

ISO/IEC JTC 1/SC 32 N 0687

Date: 2001-10-01

REPLACES: --

<p style="text-align: center;">ISO/IEC JTC 1/SC 32</p> <p style="text-align: center;">Data Management and Interchange</p> <p style="text-align: center;">Secretariat: United States of America (ANSI) Administered by Pacific Northwest National Laboratory on behalf of ANSI</p>

DOCUMENT TYPE	Proposed NP (proposal under review by WG or SC)
TITLE	Proposal for a New Work Item (NWI for standardization work; Framework for Registering Business Objects)
SOURCE	National Body - Japan (Hajime Horiuchi)
PROJECT NUMBER	
STATUS	Consolidation of the study result and comments
REFERENCES	
ACTION ID.	COM
REQUESTED ACTION	Revised Draft Proposal for discussion in Victoria, Canada
DUE DATE	
Number of Pages	8
LANGUAGE USED	English
DISTRIBUTION	P & L Members SC Chair WG Conveners and Secretaries

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G1 New Work Item Proposal

PROPOSAL FOR A NEW WORK ITEM

Date of presentation of proposal: 2001-09-24	Proposer: ISO/IEC JTC 1/SC 32
Secretariat: US	ISO/IEC JTC 1 N XXXX

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 Guidelines for proposing and justifying a new work item are given in ISO Guide 26.

Title: Framework for Registering Business Objects
Scope (and field of application) : This NWI proposal intended to initiate a new standard activity on the meta model framework for registering various types of the business objects, such as domain specific business scenario, business process models, business entity profiles, interface formats common elementary objects and software components. Following standards should be developed, keeping consistency with standards which were already defined and enforced in the particular communities. <ul style="list-style-type: none">● Meta Modeling Facility (MOF) with the PAS from OMG● Metamodel Framework<ul style="list-style-type: none">➤ Normative Contents of Meta-Meta level of the MOF➤ Normative Contents for<ul style="list-style-type: none">◇ Registering Modeling Constructs◇ Registering Business Objects◇ Mapping between Models● Registration Procedure

Purpose and justification :

Problems to be addressed

(See Attachement-1)

The necessity of the Meta model framework

A common metamodel framework for registering business objects should be necessary as an infrastructure which underlies among different organizations or corporations that participate to business collaborations through E-business or E-Commerce, enabling harmonized and consistent use of business process models or information elements which would be normalized by the particular standard group such as, TC154, ebXML, OMG Domain Taskforces, VICS, EAN/UCC etc.

The goals and objectives of the framework should be following:

- (1) Establish a metamodel container to register unified views (set of attributes) of business process models or model elements with a multi dimensional scheme.
- (2) Establish a scheme which requires keeping the conformance to normative modeling constructs in the developing enterprise object models and software components.
- (3) Establish a scheme which allows the appropriate mapping between models which are developed with different modeling facilities or modeling constructs.

It should be reinforced that the NWI does not intend to develop any contents of business objects that should be responsible to the domain specific standard activities or groups.

The Potential Users of the standard

- (1) The potential first line users of this standard could be following standard groups.
 - The group or organization who develop standards for reusable business software
 - The group or organization who develop standard for domain specific business process models and want to share them among different organizations.This standard will provide an open infrastructure to register their standards.
- (2) The potential End Users of the standard could be commercial vendors, such as
 - Net exchangers or the vendors who provide the exchange services following a particular standard such as ebXML.
 - A particular organization who want to register their products and want to collaborate with other organizations through EC or Internet.
 - Net exchange service vendors who have to handle more than two different standards protocols or business process models.
 - Organizations who develop reusable business objects or software and want to make business on that.

Programme of work

If the proposed new work item is approved , which of the following document(s) is (are) expected to be developed?

- a single International Standard more than one International Standard (expected number:)
- a multi-part International Standard consisting of parts
- an amendment or amendments to the following International Standard(s)
- a technical report , type

Relevant documents to be considered

- ISO/IEC FCD 11179-3 Information Technology-Data Management and Interchange- Metadata Registry(MdR)- Part 3: Registry Metamodel (MdR3)
- ISO/IEC FPDTR 20943-1 Information technology – Data management and interchange - Procedures for achieving metadata registry (MdR) content consistency - Part 1: Data elements
- ISO/IEC TR 15452:2000, Information technology – Specification of data value domains
- ISO/IEC 14662:1997(E)Information Technologies - Open-EDI Reference Model.
- ISO/IEC DIS 15901(UML),
ISO 9735 (TC 154)]
- Meta Object Facility (MOF) Specification, Needham: OMG, 2000, formal/00-04-03
- Common Warehouse Metamodel (CWM) Specification: OMG, 2000, ad/2000-01-01, ad/2000-01-02, ad/2000-01-03, ad/2000-01-11
- UML Profile for EDOC submission: OMG, 2001, ad/2001-06-09
- UN/CEFACT Modeling Methodology. CEFACT/TMWG/N090R9. February 2001.
- ebXML Concept - Context and Re-Usability of Core Components. Version 1.01. February 16, 2001.
- ebXML Registry Information Model. Version 0.56. Working Draft. 2/28/2001
- ebXML Catalog of Common Business Processes. Version 1.0. Date May 11, 2001
- ebXML Catalog of Common Business Processes. Version 1.0, May 11 2001.

Cooperation and liaison:

- OMG
- ISO/IEC JTC1 SC7
- ISO TC154
- UN/CEFACT
- OASIS
- EAN

Preparatory work offered with target date(s)

Signature: Hajime Horiuchi (SC32 Japan)

Will the service of a maintenance agency or registration authority be required?Yes.....
 - If yes, have you identified a potential candidate?TBD.....
 - If yes, indicate nameTBD.....

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

Comments and recommendations of the JTC 1 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 32

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: YYYY-MM-DD	Closing date for voting: YYYY-MM-DD	Signature of JTC 1 Secretary: Lisa A. Rajchel
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NEW WORK ITEM PROPOSAL - PROJECT ACCEPTANCE CRITERIA		
Criterion	Validity	Explanation
A Business Requirement		
A.1 Market Requirement	Essential ___ Desirable ___ Supportive ___	
A.2 Regulatory Context	Essential ___ Desirable ___ Supportive ___ Not Relevant ___	
B. Related Work		
B.1 Completion/Maintenance of current standards	Yes ___ No___	
B.2 Commitment to other organization	Yes ___ No___	
B.3 Other Source of standards	Yes ___ No___	
C. Technical Status		
C.1 Mature Technology	Yes ___ No___	

C.2 Prospective Technology	Yes ___ No___	
C.3 Models/Tools	Yes ___ No___	
D. Conformity Assessment and Interoperability		
D.1 Conformity Assessment	Yes ___ No___	
D.2 Interoperability	Yes ___ No___	
E. Other Justification		

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 standardization 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 fora external to JTC 1 to which a commitment has been made by JTC for cooperation 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 standardization.

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

D. Conformity Assessment and Interoperability

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.

G2 NP Letter Ballot

VOTE ON A PROPOSED NEW WORK ITEM

ISO/IEC JTC 1 N XXXX

Date of Circulation of NP: **CCYY-MM-DD**

Date of Ballot Close: **CCYY-MM-DD**

Please return all votes and comments directly to the JTC 1/SC YY Secretariat by the due date indicated.

Proposal for a new work item on

Title

Any proposal to add a new item to the programme of work shall be voted on by correspondence, even if it has appeared in the agenda of a meeting.

A. Vote		YES	NO	Comments
Q.1	Do you accept the proposal in document JTC 1 N XXXX as a sufficient definition of the new work item? (If you have responded "NO" to the above question, you are required to comment.)	_____	_____	_____
Q.2	Do you support the addition of the new work item to the programme of work of the joint technical committee?	_____	_____	_____
B. Participation				
Q.3	Do you commit yourself to participate in the development of this new work item?	_____	_____	_____
Q.4	Are you able to offer a project editor who will dedicate his/her efforts to the advancement and maintenance of this project? (If "YES," please identify)	_____	_____	_____
C. Documentation				
Q.5	Do you have a major contribution or a reference document ready for submittal?	_____	_____	_____
Q.6	Will you have such a contribution in ninety days?	_____	_____	_____

P-member Voting: National Body _____	Date: _____	Submitted by: Name _____
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