

Replaces:

**ISO/IEC JTC 1
Information Technology**

Document Type: other (defined)

Document Title: SGSN report to JTC 1

Document Source: SGSN Convener

Document Status: This document is circulated to National Bodies for review and consideration at the November 2008 JTC 1 Plenary meeting in Nara.

Action ID: ACT

Due Date:

No. of Pages: 17

SGSN report to JTC 1

November 2008

SGSN Covenor: Yongjin KIM

Contents

1. Study Group on Sensor Network (SGSN)
2. Achievements (up to JTC 1 Plenary 2008)
3. The 1st SGSN meeting
4. The 2nd SGSN meeting
5. SGSN Technical Document
6. Proposed standardization areas for JTC 1 and cooperation with other SDOs
7. SGSN Recommendations to JTC 1
8. SGSN future meetings

Study Group on Sensor Network (SGSN)

- Established at the 28th JTC 1 plenary in 2007
- Convenor: Yongjin KIM
- Membership: 41 members officially appointed by 9 NBs and 6 Liaison Orgs.
 - 9 NBs: Canada, China, France, Germany, Japan, Korea, Norway, UK, and US
 - 5 LOs: JTC 1/SC 6, JTC 1/SC 31, JTC 1/SC 36, ISO/TC 211, IEC/TC 65, IEC/TC 100
- IEEE and OGC (Open Geospatial Consortium) also joined.

Achievements (1)

(up to JTC 1 Plenary 2008)

- Two physical meetings (June in China and September in Germany)
- Technical Document (Ver.1) answering the ToR of SGSN
- Sensor Network Workshop (June in China)
 - to gather requirements and promote standardization of sensor networks

Achievements (2)

(up to JTC 1 Plenary 2008)

- Two types of Email explorers
 - sgsn@modacom.co.kr : for official distribution of N-documents and official members discussion
 - sgsn_open@modacom.co.kr : for open discussion among related sensor network experts from all kinds of orgs.

The 1st SGSN meeting

- 26-27 June 2008 in Shanghai, China
- 53 participants from 5 NBs and 4 LOs attended the meeting.
- Produced the design specification of SGSN Technical Document for report to JTC 1
- Approved three resolutions regarding TD and SGSN work plan.
- See the 1st Meeting Report in JTC 1 N9169.

The 2nd SGSN meeting

- 15–19 September 2008 in Nuremberg, Germany
- 17 participants from 5 NBs and 2 LOs attended the meeting.
- Produced Version 1 of SGSN Technical Document for submission to JTC 1.
- Approved four resolutions for further study.
- Three Recommendations to JTC 1.
- See the 2nd Meeting Report in JTC 1 N9277.

SGSN Technical Document

- SGSN's study results as per the ToR
- Circulated as JTC 1 N-Doc.
- Need to be improved and refined on
 - standardization area for JTC
 - Allocation potential area to JTC 1 SCs
 - Cooperation potential area with other SDOs, Fora, Consortia
- Request for Call for contributions from JTC 1 SCs and NBs on the above

Proposed standardization areas for JTC 1 and cooperation with other SDOs

| Standardization Areas | JTC 1 SCs | Other SDOs, Consortia, Fora |
|------------------------------|---------------------------|--|
| Terminology | JTC 1 | ITU-T SG 13, 16, 17; JCA-NID |
| Requirements Analysis | SC 6, SC 17, SC 25, SC 36 | ISO TC 204, TC 211; IEC TC 65; ITU-T SG 13, 16, 17; ISA100; IETF 6LoWPAN; ROLL WG; OGC |
| Reference Architecture | SC 6 | ITU-T SG 13 & 16; ISO TC 204 |
| Application Profiles | SC 31, SC 36, SC 37 | ZigBee Alliance; OGC |
| Sensor Interface | SC 6, SC 31, SC 37 | IEEE 1451; IEC SC 17B; EPCglobal |
| Data type and Data Interface | SC 6, SC 32 | ITU-T SG 16 |
| Communication | SC 6 | IEC SC 65C; IEEE 802; IPSO Alliance |
| Routing | SC 6 | IETF 6LoWPAN; ROLL WG; ZigBee Alliance |

| | | |
|---|----------------------------------|-----------------------------------|
| Mobility Support | SC 6 | IETF MANET MIP WG |
| Network Management | SC 6 | ZigBee Alliance; IETF SNMP WG |
| Collaborative Information Processing | SC 32 | OGC; W3C |
| Information Service Supporting | SC 6, SC 24, SC 29, SC 31, SC 32 | OGC; W3C; IETF ENUM WG, EPCglobal |
| Quality of Service (QoS) | SC 6 | ITU-T; IETF |
| Middleware Functions | SC 32 | ITU-T SG 16 |
| Security | SC 6, SC 27 | ITU-T SG 17 |
| Conformance, Interoperability and Performance Testing | None known. | ZigBee Alliance |

SGSN Recommendation 1 to JTC 1

- SGSN recommends that JTC 1 reaffirm SGSN's continued activity up to its Terms of Reference with a report to JTC 1 prior to the 2009 JTC 1 Plenary meeting.

SGSN Recommendation 2 to JTC 1

- SGSN recommends that JTC 1 issue, to JTC 1 National Bodies and its Subcommittees, a Call for Contribution to the SGSN Technical Document on their existing and potential area of standardization on sensor networks.

SGSN Recommendation 3 to JTC 1

- SGSN recommends that standardization on sensor networks should be initiated in JTC 1 as soon as possible to meet the urgent requirements of industry, such as application profiles, requirements analysis, interfaces, identification, etc.

- SGSN hopes JTC 1 to consider SGSN recommendations for JTC 1 resolutions at the JTC 1 Nara plenary.

SGSN Future Meetings

- 3rd SGSN meeting

- 19–23 January 2009
- Sydney, Australia

- 4th SGSN meeting

- 29 June – 3 July 2009
- Oslo, Norway

Thank you.