ISO/IEC JTC 1

Information technology

Secretariat: ANSI

Document type:	Other document (Defined)
Title:	JTC001-N-10037 Report of the 1st ISO/IEC JTC 1/WG 7 meeting, 8-12 March 2010, London, UK
Status:	This document is circulated to JTC 1 National Bodies for information.
Date of document:	2010-03-19
Source:	WG 7 Convenor
Expected action:	INFO
No. of pages:	14
Email of secretary:	lrajchel@ansi.org
Committee URL:	http://isotc.iso.org/livelink/livelink/open/jtc1

ISO/IEC JTC 1 N 10037

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Action ID: **Due Date:**	
No. of Pages:	**14**

ISO/IEC JTC 1/WG 7
Working Group on Sensor Networks

Document Number:	N036
Date:	2010-03-16
Replace:	
Document Type:	Meeting Report
Document Title:	Report of the 1st ISO/IEC JTC 1/WG 7 meeting, 8-12 March 2010, London, UK
Document Source:	WG 7 Convenor
Document Status:	For your information.
Action ID:	FYI
Due Date:	
No. of Pages:	14

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Report of the 1st ISO/IEC JTC 1/WG 7Meeting
London, UK
8-12 March 2010

The 1st ISO/IEC JTC 1/WG 7 meeting was held at BSI, London, UK.

The meeting opened at 09:30 am, Monday 8th March 2010.

1. Opening Meeting

The WG 7 Convenor opened the meeting and appreciated BSI for their hosting and supporting.

2. Welcoming Remarks

As a representative of the meeting host, Ms. Jean Stride made welcoming remarks and informed participants of BSI facilities for the WG 7 meeting. All the participants expressed their appreciation to the meeting host.

3. Roll call of delegates

The WG 7 Secretary read out the list of NBs represented in alphabetical order followed by the list of liaison organizations. 31 participants from 8 NBs and 5 LOs attended the meeting. The attendants list is in Annex 1 to this report.

4. Adoption of agenda

The agenda in WGSN-N029 was adopted as presented.

5. Report of the JTC 1 Tel Aviv Plenary meeting

The WG 7 Convenor presented a report of the JTC 1 Tel Aviv Plenary meeting in WGSN N01.

6. Future plan of Technical Document

It was agreed that many sections of SGSN Technical Document in WGSN N007 could   be used for developing of future projects of WG 7.

7. Current Project on Sensor Networks

7.1 ISO/IEC WD 29182 Reference architecture for sensor network application and services

It was agreed that the project of ISO/IEC WD 29182 would be sub-divided   into multiple parts with a revised title and scope. The request for the project change is going to be submitted to JTC 1 for approval. The proposal of the project change is in WGSN-N023.

8. Possible projects on sensor networks

Terminology on sensor networks in WGSN N010 was presented. It was agreed that terminology should be one of the parts of ISO/IEC 29182. For its initial work, a template and an example were produced as in WGSN-N021 to seek contributions from WG 7 members on SN terminology. An ad hoc group to research terminology on Sensor Networks was established. It was agreed that Nan Guo would convene this ad hoc group.

Middleware issues in WGSN N019 (replacing N011) and WGSN N012 were also presented. Terms and definitions regarding Middleware will be first worked for ISO/IEC 29182. Following its first step, a NP for middleware may be proposed as described in WGSN-N033.

Result of voting on JTC 1 N9921 Proposed NP for Sensor Network and its Interface for Smart Grid System was reported. And JTC 1 N10016 Letter from the JTC 1 Chairman Regarding the SMB Decision Related to JTC 1 N9921 and IEC Smart Grid Work and N10017 Report of SG3, Smart Grid after the meeting held on 2009-11-19/20 in Denver, US were also delivered during

the WG 7 London meeting. The approved NP for Smart Grid cannot further proceed until the IEC SMB concerns are resolved. An ad hoc meeting convened by Howard Choe was held on Thursday to make a response to JTC 1 N10016 and N10017 on Smart Grid issues. This meeting result was contained in WGSN-N032 to be forwarded to the JTC 1 Chair.

9. Liaisons

9.1 Liaison organizations contributions

Liaison statements from JTC 1/SC 6, JTC 1/SC 27, JTC 1/SC 31, ITU-T SG 16 (WGSN N009, N016, N015 and N006) were presented. And responses to these LS were produced (WGSN-N024, N025, N026, and N028). It was specially mentioned that liaison representatives should attend the WG 7 meetings and present a report of liaison organization to WG 7.

Liaison contribution from IEC/TC 65 was presented by IEC/TC 65 Secretary. Heated discussion ensued among WG 7 members and representatives from IEC/TC 65 and consensus on some issues such as sensor networks vs. control networks could not be reached. Temporary liaison response to IEC/TC 65 was made as contained in WGSN-N027. An ad hoc group to prepare a liaison response to IEC TC 65 was established. The final response to IEC TC 100 will be produced at the 2nd WG 7 meeting in US. It was agreed that Nigel Rix would convene the Ad hoc group.

9.2 Liaison request from other organizations

A request from OGC to establish a Category C liaison with WG 7 in JTC 1 N10003 was presented by a representative from OGC. The request from OGC was supported by WG 7 members and a recommendation for agreement of establishment of liaison between WG 7 and OGC was made to forward it to JTC 1.

A liaison request from NIST SSHWG raised some concerns regarding the type of organization of SSHWG: international, regional or national. As the request arrived too late for consideration by WG 7 members prior to the WG 7 London meeting, it was concluded that this request will be discussed at the next WG 7 meeting in August, US. WG 7 members also requested SSHWG to submit a revised request including further explanation of its organizational type.

9.3 Outgoing liaison statements

It was agreed that three types of outgoing liaison statements should be sent to related organizations: 1) internal liaisons in JTC 1/SCs (e.g. SC 6, SC 24, SC 25, SC 27, SC 29, SC 31, SC 32, SC 35, SC 36, SC 37, and SC 38), 2) formal liaisons with JTC 1 (e.g. IEC/TC 100) and 3) other SDOs, Fora, Consortiums (e.g. ETSI M2M).

A model liaison statement (LS to IEC/TC 100) was produced as described in WGSN-N031. General liaison statement in WGSN-N035 to the above three types of organizations was drafted based on WGSN-N031 to be sent to proper recipients in WGSN-N034. Liaison statement to related JTC 1/SCs in WGSN-N037 was also produced.

9.4 Liaison representatives

JTC 1/WG 7 appointed the following individuals as Liaison Representatives to the groups listed below until the next meeting of JTC 1/WG 7:

Name	Representative to
Sangkeun Yoo	JTC 1/SC 6
Sangkeun Yoo	ITU-T SG 16

10. Proposed work plan

The following proposed action plan until the next WG 7 meeting was agreed by the members:

Dates	Action
Due date: 2010-05-20 (two months)	Nomination for Project Editors of ISO/IEC 29182 parts
Submission due date: 2010-06-23	Submission of contributions to ISO/IEC 29182 parts and others
Submission due date: 2010-05-23	Contributions by WG 7 members to SN Terminology (a part of ISO/IEC 29182)
2010-08-23 to 27	2nd WG 7 meeting, National Institute of Standards and Technology (NIST), Gaithersburg, MD, USA

11. Recommendations from the WG 7 London meeting

JTC 1/WG 7 London Recommendation 1 – Project Sub-division of ISO/IEC WD 29182

JTC 1/WG 7 recommends the sub-division of project ISO/IEC WD 29182 *Information technology — Sensor Networks — Reference architecture for sensor network applications and services* to produce a multi part standard as follows:

ISO/IEC 29182 Part 1 – General overview and requirements
ISO/IEC 29182 Part 2 – Vocabulary/Terminology
ISO/IEC 29182 Part 3 – Reference architecture views
ISO/IEC 29182 Part 4 – Entity models
ISO/IEC 29182 Part 5 – Interface definitions
ISO/IEC 29182 Part 6 – Application Profiles
ISO/IEC 29182 Part 7 – Interoperability guidelines

JTC 1/WG 7 also recommends the change of its title and scope as described in WGSN-N023.
JTC 1/WG 7 requests JTC 1 to issue a letter ballot for sub-division and change of title and scope of project ISO/IEC WD 29182 as above.

JTC 1/WG 7 London Recommendation 2 – Liaison with OGC

JTC 1/WG 7 notes that OGC (Open Geospatial Consortium) submitted its request to establish a Category C liaison with JTC 1/WG 7 to the JTC 1 Secretariat. Recognizing that OGC is an international industry consortium that has developed a framework of open web service standards for access to sensors and sensor information, JTC 1/WG 7 supports the request from OGC to establish a Category C liaison with JTC 1/WG 7.

JTC 1/WG 7 London Recommendation 3 – Appointment of Liaison Representatives

JTC 1/WG 7 appoints the following individuals as Liaison Representatives to the groups listed below until the next meeting of JTC 1/WG 7:

Name	Representative to
Sangkeun Yoo	JTC 1/SC 6
Sangkeun Yoo	ITU-T SG 16

JTC 1/WG 7 London Recommendation 4 – Ad hoc group on Terminology of Sensor Networks

JTC 1/WG 7 establishes an ad hoc group on Terminology of Sensor Networks with the following terms of reference as described in WGSN-N010

- To research terminology related to Sensor Networks
- To provide an overview of definitions of terms related to Sensor Networks used in other standards on the agreed template (The initial list of terms to be defined is given in WGSN-N021)

This ad hoc is led by Nan Guo.

JTC 1/WG 7 London Recommendation 5 – Ad hoc group on liaison response to IEC TC 65

JTC 1/WG 7 establishes an ad hoc group to prepare a liaison response to IEC TC 65 with the following terms of reference:

- To respond to the three requests from IEC TC 65 in WGSN-N022

This ad hoc group is led by Nigel Rix.

12. Future meeting

The following meeting schedule was agreed:

Date	Place	Note
23-27 August 2010	National Institute of Standards and Technology (NIST), Gaithersburg, MD, USA.	Confirmed.
February or March 2011	TBA	
August or September 2011	TBA	

WG 7 Convenor announced that France and Japan could possibly host the WG 7 meeting in 2011. And WG 7 NBs were kindly requested to consider hosting the future WG 7 meetings in 2011 and 2012.

13. Any other business

It was welcomed that the SENSEI Real World Internet Architecture was distributed to participants of the WG 7 London meeting for information. If Sensei Consortium gives permission, this document will be circulated to all the WG 7 members for information.

14. Close of meeting

The WG 7 Convenor closed the meeting and expressed his appreciation to all the participants and the meeting hosts:

JTC 1/WG 7 London Acclamation 1 - Appreciation to the meeting host

JTC 1/WG 7 expresses its appreciation to the meeting host, BSI for their many efforts in organizing and supporting this successful meeting.
JTC 1/WG 7 also expresses its appreciation to Ms. Jean Stride for her excellent preparation and support before and during the meeting.

• Acclaimed

JTC 1/WG 7 London Acclamation 2- Appreciation to the recommendation drafting committee member

JTC 1/WG 7 expresses its appreciation to the Drafting Committee for their efforts in producing the recommendations and expresses its special appreciation to Mr. Philip Brown as a drafting committee member.

• Acclaimed

JTC 1/WG 7 London Acclamation 3- Appreciation to the ad hoc group convenors

JTC 1/WG 7 expresses its appreciation to Nigel Rix, Convenor of Ad hoc group on liaison response to IEC TC 65 and Howard Choe, Covenor of one-off ad hoc group on response to JTC 1 N10016 and N10017 on Smart Grid issues.

• Acclaimed

The meeting adjourned at 13:00 pm, Friday, 12 March 2010.

ANNEX 1

Participants List for the 1ˢᵗ JTC 1/WG 7 meeting, 8-12 March 2010, London UK

No.	Given Name	Family Name	National Body / Liaison Organization
1	Yongjin	Kim	JTC 1/WG 7 Convenor
2	Jooran	Lee	JTC 1/WG 7 Secretary
3	Daning	Gong	China
4	Heqing	Huang	China
5	Jian	Yang	China
6	Jie	Shen	China
7	Nan	Guo	China (HoD)
8	Qiang	Pan	China
9	Quanping	Xu	China
10	Tao	Xing	China
11	Olivier	Dubuisson	France (HoD)
12	Alexander	Pflaum	Germany (HoD)
13	Jürgen	Hupp	Germany
14	Udo	Doebrich	IEC/SC65E
15	Bernard	Dumortier	IEC/TC 65
16	Graeme	Wood	IEC/TC 65
17	Yoshito	Sakurai	Japan (HoD)
18	Gwang-Hoon	Kwark	Korea
19	Sangkeun	YOO	Korea and JTC 1/SC 6
20	SEUNG MIN	LEE	Korea
21	Suk Keun	Cha	Korea (HoD)
22	George	Percivall	OGC
23	Gobe	Hobona	OGC
24	Josep	Paradells	Spain
25	Philip	Brown	UK
26	Kate	Grant	UK
27	Maryam	Roshanaei	UK
28	Nigel	Rix	UK (HoD)

29	Jack	Cogman	UK and JTC 1/SC 24
30	John	Ibbotson	UK
31	Howard	Choe	USA and JTC 1/SC 36 (HoD)

Input and Output JTC 1/WG 7 N-documents (N001-N037)

WG 7 Doc No.	Title	Source
WGSN-N001	Action Agenda for JTC 1/WG 7 on Sensor Networks	JTC 1/WG 7 Convenor
WGSN-N002	Draft agenda for the 1st ISO/IEC JTC 1/WG 7 meeting, 8-12 March 2010 in London, UK	JTC 1/WG 7 Convenor
WGSN-N003	Meeting announcement and logistical information for the 1st ISO/IEC JTC 1/WG 7 meeting, 8-12 March 2010 in London, UK	JTC 1/WG 7 Secretary
WGSN-N004	ISO/IEC WD 29182, Reference architecture for sensor network applications and services	JTC 1/WG 7 Secretary
WGSN-N005	Korean expert's contribution on ISO/IEC WD 29182, Reference architecture for sensor network applications and services	JTC 1/SC 6 Secretariat
WGSN-N006	Liaison Statement from ITU-T SG 16 to JTC 1/WG 7 on sensor network architecture	ITU-T SG16
WGSN-N007	Technical Document on Sensor Networks (Version 3)	Former JTC 1/SGSN
WGSN-N008	WD for ISO/IEC 29182 Information technology — Sensor Networks — Reference architecture for sensor network applications and services	Project Editor
WGSN-N009	Liaison statement from ISO/IEC JTC 1/SC 6 to JTC 1/WG 7 for collaboration on sensor networks	JTC 1/SC 6
WGSN-N010	Standardization of Terminology on Sensor Networks	National Body of China
WGSN-N011	View on the Guideline for Interoperability	National Body of China
WGSN-N012	Generic Interface between Sensor Networks Gateway and User Network	Korean expert
WGSN-N013	Revised draft agenda for the 1st ISO/IEC JTC 1/WG 7 meeting, 8-12 March 2010 in London, UK	JTC 1/WG 7 Convenor
WGSN-	Liaison letter from IEC/TC 65 to JTC 1/WG 7	IEC/TC 65

N014		
WGSN-N015	Liaison Statement from JTC 1/SC 31 to JTC 1/WG 7 on the establishment an internal liaison between JTC 1/SC 31 and JTC 1/WG 7	JTC 1/SC 31 Secretariat
WGSN-N016	Liaison Statement from JTC 1/SC 27 to JTC 1/WG 7 on the establishment an internal liaison between JTC 1/SC 27 and JTC 1/WG 7	JTC 1/SC 27 Secretariat
WGSN-N017	NB of US's contribution on the proposed changes to Program of Work, Title, and Scope of the JTC 1/WG7 SN's transferred project from SC 6 (ISO/IEC WD 29182)	NB of US
WGSN-N018	Call for project editors for ISO/IEC WD 29182 parts	WG 7 Secretariat
WGSN-N019	NB of China's contribution on the View on the Guideline for Interoperability	NB of China
WGSN-N020	UK expert's comments on JTC1 /WG7 N008, Reference architecture for Sensor Network applications and services	For your information.
WGSN-N021	Call for contribution on sensor networks terminology and template	WG 7 London meeting
WGSN-N022	Liaison Statement from IEC/TC 65 to JTC 1/WG 7	IEC/TC 65
WGSN-N023	Proposal for Project Change of ISO/IEC WD 29182 Reference architecture for sensor network applications and services	JTC 1/WG 7 London meeting
WGSN-N024	Liaison statement from JTC 1/WG 7 to JTC 1/SC 6/WG 7 for close collaboration	JTC 1/WG 7 London meeting
WGSN-N025	Liaison statement from JTC 1/WG 7 to JTC 1/SC 27	JTC 1/WG 7 London meeting
WGSN-N026	Liaison statement from JTC 1/WG 7 to JTC 1/SC 31	JTC 1/WG 7 London meeting
WGSN-N027	Liaison statement from JTC 1/WG 7 to IEC/TC 65	JTC 1/WG 7 London meeting
WGSN-N028	Liaison statement from JTC 1/WG 7 to ITU-T SG 16	JTC 1/WG 7 London meeting
WGSN-	Final agenda for the 1st ISO/IEC JTC 1/WG 7	JTC 1/WG 7 Convenor

N029	meeting, 8-12 March 2010 in London, UK	
WGSN-N030	Recommendations from the 1st JTC 1/WG 7 meeting in London, 8-12 March 2010	JTC 1/WG 7 London meeting
WGSN-N031	Liaison statement from JTC 1/WG 7 to IEC/TC 100	JTC 1/WG 7 London meeting
WGSN-N032	JTC 1/WG 7's response to JTC 1 Chair on Smart Grid (Regarding JTC 1 N10016 and N10017)	JTC 1/WG 7 London meeting
WGSN-N033	NB of China's contribution on the view on NP of Middleware for Sensor Networks	NB of China
WGSN-N034	List of SDOs, Consortia, and Fora on Sensor Networks for possible Liaison	JTC 1/WG 7 London meeting
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