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

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Liaison statement from JTC1 WG7 to IEC TC100

At the JTC1 plenary in Tel Aviv in 2009 JTC1 formally approved the establishment of a working group on sensor networks directly under JTC1.

Resolution 34 - Establishment of JTC 1 Working Group 7 on Sensor Networks

Sensor networks are being widely used across a whole sphere of applications; it is important for JTC 1 to undertake standardization in the area of generic solutions for sensor networks and application-oriented sensor networks within the overall scope of JTC 1. To this end, JTC 1 establishes JTC 1 Working Group 7 on Sensor Networks with the following terms of reference:
1) In the area of generic solutions for sensor networks, undertake standardization activities that support and apply to the technical work of all relevant JTC 1 entities and to other standards organizations. This would include activities in sensor networks such as the following:
    a) Standardization of terminology.
    b) Development of a taxonomy.
    c) Standardization of reference architectures.
    d) Development of guidelines for interoperability.
2) In the area of application-oriented sensor networks, identify gaps and commonalities as they may impact standardization activities within the scope of JTC 1. Further, share this information with relevant entities within and outside of JTC 1. Unless better pursued within another JTC 1 entity, the following standardization activities may be pursued as projects by this Working Group:
    a) Addressing the technology gaps within the scope of JTC 1 entities.
    b) Exploiting technology opportunities where it is desirable to provide common
    approaches to the use of sensor networks across application domains.
3) In order to foster communication and sharing of information between groups working in the field of sensor networks:
    a) Seek liaison relationships with all relevant JTC 1 SCs/WGs.
    b) Seek liaison relationships with other organizations outside JTC 1 including
    but not limited to: relevant ISO TCs, IEC TCs and ITU-T SGs, IEEE 1451, IEEE
    1588, IEEE P2030, IEEE 802.15, Open Geospatial Consortium, ZigBee
    Alliance, IETF 6LoWPAN, IETF ROLL WG, ETSI, IPSO Alliance, EPCglobal,
    ISA 100, LONMARK, KNX Association, Zwave Alliance.
    c) Consider the possibility of conducting joint projects with relevant ITU-T SG.
    d) Seek input from relevant research projects and consortia.
4) Membership in the Working Group is open to representatives from all National Bodies, JTC 1 liaisons and JTC 1 approved PAS submitters.
The National Body of Korea will provide Dr. Yongjin KIM as Convenor and Ms. Jooran Lee as Secretariat.

The programme of work of WG7 consists of:
    a)   ISO/IEC 29182 "Reference architecture for sensor networks" project
        which will support generic standardization of reference architectures. The
        development of this standard has been transferred from JTC1 SC 6 to
        JTC1 WG7 (Resolution 35 from JTC1 Tel Aviv meeting).
    b)   New work following the successful NWIP ballot of JTC1 N9921 Sensor
        Network and its Interface for Smart Grid System. This project will not start
        until IEC/SMB concerns are resolved.

There were discussions at the first JTC1 WG7 meeting in London held from March 8th to 12th resulting in a recommendation to transform ISO/IEC 29182 into a multipart standard. The recommendations of the first WG7 meeting are attached for information.

JTC1 WG7 understands that IEC TC100 has a number of work items involving sensor network applications in TA4, Digital system interfaces and protocols, TA8 Multimedia Home server systems, TA9 Audio, video and multimedia applications for end-user network and TA12 Energy Efficiency. WG7 would like to establish a formal liaison (Category A) with appropriate Technical Areas and ask that IEC TC100 AGM discuss the most appropriate TAs at their forthcoming meeting in Athens in May 2010 and establish the necessary liaisons.

The second WG7 meeting will be held National Institute of Standards and Technology (NIST), Gaithersburg, MD, USA from August 23 to 27, 2010 and representatives from IEC TC100 TAs are encouraged to present their sensor network-related activities at this meeting.

Enclosure:
Recommendations of the first JTC 1/WG 7 meeting

**ISO/IEC JTC 1/WG 7 Recommendations
8 – 12 March 2010, London UK**

**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.