ISO/IEC JTC 1/WG 10	
Internet of Things	
Convenorship: KATS (Korea, Republic of)	

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Recommendations of the 5th ISO/IEC JTC 1/WG 10 Meeting

9-13 May 2016 in Berlin, Germany

Recommendation 70: Transfer of the Clause 3, Terms and Definitions, in ISO/IEC 30141 to ISO/IEC 20924

ISO/IEC JTC 1/WG 10 agrees to transfer the Clause 3, Terms and Definitions, in ISO/IEC WD 30141 to ISO/IEC WD 20924. ISO/IEC 20924 should be added to ISO/IEC WD 30141 as a Normative Reference.

Unanimous

Recommendation 71: Request for Extension of ISO Limit Date for JTC 1/WG 10 project, ISO/IEC WD 30141

ISO/IEC JTC 1/WG 10 recognizes the following target date for ISO/IEC WD 30141 and recommends that the project request a 9 month extension and instructs WG 10 Secretariat to forward the request to JTC 1 and ITTF for approval with the details provided below.

Project Summary

Project Number	ISO/IEC 30141
Title	Information technology — Internet of Things Reference Architecture (IoT RA)
Registration Date	2014-10-08
Time frame in months	36

Limit Date for DIS registered

Current Limit Date	2016-10-08
Proposed Limit Date	2017-07-08 (9 month extension)

Reason for Extension

ISO/IEC JTC 1/WG 10 agrees to request JTC 1 Secretariat for 9 month project extension in order to finish ISO/IEC WD 30141.

As IoT is emerging technology and a complex area for standardization, with many diverse

contributions that needed to be harmonized the time available has been consumed in getting contributions from multiple experts and SDOs reviewed, aligned and incorporated into the ISO/IEC WD 30141.

As noted in the timelines discussed in the meeting, the WG 10 experts believe that at least one more Working Draft (WD) will be required to prepare the document for Committee Draft (CD) that will be sufficient for National Body (NB) review and input.

Unanimous

Recommendation 72: Preparation for revised Working Draft (WD) of ISO/IEC 30141

ISO/IEC JTC 1/WG 10 instructs the Project Editors for ISO/IEC WD 30141 to incorporate the comments as resolved in the 5th Meeting of WG 10. The Secretary is instructed to circulate the final disposition of comments (DoC) no later than **2016-05-13**. The Project Editors are directed to prepare a revised WD no later than **2016-05-27** for distribution. ISO/IEC JTC 1/WG 10 instructs its Secretary to circulate the documents to WG 10 members and its liaisons for comments to be submitted to the WG 10 Secretary no later than **2016-07-05**. ISO/IEC JTC 1/WG 10 requests the project editors to prepare a proposed DoC and the revised WD text based on the comments submitted by the deadline no later than **2016-08-05.**

Unanimous

Recommendation 73: Preparation for Committee Draft of ISO/IEC 20924

ISO/IEC JTC 1/WG 10 instructs the Project Editors for ISO/IEC WD 20924 to incorporate the comments as resolved in the 5th Meeting of WG 10. The Secretary is instructed to circulate the final disposition of comments (DoC) no later than **2016-05-13**. The Project Editors are directed to prepare a revised WD no later than **2016-05-27** for distribution. ISO/IEC JTC 1/WG 10 instructs its Secretary to circulate the documents to WG 10 members for comments to be submitted to the WG 10 Secretary no later than **2016-06-10**. The purpose of submitting comments is only to review whether the approved DoC have been properly incorporated in the document. If necessary, ISO/IEC JTC 1/WG 10 requests the project editors to prepare a DoC and the revised text for CD no later than **2016-06-19**.

Unanimous

Recommendation 74: Request for CD ballot of ISO/IEC WD 20924

ISO/IEC JTC 1/WG 10 recommends that ISO/IEC WD 20924 be progressed to CD stage and instructs its Secretary to forward the updated document to JTC 1 Secretariat for a 2 month CD ballot no later than **2016-06-19**.

Unanimous

Recommendation 75: Request for comments and contribution for TR on IoT Use cases

ISO/IEC JTC 1/WG 10 recognizes the necessity of input on IoT Use cases in order to develop Technical Report (TR) on IoT Use cases. ISO/IEC JTC 1/WG 10 instructs its Secretary to request WG 10 members and its liaisons to submit comments and IoT Use cases contributions to WG 10 Secretary using the appropriate templates no later than **2016-07-31**.

Unanimous

Recommendation 76: Re-establishment of the Subgroup Rapporteur Group (SRG) 1 on Standardization gaps

ISO/IEC JTC 1/WG 10 approves the re-establishment of the SRG 1 on Standardization gaps. The Terms of Reference of SRG 1 are:

a. Review of IoT-related standardization activities within JTC 1 entities and outside JTC 1; and
b. Identification of standardization gaps on IoT

ISO/IEC JTC 1/WG 10 approves Steve Halliday (High Tech Aid, US) as the Convenor of the SRG 1 with the following membership: Chuck Evanhoe (Evanhoe & Associates, US), Laura Lindsay (Microsoft, US), Dongmei Xu (CESI, China), Wei Min (CQUPT, China), Young Sic Jeong (ETRI, Korea), Joosang Youn (Dongeui University, Korea), Marco Carugi (ITU-T Liaison), Gilles Thonet (IEC CO), Gargi Keeni (BIS, India), Jean David Miquel (Monitorlinq, France), Jianhui Li (WSN, China), Wang Quan (WSN/CQUPT, China), Henri Barthel (GS1, Belgium), Nikita Utkin (Russian Venture Company, Russia) and Kate Grant (Nine Tiles, UK).

Unanimous

Recommendation 77: Establishment of the Subgroup Rapporteur Group (SRG) 7 on Cyber Physical Systems (CPS) for IoT

ISO/IEC JTC 1/WG 10 approves the establishment of the SRG 7 on Cyber Physical Systems (CPS) for IoT. The Terms of Reference of SRG 7 are to:

a. Study the requirements and technologies on Cyber Physical Systems (CPS) for IoT;
b. Study the standardization requirements on Cyber Physical Systems (CPS);
c. Identify organizations with which WG 10 should establish a liaison to share information or make joint work proposal;
d. Identify the possible new projects in this area for WG 10;
e. Submit the study report to WG 10.

ISO/IEC JTC 1/WG 10 approves Deji Chen (Tongji University/Proudsmart, China) and Dongmei Xu (CESI, China) as the Co-Convenors of the SRG 7 with the following membership: Quan Wang (WSN/CQUPT, China), Wei Min (CQUPT, China), Jie Shen, Jianhui Li (WSN, China), Eric Simmon (NIST, US), Mark Yao (IBM, US), Detlef Tenhagen (HARTING, Germany) and Kate Grant (Nine Tiles, UK).

Unanimous

Recommendation 78: Establishment of the Subgroup Rapporteur Group (SRG) 8 on IoT Networking framework

ISO/IEC JTC 1/WG 10 approves the establishment of the SRG 8 on IoT Networking framework. The Terms of Reference of SRG 8 are to:

a. Consider study report from ISO/IEC JTC 1/WG 10 SRG 2 (WG10 N0409) and work on a potential new work item proposal on networking framework addressing specifically:
    1. Impact of OneM2M and IETF work on potential area of work for WG 10;
    2. The development of a study document to scope the potential work and set clear boundaries and justify the need for WG 10 work;
    3. Consideration of how such work will complement the IoT interoperability project or potentially become a part of that project;
b. Survey the related network level standards in cooperation with SRG 1 (existing and in development);
c. Identify other groups which could provide input and request additional liaisons as

necessary;

d. Prepare draft material for the proposed NWIP for discussion within WG 10.

ISO/IEC JTC 1/WG 10 approves Wei Min (CQUPT, China) as the Convenor of the SRG 8 with the following membership: Kate Grant (Nine Tiles, UK), Detlef Tenhagen (HARTING, Germany), Eric Simmon (NIST, US), Dongmei Xu (CESI, China), Steve Halliday (As a liaison of SRG 1), Arto Toppinen (Savonia University of Applied Sciences, Finland), Jean David Miquel (Monitorlinq, France), Tyson Macaulay (Fortinet, Canada), Östen Frånberg (Ericsson, Sweden), Jin Young Lee (ETRI, Korea), Young Sic Jeong (ETRI, Korea) and Mark Yao (IBM, US).

Approved

Abstention: Sara Norman (SIS, Sweden)

Recommendation 79: Liaison appointment of JTC 1, ISO and IEC internal entities

ISO/IEC JTC 1/WG 10 appoints Sangkeun YOO and Detlef Tenhagen as liaison officers from WG 10 to ISO/TC 184/SC 5 at the 5th Meeting of WG 10.

All the liaison representatives from WG 10 are responsible for reporting WG 10 works in formal written liaison report and representative from the other entities are responsible for providing a liaison report to WG 10.

No.	Organization	Representative to	Representative from
1	JTC 1/SC 37 ***Discontinued by SC 37***	Sangkeun YOO	Dylan Yaga (dylan.yaga@nist.gov)
2	ISO/TC 184/SC 5	Sangkeun YOO, Detlef Tenhagen	Dukki Chung (dchung@ra.rockwell.com)
3	ISO/TC 215		Lisa Spellman (Lisa.Spellman@ahima.org)

Unanimous

Recommendation 80: Deadlines for Agenda and Contributions to the next Meeting of ISO/IEC JTC 1/WG 10

ISO/IEC JTC 1/WG 10 requests WG 10 members and its liaison organizations to meet the following deadline schedules:

- 2016-06-30: First draft agenda issued
- 2016-08-05: Comments or contributions formally submitted for 6th Meeting
- 2016-08-19: Comments on contributions
- 2016-08-29: Final agenda posted

Unanimous

Recommendation 81: Future Meetings

ISO/IEC JTC 1/WG 10 agrees to hold the following Face to Face Meeting plans:

- **6th WG 10 Meeting:** 5-9 September 2016, Busan, KR

- **7th WG 10 Meeting:** 13-17 February 2017, TBD, US (Tentatively)

- **8th WG 10 Meeting:** 12-16 June 2017, Stockholm, Sweden (Collocated with ISO/IEC JTC 1/SC 31)

- **9th WG 10 Meeting:** TBD, September 2017, TBD (India, Tentatively)

Unanimous

Appreciation 1: Meeting host

ISO/IEC JTC 1/WG 10 expresses its appreciation to the meeting host, DIN (German Institute for Standardization) and also to the following staff members for providing the excellent meeting facilities during the whole meeting period.

- Volker Jacumeit (DIN, Germany)
- Kerstin Bülow (DIN, Germany)
- Anna Thiel (DIN, Germany)

Acclaimed

Appreciation 2: ISO/IEC/ITU IoT Workshop Organizers

ISO/IEC JTC 1/WG 10 expresses its appreciation to the following ISO/IEC/ITU IoT workshop organizers.

- Henry Cuschieri (ISO CS)
- Gilles Thonet (IEC CO)
- Karen Higginbottom (JTC 1 Chair)
- Volker Jacumeit (DIN, Germany)

Acclaimed

Appreciation 3: Ad-hoc Group for updating and enhancing Communication View

ISO/IEC JTC 1/WG 10 expresses its appreciation to Mike Edwards for convening the Ad-hoc Group and also to the following Ad-hoc Group members for their contribution during the meeting:

- Mike Edwards (IBM, UK), Deji Chen (Tongji University/Proudsmart, China), Jie Shen (WSN, China), Jianhui Li (WSN, China), Wei Wei (IBM, Germany), Ulf Olsson (Ericsson, Sweden), Östen Frånberg (Ericsson, Sweden), Kate Grant (Nine Tiles, UK), Quan Wang (WSN/CQUPT, China), Young Sic Jeong (ETRI, Korea), Paul Lipton (INCITS/CA Technologies, US) and Andrey Hoursanov (SAP, Germany).

Acclaimed

Appreciation 4: Ad-hoc Group for reworking Information View to focus on Information Types and Requirements

ISO/IEC JTC 1/WG 10 expresses its appreciation to Deji Chen for convening the Ad-hoc Group and the following Ad-hoc Group members for their contribution during the meeting:

- Deji Chen (Tongji University/Proudsmart, China), Jie Shen (WSN, China), Östen Frånberg (Ericsson, Sweden), Wei Wei (IBM, Germany), Kate Grant (Nine Tiles, UK), Mike Edwards (IBM, UK), Dongmei Xu (CESI, China), Young Sic Jeong (ETRI, Korea), Andrey Hoursanov (SAP, Germany) and Quan Wang (WSN/CQUPT, China).

Acclaimed

Appreciation 5: Drafting Committee

ISO/IEC JTC 1/WG 10 expresses its appreciation to the following drafting group members for preparing the draft Recommendations of 5th WG 10 meeting:

- Dongmei Xu (CESI, China)
- Wei Wei (IBM, Germany)
- Detlef Tenhagen (HARTING, Germany)
- Chuck Evanhoe (Evanhoe & Associates, US)
- Yaeseul Park (KTR, Korea)

Acclaimed

Appreciation 6: Convenor, Secretary, Project Editors, JAG-SIF Convenor and all participants

ISO/IEC JTC 1/WG 10 expresses its appreciation to its Convenor, Secretary, Project Editors, JAG-SIF convenor, Contributors and all participants for their support and dedication to ISO/IEC JTC 1/WG 10 works.

Acclaimed