

# ISO/IEC JTC 1/SC 32 N 0452

Date: 2000-02-15

REPLACES: --

<p><b>ISO/IEC JTC 1/SC 32</b></p> <p><b>Data Management and Interchange</b></p> <p><b>Secretariat: United States of America (ANSI)</b></p> <p><b>Administered by Pacific Northwest National Laboratory on behalf of ANSI</b></p>
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<b>DOCUMENT TYPE</b>	Other Document (Open)
<b>TITLE</b>	Proposal for a Study Period for a New Work Item (NWI for standardization work; Framework for Classification and Identification of Enterprise Objects)
<b>SOURCE</b>	Japan National Body (Hajime Horiuchi)
<b>PROJECT NUMBER</b>	
<b>STATUS</b>	Interested parties are invited to participate. Approved by SC 32 at the Santa Fe meeting 2000-01-28 Resolution 8.
<b>REFERENCES</b>	
<b>ACTION ID.</b>	FYI
<b>REQUESTED ACTION</b>	Interested parties should contact the Japan National Body for coordination
<b>DUE DATE</b>	
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available from the JTC 1/SC 32 WebSite <http://bwonotes5.wdc.pnl.gov/SC32/JTC1SC32.nsf>

\*Pacific Northwest National Laboratory (PNL) administers the ISO/IEC JTC 1/SC 32 Secretariat on behalf of ANSI

# ISO/IEC JTC 1/SC 32/WG 2 SAF023

Date: 2000-01-14

REPLACES:--

<p><b>ISO/IEC JTC 1/SC 32/WG 2</b></p> <p><b>Data Management and Interchange</b> <b>Working Group 2</b> <b>Metadata</b></p> <p><b>Secretariat: United States of America (ANSI)</b> <b>Administered by Pacific Northwest National Laboratory on behalf of ANSI</b></p>
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<b>DOCUMENT TYPE</b>	Proposed NP (proposal under review by WG)
<b>TITLE</b>	Proposal for a New Work Item (NWI for standardization work; Framework for Classification and Identification of Enterprise Objects)
<b>SOURCE</b>	Japan National Body (Hajime Horiuchi)
<b>PROJECT NUMBER</b>	
<b>STATUS</b>	For the discussion at JTC1/SC32/WG2 Santa Fe Meeting
<b>REFERENCES</b>	
<b>ACTION ID.</b>	FYI
<b>REQUESTED ACTION</b>	Initial Draft Proposal for discussion in Santa Fe
<b>DUE DATE</b>	January 27,2000
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**TITLE:** Proposal for a New Work Item (NWI for standardization work;  
Global Classification and Identification of Enterprise Objects)

**SOURCE:** IPSJ/ITSCJ, SC32/WG2, Japan

**STATUS:** Draft NWI Proposal

**ACTION:** For the discussion at JTC1/SC32/WG2 Santa Fe Meeting,

**DATE:** 01-10-2000

## 1.0 INTRODUCTION

The following documents contain the initial draft New Work Item (NWI) and supporting Annexes in compliance with ISO/IEC Directives.

Results of the discussion at Santa Fe meeting should be incorporated into the final version of the NWI. The Japan National body will then forward this NWI to JTC1 for NP ballot. With respect to Preparatory Work and Target Dates, see Annex D.

### 1.1 Restricted and Pragmatic Focus of this NWI

The draft NWI proposal has a restricted and pragmatic focus, i.e., that which is “do-able”, most useful and can be accomplished in eighteen (18) months for FCD ballot. One intends to apply the Pareto Principle, i.e., 20% of the total work required will cover 80% of a set of business requirements, to cover the remaining 20% will take 80% more work.

### 1.2 Secretariat and Project Leader/Editor

Japan is willing to provide the secretariat and project leader/editor for this NWI project using SCC Forum, assuming that the standard development work for this NWI will be conducted through electronic means.

The reinforced is that the project should be proceeded with actual products which were developed and used practically in actual communities. Also, keeping tight collaborative work with actual industrial groups or consortia.

The collaboration with following group should be investigated.

CBOP(Consortium for Business Object Promotion, Japan)  
OMG( Object Management Group)  
SCC(Supply Chain Council, US)  
VICS  
CFER  
UCC  
EAN

KCSC(Korean Consortium for Software Co,mponent promotion)

(more and more.....)

**PROPOSAL FOR A NEW WORK ITEM**

Date of presentation of proposal:  
YYYY-MM-DD  
Secretariat:  
SCC

Proposer:  
JAPAN  
ISO/IEC JTC 1 NXXXX

**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: Global Classification and Identification of Enterprise Objects**

**Scope and fields of application:**

See Annex A.2

**Purpose and justification:**

See Annex A.3

**Programme of Work:**

*If the new work item is approved, the following documents should be developed.*

\_\_\_\_\_a single International Standard more than one International Standard(expected number: )

\_\_\_\_\_a multi-part International Standard consisting of .....parts

See Annex A.4

\_\_\_\_\_an amendment or amendments to the following International Standard(s)

\_\_\_\_\_a technical report, type.....

**Relevant Document to be considered**

See Annex C

**Co-operation and liaison**

See Annex C

**Preparatory work offered with target date(s)**

See Annex D

**Signature:**

*Will the services of a maintenance agency or registration authority be required?*

*-If yes, have you identified a potential candidate?.....*

*-If yes, indicate name:.....*

*Are there any known requirements for coding?*

*-If yes, please specify on a separate page*

*Does the proposed standard concern known patented items?.....*

*-If yes, please provide full information at annex*

**Comments and recommendations of the JTC secretariat**

*(Attach a separate page as annex, if necessary,*

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

*It is proposed to assign this new item to JTC1/SC32)*

**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: Closing date for voting Signature of the JTC secretary*

**NEW WORK ITEM PROPOSAL –PROJECT ACCEPTANCE CRITERIA**

<b>Criterion</b>	<b>Validity</b>	<b>Explanation</b>
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**A Business Requirement**

A.1 Market Requirement	Essential X Desirable Supportive	(See Annexes B and C)
A.2 Regulatory Context	Essential Desirable Supportive X Not Relevant	(See Annex C)

**B. Related Work**

B.1 Completion/ Maintenance of current standards	Yes No X	(See Annex C)
B.2 Commitment to other organization	Yes X No	(See Annex C)
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	(See Annex C)

**D. Conformity Assessment and Interoperability**

D.1 Conformity Assessment	Yes X No	(See Annex D)
D.2 Interoperability	Yes X No	

**E. Other Justification**

Cultural and Linguistic Adaptability Statement

(See Annex F)

(See Annex E)

Note of 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 its 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.** Crops, bodies, or for a external to JTC1 to which a commitment has been made by JTC for cooperation and or collaboration on this NP shall be identified here.

**The collaboration with following group should be investigated.**

**CBOP(Consortium for Business Object Promotion, Japan)**

**OMG( Object Management Group)**

**SCC(Supply Chain Council, US)**

**VICS**

**CFER**

**UCC**

**EAN**

**KCSC(Korean Consortium for Software Co,mponent promotion)**

**(more and more.....)**

**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 JTC1 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 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 in 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.

#### **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.

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

# **ANNEX A- PROPOSAL FOR A NEW WORK ITEM FOR STANDARDIZATION IN THE FIELD OF “ Standardization for Categorizing and Structuring Business Objects“**

## **1.0 TITLE**

**“Global Classification and Identification of Enterprise Objects”**

## **2.0 SCOPE**

This NWI proposal is intending to initiate a new standardization activity which focuses on the standard common view to the metadata for categorizing and structuring business objects or enterprise objects, extending ISO/IEC 11179 Specifications.

The enterprise objects which consist of both information and software elements should be used in , not only the development efforts in a particular organization, but also, used in the interchanging and sharing them among different organizations by the means such as the Electronic Commerce (EC), Electronic Data Interchange (EDI).

The major issues of the standardization are as follows:

- a) reference model of component based enterprise object architecture
- b) rules and guidelines for categorizing atomic objects
- c) rules and guidelines for categorizing business function objects
- d) rules and guidelines for categorizing business function object patterns
- e) rules and guidelines for the formulation of basic business function object patterns
- f) naming and identifying principles for elements of enterprise objects.
- g) rules and guidelines for registering elements of enterprise objects.

## **3.0 PURPOSE AND JUSTIFICATION**

In the proposal, *the elements(not only data)* are classified into several conceptual layers, such as: atomic object, business function object, business function object pattern, and framework.

The proposal intends to establish a common reference model of the enterprise object architecture, relying upon those conceptual layers, categorized elements and required attributes for registry in order to identify useful and reusable enterprise objects.

Actual conformant business object components in a particular system, should be derived by materializing patterns or frameworks which may be provided by software venders with the component assembling manner or purchase & plug-in manner.

In realizing those manner, there must be common platforms, standard component interface

specifications and exchanging protocols. However, there must be also, a common architecture which enables all of system integrators, software vendors, contents vendors, and end users, locate their products in the term of the business semantics to exchange and share them, as a reference model.

The benefits of the architecture :

The architecture could be useful in both information system constructions and sharing & exchanging software components. However, following aspect of the architecture should be reinforced.

- Provide common bases for exchanging information contents among different domains and different organizations across countries.
- Provide common bases for effective evaluation mechanism of proprietary components in both software and information content, by asking for each components to declare their ingredients with specifying standard elements.
- Provide common bases for evaluating business performance of the enterprise.
- Provide common bases for effective investigation of business modeling and its change which might cause information system changes.

Those benefits are mainly brought by providing common bases for both business peoples and IT peoples.

The purpose of this NWI is to describe the rule and guidelines for identifying business objects and to categorize the elements for reusing component based business objects.

This standard applies to activities including:

- a) establish common technical infrastructure for building component based software system.
- b) promote reusing and distribution of business object component.
- c) promote standardization of atomic objects which are undefinable basic elements.
- d) promote standardization of common basic business function object pattern and framework.

#### **4.0 PROGRAMME OF WORK**

#### **5.0 RELEVANT DOCUMENTS TO BE CONSIDERED**

#### **6.0 MAINTENANCE AGENCY**

#### **ANNEX B –**

#### **ANNEX C – NWI PROPOSAL-PROJECT ACCEPTANCE CRITERIA**

##### **A. BUSINESS REQUIREMENT**

##### **A.1 MARKET REQUIREMENTS**

##### *A.1.1 ISO/IEC JTC1*



*A.1.2 OECD Ministerial Conference on Electronic Commerce Representing (Public and Private Sector Needs)*

**A.2 REGULATORY CONTEXT**

**B. RELATED WORK**

**B.1 COMPLETION/MAINTENANCE**

**B.2 COMMITMENT TO BE OTHER ORGANIZATIONS**

**B.3 OTHER SOURCES OF STANDARDS**

**C. TECHNICAL STATUS**

**D. CONFORMITY ASSESSMENT AND INTEROPERABILITY**

**D.1 CONFORMITY ASSESSMENT**

**D.2 INTEROPERABILITY**

**ANNEX D – PREPARATORY WORK AND TARGET DATES**

**PREPARATORY WORK**

**TARGET DATES**

**ANNEX E - CULTURAL AND LINGUISTIC ADAPTABILITY STATEMENT**

*ANNEX F – REQUIRED FOLLOW-UP STANDARDIZATION WORK IN SUPPORT OF ISO/IEC 14662 OPEN-EDI REFERENCE MODEL (INFORMATIVE)*

- 1. Clause 4 titled “Open-edi Reference Model” (last paragraph)*
- 2. Clause 4.1.2 Open-edi scenarios*

# ISO/IEC JTC 1/SC 32/WG 2 Nxxxx

Date: 2000-01-14

REPLACES:--

## ISO/IEC JTC 1/SC 32/WG 2

### Data Management and Interchange Working Group 2 Metadata

**Secretariat: United States of America (ANSI)**  
**Administered by Pacific Northwest national Laboratory on behalf of ANSI**

<b>DOCUMENT TYPE</b>	Working Draft
<b>TITLE</b>	Global Classification and Identification of Enterprise Objects
<b>SOURCE</b>	Hajime Horiuchi
<b>PROJECT NUMBER</b>	
<b>STATUS</b>	For consideration at SC32/WG2 meeting on 27 January 2000 in Santa Fe
<b>REFERENCES</b>	
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