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The study of SGSN has not identified

- a distinct difference between "sensor networks" and "networks with sensors" as already specified by multiple international standardization bodies for many applications,
- a field of new applications for sensor networks that was not within the scope of an existing standardization body.

The study of SGSN provides clear indications that sensors can get smarter with help of information technologies in order to support:

- de-centralised implementation of applications,
- adaption of the same Smart Sensor hardware to multiple application domains,
- shorten cycles of innovation concerning adaption of a sensor to different applications,
- support the dissemination of wireless technologies,

and thereby open new opportunities for the standardization bodies developing sensor networks as well as synergies between their solutions, provided they are developed in harmony with existing solutions.

Therefore Germany proposes the following terms of reference for a standardization body with in JTC 1.

NOTE Sensor network is used as synonym for network with sensors in this document

Proposed Terms of Reference (ToR)
for
JTC 1 Working Group on Smart Sensor Architecture (WGSSA)

1) To develop a reference architecture for smart sensors including the following activities:

- a) Standardisation of a functional description and structure of middleware for smart sensors including, the interfaces of the middleware to its partners, terminology and test procedures

That support the technical work of all JTC 1 entities and other standards organizations;

Offer generic solutions for smart sensors to standard bodies developing sensor network standards inside JTC1;

- b) Develop rules for the co-existence of wireless sensor networks with each other and other wireless networks solutions jointly with IEC SC 65C and ETSI,
- c) Specify criteria for the assessment and properties of routing and communications protocols for wireless sensor networks.

2) Standardisation of application oriented subjects for sensor networks is excluded from the scope of WGSSA, specifically:

- a) Standardization activities concerning the application of sensor networks in automation which are in the scope of IEC, TC65, ISO TC184 and their subcommittees

- b) Standardization activities concerning the application of sensor networks for power distribution which are in the scopes TC 13, TC 17, TC 38, TC 57 and TC 95 and their subcommittees.
- c) Standardization activities concerning the application of sensor networks in intelligent homes and buildings which are in the scope of JTC 1/SC 25 and ISO TC 205.