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

Document Number:	N025
Date:	2010-03-17
Replace:	
Document Type:	Outgoing Liaison Statement
Document Title:	Liaison statement from JTC 1/WG 7 to JTC 1/SC 27
Document Source:	JTC 1/WG 7 London meeting
Document Status:	For your information.
Action ID:	FYI
Due Date:	
No. of Pages:	3

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JTC 1/WG 7 liaison statement to JTC 1/SC 27

JTC1 WG7 welcomes the Liaison Statement from JTC1 SC27/WG2 with information on their work in lightweight cryptography suitable for applications such as sensor networks.

To date the work of WG7 has not covered the specific requirements related to cryptography applications in sensor networks. However, when they do address this topic, they will consult SC27 for information and advice on the characterisation of such requirements and how to implement effective solutions using ISO/IEC 29192 or other SC27 standards.

In the work that the former JTC1 SG performed, which resulted in the Technical Document (WGSN N007 Study on Sensor Networks), a number of general and specific characteristics and requirements for sensor networks were identified.

Section 5 described **"...unique characteristics of sensor networks compared with traditional networks (e.g., communications network, legacy sensor networks or "sensors on the net")... "**

With respect to the generic requirements table 5.1 provides an overview.

And with respect to security and privacy general requirements were identified as

> ***5.2.1.2 Security and Privacy***
> *SN-GSR 3. Sensor networks shall ensure network security and user privacy.*
> *Note: Security and privacy are of extreme importance for many of the proposed applications of sensor networks. Standardization of security should provide different security level for applications.*
>
> ***5.2.2.6 Security and Privacy Services***
> *SN-FCR 8. Sensor networks shall ensure network security and protect data/user privacy.*
> *SN-FCR 9. Sensor networks shall provide privacy protection capabilities for users and user information.*
> *Note: There are many sensor network applications used in security environments. Services on the sensor node have to make sure that the communication links, the data storage as well as the application program on the node are secured.*

JTC1 WG7 are intending to develop "ISO/IEC 29182 Information technology — Sensor Networks — Reference architecture for sensor networks" as a multi-part standard. The request for the subdivision of ISO/IEC 29182 has been submitted to JTC 1.

Much of the work described in your Liaison Statement will impact on this activity for security. In the ongoing development of ISO/IEC 29182 we will seek your input to ensure the reference architecture and components that are described can interoperate with the privacy and security frameworks being developed by JTC1 SC27.

In ISO/IEC 29192-1 you identify 4 key constraints; in fact latency (and QoS in general) is equally important in sensor networks and is an additional dimension which should be considered in constrained environments.

JTC1 WG7 noted that a number of the documents referenced were not available to the WG7 **(e.g. ISO/IEC CD 29100 – Privacy Framework & ISO/IEC WD 29101 – Privacy Reference Architecture**) and so they would welcome the appointment of a liaison officer from JTC1 SC27 to assist with the exchange of relevant documents and information.

JTC 1/WG 7 will meet on 23-27 August 2010 in National Institute of Standards and Technology (NIST), Gaithersburg, MD, USA.

Please note: with respect to the information from WG4 and WG5 the current work on *ISO/IEC CD 29180 Telecommunications and Information Exchange Between Systems-- Security framework for ubiquitous sensor network* will continue to be developed in JTC1 SC6 and not in JTC1 WG7.