



ISO/IEC JTC 1 N 9169
ISO/IEC JTC 1
Information Technology

2008-07-07

Document Type: Other Document(Defined)

Document Title: Report of the 1st ISO/IEC JTC 1 SGSN Meeting in Shanghai, China,
26-27 June 2008

Document Source: JTC 1 Study Group on Sensor Networks

Reference:

Document Status: This document is circulated to National Bodies for information

Action ID:

Due Date:

No. of Pages: 13

ISO/IEC JTC 1
Study Group on Sensor Networks

Document Number:	SGSN N031
Date:	2008-07-04
Replace:	
Document Type:	Meeting Report
Document Title:	Report of the 1 st ISO/IEC JTC 1 SGSN Meeting in Shanghai, China, 26-27 June 2008
Document Source:	SGSN Secretary
Document Status:	For your information.
Action ID:	FYI
Due Date:	
No. of Pages:	12

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SGSN Secretary: Ms. Jooran Lee, Korean Standards Association (Email: jooran@kisi.or.kr)

Report of the 1st ISO/IEC JTC 1 SGSN Meeting
Shanghai, China
26-27 June 2008

The 1st ISO/IEC JTC 1 Study Group on Sensor Networks meeting was held at Xijiao State Guest Hotel, Shanghai, China from 26th to 27th June, 2008.

The meeting opened at 09:30 am, Thursday 26th June.

1. Opening Meeting

The SGSN Convenor opened the meeting and appreciated the meeting host for their support.

2. Roll call of delegates

The SGSN Secretary made a roll call, at first National Bodies and then Liaison Organizations. 53 participants from 5 NBs and 4 LOs attended the meeting. The attendants list is in Annex 1 to this report.

3. Adoption of agenda

The agenda in SGSN N007 was adopted with a small revision for item 12.1 Cooperation with ITU-T SG 13.

4. Meeting objectives

The SGSN Convenor announced that the main objective of the 1st meeting was to produce a draft Technical Document answering the ToRs of JTC1 SGSN (i.e. to define the table of contents of the Technical Document and to develop the contents). He also noted that the Technical Document will be completed and SGSN recommendations to JTC 1 plenary on Sensor Networks standardization will be made at the 2nd SGSN meeting, which would be held in September.

The objectives of Technical Document are as follows:

- Identify and describe standardization issues for Sensor Networks in connection with different application areas (based on ToR 1, 2);
- Monitor activities in other SDO, consortia, and fora where specifications related to Sensor Networks are being developed (based on ToR 3); and
- Define JTC 1 SCs' roles for standardization issues for Sensor Networks and recommend how the work on Sensor Networks can be efficiently coordinated in/out of JTC 1

5. Review of Terms of Reference of SGSN

Terms of Reference of SGSN approved at the 22nd ISO/IEC JTC 1 Plenary meeting, in October 2007 (SGSN N001) were reviewed. The SGSN members agreed to the Terms of Reference as given by JTC1.

6. Review of contributions

The following contributions were presented by contributors:

- SGSN N008 Wireless Sensor Networks: Applications, Architectures and Protocols (NB of Germany)
- SGSN N009 On the Requirements of Mobile Wireless Sensor Network (NB of China)
- SGSN N010 Technical Requirements for Sensor Networks and Standardization Items (NB of Korea)
- SGSN N011 System Architecture and Standard Framework for Sensor Networks (NB of China)
- SGSN N012 Sensor Networks from Architecture Perspectives (JTC 1/SC 36)
- SGSN N013 Connecting IPv6 Sensor Network with Internet (NB of China)
- SGSN N014 Review of JTC 1/SC 6 Standardization Activities on Sensor Networks (JTC 1/SC 6)
- SGSN N015 A standardization initiative of ISO/IEC JTC 1/SC 6 on sensor networks (JTC 1/SC 6)

7. Ad hoc group summary and discussion

Ad hoc group leaders summarized its activities as follows:

- Ad hoc group 1 (by Dr. Tao Xing): Ad hoc group 1 activity was for ToR 1 and based on contributions (SGSN N008, N009 and N010). His summary is contained in SGSN N032.
- Ad hoc group 2 (by Dr. Howard Choe): Ad hoc group 2 activity was for ToR 2 and based on contributions (SGSN N008, N011, N012 and N013). His Summary is contained in SGSN N033.
- Ad hoc group 3 (by Prof. Ho-in Jeon): Ad hoc group 3 activity was for ToR 3 and based on contributions (SGSN N014, N015, N016 and N017). His summary is contained in SGSN N034.

After summary and discussion, the SGSN members agreed to the draft table of contents for Technical Document and appointed main contributors for each section of Technical Document as follows (Even though main contributors were designated, all the SGSN members are requested to submit contributions to all sections of Technical Document) :

Section	Contents	Main Contributors
1	Purpose of this Document	
2	Description of Sensor Networks	
2.1	Vision of Sensor Networks	Kang Lee, Howard Choe, Shen Jie and Yong-Woon Kim
2.2	Definition of Sensor, Sensor node, and actuator	Kang Lee and Gao Lin
2.2.1	Definition of Sensor	
2.2.2	Definition of actuator	
2.2.3	Definition of Sensor node	
2.3	Definition of Sensor Networks	Wu Dongya and Howard Choe
2.4	Definition of Sensor network applications	Yong-Woon Kim
2.5	Definition of Sensor network services	Yong-Woon Kim
3	Scope of standardization on Sensor networks in JTC	Tao Xing and Howard Choe

	1	
4	Application Areas of Sensor Networks	Alexander Pflaum and Tao Xing
4.1	Application area	
4.2	Sensor Networks Applications	Alexander Pflaum
4.2.1	Theft Prevention Systems for Expensive Goods in Distribution	
5	Characteristics and requirements of Sensor Networks	
5.1.	Characteristics of Sensor Networks	Alexander Pflaum, Guo Nan, and Nigel Rix
5.2	Generic Requirements of Sensor Networks	Tao Xing and Ho-In Jeon
5.3	Generic services for Sensor networks	Alexander Pflaum
6	Architectures of Sensor Networks	
6.1	System Architecture Development Procedure	
6.2	Reference Architectures Model	Howard Choe, Yong-woon, Shen Jie, and Wu Dongya
6.3	Typical interfaces and relevant data types	Howard Choe, Yong-woon, Shen Jie, and Wu Dongya
7	Proposed Standardization Areas for ISO/IEC JTC 1	Yong-woon Kim, Howard Choe, Shen Jie, and Wu Dongya
7.1	Fundamental Standardization Area	
7.2	Application Profiles	
8	Coordination proposals to JTC 1	
8.1	Allocation of Potential Area to relevant SCs in JTC 1	
8.2	Cooperation Potential Area with other SDOs, Fora and Consortia	

8. Report of workshop

The SGSN Convenor reported the SGSN Workshop which was held on Wednesday 25 June at the same venue. Approximately 120 people attended to hear 11 presentations by SGSN members. The Workshop was to gather requirements on sensor networks standardization issues and promote sensor networks.

The presentations for the SGSN Workshop are contained in SGSN N018 to N028.

9. Proposed work plan

The following work plan for SGSN before the 2008 JTC 1 Plenary meeting was agreed.

Dates	Action
1 July – 10 August 2008	Contribution to the Technical Document by SGSN members
15-19 September 2008	2 nd SGSN meeting
10 October 2008	Contribution for the November 2008 JTC 1 Plenary Meeting

10. Recommendations to JTC 1

SGSN members agreed that SGSN recommendations to JTC 1 Plenary will be made at the 2nd SGSN meeting after completion of Technical Document.

11. Future meetings

Alexander Pflaum offered a host of the 2nd meeting at Fraunhofer Centre in Nuremberg, Germany. It was thankfully accepted by all SGSN members.

12. Any other business

ITU-T SG 13 Next Generation Networks offered to have a joint meeting or to invite a SGSN representative to its meeting in September in Geneva to discuss on USN. Because of duplication of meeting schedule between ITU-T SG 13 and 2nd SGSN meeting, a joint meeting is not possible. Instead, SGSN appointed Yong-woon Kim as an SGSN liaison to ITU-T SG 13 September meeting.

13. Resolutions from the 1st SGSN Shanghai meeting

The following resolutions were approved.

JTC 1 SGSN Shanghai Resolution 1

SGSN requests SGSN members to submit contribution to the draft Technical Document to finalize it no later than 10th August 2008 in consideration of ToR of SGSN, which is contained in SGSN N001. Finalization of the Technical Document is expected to be done at the 2nd SGSN meeting.

- Approved

JTC 1 SGSN Shanghai Resolution 2

SGSN appoints Dr. Howard Choe as an editor and Nigel Rix as a co-editor for the Technical Document.

- Approved

JTC 1 SGSN Shanghai Resolution 3

SGSN approves its work plan before the 2008 JTC 1 Plenary meeting as follows:

Dates	Action	Note
1 July – 10 August 2008	Contribution to the Technical Document by SGSN members	NBs and Liaison Organizations contributions based on e-mail discussion
15-19 September 2008	2 nd SGSN meeting, at Fraunhofer Center for Applied Research on Technologies of the Logistics Services Industry in Nuremberg, Germany	To finalize the Technical Document and to make its recommendations to JTC 1.
10 October 2008	Contribution for the November 2008 JTC 1 Plenary Meeting	Submission of the SGSN report to the JTC 1

		Secretariat
10-15 November 2008	JTC 1 Plenary Meeting in Nara, Japan	SGSN reporting by the Convenor to JTC 1

- Approved

<Acclamation>

JTC 1 SGSN Appreciation to the Meeting Hosts

SGSN expresses its appreciation to the meeting organizer, Standardization Administration of China and the meeting co-organizer, Shanghai Institute of Microsystem and Information Technology for the many efforts to this successful meeting.

Dai Hong	SAC
Feng Songlin	SIMIT
Nie Chunni	Science and Technology Commission of Shanghai Municipality
Nin Ling	CESI

SGSN especially appreciates to Dr. Tao Xing and Ms. Cincy Cui for their brilliant preparation and support before and during the meeting.

- Acclaimed

14. Close of meeting

The SGSN Convenor closed the meeting and appreciation all the participants.

The meeting adjourned at 17:30 pm, Friday 27th June.

ANNEX 1

Participants List for the 1st JTC 1 SGSN Meeting, Shanghai, China, 26-27 June 2008

First Name	Last Name	National Body
Yongjin	Kim	SGSN Convenor
Jooran	Lee	SGSN Secretary
Yanjun	HU	China
Deyun	GAO	China
TAO	ZHENG	China
Runsheng	WANG	China
Cong	WANG	China
Dongya	WU	China
Hui	ZHANG	China
Lin	GAO	China (HoD)
Nan	GUO	China
Ning	LIN	China
Bokun	LIU	China
Liaojun	PANG	China
Ping	LI	China
Xin	MENG	China
Hao	WANG	China
Cao	LIU	China
YUCAN	LIU	China
Shaohua	LONG	China
Zhuang	ZHAO	China
Wenquan	Wu	China
Pei	LIU	China
Xiangdong	ZHANG	China
Ming	BAO	China

Li	CUI	China
Yongjun	XU	China
Haitao	LIU	China
Jie	SHEN	China
Yi	QIN	China
Pingping	XU	China
Xiaodong	ZHANG	China
Zhi	WANG	China
Quan Ping	Xu	China
Zhongcheng	Wu	China
Tao	Xing	China
Meng	Zhou	China
Alexander	Pflaum	Germany (DIN) (HoD)
Heinz	Walker	Germany (DKE)
Detlev	Knauer	Germany (DKE)
Kang	Lee	IEEE
Koichi	Emura	Japan
Yoshito	Sakurai	Japan (HoD)
Howard C.	Choe	JTC 1/SC 36 (proxy)
Yong Woon	Kim	JTC 1/SC 6
Dae Young	KIM	JTC1/SC 6 Chair
Ho-In	Jeon	Korea (HoD)
Jaeho	Lee	Korea
Jong Han	Yang	Korea
Seung Ho	Hong	Korea
Sengok	Lim	Korea
Nigel	Rix	UK (HoD)
Kefeng	Fan	IEC TC 100 (Proxy)

ANNEX 2

Input and Output SGSN N-documents

SGSN Doc No.	Title	Source
N001	Convenor's letter to the members of the SGSN	SGSN Convenor
N002	Meeting announcement and Registration form for 1st Meeting of JTC 1 Study Group on Sensor Networks, Shanghai, China, 25-27 June 2008	SGSN Secretary
N003	Draft agenda for 1 st Meeting of JTC 1 Study Group on Sensor Networks, Shanghai, China, 25-27 June 2008	SGSN Convenor
N004	Call for Contributions to the First Meeting of JTC 1 Study Group on Sensor Networks	SGSN Convenor
N005	Logistical information for the 1st JTC 1/SGSN meeting, 25-27 June 2008, Shanghai, China	National Body of China
N006	Workshop Programme and Confirmed Timetable for the 1 st Meeting of JTC 1 Study Group on Sensor Networks, Shanghai, China, 25-27 June 2008	SGSN Secretary
N007	Revised draft agenda for the 1 st Meeting of ISO/IEC JTC 1 Study Group on Sensor Networks, Shanghai, China, 26-27 June 2008	SGSN Convenor
N008	Wireless Sensor Networks: Applications, Architectures and Protocols	National Body of Germany
N009	On the Requirements of Mobile Wireless Sensor Network	National Body of China
N010	Technical Requirements for Sensor Networks and Standardization Items	National Body of Korea
N011	System Architecture and Standard Framework for Sensor Networks	National Body of China
N012	Sensor Networks from Architecture Perspectives	JTC 1/SC 36
N013	Connecting IPv6 Sensor Network with Internet	National Body of China
N014	Review of JTC 1/SC 6 Standardization Activities on Sensor Networks	JTC 1/SC 6
N015	A standardization initiative of ISO/IEC JTC 1/SC 6	JTC 1/SC 6

	on sensor networks	
N016	ISO/IEC JTC 1/SC 31/WG 6	JTC 1/ SC 31
N017	Standard Developing Activities of ISO/TC 204	National body of Norway
N018	Perspective on sensor networks in Germany	National Body of Germany
N019	Perspective on sensor networks in China	National Body of China
N020	Perspective on IP-Based Sensor Network in Korea	National Body of Korea
N021	Vision on mobile wireless sensor networks	National Body of China
N022	Standardization Issues for Sensor Networks	National Body of Korea
N023	Applications and Requirements of convergence of WSN and cellular network	National Body of China
N024	Sensor Networks from Systems Architecture Perspective	(Proxy) JTC 1/SC 36
N025	Discussion about Networked Sensor Interface	National Body of China
N026	Security principle and solution for WSN	National Body of China
N027	Standardization activities on Standardization activities on sensor networks of sensor networks of JTC 1/SC 6 and other SDOs	JTC 1/SC 6
N028	IEEE 1451 Smart Sensor Networks and Standards	IEEE 1451
N029	ISO/IEC JTC 1/SC 31/WG 6	JTC 1/SC 31
N030	Resolutions of the 1 st ISO/IEC JTC 1 SGSN Meeting in Shanghai, China, 26-27 June 2008	1 st JTC 1 SGSN Meeting in Shanghai
N031	Report of the 1st ISO/IEC JTC 1 SGSN Meeting in Shanghai, China, 26-27 June 2008	SGSN Secretary
N032	Report of SGSN Ad hoc group 1	SGSN Ad hoc group 1 leader
N033	Report of SGSN Ad hoc group 2	SGSN Ad hoc group 3 leader
N034	Report of SGSN Ad hoc group 3	SGSN Ad hoc group 3 leader
N035	Final agenda for the 1 st Meeting of ISO/IEC JTC 1 Study Group on Sensor Networks, Shanghai, China, 26-27 June 2008	SGSN Secretary