

**ISO/IEC JTC 1
Information Technology**

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**Report of the 4th ISO/IEC JTC 1 SGSN Meeting
Oslo, Norway
29 June – 3 July 2009**

The 4th ISO/IEC JTC 1 Study Group on Sensor Networks meeting was held at ITS Norway, in Oslo, Norway.

The meeting opened at 09:30 am, Monday 29 June 2009.

1. Opening Meeting

The SGSN Convenor opened the meeting and appreciated Standards Norway and ITS Norway for their hosting and supporting.

2. Welcoming Remarks

As a representative of the meeting host, Mr. Knut Lindelien, Standards Norway made a short welcoming address. All the participants expressed their appreciation to the meeting host and the meeting sponsor.

3. Roll call of delegates

The SGSN Secretary read out the list of NBs represented in alphabetical order followed by the list of liaison organizations. 24 participants from 6 NBs and 5 LOs attended the meeting. The attendants list is in Annex 1 to this report.

4. Adoption of agenda

The agenda in SGSN N137 was adopted as presented.

5. Meeting objectives

The SGSN Convenor announced the following objectives of the meeting:

- To follow up of JTC 1 Nara Resolution 31 on Middleware and Privacy.
- To make a report and recommendation for the 2009 JTC 1 Plenary meeting.
- To refine the TD based on contribution received.

6. Report of the 3rd SGSN meeting

The SGSN Convenor reported the 3rd SGSN meeting as described in SGSN N069. And a short report on the SGSN Seoul Workshop presented by the SGSN Secretary.

7. Middleware and Privacy

The contributions on Privacy were reviewed and it was agreed that Privacy issues in SGSN N067 should be further developed based on contributions. A revised document was produced during the meeting to forward it to JTC 1 for consideration.

The experts' contributions on middleware were also reviewed. Participants did not reach a consensus on Middleware issues during the meeting. An ad hoc group on Middleware issues was established for further study. And the ad hoc group was requested to finalize it and send a document to the SGSN Secretary by the end of July.

8. JTC 1/SCs allocation

A table "Mapping of Standardization areas to SCs" to be inserted in the revised Technical Document was a hot issue for discussion during the meeting. Liaison statements from JTC 1 SCs were reviewed. Heated discussion ensued about allocation of standardization areas to SC 25.

Some suggestions such as Application Profiles and Data Type/Date Formats proposed by SC 25 were accepted, but others were not agreed among participants. Disagreed areas were listed in bracket on the table. SC 32 was also added to Requirements Analysis and Application

Profiles in the table. The revised table will be inserted in the TD version 3.

9. Collaboration with other TC/SCs and SDOs

Liaison contributions from other TC/SCs and SDOs were reviewed. ISO/TC 204, ISO/TC 211 and other SDOs were added to the table 8-4 Standardization areas to potential SDOs, Consortia, and Fora of the TD. The revised table will be inserted in the TD version 3.

10. SGSN long term role

Contributions on SGSN long term role were presented by participants: NB of Korea (SGSN N116), Chinese expert (SGSN N117), NB of US (SGSN N113), NB of UK (SGSN 124) and US expert (SGSN N130). All participants expressed their wish to transform SGSN into a permanent entity under JTC 1. Two options of transformation were discussed based on the contributions: Option A – Working Group to produce International Standards with proposal of work items and Option B – Special Working Group to develop a Technical Report as general guidance for sensor network. NB of UK, NB of US, Chinese expert, German expert and Norwegian expert supported Option A. NB of Korea supported Option B.

A recommendation was produced based on the discussion as described in SGSN Oslo resolution 6.

11. Drafting of Technical Document

Based on contributions received, the TD was updated. Drafting of the TD seemed to take more time. Therefore it was agreed that finalization of the TD version 3 should be done by 7th August. Once version 3 of the TD is submitted to the SGSN Secretary, it will be forwarded to JTC 1 for consideration at the 2009 JTC 1 Plenary meeting.

Replying to contributions as inputs to the TD, outgoing liaison statements to JTC 1/SC 25, JTC 1/SC 32 and ISO/TC 211 and IEC/TC 65 were produced during the meeting.

12. Proposed action plan

The following proposed action plan was agreed by the members:

Dates	Action	Note
31 July 2009	Finalization of Middleware issues	Submission of Middleware issues to SGSN Secretary
7 August 2009	Finalization of TD Version 3	Submission of TD Version 3 by the Editor to SGSN Secretary
11 September 2009	Contribution for the October 2009 JTC 1 Plenary Meeting	Submission of the SGSN report to the JTC 1 Secretariat
18-22 October 2009	JTC 1 Plenary Meeting in Tel Aviv, Israel	SGSN reporting by the Convenor to JTC 1
8-12 March 2010	SGSN Meeting in London, UK (Subject to 2009 JTC 1 Plenary Resolution)	Hosted by NB of UK (BSI)
23-27 August 2010	SGSN Meeting in US (Subject to 2009 JTC 1 Plenary Resolution) (Tentative)	Hosted by NB of US (ANSI)

13. Resolutions from the Oslo meeting

The following resolutions were approved:

JTC 1/SGSN Oslo Resolution 1 - Liaison Contributions

SGSN instructs its Secretary to send the following liaison contributions:

Doc. #	Title	Liaison to	Note
SGSN N145	Liaison Statement to ISO/TC 211 on SGSN Technical Document	ISO/TC 211	Regarding SGSN N106
SGSN N146	Liaison Statement to JTC 1/SC 25 on SGSN Technical Document	JTC 1/SC 25	Regarding SGSN N109

SGSN N147	Liaison Statement to IEC/TC 65 on SGSN Technical Document	IEC/TC 65	Regarding SGSN N113
SGSN N148	Liaison Statement to JTC 1/SC 32 on SGSN Technical Document	JTC 1/SC 32	Regarding SGSN N127

- Approved

JTC 1/SGSN Oslo Resolution 2 – Privacy

SGSN approves Privacy issues replying to JTC 1 Nara Resolution 31 in SGSN N135. And SGSN instructs its Secretary to forward it to JTC 1 Secretariat for consideration at the 2009 JTC 1 Plenary meeting in Tel Aviv.

- Approved

JTC 1/SGSN Oslo Resolution 3 – Middleware

SGSN notes that Middleware issues replying to JTC 1 Nara Resolution 31 in SGSN N136 need to be further studied. Therefore, SGSN requests Ad-hoc group on Middleware to finalize Middleware issues and submit it to its Secretary by 31st July 2009 to forward it to JTC 1 Secretariat for consideration at the 2009 JTC 1 Plenary meeting in Tel Aviv.

- Approved

JTC 1/SGSN Oslo Resolution 4 – Circulation of Documents

SGSN instructs its Secretary to circulate the following documents to SGSN members for information.

Doc. #	Title
SGSN N138	Report of Ad hoc group 1 activities
SGSN N139	Report of Ad hoc group 2 activities
SGSN N140	Report of Ad hoc group 3 activities

SGSN N141	Report of the Oslo Workshop co-hosted by P-health 2009 and SGSN
SGSN N142	M2M Sensor Networks
SGSN N144	Report of the SGSN Oslo meeting

- Approved

JTC 1/SGSN Oslo Resolution 5 – Action Agenda

SGSN approves the following action agenda for the SGSN.

Dates	Action	Note
31 July 2009	Finalization of Middleware issues	Submission of Middleware issues to SGSN Secretary
7 August 2009	Finalization of TD Version 3	Submission of TD Version 3 by the Editor to SGSN Secretary
11 September 2009	Contribution for the October 2009 JTC 1 Plenary Meeting	Submission of the SGSN report to the JTC 1 Secretariat
18-22 October 2009	JTC 1 Plenary Meeting in Tel Aviv, Israel	SGSN reporting by the Convenor to JTC 1
8-12 March 2010	SGSN Meeting in London, UK (Subject to 2009 JTC 1 Plenary Resolution)	Hosted by NB of UK (BSI)
23-27 August 2010	SGSN Meeting in US (Subject to 2009 JTC 1 Plenary Resolution) (Tentative)	Hosted by NB of US (ANSI)

- Approved

JTC 1/SGSN Oslo Resolution 6 – SGSN Long Term Role

SGSN recommends to JTC 1, subject to approval of appropriate work items, a working group

directly under JTC 1. One or more proposals for new work item(s) will be submitted to JTC 1 for consideration at the JTC 1 Plenary meeting to establish the working group.

- Approved

<Acclamation>

JTC 1/SGSN Appreciation to the Meeting Host

JTC 1 SGSN expresses its gratitude to Standards Norway for their warm hospitality of this 4th JTC 1 SGSN meeting in Oslo.

Knut Lindelien	Standards Norway
Bjørnhild Sæterøy	Standards Norway

- Acclaimed

JTC 1/SGSN Appreciation to the Meeting Sponsor

JTC 1 SGSN expresses its appreciation to ITS Norway for their sponsorship of this 4th JTC 1 SGSN meeting in Oslo.

Trond Hovland	ITS Norway
Helge Jensen	ITS Norway
Asbjørn Hovstø	ITS Norway

- Acclaimed

14. Recommendations to the 2009 JTC 1 Plenary

It was agreed that a recommendation in SGSN Oslo resolution 6 is forwarded to JTC 1 Secretariat for consideration at the 2009 JTC 1 Plenary.

15. Future meetings

The 5th SGSN meeting will be from 8 – 12 March, 2010 in BSI, London, UK. And the 6th SGSN meeting was tentatively scheduled from 23 – 27 August 2010 in US. The SGSN Convenor expressed his appreciation to NB of UK and US for their hosting of SGSN meetings in 2010.

16. Any other business

It was announced for information that the SGSN Convenor was appointed as one of JTC 1 representatives to ITU-T Focus Group on Climate Change along with JTC 1/SC 6 Chairman.

17. Close of meeting

The SGSN Convenor closed the meeting and expressed his appreciation to all the participants and the meeting hosts.

The meeting adjourned at 2:30 pm, Friday 3rd July 2009.

ANNEX 1

Participants List for the 4th JTC 1 SGSN Meeting, 29 June – 3 July 2009, Oslo, Norway

No.	Given Name	Family Name	National Body / Liaison Organization
1	Yongjin	Kim	JTC 1 SGSN Convenor
2	Jooran	Lee	JTC 1 SGSN Secretary
3	TAO	XING	China
4	JIE	SHEN	China
5	QIANG	PAN	China
6	Guoliang	Yao	China
7	Jiayue	Chang	China
8	Nan	Guo	China
9	Huaqing	Ma	China
10	PINGPING	XU	China
11	Qing	Xiao	China
12	Jürgen	Hupp	Germany
13	Alexander	Pflaum	Germany
14	Huynkook	Kahng	Korea
15	Asbjorn	Hostvo	Norway
16	Knut	Lindelien	Norway
17	Vasco	Pereira	Expert from Portugal
18	Jorge	Sa Silva	Expert from Portugal
19	Nigel	Rix	UK
20	Philip	Brown	UK and JTC 1/SC 32
21	Howard	Choe	USA and JTC 1/SC 36
22	Sangkeun	Yoo	JTC 1/SC 6
23	Ingo	Simonis	Open Geospatial Consortium
24	Walter	von Pattay	JTC 1/SC 25

ANNEX 2

Input and Output SGSN N-documents (N071-N149)

SGSN Doc No.	Title	Source
N071	Logistical Information and Draft Programme for the ISO/IEC JTC 1 SGSN Workshop, 15-17 April 2009, Seoul Korea	SGSN Secretary
N072	1 st Draft agenda for the 4 th Meeting of ISO/IEC JTC 1 Study Group on Sensor Networks, Oslo, Norway, 29 June – 3 July 2009	SGSN Convenor
N073	Meeting Announcement and Logistical information of the 4 th Meeting of ISO/IEC JTC 1 Study Group on Sensor Networks, 29 June – 3 July 2009 in Oslo, Norway	SGSN Secretary
N074	Final programme for the ISO/IEC JTC 1 SGSN Workshop, 15-17 April 2009 in Seoul, Korea	SGSN Secretary
N075	Overview of Application-oriented Technique for Sensor Networks	SGSN Seoul Workshop
N076	SGSN Workshop Tutorial on Sensor Networks	SGSN Seoul Workshop
N077	Global Sensor Identification and Interface	SGSN Seoul Workshop
N078	Protocols for Sensor Networks	SGSN Seoul Workshop
N079	MANET USN's	SGSN Seoul Workshop
N080	Collaborative Information Processing on Vehicle Classification in Sensor Networks	SGSN Seoul Workshop
N081	Middleware for Sensor Networks	SGSN Seoul Workshop
N082	Chinese Strategies and Market for Sensor Networks	SGSN Seoul Workshop
N083	Sensor Networks for u-City 2	SGSN Seoul Workshop
N084	The German view on the Market for Sensor Networks	SGSN Seoul Workshop
N085	Public Service Applications of Sensor Network in China	SGSN Seoul Workshop
N086	RFID/USN in Port Logistics	SGSN Seoul Workshop
N087	Introduction of JTC 1	SGSN Seoul Workshop

N088	SGSN Activities in JTC 1	SGSN Seoul Workshop
N089	Standardization Issues in Sensor Networks	SGSN Seoul Workshop
N090	SC 6 Activities for Sensor Networks	SGSN Seoul Workshop
N091	SC 27 Activities for Sensor Networks	SGSN Seoul Workshop
N092	SC 29 Activities for Sensor Networks	SGSN Seoul Workshop
N093	ITU-T Activity : Sensor Networks – a key element in the positive effect of ICT on Climate	SGSN Seoul Workshop
N094	Standardization Activities in IEEE on Networks Sensor	SGSN Seoul Workshop
N095	Overview and Development Experience of ISA100 (Wireless Systems for Automation)	SGSN Seoul Workshop
N096	OGC and Sensor Web Enablement (SWE) Standards	SGSN Seoul Workshop
N097	New standardization activity in Europe : ETSI TC on M2M communications based on multi connectivity with sensor networks	SGSN Seoul Workshop
N098	RFID/USN Testbed & Test Tech	SGSN Seoul Workshop
N099	Smart space system for life-care	SGSN Seoul Workshop
N100	Document Register, N051-N100	SGSN Secretary
N101	Business Models Based on Sensor Networking Technologies	SGSN Seoul Workshop
N102	Surveillance and Reconnaissance Sensor Networks	SGSN Seoul Workshop
N103	Status and Future Plan for IP-USN	SGSN Seoul Workshop
N104	USN Architecture and Platform	SGSN Seoul Workshop
N105	Strategies and Markets for sensor networks	SGSN Seoul Workshop
N106	Liaison Statement from ISO/TC 211 to JTC 1 SGSN on SGSN Technical Document Version 2 in SGSN N070	ISO/TC 211
N107	Liaison Statement from JTC 1/SC 36 to JTC 1 SGSN on Privacy replying to JTC1 Nara Resolution 31 in SGSN N067	JTC 1/SC 36
N108	Liaison Statement from ISO/TC 204 to JTC 1 SGSN on SGSN Technical Document Version 2 in SGSN N070	ISO/TC 204

N109	Liaison Statement from JTC 1/SC 25 to JTC 1 SGSN on SGSN Technical Document Version 2 in SGSN N070	JTC 1/SC 25
N110	Liaison Statement from JTC 1/SC 6 to JTC 1 SGSN on SGSN Technical Document Version 2 in SGSN N070	JTC 1/SC 6
N111	Liaison Statement from W3C to JTC 1 SGSN on SGSN Technical Document Version 2 in SGSN N070	W3C
N112	Liaison Statement from JTC 1/SC 29 to JTC 1 SGSN on Sensor Networks Issues Explored on Privacy	JTC 1/SC 29
N113	Liaison Statement from IEC/TC 65 to JTC 1 SGSN on SGSN Technical Document Version 2 in SGSN N070	IEC/TC 65
N114	Liaison Statement from JTC 1/SC 37 to JTC 1 SGSN on SGSN Technical Document Version 2 in SGSN N070	JTC 1/SC 37
N115	Liaison Statement from IEC TC 100 to JTC 1 SGSN on SGSN Technical Document Version 2 in SGSN N070	IEC TC 100
N116	National Body of Korea's contribution to JTC 1 SGSN on JTC 1/SGSN Sydney Resolution 5" Request for Contributions on SGSN long term role"	NB of Korea
N117	Chinese expert's contribution to JTC 1 SGSN on JTC 1/SGSN Sydney Resolution 5" Request for Contributions on SGSN long term role"	Chinese expert to SGSN
N118	Portuguese expert's contribution to JTC 1 SGSN on SGSN Technical Document Version 2 in SGSN N070	Portuguese expert to SGSN
N119	UK expert's contribution to JTC 1 SGSN on SGSN Technical Document Version 2 in SGSN N070	UK expert to SGSN
N120	Liaison Organization Contribution from JTC 1/SC 27 to JTC 1 SGSN on Privacy issue in SGSN N067 and SGSN Technical Document Version 2 in SGSN	JTC 1/SC 27

	N070	
N121	Korean expert contribution to JTC 1 SGSN on Middleware	Korean expert
N122	German expert contribution to JTC 1 SGSN on Middleware	German expert
N123	NB of US contribution on SGSN long term role	NB of US
N124	NB of UK contribution on SGSN long term role and TD	NB of UK
N125	2 nd Revised Draft agenda for the 4 th Meeting of ISO/IEC JTC 1 Study Group on Sensor Networks, Oslo, Norway, 29 June – 3 July 2009	SGSN Convenor
N126	Liaison response from JTC 1/SC 32 to JTC 1 SGSN on Privacy	JTC 1/SC 32
N127	Liaison response from JTC 1/SC 32 to JTC 1 SGSN on SGSN Technical Document SGSN N070	JTC 1/SC 32
N128	3 rd Revised Draft agenda for the 4 th Meeting of ISO/IEC JTC 1 Study Group on Sensor Networks, Oslo, Norway, 29 June – 3 July 2009	SGSN Convenor
N129	Liaison statement from ITU-T JCA-NID to JTC 1 SGSN on USN Terms and Definitions (SGSN N063)	ITU-T JCA-NID
N130	US expert contribution on the future organizational structure for JTC 1 SGSN	US Expert
N131	JTC 1/SCs Scopes	SGSN Secretary
N132	4 th Revised Draft agenda for the 4 th Meeting of ISO/IEC JTC 1 Study Group on Sensor Networks, Oslo, Norway, 29 June – 3 July 2009	SGSN Convenor
N133	Liaison Statement from JTC 1/SC 6 to JTC 1 SGSN for cooperation on sensor networks security	JTC 1/SC 6
N134	Liaison Statement from JTC 1/SC 6 to JTC 1 SGSN for cooperation on sensor networks architecture	JTC 1/SC 6
N135	Sensor Networks issues explored on privacy replying to JTC 1 Nara Resolution 31	SGSN Oslo meeting
N136	Middleware issues	SGSN Oslo meeting
N137	Final Agenda of the Oslo meeting	SGSN Convenor

N138	Report of Ad hoc group 1	Leader of Ad hoc group 1
N139	Report of Ad hoc group 2	Leader of Ad hoc group 2
N140	Report of Ad hoc group 3	Leader of Ad hoc group 3
N141	Report of the SGSN co-organized workshop on Sensor Network in Oslo	Organizer of the Workshop
N142	Integration of sensor networks and cellular networks	Chinese expert
N143	Resolutions of the 4th ISO/IEC JTC 1 SGSN Meeting in Oslo, Norway, 29 June – 3 July 2009	SGSN Oslo meeting
N144	Report of the 4 th ISO/IEC JTC 1 SGSN Meeting in Oslo, Norway, 29 June – 3 July 2009	SGSN Secretary
N145	Liaison Statement from JTC 1 SGSN to ISO/TC 211	SGSN Oslo meeting
N146	Liaison Statement from JTC 1 SGSN to JTC 1/SC 25	SGSN Oslo meeting
N147	Liaison Statement from JTC 1 SGSN to IEC/TC 65	SGSN Oslo meeting
N148	Liaison Statement from JTC 1 SGSN to JTC 1/SC 32	SGSN Oslo meeting
N149	SGSN Technical Document Version 3	SGSN Oslo meeting