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| ITU logo | INTERNATIONAL TELECOMMUNICATION UNION**TELECOMMUNICATIONSTANDARDIZATION SECTOR**STUDY PERIOD 2017-2020 | TSAG-TD317 |
| **TSAG** |
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| **TD** |
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| **Title:** | Report of the ISO/IEC JTC 1 Plenary, 5-8 November 2018 |
| **Purpose:** | Information |
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| **Keywords:** | ISO/IEC JTC1 Resolutions; |
| **Abstract:** | ISO/IEC JTC 1 held its last Plenary meeting on 5-8 November 2018 in Stockholm, Sweden.This document gathers items discussed and decided in the last JTC 1 meeting which are relevant to TSAG and proposes actions for TSAG when appropriate. |

**Action**: TSAG is invited to take action as proposed.

ISO/IEC JTC 1 held its last Plenary meeting on 5-8 November 2018 in Stockholm, Sweden.

At its 26 February -2 March 2018 meeting TSAG nominated Mr. Shigeru Miyake (Hitachi, Japan) as ITU‑T Liaison Officer to ISO/IEC JTC 1.

This document gathers items discussed and decided in the last JTC 1 meeting which are relevant to TSAG and proposes actions for TSAG when appropriate.

The next JTC 1 Plenary meeting will be held on 6-10 May 2019 in Lahaina, Hawaii, the United States.

1. **Change of meeting frequency and reconstitution of JAG**

JTC 1 decided to change the meeting frequency of plenary meeting from 12 months to 6manths, which will be held in May in addition to that in November. Due to this change, JTC 1 Advisory Group (JAG) was reconstituted and some of its responsibilities have been transferred to subgroups under JTC 1.

***Proposed action****: TSAG to note.*

1. **New officers**

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| Resolution 20 – Appointment of Officers |
| JTC 1 makes the following appointments/re-appointments: |
| * Heng Qian, JTC 1 Liaison Officer to ITU-T (through the November 2019 Plenary)
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***Proposed action****: TSAG to note.*

1. **Emerging technologies**

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| Resolution 4 – Establishment of a JTC 1 Special Working Group (SWG) on JTC 1 Emerging Technology and Innovation (JETI) |
| JTC 1 establishes a Special Working Group on JTC 1 Emerging Technology and Innovation (JETI) with the following Terms of Reference: |
| 1. *Assess the opportunities for addressing evolving ICT business needs;*
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| 1. *Assess the technology opportunities to identify the relevant standardization issues and priorities that warrant immediate action and those that should be watched for potential consideration later by JTC 1;*
 |
| 1. *Emphasize reaching out and incorporating input from stakeholders outside ofJTC 1, such as verticals (e.g., financial services, health care);*
 |
| 1. *Monitor the future considerations from JTC 1 SCs/WGs (e.g., through their business plans, dashboards, and/or other alternative information sources) to perform successful execution of standards development and planning with an appropriate coordination in JTC 1;*
 |
| 1. *Make recommendations on actions to JTC 1;*
 |
| 1. *Review and make suggestions to revise SD 4, Planning, as appropriate.*
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| Convenor: Seungyun LeeSecretary: Kwan Hoo Shin |
| Membership: Membership is open to: |
| 1. JTC 1 National Bodies and Liaison Organizations;
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| 1. JTC 1 SC Chairs, JTC 1 Working Group Convenors and JTC 1 SG Convenors.
 |
| Initial members include: Australia, Canada, China, Finland, France, Germany, India, Ireland, Japan, Korea, the Netherlands, South Africa, Sweden, UK, US, SC 17, SC 41, SC 42, JTC 1/WG 11 and JTC 1/WG 12. |
| JTC 1 instructs its Secretariat to issue a call for additional participation. |
| The SWG shall provide a report of its activities at every JTC 1 Plenary meeting. |

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| Resolution 5 – Content of Technology Trend Reports (TTR) of JETI |
| JTC 1 believes that it could be beneficial to make the content of Technology Trend Reports visible outside of JTC 1 but also believes that such content should not be made public until JTC 1 determines if or how such work should move forward in JTC 1. |
| To this end, JTC 1 resolves that a JTC 1 subgroup, established as a result of a JTC 1 action/decision taken in response to a Technology Trend Report, should consider creating a white paper to capture this information in a more accessible format, working with ISO and IEC staff. |

 **Summary**: JETI was one of subgroup activities under the JTC 1 Advisory Group (JAG). Due to the reconstitution of JAG, JETI has been succeeded under the direct working group of JTC 1. JETI will survey the emerging technologies and report to JTC 1 in order to specify hot topics and to recommend emerging technologies which will be standardized in JTC 1 and its sub committees.
The content of report from JETI (Technology Trend Report) will be publicly available as contents of whitepaper and some other reports after the decision of action plan for each technical topic in JTC 1.

***Proposed action****: TSAG/RG-StdsStrat to note.*

1. **New Groups**

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| Resolution 6 – Establishment of a JTC 1 Study Group (SG) on Open Source Software  |
| JTC 1 establishes a Study Group on Open Source Software with the following Terms of Reference: |
| *1. Assess JTC 1 “National Body / Sub-Committee / Working Group” current and potential future requirements / needs / opportunities with regard to Open Source Software (OSS)* |
| *a. Catalog areas where OSS has been used (successfully or otherwise) in the past, as well as current JTC 1 standardization projects and work programs;* |
| *b. Identify areas where OSS can be used to initiate or accelerate standardization projects and work programs within JTC 1 scope;* |
| *2. Evaluate OSS industry utilization within other SDOs and development communities.* |
| Membership in the Study Group on Open Source Software is open to: |
| 1. JTC 1 National Bodies, JTC 1 Liaison Organizations and approved JTC 1 PAS Submitters; |
| 2. JTC 1 Subcommittees Chairs and Working Groups Convenors or their nominees; |
| 3. Members of the ISO Central Secretariat and the IEC Central Office. |
| Initial members include: Canada, France, Finland, Ireland, Japan, Korea, the Netherlands, Sweden, UK, US and SC 7. |
| Convenor: David Filip |
| JTC 1 instructs its Secretary to issue a call for additional participation. |
| The SG is instructed to submit a report and recommendations by 25 March 2019 in time for consideration at the May 2019 JTC 1 Plenary. |

**Summary**: This activity was originally undertaken in JETI subgroups in the JTC 1 Advisory Group (JAG). Due to the reconstitution of JAG, this activity has also been succeeded under the direct study group of JTC 1.

***Proposed action****: TSAG/RG-SC to note the creation of this new group.*

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| Resolution 7 – Establishment of a JTC 1 Study Group (SG) on Quantum Computing |
| JTC 1 establishes a Study Group (SG) on Quantum Computing to improve the understanding of the current state of standardization and to explore a possible role for JTC 1. |
| Terms of Reference: |
| *1. Provide a description of key concepts related to Quantum Computing, and describe relevant terminology;* |
| *2. Study and document the technological, market and related societal requirements for the future ICT standardization on Quantum Computing;* |
| *3. Study and document current technologies that are being deployed in Quantum Computing;* |
| *4. Promote the awareness of the importance of JTC 1 activities on Quantum Computing outside JTC 1;* |
| *5. Assess the current state of standardization activities relevant to Quantum Computing within JTC 1, in other relevant ISO and IEC TCs, in other SDOs and in consortia.* |
| *6. Identify and propose how JTC 1 should address the ICT standardization needs of Quantum Computing;* |
| Membership in the Study Group on Quantum Computing is open to: |
| 1. JTC 1 National Bodies, JTC 1 Liaison Organizations and approved JTC 1 PAS Submitters; |
| 2. Representatives of JTC 1/SCs, JTC 1/WGs, relevant ISO and IEC TCs; |
| 3. Members of ISO Central Secretariat and IEC Central Office; |
| 4. Invited standards setting organizations that are engaged in Quantum Computing standardization as approved by the SG on Quantum Computing. |
| Initial members include: Australia, Canada, China, Germany, Ireland, Japan, Korea, UK, US, SC 27 and SC 42. |
| Convenor: Hong Yang |
| JTC 1 instructs its Secretariat to issue a call for additional participation. |
| The SG is instructed to submit a report and recommendations by 25 March 2019 in time for consideration at the May 2019 JTC 1 Plenary. |

**Summary**: JTC 1 decided to establish this SG according to the recommendation from JETI which was subgroup of JAG. The Terms of Reference of this SG is defined based on one of JETI deliverables, Technology Trend Report (TTR) on Quantum Computing.

***Proposed action****: TSAG/RG-StdsStrat to note the creation of this new group and recommend to relevant groups to establish liaisons as appropriate.*

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| Resolution 8 – Establishment of a JTC 1 Study Group (SG) on Autonomous and Data Rich Vehicles |
| JTC 1 establishes a Study Group on Autonomous and Data Rich Vehicles with the following Terms of Reference: |
| *1. Assess the current state of Vehicular Data standardization activities relevant to Autonomous and Data Rich Vehicles within JTC 1, in other relevant ISO and IEC TCs, in other SDOs, in industrial consortia and legal and regulatory bodies;* |
| *2. Establish relations and coordinate Vehicular Data standards development and harmonization between the JTC 1 SCs and WGs, and the various international industrial bodies and organizations; and legal and regulatory bodies;* |
| Membership is open to: |
| 1. JTC 1 National Bodies, JTC 1 Liaison Organizations and approved JTC 1 PAS Submitters; |
| 2. representatives of JTC 1/SCs, JTC 1/WGs , relevant ISO and IEC TCs, particularly ISO/TC 22, ISO/TC 204 and IEC/TC 100; |
| 3. Members of ISO Central Secretariat and IEC Central Office;  |
| 4. Invited standards setting organizations that are engaged in vehicular data in the area of Autonomous Vehicle standardization as well as the development of Data-Rich Vehicles, as approved by the SG on Autonomous and Data Rich Vehicles. |
| Initial members include: Canada, China, Ireland, Korea, the Netherlands, Sweden, UK, US, SC 41 and SC 42 |
| Convenor: François Coallier |
| JTC 1 instructs its Secretary to issue a call for additional participation. |
| The SG is instructed to submit a report and recommendations by 25 March 2019 in time for consideration at the May 2019 JTC 1 Plenary |

**Summary**: JTC 1 decided to establish this SG according to the recommendation from JETI which was subgroup of JAG. The Terms of Reference of this SG is defined based on one of JETI deliverables, Technology Trend Report (TTR) on Autonomous and Data Rich Vehicles.

***Proposed action****: TSAG/RG-StdsStrat to note the creation of this new group and recommend to relevant groups (in particular SG16, SG20 and FG-VM) to establish liaisons as appropriate.*

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| Resolution 10 – Establishment of a JTC 1 Study Group (SG) on Trustworthiness |
| JTC 1 establishes a Study Group (SG) on Trustworthiness to improve the understanding of the current state of standardization in this area and to explore and/or clarify the role for JTC 1. |
| *The Terms of Reference:* |
| *1. Assess the current state of standardization activities relevant to Trustworthiness in JTC 1 SCs, JTC 1/WGs, other ISO and IEC TCs and other SDOs;* |
| *2. Collect information about standardization gaps relevant to Trustworthiness;* |
| *3. Develop a common JTC 1 definition of Trustworthiness;* |
| *4. Describe a superset of components or considerations of Trustworthiness;* |
| *5. Identify and propose how JTC 1 should address the standardization needs of* |
| *Trustworthiness;* |
| *6. Provide reports and recommendations to JTC 1 including whether a guidance document or a JTC 1 Standing Document on Trustworthiness should be developed.* |
| Convenor: Walter Fumy |
| Membership in the SG on Trustworthiness is open to: |
| 1. JTC 1 National Bodies, JTC 1 Liaison Organizations and approved JTC 1 PAS Submitters; |
| 2. Representatives of JTC 1/SCs, JTC 1/WGs, relevant ISO and IEC TCs; |
| 3. Members of ISO Central Secretariat and IEC Central Office;  |
| 4. Invited standards setting organizations that are engaged in Trustworthiness standardization as approved by the SG on Trustworthiness. |
| Initial members include: Australia, Canada, Denmark, Finland, France, Germany, India, Ireland, Japan, Korea, Luxenberg, the Netherlands, South Africa, UK, US, SC 17, SC 23, SC 27, SC 31, SC 32, SC 37, SC 38, SC 40, SC 41, SC 42, JTC 1/WG 11, ISO/PC 317 |
| JTC 1 instructs its Secretariat to issue a call for additional participation. |
| The SG is instructed to submit a report and recommendations by 25 March 2019 in time for consideration at the May 2019 JTC 1 Plenary. |

**Summary**: This activity was originally undertaken in JETI subgroups in the JTC 1 Advisory Group (JAG) and the subgroup on Trustworthiness was established in the last JAG meeting held in May. Due to the reconstitution of JAG, this activity has also been transferred to the study group of JTC 1.

***Proposed action****: TSAG/RG-StdsStrat to note the creation of this new group and recommend to relevant groups (in particular SG17) to establish liaisons as appropriate..*

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| Resolution 12 – Establishment of a JTC 1 Special Working Group (SWG) on Communications  |
| JTC 1 establishes a Special Working Group on Communications with the following Terms of Reference: |
| 1. *Develop JTC 1 Communication releases, publicly accessible web content (e.g., JTC1info, JTC1.org, wiki pages, LinkedIn, ISO and IEC promotional channels) and other external documents (e.g. JTC 1 brochure);*
 |
| 1. *Collect newsworthy and useful information from the JTC 1 SCs, JTC 1 WGs and JTC 1 SGs that is valuable for wider dissemination;*
 |
| 1. *Provide guidance and upon request assist JTC 1 SCs, JTC 1 WGs and JTC 1 SGs with their own press releases and publicly accessible web content. (e.g., JTC1info, JTC1.org, wiki pages, LinkedIn, ISO and IEC promotional channels);*
 |
| 1. *Collect representative presentations from JTC 1 SCs, JTC 1 WGs and JTC 1 SGs that are used for outreach, to be stored in the JTC 1 SWG on Communications area.*
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| Convenor: Volker Jacumeit |
| Membership is open to: |
| 1. JTC 1 National Bodies;
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| 1. JTC 1 SC Chairs, Secretaries and Press/Communications Officers;
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| 1. JTC 1 Working Group Convenors, JTC 1 SG Convenors;
 |
| 1. Members of ISO Central Secretariat and IEC Central Office.
 |
| Initial members include: Finland, France, Germany, India, Ireland, Japan, Korea, the Netherlands, UK, US, SC 17, SC 42, JTC 1/WG 11, ISO Central Secretariat and IEC Central Office. |
| JTC 1 instructs its Secretary to issue a call for additional participation as well as additional contributions from National Bodies and Subcommittees. |
| The SWG shall provide a report of its activities at every JTC 1 Plenary meeting. |

**Summary**: This activity was originally undertaken in Press Committee in the JTC 1 Advisory Group (JAG) which is responsible for the press information. Due to the reconstitution of JAG, this activity has also been succeeded under the direct study group of JTC 1. This SWG is responsible for the additional communication activity with external as well as the press release from JTC 1.

***Proposed action****: TSAG/RG-SC to note.*

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| Resolution 16 – Establishment of a JTC 1 Study Group (SG) on Data Usage |
| JTC 1 establishes the JTC 1 Study Group on Data Usage with the following Terms of Reference: |
| 1. *Agree on what is covered under data usage (e.g. data sharing);*
 |
| 1. *Identify the JTC 1 subgroups that are relevant in Data Usage and existing work in JTC 1, and other ISO and IEC groups, such as IEC SyC Smart Energy andISO TC 268 Sustainable Cities and communities;*
 |
| 1. *Identify the concerns relating to data usage, existing standards that address these concerns, and any gaps, including concerns raised in JTC 1 N13885, such as:*
 |
| * 1. *many data custodians remain hesitant to share data;*
 |
| * 1. *no way to unambiguously determine if there is personal information in aggregated data;*
 |
| * 1. *privacy, security and safety as concerns that are raised by advocates as the capability of data analytics increases;*
 |
| * 1. *context plays an important role in determine if linked data sets have personal information content;*
 |
| Membership is open to: |
| 1. JTC 1 National Bodies, JTC 1 Liaison Organizations and approved JTC 1 PAS Submitters; |
| 2. Representatives of JTC 1/SCs, JTC 1/WGs, relevant ISO and IEC TCs; |
| 3. Members of ISO Central Secretariat and IEC Central Office; |
| 4. Invited standards setting organizations that are engaged in data sharing standardization as approved by the SG on Data Usage. |
| Convenor: Don Deutsch |
| Editor: Ian Oppermann |
| Initial members include: Australia, Canada, China, France, Germany, Ireland, Japan, Korea, South Africa, Sweden, UK, US, SC 17, SC 24, SC 27, SC 32, SC 35, SC 38, SC 42 and JTC 1/WG 11 |
| JTC 1 instructs its Secretariat to issue a call for additional participation. |
| The SG is instructed to submit a report and recommendations by 25 March 2019 in time for consideration at the May 2019 JTC 1 Plenary. |

**Summary**: This SG was established by the contribution from a national body which proposes research on privacy information data protection and handling. This SG is responsible for the survey and the research of data sharing and data usage within the various information systems discussed in JTC 1 sub committees.

***Proposed action****: TSAG/RG-StdsStrat to note the creation of this new group and recommend to relevant groups (in particular SG13, SG 16, SG17, SG20, FG-AI4H and FG-DPM) to establish liaisons as appropriate.*

1. **Artificial Intelligence**

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| Resolution 11 – Joint Working Group between SC 40 and SC 42 on ISO/IEC AWI 38507, Governance implications of the use of artificial intelligence by organizations |
| JTC 1 endorses the creation of a Joint Working Group (JWG) between SC 40 and SC 42 on ISO/IEC AWI 38507, *Governance implications of the use of artificial intelligence by organizations.* |
| JTC 1 assigns the administrative lead of the JWG to SC 42 with the elements identified in JTC 1 N14001. |
| JTC 1 requests ITTF to reinstate ISO/IEC AWI 38507 and add it to the SC 42 program of work. |

**Summary**: This work item on Governance implication of the use of artificial intelligence was originally proposed by SC40 which is responsible for the governance of information systems. The approved work item was suspended by JAG, because of the creation of the SC42 which is responsible for the Artificial Intelligence and Big Data. This work item was decided to transfer from SC40 to SC42 according to the recommendation of JAG and the activity will be resumed with the leadership of SC42 in this JWG.

***Proposed action****: TSAG/RG-StdsStrat to note and recommend to relevant groups (in particular SG13, SG16, SG17,FG-AI4H and FG-ML5G) to establish liaisons as appropriate.*

1. **Liaison policy**

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| Resolution 1 – Addition/Deletion to JTC 1 Pilot on Enhanced Liaison Function |
| JTC 1 resolves to add ISO/TC 184, [*Automation systems and integration*](https://r.search.yahoo.com/_ylt%3DAwrEeByj4N1btAIADkwPxQt.%3B_ylu%3DX3oDMTByOHZyb21tBGNvbG8DYmYxBHBvcwMxBHZ0aWQDBHNlYwNzcg--/RV%3D2/RE%3D1541296420/RO%3D10/RU%3Dhttps%3A//www.iso.org/committee/54110.html/RK%3D2/RS%3DCaCC.XzcACfIRPGT4O977TlNxTw-)to its pilot on enhanced liaison function. |
| JTC 1 appoints Christophe Mouton to serve as the JTC 1 Liaison Representative to |
| ISO/TC 184. |
| JTC 1 instructs its Secretariat to notify the ISO Central Secretariat, the IEC Central Office, and the ISO/TC 184 Secretariat of this establishment. |
| In the absence of an identified Liaison Representative from JTC 1 to ISO/TC 215, *Health Informatics*, JTC 1 resolves to drop ISO/TC 215 from the enhanced liaison pilot. |

**Summary**: The new concept of "enhanced liaison function" has been introduced since the last JTC 1 Plenary held in November 2017, which will be more intensive collaboration than the information sharing. JTC 1 Standing Document 15 has been revised and defines the function of enhanced liaison relationship. Currently JTC 1 established “enhanced” liaison relationship with IEC/TC65 and ISO/TC307. The “enhanced liaison” relationship may be applied to the liaison relationship with external organization of JTC 1 as well.

***Proposed action****: TSAG/RG-SC to note the new concept of "enhanced liaison relationship" which is described in JTC 1 Standing Document 15.*

1. **Future Meetings**

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| Resolution 23 - Future Plenary Meeting Weeks |
| The following schedule of future JTC 1 Plenary meeting weeks is agreed: |
| * 6-10 May 2019 Maui, Hawaii USA
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| * 4-8 November 2019 New Delhi, India
 |
| * 11-15 May 2020 Limerick City, Ireland
 |
| * 2-6 November 2020 Okayama, Japan
 |
| * May 2021 Korea (to consider)
 |
| * November 2021 Australia (to consider)
 |

**Summary:** ISO/IEC JTC 1 has decided to add second regular Plenary meeting in May in addition to that currently held in November. This means the frequency of Plenary meeting is changed to 6months (twice per year). Due to the addition of new regular plenary meeting in May, JTC1 Chair and Secretary will provide the detail plan for the next Plenary meeting by the end of 2018.

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| **Action items** |
| 1. The JTC 1 Chair and Secretary to provide by the end of 2018 a document outlining the proposed May 2019 Plenary schedule and "required" agenda items.
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***Proposed action****: TSAG to note.*

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