

# ISO/IEC JTC 1/SC 32 N 1988

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REPLACES: --

## ISO/IEC JTC 1/SC 32

### Data Management and Interchange

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<b>TITLE</b>	SC32 Smart Grid Framework input to JTC1 response to IEC SG3
<b>SOURCE</b>	SC32 Chair - Bruce Bargmeyer
<b>PROJECT NUMBER</b>	1.32.
<b>STATUS</b>	input to JTC1 Chair on SC32 work of relevance to the Smart Grid Framework. These suggestions are offered in response to IEC Strategy Group 3 (SG3) November 2009 meeting report and the ten SG3 decisions proposed in Annex B.
<b>REFERENCES</b>	
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<b>REQUESTED ACTION</b>	
<b>DUE DATE</b>	
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**From:** "Bargmeyer" <bebargmeyer@lbl.gov>  
**Subject:** RE: Urgent action request --- Smart Grid Framework inputs --- 22 March  
**Date:** Thu, March 25, 2010 19:54  
**To:** "Higginbottom, Karen" <karen.higginbottom@hp.com>  
**Cc:** timothy@schoechle.org, "Warzel, Denise \ (NIH/NCI) [E]" <warzeld@mail.nih.gov>, "Lisa Rajchel" <lrajchel@ansi.org>

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Karen,

Here is some input from SC 32.

I hope this is useful.

Bruce

Standards, existing or under development, that JTC 1 would recommend become part of the IEC Smart Grid Strategic Group Framework:

### **The ISO/IEC 11179 family of standards**

The Smart Grid will rely heavily on accurate, reliable, controllable and verifiable data recorded in databases and exchanged in messages. A prerequisite for correct and proper use and interpretation of data is that both users and owners of data have a common understanding of the meaning and representation of the data. To facilitate this common understanding, a number of characteristics, or attributes, of the data have to be defined. These characteristics of data are known as "metadata", that is, "data that describes data". ISO/IEC 11179 provides the attributes of data elements and associated metadata, which can be specified and registered as metadata items in a *Metadata Registry*.

A comprehensive Metadata Registry management function requires a set of rules and procedures. Some of these rules and procedures are set out in 11179 Part 3. The parts of ISO/IEC 11179 are as follows:

Part 1 - The overall framework for this family of International Standards

Part 2 - Rules and guidelines for classifying metadata

Part 3 - Specifies the structure of a *Metadata Registry*. ISO/IEC 11179-3 also specifies basic attributes which are required to describe metadata items, and which may be used in situations where a complete metadata registry is not appropriate (e.g. in the specification of other International Standards)

Part 4 - Rules and guidelines for the formulation of data definitions

Part 5 - Naming and identifying principles for metadata

Part 6 - Rules and guidelines for registering metadata

Of particular note is the new version of ISO/IEC 11179 Part 3, which is out for Final Committee Draft ballot. It helps to integrate metadata describing data with semantics as specified in terminologies such as thesauri, taxonomies, and ontologies.

### **The ISO/IEC 19763 family of standards**

To promote interoperability among application systems, unambiguous and formal specifications of them, especially of their inputs and outputs, are inevitable. Ontology has a key role for that. The metamodel specified in ISO/IEC 19763 Part 3 is intended to promote interoperability among application systems, by providing administrative and evolution information related to ontologies, accompanied with standardized

ontology repositories that register ontologies themselves in specific languages. The primary purpose of the multipart standard ISO/IEC 19763 is to specify a metamodel framework for interoperability. ISO/IEC 19763 specifies the metamodel that provides a facility to register administrative and evolution information related to ontologies.

The ISO/IEC 19763 family of standards includes:

- Part 1: Reference model
- Part 2: Core model
- Part 3: Metamodel for ontology registration
- Part 4: Metamodel for model mapping
- Part 5: Metamodel for process model registration
- Part 6: Registration procedure

There is considerable research and development underway on new and revised editions of the above parts as well as on additional parts to this standard.

----Sent by-----

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**From:** Higginbottom, Karen [/src/compose.php?send\_to=karen.higginbottom@hp.com]

**Sent:** Wednesday, March 24, 2010 6:39 PM

**To:** Higginbottom, Karen; Ron Ambrosio; cap@modacom.co.kr; Michael Breidhardt; Akira Saito (SC 28); Bruce Bargmeyer (SC 32); Bruce Peoples (SC 36); Chuck Biss (SC 31); Dae-Young Kim (SC 6); Don Deutsch (SC 38); Fernando Podio (SC 37); Francois Coallier (SC 7); Gerd Weking (SC 25); Ha-Jine Kimn (SC 24); Kohtaro Asai (SC 29); Lisa Rajchel (JTC 1 Secretariat); Rex Jaeschke (SC 22); Richard Mabbott (SC 17); Sam Gyun Oh (SC 34); Tatsuo Kobayashi (SC 2); Walter Fumy (SC 27); Yoshinobu Mitsuhashi (SC 23); Yves Neuville (SC 35)

**Cc:** Ayuko Nagasawa (SC 23); Channy Lee (SC 36); Chris Starr (SC 17); David Hyde (SC 24); Jooran Lee (SC 6); Krystyna Passia (SC 27); Marisa Peacock (SC22\_38); Motokuni Sugiyama (SC 28); Philippe Magnabosco (SC 35); Ray Delnicki (SC 31); Tim Schoechle (SC 32); Toshiko Kimura (SC2\_34); Walter Pattay (SC 25); Witold Suryn (SC 7); Yukiko Ogura (SC 29); Alex Li; John Graham (WG 6); Lin Gao (DCMP); Natalie Ranger; Raymond Lloyd (SG Data Centers); Yong-Woon KIM (SG Green ICT)

**Subject:** RE: Urgent action request --- Smart Grid Framework inputs --- 22 March

Please contact me via email immediately if you are still crafting a response to this request.

To date, I have received information from:

JTC 1/ WG 7  
SC 25  
SC 31

one personal input

If you are not listed above but still have something to contribute, please do so now.

Thank you for your urgent attention to this matter,

Karen

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**From:** Higginbottom, Karen

**Sent:** Tuesday, March 09, 2010 6:10 PM

**To:** Ron Ambrosio; cap@modacom.co.kr; Michael Breidthardt; Akira Saito (SC 28); Bruce Bargmeyer (SC 32); Bruce Peoples (SC 36); Chuck Biss (SC 31); Dae-Young Kim (SC 6); Don Deutsch (SC 38); Fernando Podio (SC 37); Francois Coallier (SC 7); Gerd Weking (SC 25); Ha-Jine Kimn (SC 24); Higginbottom, Karen; Kohtaro Asai (SC 29); Lisa Rajchel (JTC 1 Secretariat); Rex Jaeschke (SC 22); Richard Mabbott (SC 17); Sam Gyun Oh (SC 34); Tatsuo Kobayashi (SC 2); Walter Fumy (SC 27); Yoshinobu Mitsuhashi (SC 23); Yves Neuville (SC 35)

**Cc:** Ayuko Nagasawa (SC 23); Channy Lee (SC 36); Chris Starr (SC 17); David Hyde (SC 24); Jooran Lee (SC 6); Krystyna Passia (SC 27); Marisa Peacock (SC22\_38); Motokuni Sugiyama (SC 28); Philippe Magnabosco (SC 35); Ray Delnicki (SC 31); Tim Schoechle (SC 32); Toshiko Kimura (SC2\_34); Walter Pattay (SC 25); Witold Suryn (SC 7); Yukiko Ogura (SC 29); Alex Li; John Graham (WG 6); Lin Gao (DCMP); Natalie Ranger; Raymond Lloyd (SG Data Centers); Yong-Woon KIM (SG Green ICT)

**Subject:** Urgent action request --- Smart Grid Framework inputs --- 22 March

TO: JTC 1 Working Group 7 on Sensor Networks Convenor

JTC 1 SWG - Smart Grid Convenor

SC Chairs

SWG-Planning Convenor

CC: other Convenors

Per ISO/IEC JTC 1 N 100016, the approved new work item for "Sensor Networks and Interface for Smart Grid Systems" has been suspended in accordance with SMB decision 137/18. While the JTC 1 Secretariat and I have begun to seek resolution of this matter, we have been asked to provide feedback on the 10 decision proposals made by IEC's SMB Smart Grid Strategic Group (SG3). The proposals are available in Annex B of the SG3 November 2009 meeting report (JTC 1 N 100017).

I strongly encourage you to read the report in its entirety but, for reference, the 10 Decision proposals are:

SG3 DECISION 1: TCs will provide practical guidelines to increase current usability of standards

SG3 DECISION 2: Fast-track new standards to close the gaps

SG3 DECISION 3: Set up a Feedback process for continuous improvement

SG3 DECISION 4: Across the IEC Smart Grid Framework, the Application Domain TCs must use the methods delivered by the "horizontal" TCs included in the Framework.

SG3 DECISION 5: The Application Domain TCs must develop their own Data Models and Test Cases

SG3 DECISION 6: Accelerate the harmonization of IEC 61850 and CIM

SG3 DECISION 7: Deliver generic Use Cases

SG3 DECISION 8: Establish a new TC or SC on "connecting the consumer applications"

SG3 DECISION 9: Add a Smart Grid certification process to the IEC System family

SG3 DECISION 10: Add operational management of the IEC Smart Grid Framework

I would appreciate your comments/guidance on the 10 decisions and will pull them together in a single JTC 1 contribution. If there are decisions for which you believe JTC 1 has no interest, please just state "NA".

In addition to feedback on the 10 decision proposals, JTC 1 has been asked to identify any standards, existing or under development, that JTC 1 would recommend become part of the IEC Smart Grid Strategic Group Framework. Each identified standard should include a few reasons that would support the standard's inclusion in the Framework.

While SC 6 and SC 25 are currently mentioned in the Roadmap, given many of the discussions and actions that took place in Tel Aviv, I believe there are additional JTC 1 standards activities that are valuable for inclusion in the Smart Grid Framework. Please include the number and name of the standard(s) together with a short paragraph to explain the standard's relevance to the Smart Grid Framework. Send your inputs directly to me via email.

**It is essential that I receive your inputs and suggestions by 22 March 2010.** I apologize for such a large task in such little time but the deadline is necessary to meet the next SG3 meeting in early April.

Please contact Lisa ([lraichel@ansi.org](mailto:lraichel@ansi.org)) or myself ([karen.higginbottom@hp.com](mailto:karen.higginbottom@hp.com)) via email with your questions.

Thank you for your prompt response to this request,  
Karen

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**Attachments:**

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