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| ITU logo | INTERNATIONAL TELECOMMUNICATION UNION**TELECOMMUNICATIONSTANDARDIZATION SECTOR**STUDY PERIOD 2017-2020 | TSAG-TD493R1 |
| **TSAG** |
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| **TD** |
| **Source:** | ITU-T Liaison Officer to JTC 1 |
| **Title:** | Report of the ISO/IEC JTC 1 Plenary, (Lahaina, 6-11 May 2019) |
| **Purpose:** | Information |
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| **Keywords:** | ISO/IEC JTC1 Resolutions; |
| **Abstract:** | ISO/IEC JTC 1 held its last Plenary meeting on 6-11 May 2019 in Lahaina, Hawaii, USA. This document gathers items discussed and decided in the last JTC 1 meeting which are relevant to TSAG and proposes actions when appropriate. |

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

ISO/IEC JTC 1 held its last Plenary meeting on 6-10 May 2019 in Lahaina, Hawaii, the United States.

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 4-8 November 2019 in New Delhi, India.

1. **Change of Naming on subgroups under JTC 1**

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| Resolution 6 – Deprecation of JTC 1 Standing Documents |
| JTC 1 deprecates the following JTC 1 Standing Documents for the reasons provided below and instructs the Editor of the Consolidated JTC 1 Supplement to take the actions indicated below:  |
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| 2. SD 10, *Advisory and Ad Hoc Groups*Rationale: Alignment with Clauses 1.13 and 1.14 in the ISO/IEC Directives. The terms Special Working Group (SWG) and Study Group (SG) will no longer be used; only Advisory Group and Ad Hoc Group will be used. |
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Due to alignment to ISO/IEC Directives, only the terms Advisory Group and Ad Hoc Group will be used. According to this Resolution some of existing SWGs and SGs were also renamed. The function of renamed groups might not be changed

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

1. **Advisory Groups**

Note: Advisory Group in JTC 1 is similar activity to Focus Group in ITU-T. AG is responsible to gather information and to recommend actions to its parent group for the future activity.

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| Resolution 11 – Reconstitution of the JTC 1 Advisory Group (AG) on Trustworthiness |
| JTC 1 reconstitutes the Advisory Group (AG) 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 Committees 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. Engage with standards setting organizations that are involved in Trustworthiness standardization as approved by the AG on Trustworthiness;* |
| *7. 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 Study Group on Quantum Computing is open to: |
| 1. Experts nominated by JTC 1 National Bodies; |
| 2. One representative per JTC 1 Liaison Organization and per approved JTC 1 PAS Submitter; |
| 3. One representative per JTC 1/SC, JTC 1/WG, relevant ISO and IEC Committees; |
| 4. Members of ISO Central Secretariat and IEC Central Office; |
| Duration: Through the May 2020 JTC 1 Plenary. |
| The AG is instructed to submit an interim report by 23 September 2019 in time for consideration at the November 2019 JTC 1 Plenary as well as a subsequent report to the May 2020 JTC 1 Plenary. |

**Summary**: This activity was originally undertaken in SG on Trustworthiness of JTC 1 and the Advisory Group on Trustworthiness was reconstituted due to the Resolution 6 shown above.

***Proposed action****: TSAG to note the continuation of this activity. Study Groups which deal with trustworthiness such as SG13, SG17 and SG20 to consider liaison relationship with this Advisory Group.*

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| Resolution 12 – Reconstitution of the JTC 1 Advisory Group (AG) on Data Usage |
| JTC 1 reconstitutes the Advisory Group on Data Usage with the following Terms of Reference: |
| *1. Conduct a study of potential standards for Data Sharing Frameworks that would describe factors to consider when sharing data.* |
| *a. Determine what is covered by data sharing frameworks.**b. Identify the JTC 1 subgroups that are relevant to data sharing frameworks and existing work in JTC 1, and other ISO and IEC groups.**c. Identify the concerns relating to data sharing frameworks, existing standards that address these concerns, and any gaps, such as:* |
| *i. lack of guidance and best practices for data sharing;* |
| *ii. why many data custodians remain hesitant to share data (cultural, economic or other reasons);* |
| *iii. privacy, security and safety as concerns that are raised by advocates as the capability of data analytics increases;* |
| *2. Cooperate with SC 27, SC 32, SC 36 SC 38 and SC 42 on definitions and relationships between Personal Information and Personally Identifiable Information.* |
| *3. Conduct a study of potential standards for defining and determining Personal Information Factor (PIF) levels along with a levels-of-assurance framework. The study should consider ISO/IEC 29115, Entity Authentication Assurance to inform the levels-of-assurance framework and consider ISO/IEC 38505-1, Governance of data* |
| *4. Engage with standards setting organizations that are involved in data sharing framework standardization as approved by the AG on Data Usage.* |
| *Convenor: Donald Deutsch* |
| *Editor: Ian Oppermann* |
| Membership is open to: |
| 1. Experts nominated by JTC 1 National Bodies; |
| 2. One representative per JTC 1 Liaison Organization and per approved JTC 1 PAS Submitter; |
| 3. One representative per JTC 1/SC, JTC 1/WG, relevant ISO and IEC Committees; |
| 4. Members of ISO Central Secretariat and IEC Central Office; |
| Duration: Through the May 2020 JTC 1 Plenary. |
| The AG is instructed to submit an interim report by 23 September 2019 in time for consideration at the November 2019 JTC 1 Plenary and a subsequent report to the May 2020 JTC 1 Plenary. |

**Summary**: This activity was originally undertaken in SG on Data Usage of JTC 1 and the Advisory Group on Data Usage was reconstituted due to the Resolution 6 shown above.

***Proposed action****: TSAG to note the continuation of this activity. Study Groups and Focus Groups which deal with data sharing and usage such as SG13, SG17, SG20 to consider liaison relationship with this Advisory Group.*

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| Resolution 14 – Reconstitution of the JTC 1 Advisory Group (AG) on Autonomous and Data Rich Vehicles |
| JTC 1 reconstitutes the Advisory 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 Committees, 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;* |
| *3. Engage with standards setting organizations that are involved in vehicular data in the area of Autonomous Vehicle standardization as well as the development of Data-Rich Vehicles, as approved by the AG on Autonomous and Data Rich Vehicles* |
| *4. Provide reports and recommendations to JTC 1 regarding what actions it should take on vehicular data standardization* |
| Membership is open to: |
| 1. Experts nominated by JTC 1 National Bodies; |
| 2. One representative per JTC 1 Liaison Organization and per approved JTC 1 PAS Submitter; |
| 3. One representative per JTC 1/SC, JTC 1/WG, relevant ISO and IEC Committees; particularly ISO/TC 22, ISO/TC 204 and IEC/TC 100; |
| 4. Members of ISO Central Secretariat and IEC Central Office; |
| Duration: Through the November 2020 JTC 1 Plenary |
| Convenor: François Coallier |
| The AG is instructed to submit an interim report by 23 September 2019 in time for consideration at the November 2019 JTC 1 Plenary as well as subsequent reports to the May 2020 JTC 1 Plenary and the November 2020 JTC 1 Plenary. |

**Summary**: This activity was originally undertaken in SG on Autonomous and Data Rich Vehicles of JTC 1 and the Advisory Group on Autonomous and Data Rich Vehicles was reconstituted due to the Resolution 6 shown above.

***Proposed action****: TSAG to note the continuation of this activity. Study Groups and Focus Groups which deal with ITS such as SG16 and SG17 to consider liaison relationship with this Advisory Group.*

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| Resolution 15 – Reconstitution of the JTC 1 Advisory Group (AG) on Open Source Software |
| JTC 1 reconstitutes the Advisory 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)* |
| 1. *Catalog areas where OSS has been used (successfully or otherwise) in the past, as well as current JTC 1 standardization projects and work programs;*
 |
| 1. *Identify areas where OSS can be used to initiate oraccelerate standardization projects and work programs within JTC 1 scope;*
 |
| *2. Evaluate OSS industry utilization within other SDOs and other relevant development communities.* |
| Membership is open to: |
| 1. Experts nominated by JTC 1 National Bodies; |
| 2. One representative per JTC 1 Liaison Organization and per approved JTC 1 PAS Submitter; |
| 3. One representative per JTC 1/SC, JTC 1/WG, relevant ISO and IEC Committees; |
| 4. Members of ISO Central Secretariat and IEC Central Office; |
| Convenor: David Filip |
| Duration: Through the November 2019 JTC 1 Plenary |
| The AG is instructed to submit a report by 23 September 2019 in time for consideration at the November 2019 JTC 1 Plenary. |

**Summary**: This activity was originally undertaken in SG on Open Source Software of JTC 1 and the Advisory Group on Open Source Software was reconstituted due to the Resolution 6 shown above.

***Proposed action****: TSAG to note the continuation of this activity and TSAG Rapporteur Groups which deal with open source software such as RG-SC to consider liaison relationship with this Advisory Group.*

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| Resolution 17 – Reconstitution of the JTC 1 Advisory Group (AG) on Quantum Computing |
| JTC 1 reconstitutes the Advisory Group (AG) 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 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 Committees, in other SDOs and in consortia.* |
| *6. Identify and propose how JTC 1 should address the ICT standardization needs of Quantum Computing;* |
| *7. Engage with standards setting organizations that are involved in Quantum Computing standardization as approved by the AG on Quantum Computing.* |
| Membership is open to: |
| 1. Experts nominated by JTC 1 National Bodies; |
| 2. One representative per JTC 1 Liaison Organization and per approved JTC 1 PAS Submitter; |
| 3. One representative per JTC 1/SC, JTC 1/WG, relevant ISO and IEC Committees; |
| Convenor: Hong Yang |
| Duration: Through the May 2020 JTC 1 Plenary. |
| The AG is instructed to submit an interim report by 23 September 2019 in time for consideration at the November 2019 JTC 1 Plenary as well as a subsequent report to the May 2020 JTC 1 Plenary. |

**Summary**: This activity was originally undertaken in SG on Quantum Computing of JTC 1 and the Advisory Group on Quantum Computing was reconstituted due to the Resolution 6 shown above.

***Proposed action****: TSAG to note the continuation of this activity. Study Groups and Focus Groups which deal with quantum key distribution, quantum safe communications such as SG11, SG13, SG15 and SG17 to consider liaison relationship with this Advisory Group.*

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| Resolution 20–Establishment of a JTC 1 Advisory Group (AG) on Digital Twin |
| JTC 1 establishes an Advisory Group on Digital Twin with the following Terms of Reference: |
| *1.* *Provide a description of key concepts and relevant terminology related to Digital Twin;* |
| *2.* *Identify current technologies and reference models that are being deployed in Digital Twin;* |
| *3. Promote the awareness of JTC 1 activities on Digital Twin outside JTC 1;* |
| *4.* *Assess the current state of standardization activities relevant to Digital Twin within JTC 1, in other relevant ISO and IEC Committees, in other SDOs and in consortia;* |
| *5. Identify and propose the relevant standardization issues of Digital Twin that needs to be addressed by JTC 1, covering at least foundational areas, ICT standardization needs, etc.* |
| *6. Engage with standards setting organizations that are involved in Digital Twin standardization as approved by the AG on Digital Twin.* |
| *7. Prepare a report and recommendations to JTC 1, which may include proposed New Work Items.* |
| Membership is open to: |
| 1. Experts nominated by JTC 1 National Bodies; |
| 2. One representative per JTC 1 Liaison Organization and per approved JTC 1 PAS Submitter; |
| 3. One representative per JTC 1/SC, JTC 1/WG, relevant ISO and IEC Committees; |
| 4. Members of ISO Central Secretariat and IEC Central Office |
| Initial members include: Australia, Canada, China, France, Germany, Italy, Korea, Netherlands, UK, US, SC 24, SC 27, SC 36, SC 41, SC 42, JTC 1/WG 11, JTC 1/WG 12 |
| Convenor: Sha Wei |
| Duration: Through the November 2020 JTC 1 Plenary |
| JTC 1 instructs its Committee Manager to issue a call for additional participation. |
| The AG is instructed to submit an interim report by 23 September 2019 in time for consideration at the November 2019 JTC 1 Plenary as well as subsequent reports to the May 2020 JTC 1 Plenary and the November 2020 JTC 1 Plenary. |

**Summary**: This activity is initiated based on the Technology Trend Report on Digital Twin as a result of work under Advisory Group on JTC 1 Emerging Technology and Innovation (AG JETI).
**Note:** The Technology Trend Reports could be visible outside of ISO/IEC JTC 1 after the determination of action made by JTC 1 [Resolution 5 of JTC 1 November 18 Plenary:
“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.”

***Proposed action****: TSAG to note the continuation of this activity. Study Groups and Focus Groups which deal with digital twin related work such as SG17, SG20 to consider liaison relationship with this Advisory Group.*

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| Resolution 29–Establishment of a JTC 1 Advisory Group (AG) on Use Cases for VR and AR based ICT Integration Systems in JTC 1 |
| JTC 1 establishes an Advisory Group on Use Cases for VR and AR based ICT Integration Systems in JTC 1 with the following Terms of Reference: |
| *1.* *To develop detailed use cases for VR and AR based ICT integration systems that will establish detailed requirements to be addressed in a NWIP. An initial use case will be elaborated describing an educational application which allows students to annotate and navigate in the VR environment and meet their learning objective. Additional use cases will cover other training scenarios such as medical or heavy equipment training* |
| *2.* *To prepare a NWIP to address the identified requirements including those linked to the known issues of annotation and navigation;* |
| *3. To provide an interim report to the November 2019 JTC 1 meeting and a final report to May 2020 JTC 1 meeting* |
| Membership is open to: |
| 1. Experts nominated by JTC 1 National Bodies; |
| 2. One representative per JTC 1 Liaison Organization and per approved JTC 1 PAS Submitter; |
| 3. One representative per JTC 1/SC, JTC 1/WG, relevant ISO and IEC Committees; |
| 4. Members of ISO Central Secretariat and IEC Central Office |
| Initial members include: SC 24, SC 29, SC 36 and experts nominated by UK, Japan and Korea |
| JTC 1 instructs its Committee Manager to issue a call for additional participation. |
| Convenor: Myeong Won Lee |
| Duration: Through the May 2020 JTC 1 Plenary |
| The Advisory Group is instructed to submit an interim report by 23 September 2019 for consideration at the November 2019 JTC 1 Plenary meeting and a subsequent report to the May 2020 JTC 1 Plenary. |

**Summary**: This activity is initiated based on the final report of the VR AR for Education Ad Hoc Group. The Ad Hoc Group made the draft document maned “Guidelines for Developing VR AR Based Education and Training Systems” and the activity of the Ad Hoc Group will be succeeded by this Advisory Group for preparing of new work item proposal (NWIP) by the next JTC 1 Plenary.

***Proposed action****: TSAG to note the continuation of this activity. Study Groups and Focus Groups which deal with VR and AR such as SG16 to consider liaison relationship with this Advisory Group.*

1. **Reference Information**

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| Resolution 13 – Work on Personal Information and Personally Identifiable Information |
| JTC 1 notes that it is important that work within JTC 1 recognise and differentiate between “Personal Information” (PI) (present in data) and “Personally Identifiable Information” (PII) present in data. |
| *Therefore, JTC 1 instructs SC 27 to assume responsibility to identify the appropriate actions to ensure that these two concepts are clearly described in the relevant standards. This could include a review of ISO/IEC 29100 clause 4.4 and data categorisation in ISO/IEC 19944. SC 27 is asked to liaise with SC 32, SC 36 SC 38 and SC 42 on this task.* |

***Proposed action****: TSAG to note the continuation of this activity. Study Groups which deal with PII such as SG17 to consider liaison relationship with this Advisory Group.*

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| Resolution 16 – Online Survey Concerning Engagement with Open Source Software |
| JTC 1 instructs the Convenor of the Advisory Group on Open Source Software to send to the Committee Manager, by 31 May 2019, the text of an email with a link to, and instructions for, a survey concerning engagement with Open Source Software in their standardization work program. This email will be distributed to JTC 1 subgroups, JTC 1 National Bodies, Category A Liaison organizations and PAS Submitters. The aggregated data received as a result of the survey can be shared with external bodies who participated in the survey. |

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

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| Resolution 28 – Revised Scope and Title of NP 24039, Platform for Public Information and Service of Smart Cities |
| Based on the National Body ballot comments on NP 24039, as well as the discussions during this meeting, JTC 1 approves the following revised title and scope for NP 24039: |
| **Revised Title**: *Information Technology – Smart City Digital Platform* |
| ***Revised Scope:****This document describes a reference architecture for a Smart City Digital Platform (SCDP).* |
| *Note 1: An SCDP is a type of digital service that provides advanced middleware services to smart city applications that enable municipal management, public safety and environmental protection.* |
| *Note 2: An SCDP facilitates the design of integrated software applications and/or systems whose capabilities and shared data can be combined to create city service. It also provides infrastructure services that are required by smart cities applications, as well as common service management functions.* |

***Proposed action****: TSAG and SG20 to note the continuation of this activity.*

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: |
| * 4-8 November 2019 New Delhi, India
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| * 11-15 May 2020 Limerick City, Ireland
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| * 2-6 November 2020 Okayama, Japan
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| * May 2021 Korea (to consider)
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| * November 2021 Australia (to consider)
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