

**ISO/IEC JTC 1
Information Technology**

Document Type: New Work Item Proposal

Document Title: New Work Item Proposal on SDShare: Protocol for the Syndication of Semantic Descriptions

Document Source: SC 34 Secretariat

Reference:

Document Status: This document is circulated to JTC 1 National Bodies for concurrent review. If the JTC 1 Secretariat receives no objections to this proposal by the due date indicated, we will so inform the SC 34 Secretariat

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DOC. TYPE		Text for NP ballot
TITLE		New Work Item Proposal on SDShare: Protocol for the Syndication of Semantic Descriptions
SOURCE		ISO/IEC JTC 1/SC 34/WG 3
PROJECT		
STATUS		In accordance with Resolution 12 adopted at the SC 34 Plenary Meeting held in Seattle, WA, USA, 2009-09-17, this document is circulated to the SC 34 National Bodies for a 3-month ballot. It is also submitted to JTC 1 for concurrent review.
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G3 New Work Item Proposal

March 2007

PROPOSAL FOR A NEW WORK ITEM

Date of presentation of proposal: 2010-01-19	Proposer: ISO/IEC JTC 1/SC 34
Secretariat: JISC	ISO/IEC JTC 1 N XXXX ISO/IEC JTC 1/SC 34 N 1362

A **proposal for a new work item** shall be submitted to the secretariat of the ISO/IEC joint technical committee concerned with a copy to the ISO Central Secretariat.

Presentation of the proposal - to be completed by the proposer.

Title SDSShare: Protocol for the Syndication of Semantic Descriptions
Scope The proposal specifies an underlying syndication protocol for the exchange of information about semantic descriptions. The protocol conforms to the Atom Syndication Format and the Topic Maps Data Model (TMDM) and works with semantic descriptions represented as in XTM 1.0, XTM 2.0 and RDF/XML. It defines layers of syndication feeds that a conforming application must provide. Finally it defines algorithms for the provisions and processing of the different feeds on servers and clients.
Purpose and justification Users cannot benefit from semantic descriptions on the WWW of which they are unaware. Until the development of SDSshare, there were no protocols that would enable the syndication of information about semantic descriptions and hence enable users to learn of new information automatically. One apt comparison would be to consider the provision of current events, not as a continuous wire feed but only upon request for particular news stories. SDSShare has the potential to transform the discovery of semantic descriptions from hunt and gather to automatic streaming where clients select descriptions of interest.
Programme of work If the proposed new work item is approved, which of the following document(s) is (are) expected to be developed? <input checked="" type="checkbox"/> X a single International Standard <input type="checkbox"/> more than one International Standard (expected number:) <input type="checkbox"/> a multi-part International Standard consisting of parts <input type="checkbox"/> an amendment or amendments to the following International Standard(s) <input type="checkbox"/> a technical report , type And which standard development track is recommended for the approved new work item? <input type="checkbox"/> a. Default Timeframe <input checked="" type="checkbox"/> X b. Accelerated Timeframe <input type="checkbox"/> c. Extended Timeframe
Relevant documents to be considered CWA Part 1b - SDSShare: Protocol for the Syndication of Semantic Descriptions
Co-operation and liaison
Preparatory work offered with target date(s) A complete working draft will be available for the WG 3 meeting in Stockholm, March 2009.
Signature: Will the service of a maintenance agency or registration authority be required?No..... - If yes, have you identified a potential candidate? - If yes, indicate name Are there any known requirements for coding?No..... -If yes, please specify on a separate page Does the proposed standard concern known patented items?No..... - If yes, please provide full information in an annex Are there any known accessibility requirements and/or dependencies (see: http://www.jtc1access.org)?.....No..... -If yes, please specify on a separate page Are there any known requirements for cultural and linguistic adaptability?.....No..... -If yes, please specify on a separate page

Comments and recommendations of the JTC 1 or SC 34 Secretariat - attach a separate page as an annex, if necessary

Comments with respect to the proposal in general, and recommendations thereon:

It is proposed to assign this new item to JTC 1/SC 34/WG 3

Voting on the proposal - Each P-member of the ISO/IEC joint technical committee has an obligation to vote within the time limits laid down (normally three months after the date of circulation).

Date of circulation: 2010-01-20	Closing date for voting: 2010-04-20	Signature of Secretary: Toshiko KIMURA
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NEW WORK ITEM PROPOSAL - PROJECT ACCEPTANCE CRITERIA		
Criterion	Validity	Explanation
A. Business Requirement		
A.1 Market Requirement	Essential <input checked="" type="checkbox"/> Desirable <input type="checkbox"/> Supportive <input type="checkbox"/>	There is no other existing protocol that enables the syndication of semantic descriptions. The provision of such a capability will have a transformative effect on the provision of semantic services by enabling the automatic sharing and acquisition of information about semantic descriptions.
B. Related Work		
B.1 Completion/Maintenance of current standards	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
B.2 Commitment to other organisation	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
B.3 Other Source of standards	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Developed as part of the CEN/ISSS eGovernment Focus Group project. That project has ended with no plans to mature this technology. The CEN website is: http://www.cen.eu/cenorm/sectors/sectors/issss/workshops/wsegovshare.asp . The project homepage is: http://www.egovpt.org/fg/Working_area .
C. Technical Status		
C.1 Mature Technology	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	The text of the proposed standard is substantially complete and there are working implementations for both server and client. Examples of working software can be found at: <ul style="list-style-type: none">• http://www.networkedplanet.com/• http://common-lisp.net/project/isidorus/• http://tinytim.sourceforge.net/
C.2 Prospective Technology	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
C.3 Models/Tools	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
D. Conformity Assessment and Interoperability		
D.1 Conformity Assessment	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
D.2 Interoperability	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	One of the primary principles that underlie the project is interoperability in the syndication of semantic descriptions. The protocol defines the basis for interoperability using known standards which already have substantial interoperability in current applications.
E. Adaptability to Culture, Language, Human Functioning and Context of Use		
E.1 Cultural and Linguistic Adaptability	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
E.2 Adaptability to Human Functioning and Context of Use	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

F. Other Justification	
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Notes to Proforma

A. Business Relevance. That which identifies market place relevance in terms of what problem is being solved and or need being addressed.

A.1 Market Requirement. When submitting a NP, the proposer shall identify the nature of the Market Requirement, assessing the extent to which it is essential, desirable or merely supportive of some other project.

A.2 Technical Regulation. If a Regulatory requirement is deemed to exist - e.g. for an area of public concern e.g. Information Security, Data protection, potentially leading to regulatory/public interest action based on the use of this voluntary international standard - the proposer shall identify this here.

B. Related Work. Aspects of the relationship of this NP to other areas of standardisation work shall be identified in this section.

B.1 Competition/Maintenance. If this NP is concerned with completing or maintaining existing standards, those concerned shall be identified here.

B.2 External Commitment. Groups, bodies, or for a external to JTC 1 to which a commitment has been made by JTC for Co-operation and or collaboration on this NP shall be identified here.

B.3 External Std/Specification. If other activities creating standards or specifications in this topic area are known to exist or be planned, and which might be available to JTC 1 as PAS, they shall be identified here.

C. Technical Status. The proposer shall indicate here an assessment of the extent to which the proposed standard is supported by current technology.

C.1 Mature Technology. Indicate here the extent to which the technology is reasonably stable and ripe for standardisation.

C.2 Prospective Technology. If the NP is anticipatory in nature based on expected or forecasted need, this shall be indicated here.

C.3 Models/Tools. If the NP relates to the creation of supportive reference models or tools, this shall be indicated here.

D. Conformity Assessment and Interoperability Any other aspects of background information justifying this NP shall be indicated here.

D.1 Indicate here if Conformity Assessment is relevant to your project. If so, indicate how it is addressed in your project plan.

D.2 Indicate here if Interoperability is relevant to your project. If so, indicate how it is addressed in your project plan

E. Adaptability to Culture, Language, Human Functioning and Context of Use

NOTE: The following criteria do not mandate any feature for adaptability to culture, language, human functioning or context of use. The following criteria require that if any features are provided for adapting to culture, language, human functioning or context of use by the new Work Item proposal, then the proposer is required to identify these features.

E.1 Cultural and Linguistic Adaptability. Indicate here if cultural and natural language adaptability is applicable to your project. If so, indicate how it is addressed in your project plan.

ISO/IEC TR 19764 (Guidelines, methodology, and reference criteria for cultural and linguistic adaptability in information technology products) now defines it in a simplified way:

- "ability for a product, while keeping its portability and interoperability properties, to:
- be internationalized, that is, be adapted to the special characteristics of natural languages and the commonly accepted rules for their se, or of cultures in a given geographical region;
- take into account the usual needs of any category of users, with the exception of specific needs related to physical constraints

Examples of characteristics of natural languages are: national characters and associated elements (such as hyphens, dashes, and punctuation marks), writing systems, correct transformation of characters, dates and measures, sorting and searching rules, coding of national entities (such as country and currency codes), presentation of telephone numbers and keyboard layouts. Related terms are localization, jurisdiction and multilingualism.

E.2 Adaptability to Human Functioning and Context of Use. Indicate here whether the proposed standard takes into

account diverse human functioning and diverse contexts of use. If so, indicate how it is addressed in your project plan.

NOTE:

1. Human functioning is defined by the World Health Organization at <http://www3.who.int/icf/beginners/bg.pdf> as: << In ICF (International Classification of Functioning, Disability and Health), the term functioning refers to all body functions, activities and participation. >>
2. Content of use is defined in ISO 9241-11:1998 (Ergonomic requirements for office work with visual display terminals (VDTs) Part 11: Guidance on usability) as: << Users, tasks, equipment (hardware, software and materials), and the physical and societal environments in which a product is used.>>
3. Guidance for Standard Developers to address the needs of older persons and persons with disabilities).

F. Other Justification Any other aspects of background information justifying this NP shall be indicated here.