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

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Report of the 2nd ISO/IEC JTC 1/WG 7Meeting
23-27 August 2010
NIST, Gaithersburg, MD, USA

The 2nd ISO/IEC JTC 1/WG 7 meeting was held at National Institute of Standards and Technology (NIST), Gaithersburg, MD, USA

The meeting opened at 09:30 am, Monday 23rd August 2010.

1. Opening Meeting

The WG 7 Convenor opened the meeting and appreciated NB of US and NIST for their hosting and Raytheon for sponsoring.

2. Welcoming Remarks

As a representative of the meeting host, Dr. Howard Harary, Director of the Manufacturing Engineering Laboratory of NIST made welcoming remarks. And as a representative of the sponsor Raytheon, Dr. Howard Choe made short remarks. All the participants expressed their appreciation to the meeting host and to the sponsor.

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. 22 participants from 7 NBs and 6 LOs attended the meeting. The attendants list is in Annex 1 to this report.

4. Adoption of agenda

The agenda in WGSN-N074 was adopted as presented.

5. Meeting objectives

The WG 7 Convenor showed what the 2nd meeting needs to obtain during the meeting week:

1. To progress current projects
   A. To produce CD/WD
   B. To confirm timeframe
2. To deal with liaison organizations
3. To make recommendations for the JTC 1 Plenary in Belfast

6. Current Project on Sensor Networks

6.1 ISO/IEC WD 29182 Parts – Sensor network reference architecture (SNRA)

From nominations for project editors received, WG 7 members agreed the following recommendation for JTC 1 endorsement:

ISO/IEC Designation #	Title	Main Project Editor	Co-Project Editors
ISO/IEC WD 29182 Part 1	General overview and requirements	Sangkeun Yoo	Jie Shen Alexander Pflaum Howard Choe Nader Moayeri
ISO/IEC WD 29182 Part 2	Vocabulary and Terminology	Nan Guo	Sangkeun Yoo Howard Choe
ISO/IEC WD 29182 Part 3	Reference architecture views	Howard Choe	Jie Shen Alexander Pflaum Sangkeun Yoo
ISO/IEC WD 29182 Part 4	Entity models	Nader Moayeri	Sangkeun Yoo Howard Choe
ISO/IEC WD 29182 Part 5	Interface definitions	Jie Shen	Sangkeun Yoo Howard Choe

ISO/IEC WD 29182 Part 6	Application Profiles	Alexander Pflaum	Jie Shen
			Howard Choe
			Nader Moayeri
			Seungmin Lee
ISO/IEC WD 29182 Part 7	Interoperability guidelines	Seungmin Lee	Jie Shen
			Howard Choe

Contributions for 1st Working Drafts of Part 1, Part 6 and Part 7 were presented and the 1st WDs were produced. It was agreed that these outputs as 1st WDs should circulated to JTC 1 NBs and WG 7 members for comment.

6.2 ISO/IEC NP 20005, Specification of Data Value Domain Services and Interfaces Supporting Collaborative Information Processing in Intelligent Sensor Networks

Proposed disposition of comments in WGSN N060 was presented and it was developed with discussion into final agreed disposition of comments. The 1st WD of ISO/IEC 20005 was also produced for circulation. Its project editors were recommended for JTC 1 endorsement as follows:

ISO/IEC Designation #	Title	Main Project Editor	Co-Project Editors
ISO/IEC WD 20005	Specification of Data Value Domain Services and Interfaces Supporting Collaborative Information Processing in Intelligent Sensor Networks	Liu Haitao	Howard Choe

6.3. ISO/IEC NP 30101, Sensor Network and its Interface for Smart Grid System

Proposed disposition of comments in WGSN N073 was presented. Agreed disposition of comments was produced with revised the scope of this NP. Its project editor was recommended for JTC 1 endorsement as follows:

ISO/IEC Designation #	Title	Main Project Editor	Co-Project Editors
ISO/IEC NP 30101	Sensor Network and its Interface for Smart Grid System	Howard Choe	

It was also requested that project editors and experts should submit contributions for the 1st WD by 31st October 2010.

7. Ad-hoc Group Activities

7.1 Ad-hoc group on Terminology

A report of ad hoc group on terminology in WGSN N070 was presented. To develop the WD of ISO/IEC 29812 Part 2 Vocabulary and Terminology, it was established ad hoc group on Terminology of Sensor Networks with the following terms of reference:

- To research terminology related to Sensor Networks
- To contribute terms for inclusion in the 1st WD with an overview of definitions of terms related to Sensor Networks used in other standards on the agreed template
- To help the editor prepare the 1st WD of ISO/IEC 29182 Part 2

The main project editor for ISO/IEC 29182 Part 2, Mr. Nan Guo, was appointed as a leader for the ad hoc group. WG 7 members were requested to make contributions on new definitions by using the template contained in WGSN N021 no later than 2010-10-31.

7.2 Ad hoc group on IEC TC 65

A report of ad hoc group on IEC TC 65 in WGSN N077 was presented. Its activities were appreciated. The response to IEC/TC 65 in WGSN N078 was agreed to forward it to IEC TC 65 with the agreed definition of Sensor Network. The ad hoc group was dissolved since it completed its mission.

8. Liaisons

8.1 Liaison organizations contributions

Liaison organizations contributions from JTC 1/SC 27, JTC 1/SC 29, JTC 1/SC 31, JTC 1/SC 37, ISO/TC 204, ITU-T SG 11 and ITU-T JCA NID were presented and appreciated at the meeting. Status reports on JTC 1/SC 6 and ITU-T SG 16 were delivered by the liaison representative.

8.2 Liaison request from other organizations

It was announced that the liaison request from OGC for Category C liaison was approved by JTC 1. The request from IEEE I & MS TC 9 to establish a Category C liaison was welcomed and recommended to JTC 1 for its approval.

8.3 Outgoing liaison statements

To response the liaison organizations contributions, outgoing liaison statements from WG 7 were produced as follows:

Doc No#	Liaison statements to
WGSN N79	LS to JTC 1/SC 6
WGSN N80	LS to JTC 1/SC 27
WGSN N81	LS to JTC 1/SC 29
WGSN N82	LS to JTC 1/SC 31
WGSN N83	LS to ISO/TC 204
WGSN N84	LS to ITU-T SG 11
WGSN N85	LS to ITU-T JCA NID
WGSN N94	LS to ITU-T SG 16
WGSN N95	LS to JTC 1/SC 37

8.4 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 subject to JTC 1 endorsement :

Name	Representative to
Sangkeun Yoo	JTC 1/SC 6
Kate Grant	JTC 1/SC 29
Nader Moayeri	JTC 1/SC 31
Phil Brown	JTC 1/SC 32
Michael Hogan	JTC 1/SC 37
Howard Choe	JTC 1 SWG on Smart Grid
Howard Choe	IEC SMB Strategic Group 3 on Smart Grid
Sangkeun Yoo	ITU-T SG 16
Sangkeun Yoo	ITU-T JCA NID

9. Proposed work plan

The following work plan was agreed for development of its projects until the next WG 7 meeting:

Projects	Work plan
ISO/IEC WD 29182 Part 1 General overview and requirements	By 2010-09-15 : Circulation of 1st WD for two month comment period By 2010-11-15 : Comments on circulated 1st WD to WG7 secretariat By 2011-01:15 : Submission of revised WD by project editor for 2nd WD or CD to be considered at the 3rd WG 7 meeting and proposed DoC By 2011-01-20 : Circulation of the revised WD for review by WG 7 members . comments received by 2011-02-20 will be on the final agenda At 3rd WG 7 meeting : Finalization of 2nd WD or CD
ISO/IEC WD 29182 Part 2 Vocabulary/Terminology	By 2010-10-31 : Submission of possible definitions to the project editor By 2010-11-30 : Submission of 1st WD by project editor By 2010-12-10 Circulation of 1st WD for two month comment period By 2011-02-10 : Comments on circulated 1st WD to WG7 secretariat By 2011-02-25 : Submission of revised WD by project editor for 2nd WD or CD

	At 3rd WG 7 meeting : Finalization of 2nd WD or CD
ISO/IEC WD 29182 Part 3 Reference architecture views	By 2010-10-31 : Submission of contributions for base document of 1st WD by project editors and members By 2011-01-10 : Submission of pre-WD by project editor to be considered at the 3rd WG 7 meeting By 2011-01-20: Circulation of the pre-WD for comments by WG 7 members (1 month) By 2011-02-20 : Comments on circulated pre-WD to WG7 secretariat At 3rd WG 7 meeting: Finalization of 1st WD
ISO/IEC WD 29182 Part 4 Entity models	By 2010-10-31 : Submission of contributions for base document of 1st WD by project editors and members By 2011-01-10 : Submission of pre-WD by project editor to be considered at the 3rd WG 7 meeting By 2011-01-20: Circulation of the pre-WD for comments by WG 7 members (1 month) By 2011-02-20 : Comments on circulated pre-WD to WG7 secretariat At 3rd WG 7 meeting: Finalization of 1st WD
ISO/IEC WD 29182 Part 5 Interface definitions	By 2010-10-31 : Submission of contributions for base document of 1st WD by project editors and members By 2011-01-10 : Submission of pre-WD by project editor to be considered at the 3rd WG 7 meeting By 2011-01-20: Circulation of the pre-WD for comments by WG 7 members (1 month) By 2011-02-20 : Comments on circulated pre-WD to WG7 secretariat At 3rd WG 7 meeting: Finalization of 1st WD
ISO/IEC WD 29182 Part 6 Application Profiles	By 2010-09-15 Circulation of 1st WD for two month comment period By 2010-11-15 : Comments on circulated 1st WD to WG7 secretariat By 2012-01:15 : Submission of revised WD by project editor for 2nd WD or CD to be considered at the 3rd WG 7 meeting and proposed DoC By 2011-01-20 Circulation of the revised WD for review by WG 7 members , comments received by 2011-02-20 will be on the final agenda At 3rd WG 7 meeting : Finalization of 2nd WD or CD
ISO/IEC WD 29182 Part 7 Interoperability guidelines	By 2010-09-15 : Circulation of 1st WD for two month comment period By 2010-11-15 : Comments on circulated 1st WD to WG7 secretariat

	By 2011-01:15 : Submission of revised WD by project editor for 2nd WD or CD to be considered at the 3rd WG 7 meeting and proposed DoC
	By 2011-01-20 : Circulation of the revised WD for review by WG 7 members , comments received by 2011-02-20 will be on the final agenda
	At 3rd WG 7 meeting : Finalization of 2nd WD or CD
ISO/IEC WD 20005 Specification of Data Value Domain Services and Interfaces Supporting Collaborative Information Processing in Intelligent Sensor Networks	By 2010-09-15 : Circulation of 1st WD for two month comment period By 2010-11-15 : Comments on circulated 1st WD to WG7 secretariat By 2011-01:15 : Submission of revised WD by project editor for 2nd WD or CD to be considered at the 3rd WG 7 meeting and proposed DoC By 2011-01-20 : Circulation of the revised WD for review by WG 7 members , comments received by 2011-02-20 will be on the final agenda At 3rd WG 7 meeting : Finalization of 2nd WD or CD
ISO/IEC NP 30101 Sensor Network and its Interface for Smart Grid System	By 2010-10-31 : Submission of contributions for base document of 1st WD by project editor and members By 2011-01-10 : Submission of pre-WD by project editor to be considered at the 3rd WG 7 meeting By 2011-01-20: Circulation of the pre-WD for comments by WG 7 members (1 month) By 2011-02-20 : Comments on circulated pre-WD to WG7 secretariat At 3rd WG 7 meeting: Finalization of 1st WD

And project editors were instructed to provide outputs on time according the agreed time frame.

10. Recommendations from the WG 7 Gaithersburg meeting

Recommendations in WGSN N096 were made to forward them to JTC 1.

11. Future meeting

The following meeting schedule was agreed:

Year	Date	Venue
2011	28 March – 1 April	Sophia Antipolis, France (joint with ETSI TC M2M)
2011	29 August – 2 September	Helsinki, Finland
2012	February	Hainan, China (Tentative)

12. Close of meeting

The WG 7 Convenor closed the meeting and expressed his appreciation to all the participants and the meeting hosts. The meeting adjourned at 12:00 pm, Friday, 27th August 2010.

ANNEX 1

Participants List for the 2nd JTC 1/WG 7 meeting,

23-27 August 2010, Gaithersburg, MD, USA

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	Jie	Shen	China
4	Tao	Xing	China
5	Juha	Vartiainen	Finland
6	CRAIG K.	HARMON	JTC 1/SC 31
7	Sangkeun	YOO	KOREA, JTC 1/SC 6, ITU-T SG 16
8	SEUNG	PARK	KOREA
9	SEUNG MIN	LEE	KOREA
10	Suk Keun	Cha	KOREA
11	Asbjorn	Hovsto	Norway
12	Geroge	Percivall	OGC
13	Mark	Reichardt	OGC
14	Luis	Bermudez Gallo	OGC
15	Kate	Grant	UK
16	Philip	Brown	UK
17	Kang	Lee	USA, IEEE
18	Howard	Choe	USA, JTC 1/SC 36
19	Michael	Hogan	USA
20	Nader	Moayeri	USA
21	Darold	Wobschall	USA, IEEE
22	Alexander	Pflaum	Germany

ANNEX 2

Input and Output JTC 1/WG 7 N-documents (N038-N098)

WG 7 Doc No.	Title	Source
WGSN N038	Summary of Voting on JTC 1N9940, Proposal for a New Work Item on Specification of Data Value Domain Services and Interfaces Supporting Collaborative Information Processing in Intelligent Sensor Networks (JTC 1 N10047)	JTC 1/WG 7
WGSN N039	Liaison Statement from JTC 1/SC 31 to JTC 1/WG 7	JTC 1/SC 31
WGSN N040	Liaison Statement from JTC 1/WG 7 to JTC 1/SC 31	JTC 1/WG 7 Convenor
WGSN N041	Draft agenda for the 2nd ISO/IEC JTC 1/WG 7 meeting, 23-27 August 2010, National Institute of Standards and Technology (NIST), Gaithersburg, MD, USA	JTC 1/WG 7 Convenor
WGSN N042	Meeting announcement and logistical information for the 2nd ISO/IEC JTC 1/WG 7 meeting, 23-27 August 2010 at NIST, Gaithersburg, Maryland, U.S.A.	JTC 1/WG 7 Secretary
WGSN N043	Liaison Statement from ITU-T SG11 to JTC 1/WG 7 for a liaison relationship on conformance, interoperability, and performance testing for sensor networks	ITU-T SG11
WGSN N044	NB of US's comments on WGSN N021, Call for contribution on sensor networks terminology and template	NB of US
WGSN N045	Expert's contribution on the template of sensor network terminology	Chinese expert
WGSN N046	Nomination of Project Editors for ISO/IEC 29182 All parts	WG 7 Secretariat
WGSN N047	Liaison Statement from JTC 1/SC 27/WG 5 to JTC 1/WG 7 on the ISO/IEC FCD 24745	JTC 1/SC 27/WG 5
WGSN N048	Liaison Statement from JTC 1/SC 27/WG 5 to JTC 1/WG 7 on the ISO/IEC 3rd CD 24760-1	JTC 1/SC 27/WG 5
WGSN N049	Liaison Statement from JTC 1/SC 27/WG 5 to JTC 1/WG 7 on the ISO/IEC 4th CD 29100	JTC 1/SC 27/WG 5

WGSN N050	Document Register WGSN N001 – N050	WG 7 Secretariat
WGSN N051	Liaison Statement from JTC 1/SC 27/WG 5 to JTC 1/WG 7 on the ISO/IEC 1st CD 29101	JTC 1/SC 27/WG 5
WGSN N052	Liaison Statement from JTC 1/SC 27/WG 5 to JTC 1/WG 7 on the ISO/IEC 1st CD 29115	JTC 1/SC 27/WG 5
WGSN N053	Liaison Statement from JTC 1/SC 27/WG 5 to JTC 1/WG 7 on the ISO/IEC 3rd WD 29191	JTC 1/SC 27/WG 5
WGSN N054	Liaison Statement from JTC 1/SC 27/WG 2 to JTC 1/WG 7 on the ISO/IEC 1st CD 29192-1	JTC 1/SC 27/WG 2
WGSN N055	Liaison Statement from JTC 1/SC 27/WG 2 to JTC 1/WG 7 on the ISO/IEC 1st CD 29192-2	JTC 1/SC 27/WG 2
WGSN N056	Liaison Statement from JTC 1/SC 27/WG 2 to JTC 1/WG 7 on the ISO/IEC 2nd WD 29192-4	JTC 1/SC 27/WG 2
WGSN N057	Liaison Statement from JTC 1/SC 27 to JTC 1/WG 7	JTC 1/SC 27
WGSN N058	NB of Germany's contribution on the proposal for project change of ISO/IEC WD 29182	NB of Germany
WGSN N059	Liaison Statement from JTC 1/SC 27/WG 2 to JTC 1/WG 7 on the ISO/IEC 2nd WD 29192-3	JTC 1/SC 27/WG 2
WGSN N060	Disposition of Comments on the JTC1 N 9940, Proposal for a New Work Item on Specification of Data Value Domain Services and Interfaces Supporting Collaborative Information Processing in Intelligent Sensor Networks	Project Editor
WGSN N061	Liaison Statement from JTC 1/SC 31 to JTC 1/WG 7 on the ISO/IEC/IEEE FCD 21451-7	JTC 1/SC 31
WGSN N062	Liaison Statement from IEEE I&MS TC-9 to JTC 1/WG 7 on the request for a Category C liaison between TC9 and WG7	IEEE I&MS TC-9
WGSN N063	Liaison Statement from SC 31/WG 6 to JTC 1/WG 7	SC 31/WG 6
WGSN N064	First Working Draft of ISO/IEC 20005, Information technology — Sensor Networks — Services and Interfaces Supporting Collaborative Information Processing in Intelligent Sensor Networks	Project Editor
WGSN	Liaison Statement from ISO/TC 204 to JTC 1/WG 7 on the	ISO/TC 204

N065	request to establish a liaison with JTC1/WG7	
WGSN N066	Working Draft of ISO/IEC WD 29182-1, Information technology — Sensor Networks: Sensor Network Reference Architecture (SNRA) — Part 1: General overview and requirements	Project Editor
WGSN N067	NB of UK contribution to ISO/IEC WD 29182	NB of UK
WGSN N068	Working draft of ISO/IEC 29182-6	Project Editor
WGSN N069	Working draft of ISO/IEC 29182-7	Project Editor
WGSN N070	Report of Ad hoc group on terminology	WG 7 Ad hoc group on Terminology
WGSN N071	Liaison statement from ITU-T JCA-NID to JTC 1/WG 7	ITU-T JCA-NID
WGSN N072	Summary of Voting on JTC 1 N9921 Proposal for a New Work Item on Sensor Network and its Interface for Smart Grid System	JTC 1 Secretariat
WGSN N073	Disposition of comments on ISO/IEC NP 30101 Sensor Network and its Interface for Smart Grid System (JTC 1 N9921)	Project Editor
WGSN N074	1st Revised draft agenda for the 2nd ISO/IEC JTC 1/WG 7 meeting, 23-27 August 2010, National Institute of Standards and Technology (NIST), Gaithersburg, MD, USA	JTC 1/WG 7 Convenor
WGSN N075	Liaison Statement from JTC 1/SC 29/WG 11 to JTC 1/WG 7 on the Sensor Networks	JTC 1/SC 29/WG 11
WGSN N076	Liaison Statement from JTC 1/SC 37 to JTC 1/WG 7 on the establishment of liaison	JTC 1/SC 37
WGSN N077	Report of Ad hoc group on IEC TC 65	Ad hoc group on IEC TC 65
WGSN N078	Liaison Statement from JTC 1/WG 7 to IEC/TC 65	2nd meeting of JTC 1/WG 7
WGSN N079	Liaison Statement from JTC 1/WG 7 to JTC 1/SC 6	2nd meeting of JTC 1/WG 7
WGSN	Liaison Statement from JTC 1/WG 7 to JTC 1/SC 27	2nd meeting of JTC

N080		1/WG 7
WGSN N081	Liaison Statement from JTC 1/WG 7 to JTC 1/SC 29	2nd meeting of JTC 1/WG 7
WGSN N082	Liaison Statement from JTC 1/WG 7 to JTC 1/SC 31	2nd meeting of JTC 1/WG 7
WGSN N083	Liaison Statement from JTC 1/WG 7 to ISO/TC 204	2nd meeting of JTC 1/WG 7
WGSN N084	Liaison Statement from JTC 1/WG 7 to ITU-T SG 11	2nd meeting of JTC 1/WG 7
WGSN N085	Liaison Statement from JTC 1/WG 7 to ITU-T JCA NID	2nd meeting of JTC 1/WG 7
WGSN N086	Disposition of Comments on ISO/IEC NP 20005 Services and Interfaces Supporting Collaborative Information Processing in Intelligent Sensor Networks	2nd meeting of JTC 1/WG 7
WGSN N087	1st Working Draft of ISO/IEC 20005, Information technology — Sensor Networks — Services and Interfaces Supporting Collaborative Information Processing in Intelligent Sensor Networks	Project Editor
WGSN N088	Disposition of Comments on ISO/IEC NP 30101, Sensor Network and its Interface for Smart Grid System	2nd meeting of JTC 1/WG 7
WGSN N089	1st Working Draft of ISO/IEC WD 29182-1, Information technology — Sensor Networks: Sensor Network Reference Architecture (SNRA) — Part 1: General overview and requirements	Project Editor
WGSN N090	1st Working Draft of ISO/IEC WD 29182-6, Information technology — Sensor Networks: Sensor Network Reference Architecture (SNRA) — Part 6: Application Profiles	Project Editor
WGSN N091	1st Working Draft of ISO/IEC WD 29182-7, Information technology — Sensor Networks: Sensor Network Reference Architecture (SNRA) — Part 7: Interoperability guidelines	Project Editor
WGSN N092	Liaison Statement from JTC 1/WG 7 to IEC TC 57	2nd meeting of JTC 1/WG 7
WGSN N093	Liaison Statement from JTC 1/WG 7 to IEC/TC 77	2nd meeting of JTC 1/WG 7

WGSN N094	Liaison Statement from JTC 1/WG 7 to ITU-T SG16	2nd meeting of JTC 1/WG 7
WGSN N095	Liaison Statement from JTC 1/WG 7 to JTC 1/SC 37	2nd meeting of JTC 1/WG 7
WGSN N096	Recommendations from the 2nd JTC 1/WG 7 meeting in USA, 23-27 August 2010	2nd meeting of JTC 1/WG 7
WGSN N097	Presentation of Smart Grid Interoperability Framework	Dr. George W. Arnold, National Coordinator for Smart Grid Interoperability, NIST
WGSN N098	Report of the 2nd ISO/IEC JTC 1/WG 7 meeting, 23-27 August 2010, Gaithersburg, MD, USA	WG 7 Convenor