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ISO/IEC JTC 1/SC 32

Data Management and Interchange

Secretariat: United States of America (ANSI)

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available from the JTC 1/SC 32 WebSite http://staging.jtc1sc32.org/

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BUSINESS PLAN FOR ISO/IEC JTC 1/SC32, Data Management and Interchange

PERIOD COVERED: September 2003 to September 2004

SUBMITTED BY: Bruce Bargmeyer, Chairman JTC 1/SC 32

1. MANAGEMENT SUMMARY:

1a CHAIRMAN'S REMARKS

When plenary dates for an SC and for JTC 1 are out of phase, the SC chairman's use of this section for updating JTC 1 on SC status is required as a means to reflect developments since the business plan was approved. This section may also be used for any other remarks the chairman believes pertinent in regards to the SC's Business Plan, its projects, opportunities, risks or new initiatives.

1.1 JTC 1 SC32 STATEMENT OF SCOPE

JTC 1/ SC 32

Title: Data Management and Interchange

Area of Work: Standards for data management within and among local and distributed information systems environments. SC 32 provides enabling technologies to promote harmonization data management facilities across sector-specific areas. Specifically, SC 32 standards include:

1) reference models and frameworks for the coordination of existing and emerging standards;

2) definition of data domains, data types and data structures, and their associated semantics;

3) languages, services and protocols for persistent storage, concurrent access, concurrent update and interchange of data;

4) methods, languages, services and protocols to structure, organize and register metadata and other information resources associated with sharing and interoperability, including electronic commerce.

JTC 1/ SC 32/WG 01

Title: e-Business

Area of Work: Standardization in the field of generic information technology standards for open electronic data interchange needed to attain global interoperability among the information technology systems used by organizations. Such interoperability is viewed from both business and information technology perspectives.

Within this context the scope includes:

1 methodology and framework for identification and modelling of business activities through business scenarios and their components, such as roles, information bundles, and semantic components;

2 identification and specification of formal description techniques for describing classes of business requirements and their contextual and semantic specifications;

3 identification and specification of formal description techniques for developing business scenarios and their components;

4 identification and specification of information technology services and service interfaces for accomplishing business transactions;

5 identification and specification of facilities to manage business scenarios and their.

Note: Priority is on work required to support the needs of electronic commerce, electronic administration, electronic business, etc. The basis of work is the Open-edi Reference Model (ISO/IEC 14662). This Group will be renamed to "eBusiness".

JTC 1/ SC 32/WG 02

Title: Metadata

Area of Work: To develop and maintain standards that facilitate specification and management of metadata. Use of these standards will enhance the understanding and sharing of data, information and processes to support, for example, interoperability, electronic commerce and component-based development. The scope shall include:

a) a framework for specifying and managing metadata;

b) specification and management of data elements, structures and their associated;

c) specification and management of value domains, such as classification and code schemes;

d) specification and management of data about processes and behaviour;

e) facilities to manage metadata, for example: data dictionaries, repositories, information resource dictionary systems, registries and glossaries;

f) facilities to exchange metadata, including its semantics, over the Internet, intranets and other media.

JTC 1/ SC 32/WG 03

Title: Database Languages

Area of Work: The terms of reference of ISO/IEC JTC1/SC32/WG3 Database Languages are:

1. To develop and maintain languages for the dynamic specification, maintenance and description of database structures and contents in multi-user environments. The specifications may include the data type, behaviour and any integrity constraints on the contents of the defined structures. The specifications may include mechanisms for the creation and generation of new data types and behaviours so as to support the specification of other international standards.
2. To provide additional support for the integrity of database systems through transaction commitment, recovery, and security facilities.
3. To develop and maintain languages which provide for the storage, access and manipulation of data in database structures by multiple concurrent users. These languages may be computationally complete and may contain features for the packaging and storage of modules and procedures in database structures.
4. To provide interfaces for the languages developed to other standard programming languages.
5. To provide interfaces or access to other standards describing data types, behaviour or database content to users of the languages developed.

JTC 1/ SC 32/WG 04

Title: SQL Multimedia & Application Packages

Area of Work: To specify packages of abstract data types for use in various application areas. Specify each package of abstract data type definitions using the facilities for user-defined type provided in the Database Language SQL/Foundation. This should include packages such as Full-Text, Spatial, Still Image, Still Graphic, Animation, Full Motion Video, Audio, Seismic, and Music.

1.2 PROJECT REPORT

SC 32/WG 01 eBusiness

Active Projects

1.32.31.01.02.00 ISO/IEC CD 15944-2

Information technology - Business Agreement Semantic Descriptive Techniques Part 2: Registration of Scenarios and their Components

Target Dates: CD 2003-07 FCD 2004-12 FDIS 2005-06 IS 2005-12

1.32.31.01.03.00 ISO/IEC CD 15944-3

Information technology - Business Agreement Semantic Descriptive Techniques Part 3: Open-edi Description Techniques

Target Dates: CD 2003-08 FCD 2004-12 FDIS 2005-06 IS 2006-05

1.32.31.01.04.00 ISO/IEC CD 15944-4

Information technology - Business Agreement Semantic Descriptive Techniques Part 4: Business Transaction Scenarios - Accounting and Economic Ontology

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2005-12 IS 2006-05

1.32.31.01.05.00 ISO/IEC CD 15944-5

Information technology - Business Agreement Semantic Descriptive Techniques Part 5: Identification and Mapping of Various Categories of Jurisdictional Domains

Target Dates: CD 2003-07 FCD 2004-12 FDIS 2005-06 IS 2005-12

Published Standards

1.32.30.02.00.00 ISO/IEC 14662:2004

Information technology - Open-Edi Reference Model 2nd Edition

1.32.31.01.01.00 ISO/IEC 15944-1:2002

Information technology - Business Agreement Semantic Descriptive Techniques Part 1: Business Operational Aspects of Open-edi for Implementation

SC 32/WG 02 Metadata

Active Projects

1.32.15.02.02.00 ISO/IEC FCD 11179-2

Information technology -- Metadata Registries (MDR) - Part 2: Classification for administered items (Revision of ISO/IEC 11179-2:2000)

Target Dates: CD FCD 2004-12 FDIS 2005-12 IS 2006-06

1.32.15.02.05.00 ISO/IEC FCD 11179-5

Information Technology --Metadata Registries (MDR) - Part 5: Naming and identification principles

Target Dates: CD 2002-08 FCD FDIS 2004-08 IS 2005-06

1.32.15.02.06.00 ISO/IEC FCD 11179-6

Information Technology -- Metadata Registries (MDR) - Part 6: Registration

Target Dates: CD 2003-02 FCD FDIS 2004-08 IS 2005-06

1.32.15.03.03.00 ISO/IEC AWI 11179-3 ed3

Information technology -- Metadata Registries (MDR) - Part 3: Registry Metamodel and basic attributes 3rd Edition

Target Dates: CD 2005-06 FCD 2006-06 FDIS 2006-12 IS 2007-06

1.32.16.01.02.00 ISO/IEC WD 20943-2

Information technology - Achieving Metadata Registry Content Consistency - Part 2: XML Structured Data

Target Dates: CD 2005-06 FCD 2006-06 FDIS 2007-06 IS 2007-12

1.32.16.01.04.00 ISO/IEC AWI 20943-4

Information technology - Achieving Metadata Registry Content Consistency - Part 4: Overview

Target Dates: CD 2005-06 FCD 2006-06 FDIS 2007-12 IS 2007-12

1.32.17.01.01.00 ISO/IEC CD 20944-01

Information technology - Metadata Interoperability & Bindings (MDIB) Part 1:Framework

Target Dates: CD 2003-03 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.02.00 ISO/IEC CD 20944-02

Information technology - Metadata Interoperability & Bindings (MDIB) Part 2: Common vocabulary

Target Dates: CD 2003-03 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.03.00 ISO/IEC AWI 20944-03

Information technology - Metadata Interoperability & Bindings (MDIB) Part 3: Common Provisions for Conformance

Target Dates: CD 2004-06 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.04.00 ISO/IEC AWI 20944-04

Information technology - Metadata Interoperability & Bindings (MDIB) Part 4: Generic usage

Target Dates: CD 2004-06 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.05.00 ISO/IEC AWI 20944-05

Information technology - Metadata Interoperability & Bindings (MDIB) Part 5: Common data structures and services

Target Dates: CD 2004-06 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.06.00 ISO/IEC AWI 20944-06

Information technology - Metadata Interoperability & Bindings (MDIB) Part 6: Semi-structured aggregation

Target Dates: CD 2004-06 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.20.00 ISO/IEC AWI 20944-20

Information technology - Metadata Interoperability & Bindings (MDIB) Part 20: Common Provisions for Coding bindings

Target Dates: CD 2004-06 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.21.00 ISO/IEC AWI 20944-21

Information technology - Metadata Interoperability & Bindings (MDIB) Part 21: XML Coding Binding

Target Dates: CD 2004-06 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.22.00 ISO/IEC AWI 20944-22

Information technology -Metadata Interoperability & Bindings (MDIB) Part 22: DIVP Binding

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.23.00 ISO/IEC AWI 20944-23

Information technology - Metadata Interoperability & Bindings (MDIB) Part 23: ASN.1 Coding Binding

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.40.00 ISO/IEC AWI 20944-40

Information technology -Metadata Interoperability & Bindings (MDIB) Part 40: Common Provisions for API binding

Target Dates: CD 2004-06 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.41.00 ISO/IEC CD 20944-41

Information technology -Metadata Interoperability & Bindings (MDIB) Part 41: C API binding

Target Dates: CD 2004-06 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.42.00 ISO/IEC AWI 20944-42

Information technology -Metadata Interoperability & Bindings (MDIB) Part 42: C++ API Binding

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.43.00 ISO/IEC AWI 20944-43

Information technology - Metadata Interoperability & Bindings (MDIB) Part 43: Java API Binding

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.44.00 ISO/IEC CDI 20944-44

Information technology -Metadata Interoperability & Bindings (MDIB) Part 44:ECMA script API Binding

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.45.00 ISO/IEC AWI 20944-45

Information technology -Metadata Interoperability & Bindings (MDIB) Part 45: Perl API Binding

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.46.00 ISO/IEC AWI 20944-46

Information technology -Metadata Interoperability & Bindings (MDIB) Part 46: Lisp API Binding

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.47.00 ISO/IEC AWI 20944-47

Information technology -Metadata Interoperability & Bindings (MDIB) Part 47: PHP API binding

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.60.00 ISO/IEC AWI 20944-60

Information technology - Metadata Interoperability & Bindings (MDIB) Part 60: Common Provisions for Protocol binding overview

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-01 IS 2006-06

1.32.17.01.61.00 ISO/IEC AWI 20944-61

Information technology -Metadata Interoperability & Bindings (MDIB) Part 61: ODBC Protocol Binding

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.62.00 ISO/IEC AWI 20944-62

Information technology -Metadata Interoperability & Bindings (MDIB) Part 62: DCTP Protocol Binding

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.63.00 ISO/IEC AWI 20944-63

Information technology -Metadata Interoperability & Bindings (MDIB) Part 63: SOAP Protocol Binding

Target Dates: CD 2005-06 FCD 2006-06 FDIS 2007-06 IS 2007-12

1.32.17.01.64.00 ISO/IEC AWI 20944-64

Information technology - Metadata Interoperability & Bindings (MDIB) Part 64: WSDL Protocol Binding

Target Dates: CD 2005-06 FCD 2006-06 FDIS 2007-06 IS 2007-12

1.32.17.01.65.00 ISO/IEC AWI 20944-65

Information technology - Metadata Interoperability & Bindings (MDIB) Part 65: LDAP protocol binding

Target Dates: CD 2005-06 FCD 2006-06 FDIS 2007-06 IS 2007-12

1.32.17.01.66.00 ISO/IEC AWI 20944-66

Information technology - Metadata Interoperability & Bindings (MDIB) Part 66: JMS protocol binding

Target Dates: CD 2005-06 FCD 2006-06 FDIS 2007-06 IS 2007-12

1.32.17.01.80.00 ISO/IEC AWI 20944-80

Information technology - Metadata Interoperability & Bindings (MDIB) Part 80: Common provisions for profiles

Target Dates: CD 2004-06 FCD 2004-06 FDIS 2006-06 IS 2006-12

1.32.17.01.81.00 ISO/IEC AWI 20944-81

Information technology - Metadata Interoperability & Bindings (MDIB) Part 81: Attribute Mapping for 11179-3 MDR metamodel

Target Dates: CD 2004-06 FCD 2006-06 FDIS 2006-06 IS 2006-12

1.32.17.01.82.00 ISO/IEC AWI 20944-82

Information technology - Metadata Interoperability & Bindings (MDIB) Part 82: Profile for 11179-3 MDR metamodel

Target Dates: CD 2004-06 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.17.01.83.00 ISO/IEC AWI 20944-83

Information technology - Metadata Interoperability & Bindings (MDIB) Part 83: URI suffixes for 11179-3 MDR metamodel navigation

Target Dates: CD 2004-06 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.19.02.00.00 ISO/IEC AWI 14957

Information technology - Representation of data elements values: Notation of the format 2nd Edition

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.22.01.01.00 ISO/IEC CD 19763-01

Information technology - Framework for Metamodel interoperability Part 1: Reference model

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.22.01.02.00 ISO/IEC CD 19763-02

Information technology - Framework for Metamodel interoperability Part 2: Core (MOF/XMI extensions)

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.22.01.03.00 ISO/IEC WD 19763-03

Information technology - Framework for Metamodel interoperability Part 3: Metamodel for ontologies

Target Dates: CD 2005-06 FCD 2006-06 FDIS 2007-06 IS 2007-12

1.32.22.01.04.00 ISO/IEC WD 19763-04

Information technology - Framework for Metamodel interoperability Part 4: Metamodel for model mapping

Target Dates: CD 2005-06 FCD 2006-06 FDIS 2007-06 IS 2007-12

1.32.23.01.01.00 ISO/IEC WD 19773-01

Information Technology--Metadata registries (MDR) Module Part 1: Contact and location information module for metamodel

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.23.01.02.00 ISO/IEC WD 19773-02

Information Technology--Metadata registries (MDR) Module Part 2: Relations information module for metamodel

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.23.01.03.00 ISO/IEC WD 19773-03

Information Technology--Metadata registries (MDR) Module Part 3: Security information module for metamodel

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-06 IS 2006-12

1.32.24.01.00.00 ISO/IEC AWI 24706

Information technology-Metadata for technical standards and specifications documents

Target Dates: CD 2005-06 FCD 2006-06 FDIS 2007-06 IS 2007-12

1.32.25.01.00.00 ISO/IEC WD 24707

Information technology -- Common Logic (CL) – A Framework for a Family of Logic-Based Languages

Target Dates: CD 2005-06 FCD 2006-06 DIS 2007-06 IS 2007-12

1.32.26.01.00.00 ISO/IEC DIS 19502

Information technology - Meta Object Facility (MOF) Specification (PAS Submission)

Target Dates: CD FCD DIS 2004 IS

1.32.27.01.00.00 ISO/IEC DIS 19503

Information technology - XML Metadata Interchange (XMI) (PAS Submission)

Target Dates: CD FCD DIS 2004 IS

Published Standards

1.32.02.02.00.00 ISO TR 9007:1987

Information processing systems - Concepts and Terminology for the Conceptual Schema and the Information Base

1.32.10.02.00.00 ISO/IEC 5218:2004

Information technology - Codes for the representation of human sexes

1.32.11.01.00.00 ISO/IEC TR 9789:1994 type 3

Information technology - Guidelines for the organization and representation of data elements for data interchange - Coding methods and principles

1.32.14.02.01.00 ISO/IEC 6523-1:1998

Information technology - Structure for the identification of organizations and organization parts - Part 1: Identification of organization schemes

1.32.14.02.02.00 ISO/IEC 6523-2:1998

Information technology - Structure for the identification of organizations and organization parts - Part 2: Registration of organization identification schemes

1.32.15.01.02.00 ISO/IEC 11179-2:2000

Information technology - Specification and standardization of data elements - Part 2: Classification for data elements

1.32.15.01.05.00 ISO/IEC 11179-5:1995

Information technology - Specification and standardization of data elements - Part 5: Naming and identification principles for data elements

1.32.15.01.06.00 ISO/IEC 11179-6:1997

Information technology - Specification and standardization of data elements - Part 6: Registration of data elements

1.32.15.02.01.00 ISO/IEC 11179-1:2004

Information Technology -- Metadata Registries (MDR) - Part 1: Framework

1.32.15.02.03.00 ISO/IEC 11179-3:2003

Information technology -- Metadata Registries (MDR) - Part 3, Registry Metamodel and basic attributes

1.32.15.02.04.00 ISO/IEC 11179-4:2004

Information Technology -- Metadata Registries (MDR) - Part 4: Formulation of data definitions

1.32.16.01.01.00 ISO/IEC TR 20943-1

Information technology - Achieving Metadata Registry Content Consistency - Part 1: Data elements

1.32.16.01.03.00 ISO/IEC TR 20943-3:2004

Information technology - Achieving Metadata Registry Content Consistency - Part 3: Value Domains

1.32.19.01.00.00 ISO/IEC 14957:1996

Information technology - Representation of data elements values: Notation of the format

1.32.21.01.00.00 ISO/IEC TR 15452:2000

Information technology - Specification of Data Value Domain

1.32.40.01.00.00 ISO/IEC 10027:1990

Information technology - Information Resource Dictionary System (IRDS) Framework

1.32.41.01.00.00 ISO/IEC 10728:1993

Information technology - Information Resource Dictionary Systems (IRDS) Services Interface

1.32.41.01.00.01 ISO/IEC 10728 :1993/Amd 1:1995

Information technology - Information Resource Dictionary System (IRDS) Service Interface - Amendment 1: C Language Binding

1.32.58.01.03.00 ISO/IEC 13238-3:1998

Information technology - Data Management Export/Import Facilities - Part 3: Export/Import Facilities for IRDS

SC 32/WG 03 Database Languages

Active Projects

1.32.03.05.99.00 ISO/IEC 9075:2003/Cor 1

Information technology- Database languages - SQL - Technical Corrigendum for SQL:2003

Target Dates: CD FCD 2004-06 FDIS IS 2004-12

1.32.03.06.01.00 ISO/IEC WDI 9075-1

Information technology - Database Languages - SQL - Part 1: Framework (SQL/Framework)

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-04 IS 2006-07

1.32.03.06.02.00 ISO/IEC WD 9075-2

Information technology - Database Languages - SQL - Part 2: Foundation (SQL/Foundation)

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-04 IS 2006-07

1.32.03.06.03.00 ISO/IEC WD 9075-3

Information technology - Database Languages - SQL - Part 3: Call-Level Interface (SQL/CLI)

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-04 IS 2006-07

1.32.03.06.04.00 ISO/IEC WD 9075-4

Information technology - Database Languages - SQL - Part 4: Persistent Stored Modules (SQL/PSM)

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-04 IS 2006-07

1.32.03.06.09.00 ISO/IEC WD 9075-9

Information technology - Database Languages - SQL - Part 9: Management of External Data (SQL/MED)

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-04 IS 2006-07

1.32.03.06.10.00 ISO/IEC WD 9075-10

Information technology --Database Languages - SQL - Part 10: Object language bindings (SQL/OLB)

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-04 IS 2006-07

1.32.03.06.11.00 ISO/IEC WD 9075-11

Information technology --Database Languages - SQL - Part 11: Information and Definition Schemas (SQL/Schemata)

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-04 IS 2006-07

1.32.03.06.13.00 ISO/IEC WD 9075-13

Information technology --Database Language SQL - Part 13: SQL/JRT (for SQL:200n)

Target Dates: CD 2004-12 FCD 2005-06 FDIS 2006-04 IS 2006-07

1.32.03.06.14.00 ISO/IECWD 9075-14

Information technology --Database Language SQL - Part 14: SQL/XML

Target Dates: CD 2004-06 FCD 2004-08 FDIS 2005-08 IS 2005-12

Published Standards

1.32.01.01.00.00 ISO/IEC TR 10032:2003

Information technology - Reference Model of Data Management

1.32.03.05.01.00 ISO/IEC 9075-1:2003

Information technology - Database Languages - SQL - Part 1: Framework (SQL/Framework)

1.32.03.05.02.00 ISO/IEC 9075-2:2003

Information technology - Database Languages - SQL - Part 2: Foundation (SQL/Foundation)

1.32.03.05.03.00 ISO/IEC 9075-3:2003

Information technology - Database Languages - SQL - Part 3: Call-Level Interface (SQL/CLI)

1.32.03.05.04.00 ISO/IEC 9075-4:2003

Information technology - Database Languages - SQL - Part 4: Persistent Stored Modules (SQL/PSM)

1.32.03.05.09.00 ISO/IEC 9075-9:2003

Information technology - Database Languages - SQL - Part 9: Management of External Data (SQL/MED)

1.32.03.05.10.00 ISO/IEC 9075-10:2003

Information technology --Database Languages - SQL - Part 10: Object language bindings (SQL/OLB)

1.32.03.05.11.00 ISO/IEC 9075-11:2003

Information technology --Database Languages - SQL - Part 11: Information and Definition Schemas (SQL/Schemata)

1.32.03.05.13.00 ISO/IEC 9075-13:2003

Information technology --Database Language SQL - Part 13: SQL/JRT (for SQL:200n)

1.32.03.05.14.00 ISO/IEC 9075-14:2003

Information technology --Database Language SQL - Part 14: SQL/XML (for SQL:200n)

1.32.05.02.00.00 ISO/IEC9579:2000 ed 2

Information technology - Remote database access for SQL (RDA/SQL). Edition 2.

SC 32/WG 04 SQL Multimedia & Application Packages

Active Projects

1.32.04.02.06.00 ISO/IEC CD 13249-6

Information technology - Database languages - SQL Multimedia and Application Packages - Part 6: Data Mining 2nd ed

Target Dates: CD 2004-07 FCD 2005-05 FDIS 2005-12 IS 2006-06

1.32.04.03.01.00 ISO/IEC CDI 13249-1

Information technology - SQL Multimedia and Application Packages - Part 1: Framework 3rd ed.

Target Dates: CD 2004-07 FCD 2005-05 FDIS 2005-12 IS 2006-06

1.32.04.03.02.00 ISO/IECAWI 13249-2

Information technology - SQL Multimedia and Application Packages - Part 2: Full-Text 3rd ed.

Target Dates: CD 2005-06 FCD 2005-11 FDIS 2006-11 IS 2007-05

1.32.04.03.03.00 ISO/IEC CD 13249-3

Information technology - SQL Multimedia and Application Packages - Part 3: Spatial 3rd ed.

Target Dates: CD 2004-07 FCD 2005-05 FDIS 2005-12 IS 2006-06

1.32.04.03.05.00 ISO/IEC AWI 13249-5

Information technology - SQL Multimedia and Application Packages - Part 5: Still Image 3rd ed.

Target Dates: CD 2005-06 FCD 2005-11 FDIS 2006-11 IS 2007-05

Published Standards

1.32.04.01.06.00 ISO/IEC 13249-6:2002

Information technology - Database languages - SQL Multimedia and Application Packages - Part 6: Data Mining

1.32.04.02.01.00 ISO/IEC 13249-1:2002

Information technology - SQL Multimedia and Application Packages - Part 1: Framework 2nd ed.

1.32.04.02.02.00 ISO/IEC 13249-2:2003

Information technology - SQL Multimedia and Application Packages - Part 2: Full-Text 2nd ed

1.32.04.02.03.00 ISO/IEC 13249-3:2003

Information technology - SQL Multimedia and Application Packages - Part 3: Spatial 2nd Edition

1.32.04.02.05.00 ISO/IEC 13249-5:2003

Information technology - SQL Multimedia and Application Packages - Part 5: Still Image 2nd ed

1.3 COOPERATION AND COMPETITION

A complete listing of SC 32 liaisons is listed in the following tables. SC 32 is continually reevaluating its liaisons and assessing areas of internal and external cooperation and competition. SC 32 has requested JTC 1 to remove the liaisons that have not expressed an interest in the work of SC 32.

Internal Liaison Membership

IEC B3 JWG 15	Design Automation
ISO/IEC JTC 1/SC 2	Coded character sets
ISO/IEC JTC 1/SC 6	Telecommunications and information exchange between systems
ISO/IEC JTC 1/SC 7	Systems Engineering -ODP & Modelling Languages
ISO/IEC JTC 1/SC 7/WG 7	Software engineering/Life cycle management
ISO/IEC JTC 1/SC 22	Programming languages
ISO/IEC JTC 1/SC 22/WG 20	Programming languages/Internationalization
ISO/IEC JTC 1/SC 24	Computer Graphics and Image Processing
ISO/IEC JTC 1/SC 27	IT Security Techniques
ISO/IEC JTC 1/SC 34	Document Description and Processing Languages
ISO/IEC JTC 1/SC 35	User Interfaces
ISO/IEC JTC 1/SC 36	Information Technology for Learning, Education & Training
ISO/IEC JTC 1/SC 37	Biometrics
ISO/TC 37	Terminology (principles and coordination)
ISO/TC 37/SC 2	Terminology and other language resources - Terminography and Lexicography
ISO/TC 37/SC 3	Terminology/Computer Applications
ISO/TC 37/SC 4	Terminology and other language resources
ISO/TC 46	Information and documentation
ISO/TC 46/SC 4	Information and documentation/Computer applications
ISO/TC 46/SC 11	Archives / Records Management
ISO/TC 46/WG 2	Information and documentation/Coding of country names and related entities
ISO/TC 68/SC 2	Banking, securities and other financial services/ Security management
ISO/TC 127/WG 2	Mobile construction machinery - Work-site data exchange
ISO/TC 154	Documents and data elements in administration, commerce and industry
ISO/TC 184	Industrial automation systems and integration
ISO/TC 184/SC 4	Industrial automation systems and integration/ Industrial data
ISO/TC 204	Transport Information and Control Systems
ISO/TC 211	Geographic information/Geomatics
ISO/TC 215	Healthcare Informatics

External Liaison Membership Category - A

INTELSAT	International Telecommunications Satellite Organization
ITU	International Telecommunication Union - Telecommunication Standardization Sector
UN/ECE	UN/Economic Commission for Europe/CEFACT

External Liaison Membership Category - B

CISAC	International Confederation of Societies of Authors and Composers
SWIFT	Society for Worldwide Interbank Financial Telecommunication
WMO	World Metrological Organization

External Liaison Membership Category - C

DCMI	Dublin Core Metadata Initiative
Eurostat	Eurostat
IEEE LTSC	Learning Technology Standards Committee
OECD	Organisation for Economic Co-operation and Development
OGC	Open GIS Consortium
OMG	Object Management Group
W3C	World Wide Web Consortium

2.0 PERIOD REVIEW

Excellent progress has been made in developing SQL, SQL MM, RDA, Open-Edi, Metadata Registry standards, and we expect that progress to continue in the future. Excellent progress has been made in developing SQL. The remaining parts of the SQL:2003 standards have been completed. An aggressive schedule for the next complete revision of ISO/IEC 9075 has been set with a target end date of fall 2006.

2.1 MARKET REQUIREMENTS

Market requirements for SC 32 standards are driven by the rapid pace of hardware and software advancement as well as by the explosive growth of World Wide Web/Internet/Intranet/Extranet applications. These drive a stream of market requirements that are addressed by SC 32 standards for data management and interchange, including metadata management. The data management market continues to grow rapidly in line with the geometric increase in the volume of data stored and served.

An SC 32 study period has found an increasing market demand for semantics management. This is needed for data in databases, EDI messages, text in documents (which may be stored in databases), the semantic web, etc. While there are several ISO standards for various terminology content and structure, there is little connection between those standards and their potential use for data management and interchange. SC 32 is exploring the market requirements for semantics management and potential extensions to existing standards in order to articulate and then fill the unmet need.

Users are driving the market demand for metadata registries that describe the structure and meaning data. Major organizations are implementing metadata registries according to SC 32 standards and in the process are creating demand for extensions and broader coverage. This work is especially driven by the public access requirements of users and by market forces requiring the capability to share metadata between organizations.

The market demand for SQL database products remains strong. The clear acceptance of the SQL:2003 standards by the database vendors is very encouraging. The development of new parts and new features within the 9075 family of standards continues to be driven by perceived market priorities; the effort applied and the scheduling of the various parts has been adjusted accordingly.

Market demand of EDI and electronic commerce products grows as firms struggle to move into the electronic marketplace. Standards for EDI functions are necessary to facilitate this demand. The SC 32 work related to Open edi work and metadata registries is supporting JTC 1 involvement with the ISO IEC UN/ECE MoU Management Group.

Each part of SQL/MM standards is based on explicit requirements from a domain market. Especially, SQL/MM Part 2: Spatial specifying Spatial Data Management received much attention from TC 204, TC 211, and OGC (Open GIS Consortium) and is being developed under close coordination with TC 211 and OGC. Thus, we believe that our standards meet real market requirements.

2.2 ACHIEVEMENTS

The following projects have completed or are in Stage 5 – Publication

1.32.10.02.00.00 ISO/IEC 5218:2004
Information technology - Codes for the representation of human sexes

1.32.15.02.01.00 ISO/IEC 11179-1:2004
Information Technology -- Metadata Registries (MDR) - Part 1: Framework

1.32.15.02.04.00 ISO/IEC 11179-4:2004
Information Technology -- Metadata Registries (MDR) - Part 4: Formulation of data definitions

1.32.30.02.00.00 ISO/IEC 14662:2004
Information technology - Open-Edi Reference Model 2nd Edition

1.32.16.01.03.00 ISO/IEC TR 20943-3:2004
Information technology - Achieving Metadata Registry Content Consistency - Part 3: Value Domains

The following projects are completing Stage 4 – Approval Stage by being submitted to ITTF for final vote.

1.32.26.01.00.00 ISO/IEC DIS 19502
Information technology - Meta Object Facility (MOF) Specification

1.32.27.01.00.00 ISO/IEC DIS 19503
Information technology - XML Metadata Interchange (XMI)

1.32.15.02.06.00 ISO/IEC FCD 11179-6
Information Technology -- Metadata Registries (MDR) - Part 6: Registration

The following project completed Stage 3 – Committee Stage with FCD ballot

1.32.03.05.99.00 ISO/IEC 9075:2003/Cor 1
Information technology- Database languages - SQL - Technical Corrigendum for SQL:2003

The following project progressing Stage 3 – Committee Stage with FCD ballot

1.32.15.02.02.00 ISO/IEC FCD 11179-2
Information technology -- Metadata Registries (MDR) - Part 2: Classification for administered items

1.32.15.02.05.00 ISO/IEC FCD 11179-5
Information Technology --Metadata Registries (MDR) - Part 5: Naming and identification principles

The following project is progressing in Stage 3 – Committee Stage

1.32.03.06.14.00 ISO/IEC CD 9075-14

Information technology --Database Language SQL - Part 14: SQL/XML

1.32.04.03.03.00 ISO/IEC CD 13249-3

Information technology - SQL Multimedia and Application Packages - Part 3: Spatial 3rd ed.

1.32.04.02.06.00 ISO/IEC CD 13249-6

Information technology - Database languages - SQL Multimedia and Application Packages - Part 6: Data Mining 2nd ed

1.32.31.01.02.00 ISO/IEC CD 15944-2

Information technology - Business Agreement Semantic Descriptive Techniques Part 2: Registration of Scenarios and their Components

1.32.31.01.03.00 ISO/IEC CD 15944-3

Information technology - Business Agreement Semantic Descriptive Techniques Part 3: Open-edi Description Techniques

1.32.31.01.04.00 ISO/IEC CD 15944-4

Information technology - Business Agreement Semantic Descriptive Techniques Part 4: Business Transaction Scenarios - Accounting and Economic Ontology

1.32.31.01.05.00 ISO/IEC CD 15944-5

Information technology - Business Agreement Semantic Descriptive Techniques Part 5: Identification and Mapping of Various Categories of Jurisdictional Domains

1.32.22.01.01.00 ISO/IEC CD 19763-01

Information technology - Framework for Metamodel interoperability Part 1: Reference model

1.32.22.01.02.00 ISO/IEC CD 19763-02

Information technology - Framework for Metamodel interoperability Part 2: Core (MOF/XMI extensions)

1.32.17.01.01.00 ISO/IEC CD 20944-01

Information technology - Metadata Interoperability & Bindings (MDIB) Part 1:Framework

1.32.17.01.02.00 ISO/IEC CD 20944-02

Information technology - Metadata Interoperability & Bindings (MDIB) Part 2: Common vocabulary

1.32.17.01.03.00 ISO/IEC CD 20944-03

Information technology - Metadata Interoperability & Bindings (MDIB) Part 3: Common Provisions for Conformance

1.32.17.01.20.00 ISO/IEC CD 20944-20

Information technology - Metadata Interoperability & Bindings (MDIB) Part 20: Common Provisions for Coding bindings

1.32.17.01.40.00 ISO/IEC CD 20944-40

Information technology - Metadata Interoperability & Bindings (MDIB) Part 40: Common Provisions for API binding

1.32.17.01.41.00 ISO/IEC CD 20944-41

Information technology - Metadata Interoperability & Bindings (MDIB) Part 41: C API binding

1.32.17.01.44.00 ISO/IEC CD 20944-44

Information technology - Metadata Interoperability & Bindings (MDIB) Part 44:ECMA script API Binding

2.3 RESOURCES

Adequate resources are currently available for all projects. SC 32 actively seeks and recruits new participants. A new WG 3 Convener will be needed after April 2005.

3.0 FOCUS NEXT WORK PERIOD

SC 32 has refined its program of work to ensure that it is focusing on those standards that will meet market requirements. SC 32 plans to continue to focus on developing standards for SQL, SQL/MM, eBusiness and data semantics. SQL work is expected to be particularly active. The metadata registry market is very active, driving rapid development of all parts of ISO/IEC 11179.

Database Languages (WG 3) work is active with the focus on a completely revised set of ISO/IEC 9075 parts as well as two new parts addressing more Java support and XML support. WG 3 has assumed some of the projects from the former WG 5.

The eBusiness Working Group ((WG 1) is concentrating on the second part of ISO/IEC 15944: Information technology - Business Agreement Semantic Descriptive Techniques Part 2: Registration of Scenarios and their Components, and the fourth part of ISO/IEC 15944: Information technology - Business Agreement Semantic Descriptive Techniques Part 4: Business Transactions and Scenarios – Accounting and Economic Ontologyand ISO/IEC 18038 Identification, mapping and IT-enablement of existing standards for widely used encodable value domains. A key characteristic of commerce world-wide is that it makes extensive use of enumerated lists, code sets, etc. representing possible choices of common aspects in business transactions. The problem is that most of these code sets in use world-wide are paper-based and, even if available in electronic form, lack a computer-processable version. The objective of this standardization work is (1) the development of a tool to facilitate the creation of IT-enabled versions of existing sets of “codes representing X”, and (2) to do so, in a manner which will support localization and multilingual requirements of the marketplace.

The Metadata Working Group (WG 2) is progressing with revisions to the ISO/IEC 11179 family of metadata registry standards. Technical reports on metadata registry content are progressing. The content TR addresses the exchange of metadata among ISO/IEC 11179-based registries that depends not only on standard-conforming software, but also on contents that are compatible across registries. The goal of this project is to produce Technical Reports that will promote a common understanding of the content of metadata registry data elements so that they can be shared among registries. The intent is to provide guidance by example in registering data elements. WG 2 is working to demonstrate use of XML for accessing and interchanging information in 11179 conformant data registries. We expect that specific XML tags and data structures will be algorithmically derived from the normative UML data model specified in 11179 part 3. Work is also underway to foster interoperation between ISO/IEC 11179 metadata registries, XML registries, Universal Description, Discovery and Integration (UDDI) registries, database catalogs, ontology registries and CASE tool repositories.

The WG 2 work is positioned to meet the deeper semantic management aspects of data management and interchange. This includes provision of semantics for the semantic web and management of XML schemas, tags, classification schemes, and associated metadata.

WG 2 sponsors an annual Open Forum on Metadata Registries. The seventh was held in Xi'an, China during 2004 with 150 people attending. The eighth will be held in Berlin, Germany in 2004 in partnership with ISO/TC 37.

3.1 DELIVERABLES:

See section 1.2 for those projects with upcoming target dates.

3.2 STRATEGIES:

SC 32 is focused on progressing its program of work as quickly and efficiently as possible. It is important that the committee keep its focus on meeting market requirements, and emphasize new projects that have well-defined, concrete objectives that are market driven.

SC 32 empowers its WGs by delegating everything that can be delegated to a WG, per JTC 1 directives, along with the relevant authority and responsibility. The SC does not impose any additional management overhead. SC 32 Plenary meetings accomplish those tasks required by the JTC 1 directives in as brief a time as possible. Only an opening and closing plenary are held with less than a half-day duration, each. Discussions are invited during a tutorial meeting and anytime outside of Plenary. All contentious issues are identified in advance and groups appointed to resolve the issue and prepare a recommendation before the Plenary. This strategy is intended to make the WGs as productive as their members can be.

SC32 maintains extensive contact with software developers and users to keep in close alignment with market forces.

The Working Groups continue to utilize electronic editing meeting in order to progress the work as fast as possible.

3.2.1 RISKS

SC 32 is the result of JTC 1 creating a new Technical Direction on Data Management and Interchange, and is a combination of three committees with different traditions, work programs and personalities. Each of these three groups had their own priorities, and different strategies for achieving their objectives. Considerable progress was made in identifying and establishing critical inter- and intra-group understanding and liaisons. Some progress is being made on developing new standards that cut across the original organizational lines. Considerable effort is being given to avoid isolated work within the WGs. At current SC 32 meetings, each WG gives a tutorial on its work to the full committee.

There is always the risk that new project could be initiated that does not have clear objectives and concrete specifications. If this occurs, SC 32 would dilute its focus and might create incentive to produce important standards outside of SC 32 and JTC 1.

Overlapping scope of projects is an area that needs to be continually monitored and controlled. Changes in market requirements and ability to schedule plenary sessions at the appropriate moment may cause some perturbation in the work schedules.TC 211 is progressing OGC's Simple Feature Access SQL (SFA SQL). SFA SQL can be regarded as mere subset of SQL/MM Part 2: Spatial. Their aim is quick adaptation of SFA SQL specification under current DBMS environments. The next edition of SFA SQL should coincide with SQL/MM Part 2. However, if we lose technology leadership, we may lose control. Therefore, rapid development of the next edition is crucial factor of future success.

If SC 32 does not pursue its work aggressively, risks exist that essential capabilities will not be available in the marketplace to support important functions, or that the marketplace will produce multiple incompatible solutions in areas that common approaches and interoperability are essential to users.

The delegation of authority and responsibility to the WGs stands in contrast to the working of some of the SC/WG relationships that came into SC 32. This management style makes some participants uncomfortable, since it limits discussion time in Plenary meetings. There is a risk of missing some viewpoints that might be expressed in longer Plenary meetings.

SC 32 continues to have funding support problems for the Secretariat. Funds have been provided in limited increments without any long-term provision for continuation.

Other standards bodies are very active in areas related to SC 32 standards. SC 32 must be nimble to maintain its relevance and leadership.

3.2.2 OPPORTUNITIES

The Internet, electronic commerce, the semantic webt, object technologies, and XML represent major areas of opportunity where market forces are creating demand for SC 32 standards. We will continue to work with the others involved to identify the specific standardization needs and to respond with current and newly proposed standards.

XML represents a major area of opportunity where market forces are creating demand for standards and SC 32 is continually monitoring the work in this area and will react as soon as it sees and appropriate opportunity.

3.3 WORK PROGRAMME PRIORITIES

Each WG establishes work programme priorities in their project plan, which is approved in the SC 32 Plenary. These can be seen in the material, above. For example, high priority is given to the standardization of an integrated/interoperable information processing environment.

The SC has established a priority of educating each working group about the work and ideas of the other work groups. The prior SC 32 meetings have shown that there is considerable interest in the synergy that can be developed within the committee. The next SC 32 meeting will again include tutorials from each work group.

4.0 PERFORMANCE

JTC 1/SC 32 Performance (as of 2002-09-01)

SC 32 METRIC	1997	1998	1999	2000	2001	2002	2003	2004
Attendance at Meetings [1, 7]	**N/A**	**47[6]**	**57**	**73**	**62**	**53**	**47[9]**	**47**
New Standards Published [2]	**2**	**4**	**8**	**4**	**5**	**1**	**5**	**5**
Total Standards Published [3]	**N/A**	**23**	**31**	**28**	**34**	**41**	**43**	**37**
Active Projects [4]	**N/A**	**40**	**42**	**38**	**44**	**77**	**64**	**67**
New Projects [5]	**N/A**	**0**	**4**	**4**	**0**	**13[8]**	**3**	**0**

[1]Average Meeting Attendance at Plenaries and Working Groups
(where a plenary include a meeting of all working groups – if working groups do not meet during plenary meetings, a cumulative mean attendance to working group meeting should be used) **(Att. Plena**.)

[2]New Standards published **(NSP**)

[3]Total standards published (and currently valid) **(TSP**)

[4]Active projects **(AP**)

[5]New projects introduced (**NP**)

[6]This does not include the first Planning meeting of JTC 1/SC 32 in February 1998

[7]At the National Body level the Working Groups are obtaining considerable participation with electronic participation

[8]Project splits waiting justification then JTC 1 approval

[9]Plus 250 attendees at the Open Forum on Metadata Registries, held concurrent with the SC 32 meetings, The attendance number does not include several Open Forum attendees who are also SC 32 participants at the National Body level, but who were unable to remain a second week for the SC 32 meetings.