

ISO/IEC JTC 1/WG 10
Internet of Things
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Email of convenor: lobbi@etri.re.kr

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Liaison letter from ISO/IEC JTC 1/WG10 to all liaisons

Date: 17th February 2017

1. Current Activity of JTC 1 WG 10

JTC 1 WG 10 held its 7th meeting between 13th -17th February 2017 in Santa Clara, US. The current work of WG 10 is as follows:

- **ISO/IEC 30141 Information technology – Internet of Things – Reference Architecture**
 - CRM on CD Ballot of ISO 30141 held 13th -14th February
 - Revised text will be subject to a 2-month CD2 ballot and a CRM will be held during the ISO/IEC JTC 1 SC 41 meeting in Seoul, Korea.
- **ISO/IEC PDTR 22417 Internet of Things (IoT) – IoT Use Cases**
 - PDTR ballot is underway, completes 14th March 2017.
 - CRM will be held during the ISO/IEC JTC 1 SC 41 meeting in Seoul, Korea.
- **ISO/IEC 20924 Information technology – Internet of Things – Definition and Vocabulary**
 - CRM on result of ISO/IEC CD 20924 will be completed in an electronic meeting to be held on 22:00h UTC, 23th March 2017.
- **ISO/IEC 21823 – Interoperability for Internet of Things Systems**
 - AHG has held 3 telecons and developed a WD which was reviewed during the Santa Clara meeting.
- **At the seventh meeting experts have been recommended to submit NWIPs through their NBs on:**
 - **ISO/IEC 21823-2, Information technology – Internet of Things (IoT) – Interoperability for Internet of Things Systems – Part 2: Network connectivity**

- **ISO/IEC 21823-3**, Information technology – Internet of Things (IoT) – Interoperability for Internet of Things Systems – Part3: Systems

2. Four Sub Rapporteur Groups (SRG) were established at the 7th meeting

2.1. SRG 7 on Cyber Physical Systems (CPS) for Real-Time IoT

The Terms of Reference of SRG 7 are to:

- a) Study the requirements and technologies on Cyber Physical Systems (CPS) for Real-Time 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) Review the existing Use Cases to define critical requirements related to real-time features;
- e) Review IEC SG 9 Report (WG10_N0625);
- f) Identify the relevant metrics;
- g) Identify the possible new projects in this area for ISO/IEC JTC 1/SC 41;
- h) Submit the study report to ISO/IEC JTC 1/SC 41.

2.2. SRG 9 on Verification of use cases and implementation

The Terms of Reference of SRG 9 are to:

- a) Select typical uses cases, e.g., manufacturing
- b) Study on requirements for implementation in these use cases
- c) Study on definitions of functional blocks in IoT products
- d) Study on interface models between these blocks
- e) Study on operation guideline
- f) Prepare initial draft documents for the NP proposal in SC41 meeting

2.3. SRG 10 on Secure networking framework

The Terms of Reference of SRG 10 are to:

- a) Survey network configuration for IoT through reviewing use cases
- b) Study on requirements on secure IoT network
- c) Survey standardization of network technologies including security and communication protocols for IoT, such as ITU-T, oneM2M, IETF, IEEE, etc.

according to following aspects

- Transport of user traffic
 - Network control
 - Network management
- d) Study on gap analysis in scope of communication view in ISO/IEC 30341
- e) Study on target performance in communication network collaborating with SRG 7 (Real time IoT)
- f) Prepare initial draft documents for the NP proposal in SC41 meeting

2.4. SRG 11 on Classification of Internet of Things Use Cases

The Terms of Reference of SRG 11 are to:

- a) Build a classification of use cases
- b) Create a link between use case classification and ISO/IEC 30141
- c) Arrange the requirements of ISO/IEC 30141 into mandatory or recommended for every items of the classification
- d) Consider ISO/IEC PDTR 22417 as a base of work and insert the existing use cases into classification
- e) Improve the current use case template to take into consideration classification and links to reference architecture

3. 2016 JTC 1 Plenary Resolutions setting up SC41

3.1. Resolution 12 – Establishment of JTC 1 Subcommittee SC 41, Internet of Things and related technologies

- SC 41 will establish its own substructure at its first meeting.
- JTC 1 transfers the programmes of work and liaisons of JTC 1/WG 7 and JTC 1/WG 10 to SC 41 and recommends that SC 41 initially establish the following subgroups:
 - **A working group on Sensor Networks** (based on JTC 1/WG 7)
 - **A working group on Internet of Things** (based on JTC 1/WG 10)
 - **A study group on Wearables technologies** (considering the Technology Trend Report document JTC 1 N 13113)
- Administrative support and leadership of SC 41 will be provided as follows:

- The National Body of the Republic of Korea will serve as Secretariat for SC 41. The Secretariat has nominated François Coallier to serve as the Chair for SC 41. The JTC 1 Secretariat will issue a call for membership in SC 41.
- *(see JTC 1 N13311 issued also as AC/7/2017 on 20th January.)*

3.2. Future Meetings of JTC 1 SC 41

- **1st ISO/IEC JTC 1/SC 41 Plenary and WGs Meeting:** May 28 – June 2, 2017, Seoul, Korea
- **ISO/IEC JTC 1/SC 41/WG Meetings:** 13-17 November 2017, New Delhi, India

Enclosed: Programme of work