ISO/IEC JTC 1/SWG 5
Internet of Things (IoT)
Secretariat: KATS (Korea, Republic of)

Document type:	Meeting Report
Title:	Report of the 1st ISO/IEC JTC 1/SWG 5 Meeting, 6 - 8 March 2013, DIN, Berlin
Status:	
Date of document:	2013-03-28
Source:	Convenor, ISO/IEC JTC 1/SWG 5
Expected action:	INFO
No. of pages:	4
Email of secretary:	khj@etri.re.kr
Committee URL:	http://isotc.iso.org/livelink/livelink/open/jtc1swg5

Report of the 1st Meeting of ISO/IEC JTC1 SWG 5 (IoT)
Berlin, Germany (06-08 March 2013)

Workshop and the 1st Face-to-Face Meeting of ISO/IEC JTC 1/SWG 5 were held at DIN, Germany. The meeting opened at 10:00 am, Wednesday 6th March 2013.

Meeting hours:

Day 1: 10:00 – 17:00 (Administrative Matters and Workshop on IoT)

Day 2: 10:00 – 17:00 (SWG on IoT meeting)

Day 3: 10:00 – 17:00 (SWG on IoT meeting)

1. Opening of the meeting

The SWG 5 Convenor opened the meeting and appreciated DIN.

2. Welcoming Remarks (DIN)

Dr. Nikolaus Kovacs, Mr. Cord Wischhöfer and Mr. Mario Wendt made welcoming remarks.

3. Roll call of Participants

27 participants (20 in person, 7 by teleconference) from 9 NBs and 4 LOs attended the meeting. The attendants list is in Annex 1 to this report.

4. Adoption of Agenda

The agenda in SWG5_N0024 as the final one was adopted.

5. Appointment of drafting committee

9 delegations from 9 NBs were appointed as drafting committee.

6. Workshop on IoT

6.1. Concept, Vision and Deployment Status of NB on IoT

China, Korea, US and UK presented the concept, vision and deployment status on IoT. Each presentation is given in the follows:

- SWG5_N0009 – Industrial IoT Standards, Technology and Solutions (China)
- SWG5_N0012 – Internet of Things in Korea (Korea)
- SWG5_N0018 – Zero-Configuration Collaboration of Devices Using Device Sociality (Korea)
- SWG5_N0019 – The Internet of Things (IoT) in the USA (US)
- SWG5_N0022 – IoT and Accessibility (UK)

6.2. Activities of IoT-related Standardization of JTC 1/SCs, ISO TCs, IEC TCs, ITU-T and other SDOs

ISO/IEC JTC 1/SC 31, ISO/IEC JTC 1/WG 7, GS 1, ISO TC 122/WG 12 and ITU-T presented their standardization activities on IoT. Each presentation is given in the follows:

- SWG5_N0011 – An Overview of ISO/IEC JTC 1/WG 7: Information Technology – Sensor Networks
- SWG5_N0013 – SC 31 contribution to JTC 1/SWG 5
- SWG5_N0021 – SC 31 Standards and IoT
- SWG5_N0017 – GS 1 contribution to JTC 1/SWG 5
- SWG5_N0008 – The Vision of ISO TC 122/WG 12 and IoT in the supply chain
- SWG5_N0007 – M2M/IoT Standardization in ITU-T

7. Discussion on works of SWG on IoT

7.1. Review of Terms of Reference

The SWG 5 Convenor explained the ToR of SWG 5 given in SWG5_N0001.

7.2. Cooperation issues across JTC 1 entities

During the meeting, there were some discussions on what the IoT really is. There are multiple definitions out there, some of which have a particular slant. For example, ITU-T's definition is mostly communications-centric. The US definition was presented and slightly modified. The meeting decided not to try to come up with a definition at the meeting.

Instead an Ad Hoc Group 1 was formed to develop an ISO/IEC JTC 1 definition for the IoT, including the possibility of adopting one of the definitions that are already available, and to develop a mind map for the IoT. See Recommendation 1.

In addition, there were discussions on market requirements for the IoT. Some participants argued that members of SWG 5 could take on this task and find the market requirements. An Ad Hoc Group 2 was formed to deal with these issues. See Recommendation 2.

Finally, an Ad Hoc Group 3 was formed to find the standardization gaps and develop a roadmap for IoT development. The meeting developed an extensive Excel spread sheet of all JTC 1 and non-JTC 1 entities that are working on standards that one way or another have something to do with the IoT. See Recommendation 3.

- Ad-hoc Group 1: Common understanding of IoT including IoT mind map and stakeholders
- Ad-hoc Group 2: Identifying market requirements
- Ad-hoc Group 3: Standardization gaps and roadmap for IoT

In addition, Chinese Delegation gave a presentation on user requirements for IoT to be considered.

- SWG5_N0010 – User Requirements for IoT (China)

7.3. Cooperation issues of JTC 1 IoT activities with IEC, ISO, ITU and other SDOs

Letters will be sent by SWG 5 to all these entities to seek input from them and form liaison relationships with some of them. See Recommendations 4, 5, 6, 7, 8 and 9.

SWG 5 approved the following individuals as the SWG 5 liaison representatives to related liaison organizations.

Name	Representative to
Nader Moayeri	ITU-T JCA-IoT
Craig Harmon	
Detlef Tenhagen	CEN TC 225

8. Schedule of future meeting

SWG 5 agreed the future meetings as below:

Year	Date and Time	Meeting	Venue
2013	Before 30 April, Time will be determined	Ad Hoc 1 Teleconference Ad Hoc 2 Teleconference Ad Hoc 3 Teleconference	
2013	10 June, 20:00 (KST)	Teleconference	
2013	20-21 August	2th Face-to-Face Meeting	US (Location will be determined)
2013	18 September, Time will be determined	Teleconference	
2013	25 September (tentative), Time will be determined	Teleconference	[Remark] 2013/09/30 is the deadline for SWG5 report to JTC 1 Plenary.
2014	25-26 March	3rd Face-to-Face Meeting	Chongqing, China

9. Any other Business

10. Review /Approval of possible Action Items and Recommendations

SWG 5 agreed the SWG 5 1st Meeting Recommendations in SWG5_N0027.

11. Closure of meeting

The SWG 5 Convenor closed the meeting and expressed his appreciation to all the participants and the meeting hosts. The meeting adjourned around 17:00, Friday, 8th March 2013.

ANNEX 1

List of Delegates attending:

Representing	Name	Company	3/6	3/7	3/8
Austria	Preishuber Pflügl, Josef	CISC	T		
Canada	Khan, Faud	TwelveDot	X	X	X
China	Min, Wei	CQUPT	X	X	X
Germany	Kovacs, Nikolaus	DIN	X	X	X
Germany	Oehlmann, Heinrich	Eurodata	X	X	X
Germany	Seewald, Maik	CISCO		X	
Germany	Tenhagen, Detlef	HARTING	X	X	X
Germany	Wendt, Mario	Microsoft	X	X	
Germany	Wischhöfer, Cord	DIN	X		
Korea	Lee, Jun Seob	ETRI and ITU-T JCA-IoT	X	X	X
Japan	Kawai, Kazuya	Panasonic	T	X	X
Korea	Bae, Changseok	ETRI	X	X	X
Korea	Kim, Hyoung Jun (Secretary)	ETRI	X	X	X
Korea	Kim, Marie	ETRI	X	X	X
Korea	Kim, Yong-Woon	ETRI	X	X	X
Korea	Park, Joo-Sang	ETRI		T	T
Korea	Yoo, Sangkeun (Convenor)	ETRI	X	X	X
SC31	Barthel, Henri	GS1 and ISO/IEC JTC 1/SC 31	X	X	T
SC31	Schuessler, Rick	Motorola Solutions	T	T	T
Singapore	Ho, Buaey Qui	IDA	T	T	
TC122	Harmon, Craig	QED Systems	T	T	T
UK	Foggie, Richard	Technology Strategy Board		X	
UK	Grant, Kate	Nine Tiles	X	X	X
UK	Heath, Andy	Axelrod	X	X	X
UK	Rix, Nigel	Knowledge Transfer Network	T	T	
UK	Rees, Richard	Scanology	T	T	T
USA	Adams, Chuck	Huawei	X	X	
USA	Evanhoe, Chuck	Evanhoe & Associates	X	X	X
USA	Halliday, Steve	High Tech Aid	X	X	X
USA	Moayeri, Nader	NIST and ISO/IEC JTC 1/WG 7	X	X	X

T: Teleconference

X: In person