ISO/IEC JTC 1/SC 32 N 1711

Date: 2008-03-12

REPLACES: —

ISO/IEC JTC 1/SC 32

Data Management and Interchange

Secretariat: United States of America (ANSI)
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DOCUMENT TYPE	Summary of Voting/Table of Replies
TITLE	Summary of Voting on ISO/IEC FDIS PAS 19504 Information technology -- Open distributed processing -- Common Warehouse Metamodel Specification Version 1.1
SOURCE	SC32 Secretariat
PROJECT NUMBER	1.32.02.
STATUS	summary of voting and comments on FDIS ballot for ISO/IEC PAS 19504 - referred by ISO CS for comment consideration and resolution. WG2 and PAS submitter OMG are requested to resolve the comments.
REFERENCES	
ACTION ID.	ACT
REQUESTED ACTION	
DUE DATE	
Number of Pages	9
LANGUAGE USED	English
DISTRIBUTION	P & L Members SC Chair WG Conveners and Secretaries

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Ballot Information

Reference	ISO/IEC DIS 19504	**Committee**	ISO/IEC JTC 1/SC 32
Edition number	1		
English title	Information technology -- Open distributed processing -- Common Warehouse Metamodel Specification Version 1.1		
French title	Technologies de l'information -- Traitement réparti ouvert -- Spécification de métamodèle d'entrepôt commun, version 1.1		
Start date	2007-07-24	**End date**	2007-12-24
Opened by ISO/CS on	2007-07-18 20:47:33	**Closed by ISO/CS on**	2007-12-26 00:00:44
Status	Closed		
Voting stage	Enquiry	**Version number**	1
Note			

Result of voting

P-Members voting: 12 in favour out of 13 = 92 % (requirement >= 66.66%)

(P-Members having abstained are not counted in this vote.)

Member bodies voting: 1 negative votes out of 15 = 7 % (requirement <= 25%)

Approved

Votes by members					
Country	**Member**	**Status**	**Approval**	**Disapproval**	**Abstention**
Australia	**SA**	**P-Member**	X		
Azerbaijan	**AZSTAND**	**P-Member**			
Belgium	**NBN**	**P-Member**			
Canada	**SCC**	**P-Member**	X		
China	**SAC**	**P-Member**	X		
Côte-d'Ivoire	**CODINORM**	**P-Member**			
Czech Republic	**CNI**	**P-Member**	X		
Denmark	**DS**	**P-Member**			X
Ecuador	**INEN**	**P-Member**			
Finland	**SFS**	**P-Member**			X
France	**AFNOR**	**P-Member**			X
Germany	**DIN**	**P-Member**			X
India	**BIS**	**P-Member**	X		
Iran, Islamic Republic of	**ISIRI**	**P-Member**	X		
Ireland	**NSAI**	**P-Member**			X
Italy	**UNI**	**P-Member**	X		
Jamaica	**BSJ**	**P-Member**			
Japan	**JISC**	**P-Member**	X		
Kazakhstan	**KAZMEMST**	**P-Member**			X
Kenya	**KEBS**	**P-Member**	X		
Korea, Republic of	**KATS**	**P-Member**	X		
Malaysia	**DSM**	**P-Member**			X
Malta	**MSA**	**P-Member**			X
Netherlands	**NEN**	**P-Member**			X
New Zealand	**SNZ**	**P-Member**			X
Nigeria	**SON**	**P-Member**			
Norway	**SN**	**P-Member**	X		
Pakistan	**PSQCA**	**P-Member**			
Philippines	**BPS**	**P-Member**			
Romania	**ASRO**	**O-Member**	X		
Russian Federation	**GOST R**	**O-Member**	X		
Saudi Arabia	**SASO**	**P-Member**			X
Singapore	**SPRING SG**	**P-Member**			X
Slovenia	**SIST**	**P-Member**			
South Africa	**SABS**	**P-Member**			X
Spain	**AENOR**	**P-Member**			

Sweden	**SIS**	**O-Member**			X
Switzerland	**SNV**	**P-Member**			X
Turkey	**TSE**	**P-Member**			X
United Kingdom	**BSI**	**P-Member**		X *	
Uruguay	**UNIT**	**P-Member**			
USA	**ANSI**	**Secretariat**	X *		
Venezuela	**FONDONORMA**	**P-Member**			
P-Member TOTALS Total of P-Members voting: 13			12	1	15
TOTALS			14	1	16
(*) A comment file was submitted with this vote					

Comments from Voters			
United Kingdom	**BSI**	**P-Member**	UnitedKingdom(BSI).doc
USA	**ANSI**	**Secretariat**	USA(ANSI).doc

Template for comments and secretariat observations

Date: 5 November 2007	Document: ISO/DIS 19504

1	2	(3)	4	5	(6)	(7)
MB[1]	**Clause No./ Subclause No./ Annex** (e.g. 3.1)	**Paragraph/ Figure/Table/ Note** (e.g. Table 1)	**Type of com-ment**[2]	**Comment (justification for change) by the MB**	**Proposed change by the MB**	**Secretariat observations** on each comment submitted
GB	Foreword		ed	"Apart from this Foreword, the text of this International Standard is identical with that for the OMG specification for CWM 1.1 (formal/03-03-02)." While true of the current document this cannot hold if changes are made to respond to NB comments.		
GB	Introduction		ed	The references to MOF and XMI should be the ISO documents, as in the Foreword		
GB	3 Normative References		ed	The references to MOF and XMI should be the ISO documents, as in the Foreword		
GB	3 Normative References		ed	A normative reference for OCL is required, because it is used in Clause 8 (and elsewhere)		
GB	3 Normative References		ed	A normative reference for ISO/IEC 9075:2003 Database language SQL is required, because it is the basis of Clause 10 (any previous edition has been superseded)		
GB	4 Abbreviations and Conventions		ed	DTD is Document Type Definition		
GB	4 Abbreviations and Conventions		ed	ODBC is Open Database Connectivity		
GB	4 Abbreviations and Conventions		ed	SQL should not be considered as an abbreviation for Structured Query Language		
GB	4 Abbreviations and Conventions		ed	SQL-92 and SQL-99 should not be used since they are no longer valid, and should NOT be described as ANSI documents		
GB	10.1 Overview		te	The referenced [SQL], the basis of this clause, is given as		

1 **MB** = Member body (enter the ISO 3166 two-letter country code, e.g. CN for China; comments from the ISO/CS editing unit are identified by **)

2 **Type of comment:** **ge** = general **te** = technical **ed** = editorial

NOTE Columns 1, 2, 4, 5 are compulsory.

1	2	(3)	4	5	(6)	(7)
MB[1]	**Clause No./ Subclause No./ Annex** (e.g. 3.1)	**Paragraph/ Figure/Table/ Note** (e.g. Table 1)	**Type of com-ment**[2]	**Comment (justification for change) by the MB**	**Proposed change by the MB**	**Secretariat observations** on each comment submitted
				SQL:1999, which is no longer valid because it has been superseded by SQL:2003		
GB	10.1 Overview		ed	The inclusion of 'indexing' as part of Relational implies that it is part of SQL, but this is not true.		
GB	10.2.4 Structured Types and Object Extensions		ed	"A structured type is defined in terms of columns" - the SQL standard defines a structured type in terms of attributes and it is totally confusing to define it in terms of columns. A column can exist only within tables and can have constraints, which are not allowed for attributes of a structured type.		
GB	10.2.4 Structured Types and Object Extension	Figure 10.5	ed	The figure does not enclose emp_t in parenthesis (..) as shown correctly in the associated text.		
GB	10.2.6 Index		te	This should make it clear that indexing is not part of SQL, and the use of SQLIndex in Figure 10.10 is entirely inappropriate.		
GB	10.2.8 Procedures		ed	It is inappropriate to use the name Procedure for referring to both procedures and functions (see 10.3.9). SQL uses the term routine for this purpose.		
GB	10.3.14 SQLDataType		te	The attribute typeNumber is not an SQL concept, and since it is described as being assigned by the owning DBMS this makes it totally useless for any exchange between different DBMSs.		
GB	10.3.15 SQLDistinctType		te	The attributes length, precision and scale should not be present, because they are exactly the same as those for the related sqlSimpleType. What should be included are the methods that can be defined for distinct types.		
GB	10.3.16 SQLIndex		te	see comment on 10.2.6		

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GB	10.3.17 SQLIndexColumn		te	see comment on 10.2.6		
GB	10.3.18 SQLParameter		te	There should be a constraint that an SQL parameter can only be of type SQLDataType		
GB	10.3.20 SQLStructuredType		te	An essential feature of SQL structured types is that they have methods, whose properties should be recorded		
GB	10.3.20 SQLStructuredType		te	The description of referencingColumn implies that only a 'column' (i.e. an attribute) of a structured type can be of a type REF, whereas any column of a table can be so.		
GB	10.4.2 ColumnRefStructuredType		te	see comment on 10.3.20		
GB	12.1 Overview		ed	"...and several examples are provided in Volume 2, Extensions, of the CWM Specification." This document is not referenced in either Clause 3 or the References Annex, and its role in this specification is not defined.		
GB	13.1 Overview		ed	"XML Schema is an ongoing activity in the W3C. As future standards are adopted by the W3C on XML Schema, this package will be revised and extended accordingly." This document is not referenced in either Clause 3 or the References Annex, and the claimed revision has clearly not occurred.		
GB	13.3.9 Schema		te	The attribute XMLNamespace (also shown in Figure 13.1) is defined as a string, but it is an XML concept described by a specification separate from the referenced [XML], and quite distinct from the CWM concept of Namespace, and so should be referenced and described appropriately.		
GB	21.5 SQL-99		ed	SQL-99 is superseded by SQL:2003 (see comment on 3), which is mainly the same except that BIT and BIT		

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NOTE Columns 1, 2, 4, 5 are compulsory.

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MB[1]	**Clause No./ Subclause No./ Annex** (e.g. 3.1)	**Paragraph/ Figure/Table/ Note** (e.g. Table 1)	**Type of com-ment**[2]	**Comment (justification for change) by the MB**	**Proposed change by the MB**	**Secretariat observations** on each comment submitted
	Data Types			VARYING data types are no longer included.		
GB	21.6 Type Mapping Examples	Table 21.3 and 21.4	te	These tables gives data types from X/Open CLI SQL, which is not referenced in either Clause 3 or the References Annex but should not be used because they should be data types defined by SQL and the mappings defined by the current version (4) of JDBC.		
GB	Annex A: References		ed	This annex should not be described as Normative, since all normative references should be in Clause 3. Some of the non-normative reference should be normative and be moved to Clause 3. All references should be to current specifications.		
GB	Annex B: Compatibility with other Standards		ed	This annex is inappropriate in this standard, but if it remains it must be non-normative because it does not provide any requirement on the application of this standard.		
GB	Annex C: Glossary		ed	This annex should not be described as Normative, since it does not provide any requirement on the application of this standard as well as being incomplete and missing or being in conflict with the terminology of other normative references, such as SQL. The reference to RM-ODP is inappropriate, not being one of the listed sources.		
GB	Annex D: Legal Information		ed	This normative annex appears to conflict with the intellectual property rights of ISO standards, and does not take account of the ISO requirement that all potential patents should be declared.		
GB	Annex F: Acknowledge ments		ed	This annex is not appropriate for an ISO standard, and cannot be normative.		

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Comments on DIS Text For: ISO/IEC 15904 Information technology — Common warehouse metamodel	Date: 2007-11-15	Document: **SC32/Nxxxx**

0	1	2	(3)	4	5	(6)	(7)
#	**NB** [1]	**Clause No./ Subclause No./ Annex**	**Paragraph/ Figure/Table/ Note #**	**Com-ment type** [2]	**Comment (justification for change) by the NB**	**Proposed change by the NB**	**Secretariat observations** on each comment submitted
1	US	Introduction, Page XVII		ed	The URLs do not work for the "three key industry standards"	Change the final / to a period in each URL.	
2	US	4		te	There is no requirement that the value "name" attribute of ModelElement correspond to the identifier (i.e., the string) of the model element.	Add requirement that the "name" actually corresponds to the identifier of the model element.	
3	US	5.4		te	The list of datatypes are incomplete.	Include all the datatypes of ISO/IEC 11404.	
4	US	5.4		te	The datatype attributes don't incorporate the features of 11404 datatype (properties, characterizing operations, value spaces). There is no way to record this kind of standard datatyping information in CWM in a standard way.	Add these features to the metamodel. Describe, in a standard way, how datatype characterizing operations would be recorded.	
5	US	5.5		te	The expressions metamodel should have the kind of syntax associated the expression (e.g., is the expression C, APL, ksh, or something else, which all have significantly different parsing and syntax.	Add the syntax type to the metamodel.	
6	US	5?		te	The 11404 datatype generator features should be included via the expressions metamodel capability.	Add datatype generators	
7	US	7 & 8		te	The record and multidimensional arrays are aggregate datatypes and the common features of 11404 aggregates should be supported.	Add features for 11404 aggregates.	
8	US	8		te	The multidimensional arrays should support the notion of APL arrays, including rank and shape attributes.	Add support for flat and nested N-dimensional arrays (not just arrays nested as arrays).	
9	US	8		te	The full set of 11404 aggregates (record, array, set, bag, sequence, etc.) should be supported.	Support the full set of 11404 aggregates.	
10	US	9		te	The XML features should support current XML data structures.	Add current technology.	

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