. But, as the topic caught on over the years, concerns have been raised subsequently that ITU-T would be duplicating IoT efforts of other organizations. Mr Lee expressed the hope that collaboration with ETSI and other SDOs can be strengthened in future. He invited SDOs to actively participate in and contribute to the forthcoming ITU workshop on quantum.
  2. The TSAG Chairman thanked the TSAG Vice Chairmen and Rapporteurs and associate and co-Rapporteurs, Chairman of AHG-quantum, the Chairmen of the study groups, the delegates for the efficient work, the TSB, the interpreters and captioners for their support and work, and the delegates for their active participation.
  3. The TSAG meeting was closed on 10 December 2018 at 12:37 hours.

# Annex A Summary of results of the TSAG Rapporteur Groups

| Group | RG Report | Outgoing liaison statements | Future meetings |
| --- | --- | --- | --- |
| RG-ResReview | [TD280](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0280) | * LS/o on streamlining resolutions for commenting to ISCG, ISC-TF, TDAG, RAG, and all ITU-T study groups (in [TSAG LS15](https://www.itu.int/ifa/t/2017/ls/tsag/sp16-tsag-oLS-00015.zip)) | * One interim e-meeting if contributions are submitted on reviewing WTSA resolutions, including streamlining as in the scope of this Rapporteur Group. * Next TSAG meeting. |
| RG-SC | [TD282](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0282) | * LS/o on Open Source Software for commenting to ISO/IEC JTC 1 Study Group (in [TSAG LS12](https://www.itu.int/ifa/t/2017/ls/tsag/sp16-tsag-oLS-00012.docx)). * LS/o on ITU inter-Sector coordination for action to ISCG, and for commenting to TDAG, ITU-D SGs, RAG, ITU-R SGs, ITU-T SGs (in [TSAG LS13](https://www.itu.int/ifa/t/2017/ls/tsag/sp16-tsag-oLS-00013.zip)). * LS/r on ITU inter-Sector coordination for information to ISCG, TDAG, RAG (in [TSAG LS14](https://www.itu.int/ifa/t/2017/ls/tsag/sp16-tsag-oLS-00014.doc)). | * Two e-meetings to progress the work, on the condition that contributions will be received:   + 4 March 2019, 15:00 – 17:00 hours CET   + 4 June 2019, 15:00 – 17:00 hours CET * Next TSAG meeting. |
| RG-SOP | --- | --- | * Next TSAG meeting. |
| RG-StdsStrat | [TD286](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0286) | * LS/ o on hot topics for action to all ITU-T study groups (in [TSAG LS16](https://www.itu.int/ifa/t/2017/ls/tsag/sp16-tsag-oLS-00016.doc)) | Up to four interim e-meetings on the basis that contributions will be received.  Contributions are invited until September 2019, in particular, on   * analysis of the SDGs and C053, with the objective that the group can develop the next steps, prepare and present options to the next TSAG meeting (September 2019). * the strategic aspects of ITU-T structure optimization, which analyses the situation in ITU-T and identifies possible options on a strategic structural optimization.   The interim e-meetings will also analyse the Communiqués of the TSB Director CxO meetings.  E-meetings are planned every two months on Thursday, 13:00-15:00 hours Geneva time   * 28 February 2019, 25 April 2019, 27 June 2019, and 29 August 2019. * Next TSAG meeting. |
| RG-WM | [TD288](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0288) | None. | * One interim e-meeting with the following terms of reference:   The e-meeting will review *the draft Rapporteur and Editor’s Manual* and accept contributions for the new texts of updated A-series Recommendations to finalize the Manual*.*   * Next TSAG meeting. |
| RG-WP | [TD290](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0290) | * LS/r on creation of new Questions 5/16 (Artificial intelligence-enabled multimedia applications) and 22/16 (Distributed ledger technologies and e-services) (SG16-LS111) for action to ITU-T SG16, and for information to ITU-T SG2, SG3, SG5, SG9, SG11, SG12, SG13, SG15, SG17, SG20 (in [TSAG LS17](https://www.itu.int/ifa/t/2017/ls/tsag/sp16-tsag-oLS-00017.docx)). | * Next TSAG meeting. |
| RG-CPTRG | [TD284](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0284) | * LS/o on creation, participation and termination of Regional Groups for action to ITU-T SGs 2, 3, 5, 11, 12, 13, 17, 20, and for information to ITU-T SG9, SG15, SG16 (in [TSAG LS18](https://www.itu.int/ifa/t/2017/ls/tsag/sp16-tsag-oLS-00018.doc)). | * Next TSAG meeting. |

# Annex B TSAG work programme

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Work item** | **New/ Revised** | **Title** | **Editor** | **Latest draft in** | **Timing** |
| A.1rev (\*) | Revised | Draft revised Recommendation ITU-T A.1  Working methods for study groups of the ITU Telecommunication Standardization Sector | Stephen J Trowbridge | TSAG R 4  ([TD440](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-181210-TD-GEN-0440)) | September 2019 (\*\*) |
| A.5rev (\*) | Revised | Draft revised Recommendation ITU-T A.5  Generic procedures for including references to documents of other organizations in ITU T Recommendations | Olivier Dubuisson | TSAG R 5  ([TD432](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0432)R1) | September 2019 (\*\*) |
| A.13rev (\*) | Revised | Draft revised Recommendation ITU-T A.13  Non-normative ITU-T publications, including Supplements to ITU T Recommendations | Stephen J Trowbridge | TSAG R 6  ([TD441](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-181210-TD-GEN-0436)) | September 2019 (\*\*) |
| A.25rev (\*) | Revised | Draft revised Recommendation ITU-T A.25  Generic procedures for incorporating text between ITU-T and other organizations | Olivier Dubuisson | TSAG R 7  ([TD376](https://www.itu.int/md/T17-TSAG-181210-TD-GEN-0376)R4) | September 2019 (\*\*) |

Notes:

(\*) – Text for TAP approval

(\*\*) – Target date for TAP approval.

# Annex C Terms of reference for the new Rapporteur Group on Regional Groups (RG-CPTRG)

**Background**

Committee 5 of the 2018 ITU Plenipotentiary Conference examined proposals IAP/63A1/47, B/67/1, CAN/USA/66/2 and EUR/48A2/7, and recommended that the Plenary adopt the following recommendation:

|  |
| --- |
| Recommendation 8:  PP-18 invites the World Telecommunication Standardization Assembly to review, in the context of Article 3 of the ITU Constitution, and revise, as appropriate, WTSA Resolution 1, WTSA Resolution 2, WTSA Resolution 22 and WTSA Resolution 54 to clarify the criteria for creation, participation and termination of regional groups of Study Groups, and the role of TSAG in this regard. |

**Objectives**

1. To clarify the current criteria for the creation of, participation in, and termination of regional groups of ITU-T Study Groups and the mechanisms which govern those criteria, with guidance from the ITU, as appropriate.
2. To review WTSA-16 Resolution 1, WTSA-16 Resolution 2, WTSA-16 Resolution 22 and WTSA-16 Resolution 54, in order to discuss and revise, as appropriate, to clarify the criteria for the creation and termination of regional groups and to present a report to TSAG.
3. In the context of Article 3 of the ITU Constitution, to review WTSA-16 Resolution 1, WTSA-16 Resolution 2, WTSA-16 Resolution 22 and WTSA-16 Resolution 54, in order to discuss and revise, as appropriate, to clarify the criteria for participation in regional group meetings and to present a report to TSAG.
4. The Rapporteur Group is open to all TSAG participants. The leadership of the regional groups of Study Groups, as well as the parent Study Groups themselves, are encouraged to participate in the work of the Rapporteur Group.
5. The Rapporteur Group shall operate in English, when interpretation is unavailable.
6. The meetings of the Rapporteur Group shall be paperless and shall make use of electronic working methods, including the use of remote participation tools.
7. The Rapporteur Group shall meet during TSAG and will normally not meet at the same time as other TSAG Rapporteur Groups. If necessary, the Rapporteur Group may schedule additional meetings between TSAG meetings, which would normally be held electronically. If necessary, the Rapporteur Group may schedule face-to-face meetings, which would be co-located back-to-back with other Rapporteur Group meetings as much as possible.

# Annex D Statement of China (P.R.)

The development of quantum information technology is accelerating due to global efforts. The impact of information technology on the ICT networks cannot be overlooked. For ITU-T, it is necessary to carry out quantum information technology research and standardization as soon as possible. In this TSAG meeting, under the direction of the Chairman of the ad-hoc, Mr Taddei, the contribution on the establishment FG-QIT4N proposed by China, has undergone warm discussions during four ad-hoc sessions.

For better understanding among all parties, Mr Taddei constructively raised a list of up to twelve questions. China responded to all of them and fully discussed them with all members concerned while further worked in depth with relevant experts to revise the ToR.

However, it is a pity that the ad hoc meeting did not reach a consensus on the establishment of FG-QIT4N among all Member States and will continue to be discussed at the next TSAG meeting. In the course of discussion, the importance of quantum information technology has been well recognized.

What makes us confused is that in the case, ITU-T already has seven Focus Groups, why such an important Focus Group cannot be established?

In any case, we would like to thank the countries and the members that have expressed their interest and support for the Chinese proposal during the discussion. At the same time, we also sincerely hope that ITU-T can be more open to carry-out research on new technologies in a timely manner and use tools such as Focus Groups to attract members inside and outside of ITU-T to exchange and share ideas on new technologies and promote the standardization work of the study groups.

In the future, we are willing to participate in the relevant standardization research and continue to promote the establishment of FG-QIT4N.

Considering the need to provide more open and in-depth opportunities for ITU-T parties to discuss quantum information technology, according to the meeting report, we are willing to host a workshop on quantum information technology in China organized by ITU-T. The workshop is scheduled to be held in May or June in 2019 for a period of two and a half days. The location may be Shanghai or Hong Kong, which needs further confirmation. We warmly welcome the participation, sharing and discussion from all ITU-T Member States, Sector Members, Associates, and academic institutions, industry and any other relevant stakeholders.

# Annex E Statement of the Russian Federation

Russian Federation has seen very important revisions and still open issues for A.1, A.5, A.25 at this meeting.

Those are come from received contributions, rose in discussion at this meeting and have been raised by our administration at the last TSAG meeting.

Still open issues are:

1. The legal status of possible partnerships collaborating with ITU and its influence for A.1, A.5 and A.25 procedures.
2. The whole set of IPR issues, including (but not limiting)
   1. possible restrictions for Member States for using/maintaining copyrighted text from those partnerships in ITU-T Recommendations
   2. possible restrictions for exclusion of trademarks from the proposed copyrighted text and obligation to use trademarks in the texts and titles of ITU-T Recommendations
3. Transparency of above pointed issues for Member States

Russian Federation believe that A.1, A.5, A.25 are not mature enough to start TAP at this meeting.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Webcast recording is available at <https://www.itu.int/en/ITU-T/tsag/2017-2020/Pages/webcasts-l.aspx>. The direct link to the archived webcast is [here](https://www.itu.int/webcast/archive2/t2017-20tsag?order=field_start_date&sort=desc). [↑](#footnote-ref-2)