

ISO/IEC JTC 1/SC 32 N 0523

Date: 2000-09-08

REPLACES: --

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

DOCUMENT TYPE	Secretariat Report
TITLE	SC 32 Secretariat Report - September 2000
SOURCE	SC 32 Secretariat
PROJECT NUMBER	
STATUS	This is the SC 32 Secretariat Report for presentation at the SC 32 Helsinki Meeting
REFERENCES	
ACTION ID.	FYI
REQUESTED ACTION	
DUE DATE	
Number of Pages	33
LANGUAGE USED	English
DISTRIBUTION	P & L Members SC Chair WG Conveners and Secretaries

Douglas Mann, Secretariat, ISO/IEC JTC 1/SC 32

Pacific Northwest National Laboratory *, 901 D Street, SW., Suite 900, Washington, DC, 20024-2115, United States of America

Telephone: +1 703 575 2114; Facsimile: +1 703 681 9180; E-mail: MannD@battelle.org

available from the JTC 1/SC 32 WebSite <http://www.jtc1sc32.org/>

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

ISO/IEC JTC 1/SC 32 Secretariat Report

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

PERIOD COVERED: September 1999 to August 2000

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 of 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/RG 01

Title: Reference Model for Data Management Maintenance

Area of Work: Maintenance of ISO/IEC 10032, Reference Model of Data Management, and enhancements to it as may be required by SC 32.

JTC 1/SC 32/RG 02

Title: Export/Import Maintenance

Area of Work: To develop and maintain standards that facilitate the interchange of data and metadata using stream-based media. Use of these standards will facilitate the definition of export/import services within, and the sharing of data and metadata between data management environments. These standards do not specify a transfer mechanism, and the interchange format is environment independent. The scope currently includes:

- a) a standardization framework for establishing Export/Import concepts, facilities, requirements, and components candidate for standardization;
- b) specification of Export/Import services for SQL-based data management environments, and IRDS-based metadata management environments;
- c) specification of a transfer format for the interchange of data between SQL-based data management environments;

d) specification of a transfer format for the interchange of data between IRDS-based metadata management environments.

JTC 1/SC 32/WG 01

Title: Open-edi

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 components.

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).

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 semantics;
- 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: 1. To develop and maintain languages for the dynamic specification, maintenance and description of database structures and contents in multi-user and multi-server environments. The specifications may include the data types, behaviours 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 develop and maintain languages that 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.

3. To provide interfaces for the languages developed to other standard programming languages.

4. To provide interfaces or access to other standards describing data types, behaviours 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.

JTC 1/SC 32/WG 05

Title: Database Access and Interchange

Area of Work: Standards to facilitate interworking of applications and databases that may be located on different sites. These standards relate principally to communications and management data. They are complementary to and dependent on standards for database languages. The activities include the analysis of distributed database applications and requirements, definition of system models, communication APIs and protocols for interworking between client systems and one or more server systems; the systems may be on different hardware, with software from different suppliers.

1.2 PROJECT REPORT

SC 32/RG 01 Reference Model for Data Management Maintenance

1.32.01.01.00.00 ISO/IEC 10032:1995
Information technology - Reference Model of Data Management

SC 32/RG 02 Export/Import Maintenance

1.32.58.01.01.00 ISO/IEC CD 13238-1
Information technology - Data Management Export/Import Facilities - Part 1: Standardization Framework
Target Dates: CD 1997-09 FCD 2000-02 DIS 2000-11 IS 2001-09

1.32.58.01.02.00 ISO/IEC CD 13238-2
Information technology - Data Management Export/Import Facilities - Part 2: SQL Export/Import
Target Dates: CD 1997-09 FCD 2000-10 DIS 2001-04 IS 2001-09

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 01 Open-edi

- 1.32.31.01.01.00 ISO/IEC CD 15944-1
 Information technology - Business Agreement Semantic Descriptive Techniques Part 1: Business Operational Aspects of Open-edi for Implementation
 Target Dates: CD 1999-09 FCD 2000-12 DIS 2001-12 IS 2002-06
- 1.32.31.01.02.00 ISO/IEC AWI 15944-2
 Information technology - Business Agreement Semantic Descriptive Techniques Part 2: Registration of Scenarios and their Components
 Target Dates: CD 2000-06 FCD 2001-06 DIS 2002-09 IS 2003-03
- 1.32.31.01.03.00 ISO/IEC AWI 15944-3
 Information technology - Business Agreement Semantic Descriptive Techniques Part 3: Open-edi Description Techniques
 Target Dates: CD 2000-12 FCD 2001-06 DIS 2002-09 IS 2003-03
- 1.32.32.01.00.00 ISO/IEC AWI 17414
 Information technology - Open-Edi Support Services
 Target Dates: CD 2001-06 FCD 2001-12 DIS 2002-09 IS 2003-03
- 1.32.30.01.00.00 ISO/IEC 14662:1997
 Information technology - Open-Edi Reference Model

SC 32/WG 02 Metadata

- 1.32.10.02.00.00 ISO/IEC AWI 5218
 Information technology - Representation of human sexes (Revision of ISO 5218:1977)
 Target Dates: CD 2000-05 FCD 2000-05 DIS 2001-03 IS 2001-08
- 1.32.13.01.00.00 ISO/IEC FDIS 14481
 Information technology - Conceptual Schema Modelling Facilities
 Target Dates: CD 1996-11 FCD 1999-09 DIS 2000-10 IS 2000-04
- 1.32.15.02.03.00 ISO/IEC CD 11179-3
 Information technology - Specification and standardization of data elements - Part 3: Basic attributes of data elements (Revision of ISO/IEC 11179-3:1994)
 Target Dates: CD 2000-05 FCD 2000-05 DIS 2000-09 IS 2000-12
- 1.32.16.01.00.00 ISO/IEC PDTR 20943
 Information technology - Procedure for Achieving Data Registry Content Consistency - Data Elements
 Target Dates: CD 2000-05 FCD DIS IS
- 1.32.17.01.00.00 ISO/IEC AWI 20944
 Information technology - Metadata Query Service an Object Technology Extension
 Target Dates: CD FCD DIS IS
- 1.32.18.01.00.00 ISO/IEC NP 18022
 Information technology - Identification, Mapping and IT-enablement of Existing Standards for Widely Used Encodeable Value Domains
 Target Dates: CD 2000-12 FCD 2001-05 DIS 2001-11 IS 2002-05
- 1.32.20.01.00.00 ISO/IEC AWI 18038
 Information technology - Identification and Mapping of Various Categories of Jurisdictional Domains
 Target Dates: CD FCD DIS IS

- 1.32.42.01.00.00 ISO/IEC FDIS 13645
Information technology - Guidelines for the Design of IRDS Content Modules
Target Dates: CD FCD 1995-01 DIS 2000-07 IS 2000-11
- 1.32.02.02.00.00 ISO TR 9007:1987
Information processing systems - Concepts and Terminology for the Conceptual Schema and the Information Base
- 1.32.10.01.00.00 ISO 5218:1977
Information interchange - 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
- 1.32.15.01.01.00 ISO/IEC 11179-1:1999
Information technology - Specification and standardization of data elements - Part 1: Framework for the specification and standardization of data elements
- 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
- 1.32.15.01.03.00 ISO/IEC 11179-3:1994
Information technology - Specification and standardization of data elements - Part 3: Basic attributes of data elements
- 1.32.15.01.04.00 ISO/IEC 11179-4:1995
Information technology - Specification and standardization of data elements - Part 4: Rules and guidelines for the formulation of data definitions
- 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
- 1.32.19.01.00.00 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
- 1.32.41.01.00.02 ISO/IEC 10728 :1993/Amd 2:1996
Information technology - Information Resource Dictionary System (IRDS) Service Interface - Amendment 2: Ada language binding
- 1.32.41.01.00.03 ISO/IEC 10728 :1993/Amd 3:1998
Information technology - Information Resource Dictionary System (IRDS) Service Interface - Amendment 3: CORBA IDL Binding
- 1.32.41.01.00.04 ISO/IEC 10728 :1993/Amd 4:1998
Information technology - Information Resource Dictionary System (IRDS) Service Interface - Amendment 4: Remote Procedure Call IDL Binding

SC 32/WG 03 Database Languages

- 1.32.03.04.01.01 ISO/IEC FDAM 9075 : Amd 1
Information technology- Database languages SQL - Amendment 1: SQL/OLAP (for SQL:1999)
Target Dates: CD FCD 1999-11 DIS 2000-08 IS 2000-12
- 1.32.03.04.09.00 ISO/IEC FCD 9075-9
Information technology - Database Language SQL - Part 9: Management of External Data
Target Dates: CD 1998-12 FCD 1999-09 DIS 2000-09 IS 2001-01
- 1.32.03.04.10.00 ISO/IEC FDIS 9075-10
Information technology --Database Language SQL - Part 10: Object language bindings (for SQL:1999)
Target Dates: CD FCD 1998-10 DIS 2000-04 IS 2000-08
- 1.32.03.04.99.00 ISO/IEC 9075:1999/Cor 1
Information technology- Database languages - SQL - Technical Corrigendum 1 for SQL:1999
Target Dates: CD FCD DIS 2000-03 IS 2000-07
- 1.32.03.05.01.00 ISO/IECAWI 9075-1
Information technology - Database Language SQL - Part 1: Framework (for SQL:200n)
Target Dates: CD 2001-01 FCD 2001-08 DIS 2002-06 IS 2002-10
- 1.32.03.05.02.00 ISO/IEC AWI 9075-2
Information technology - Database Language SQL - Part 2: Foundation (for SQL:200n)
Target Dates: CD 2001-01 FCD 2001-08 DIS 2002-06 IS 2002-10
- 1.32.03.05.03.00 ISO/IEC AWI 9075-3
Information technology - Database Language SQL - Part 3: Call-Level Interface (for SQL:200n)
Target Dates: CD 2001-01 FCD 2001-08 DIS 2002-06 IS 2002-10
- 1.32.03.05.04.00 ISO/IEC AWI 9075-4
Information technology - Database Language SQL - Part 4: Persistent Stored Modules (for SQL:200n)
Target Dates: CD 2001-01 FCD 2001-08 DIS 2002-06 IS 2002-10

- 1.32.03.05.07.00 ISO/IEC AWI 9075-7
Information technology - Database Language SQL - Part 7: Temporal (for SQL:200n)
Target Dates: CD 2001-11 FCD 2001-11 DIS 2002-08 IS 2002-12
- 1.32.03.05.09.00 ISO/IEC AWI 9075-9
Information technology - Database Language SQL - Part 9: Management of External Data (for SQL:200n)
Target Dates: CD 2001-02 FCD 2001-08 DIS 2002-06 IS 2002-10
- 1.32.03.05.10.00 ISO/IEC AWI 9075-10
Information technology --Database Language SQL - Part 10: Object language bindings (for SQL:200n)
Target Dates: CD 2001-01 FCD 2001-08 DIS 2002-06 IS 2002-10
- 1.32.03.05.11.00 ISO/IEC AWI 9075-11
Information technology --Database Language SQL - Part 11: Schemata (for SQL:200n)
Target Dates: CD 2001-01 FCD 2001-08 DIS 2002-06 IS 2002-10
- 1.32.03.05.12.00 ISO/IEC AWI 9075-12
Information technology --Database Language SQL - Part 12: Replication (for SQL:200n)
Target Dates: CD 2001-05 FCD 2001-11 DIS 2002-08 IS 2002-12
- 1.32.03.04.01.00 ISO/IEC 9075-1:1999
Information technology - Database Language SQL - Part 1: Framework
- 1.32.03.04.02.00 ISO/IEC 9075-2:1999
Information technology - Database Language SQL - Part 2: Foundation (SQL:1999)
- 1.32.03.04.03.00 ISO/IEC 9075-3:1999
Information technology - Database Language SQL - Part 3: Call-Level Interface
- 1.32.03.04.04.00 ISO/IEC 9075-4:1999
Information technology - Database Language SQL - Part 4: Persistent Stored Modules
- 1.32.03.04.05.00 ISO/IEC 9075-5:1999
Information technology - Database Language SQL - Part 5: Language Bindings

SC 32/WG 04 SQL Multimedia & Application Packages

- 1.32.04.01.01.00 ISO/IEC FDIS 13249-1
Information technology - SQL Multimedia and Application Packages - Part 1: Framework
Target Dates: CD FCD 1998-10 DIS 2000-04 IS 2000-07
- 1.32.04.01.05.00 ISO/IEC FCD 13249-5
Information technology - SQL Multimedia and Application Packages - Part 5: Still Image
Target Dates: CD 1997-07 FCD 1999-06 DIS 2000-03 IS 2000-10
- 1.32.04.01.06.00 ISO/IEC AWI 13249-6
Information technology - SQL Multimedia and Application Packages - Part 6: Data Mining
Target Dates: CD 2000-12 FCD 2001-07 DIS 2002-04 IS 2002-08
- 1.32.04.02.01.00 ISO/IEC AWI 13249-1
Information technology - SQL Multimedia and Application Packages - Part 1: Framework 2nd ed.

Target Dates: CD 2001-05 FCD 2001-11 DIS 2002-09 IS 2002-12

1.32.04.02.02.00 ISO/IEC AWI 13249-2
Information technology - SQL Multimedia and Application Packages - Part 2: Full-Text (Revision of ISO/IEC DIS 13249-2) (Later Progression)

Target Dates: CD 2001-05 FCD 2001-11 DIS 2002-09 IS 2002-12

1.32.04.02.03.00 ISO/IEC WD 13249-3
Information technology - SQL Multimedia and Application Packages - Part 3: Spatial (Revision of ISO/IEC DIS 13249-3) (Later Progression)

Target Dates: CD 2001-05 FCD 2001-11 DIS 2002-09 IS 2002-12

1.32.04.01.02.00 ISO/IEC 13249-2:2000
Information technology - SQL Multimedia and Application Packages - Part 2: Full -Text

1.32.04.01.03.00 ISO/IEC 13249-3:1999
Information technology - SQL Multimedia and Application Packages - Part 3: Spatial

SC 32/WG 05 Database Access and Interchange

1.32.05.03.00.00 ISO/IEC FCD 9579 edition 3
Information technology - Remote database access for SQL (RDA/SQL) - Edition 3 (for SQL 1999)

Target Dates: CD FCD 1998-09 DIS 1999-10 IS 2000-06

1.32.05.03.00.01 ISO/IEC CD 9579 ed 3 amd 1
Information technology - Remote Database Access for SQL: XML Encoding Amendment to Edition 3

Target Dates: CD 2000-10 FCD 2001-04 DIS 2001-10 IS 2002-02

1.32.05.03.00.02 ISO/IEC CD 9579 ed 3 amd 2
Information technology - Remote Database Access for SQL: Support for SQL/MED Amendment 2 to Edition 3

Target Dates: CD 2000-10 FCD 2001-04 DIS 2001-10 IS 2002-02

1.32.05.04.00.00 ISO/IEC CD 9579 ed 4
Information technology - Remote Database Access for SQL: (RDA/SQL). Edition 4

Target Dates: CD 2000-10 FCD 2001-04 DIS 2001-10 IS 2002-02

1.32.53.01.02.00
Information technology - Data Management and Interchange – Authorization and Audit

Target Dates: CD FCD DIS IS

1.32.53.01.03.00 ISO/IEC CD 9579 Amd 2
Information technology - Data Management and Interchange - Distribution Schema for RDA

Target Dates: CD 2000-05 FCD 2001-12 DIS 2002-08 IS 2002-12

1.32.53.01.04.00 ISO/IEC 9579/AWI Amd 3
Information technology - Data Management and Interchange - Encompassing Transaction

Target Dates: CD 2000-10 FCD 2001-04 DIS 2001-10 IS 2002-02

1.32.05.02.00.00 ISO/IEC9579:2000 ed 2
Information technology - Remote database access for SQL (RDA/SQL). Edition 2.

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

CEN/ISSS EC	Information Society Standardization System
CEN/ISSS MM	Information Society Standardization System
CEN/TC 310 AMT	Advanced Manufacturing Technologies
IEC 93	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	Software Engineering
ISO/IEC JTC 1/SC 7/WG 11	Software engineering/Life cycle management
ISO/IEC JTC 1/SC 22	Programming languages
ISO/IEC JTC 1/SC 22/JSG	Programming languages/Java Study Group
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 29	Coding of audio, picture, multimedia and hypermedia information
ISO/IEC JTC 1/SC 31	Automatic identification and data capture techniques
ISO/IEC JTC 1/SC 34	Document Description and Processing Languages
ISO/IEC JTC 1/SC 36	Learning Technology
ISO/TC 12	Quantities, units, symbols, conversion factors
ISO/TC 23/SC 19	Tractors and Machinery for agriculture and forestry/Agricultural electronics
ISO/TC 37	Terminology (principles and coordination)
ISO/TC 37/SC 3	Terminology/Computer Applications
ISO/TC 46	Information and documentation
ISO/TC 46/SC 3	Information and documentation/ Terminology
ISO/TC 46/SC 4	Information and documentation/Computer applications
ISO/TC 46/WG 2	Information and documentation/Coding of country names and related entities
ISO/TC 68	Banking, securities and other financial services
ISO/TC 68/SC 2	Banking, securities and other financial services/ Security management
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
ISBT	International Society of Blood Transfusion
ITU-T	International Telecommunication Union - Telecommunication Standardization Sector
SITA	Societe Internationale de Telecommunications Aeronautiques (Airline Telecommunications & Information)
UN/ECE/CEFACT	UN/Economic Commission for Europe/CEFACT
UNCTAD	United Nations Conference of Trade and Development

External Liaison Membership Category - B

CEPT	European Conference of Postal and Telecommunications Administrations
CERN	European Organization for Nuclear Research
CISAC	International Confederation of Societies of Authors and Composers
ECMA	An International Europe-based Industry Association for Standardizing Information and Communications
ESA	European Space Agency
ETDE	Energy Technology Data Exchange
EWICS	European Workshop on Industrial Computer Systems
IFIP	International Federation for Information Processing
IPTC	International Press Telecommunications Council
SWIFT	Society for Worldwide Interbank Financial Telecommunication

UNESA
UPU
WIPO
WMO

UN-Under-Secretary for Economic and Social Affairs
Universal Postal Union
World Intellectual Property Organization
World Metrological Organization

External Liaison Membership Category - C

EXPERTNET/SA	ExpertnetSA MEDSEC (Health Care Security and Privacy in the Information Society)
OG	Open Group
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:1999 standards have reached at least FCD status. An aggressive schedule for the next complete revision of ISO/IEC 9075 has been set with a target end date of 1st quarter 2003.

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 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 line with the geometric increase in the volume of data stored and served. Technologies such as XML provide some competition to SC 32 standards, but also offer large opportunities to reach new markets by accommodating the new technologies or by taking a lead in collaborative development of the new technologies. SC 32 members are deeply involved in development of W3C XML recommendations (e.g., XML-Schema and XML-Query) and it would be desirable to position SC 32 as the appropriate JTC 1 committee for progressing these W3C recommendations to become ISO standards.

An SC 32 study period is finding 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), 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 the 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 new SQL:1999 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 has got much attention from TC 204, TC 211, and OGC (Open GIS Consortium) and developed under closed coordination with TC 211 and OGC. Thus we believes that our standards meets with real market requirements.

2.2 ACHIEVEMENTS

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

1.32.15.01.01.00 ISO/IEC 11179-1:1999 Information technology - Specification and

standardization of data elements - Part 1: Framework for the specification and standardization of data elements

- 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
- 1.32.04.01.03.00 ISO/IEC 13249-3:1999 Information technology - SQL Multimedia and Application Packages - Part 3: Spatial
- 1.32.03.04.01.00 ISO/IEC 9075-1:1999 Information technology - Database Language SQL - Part 1: Framework
- 1.32.03.04.02.00 ISO/IEC 9075-2:1999 Information technology - Database Language SQL - Part 2: Foundation (SQL:1999)
- 1.32.03.04.03.00 ISO/IEC 9075-3:1999 Information technology - Database Language SQL - Part 3: Call-Level Interface
- 1.32.03.04.04.00 ISO/IEC 9075-4:1999 Information technology - Database Language SQL - Part 4: Persistent Stored Modules
- 1.32.03.04.05.00 ISO/IEC 9075-5:1999 Information technology - Database Language SQL - Part 5: Language Bindings
- 1.32.21.01.00.00 ISO/IEC TR 15452:2000 Information technology - Specification of Data Value Domain

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

- 1.32.04.01.01.00 ISO/IEC FDIS 13249-1 Information technology - SQL Multimedia and Application Packages - Part 1: Framework
- 1.32.04.01.02.00 ISO/IEC FDIS 13249-2 Information technology - SQL Multimedia and Application Packages - Part 2: Full -Text
- 1.32.03.04.01.01 ISO/IEC FDAM 9075 : Amd 1 Information technology- Database languages SQL - Amendment 1: SQL/OLAP (for SQL:1999)
- 1.32.03.04.10.00 ISO/IEC FDIS 9075-10 Information technology --Database Language SQL - Part 10: Object language bindings (for SQL:1999)

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

- 1.32.04.01.05.00 ISO/IEC FCD 13249-5 Information technology - SQL Multimedia and Application Packages - Part 5: Still Image

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

- 1.32.03.04.09.00 ISO/IEC FCD 9075-9 Information technology - Database Language SQL - Part 9: Management of External Data
- 1.32.03.04.99.00 ISO/IEC 9075:1999/Cor 1 Information technology- Database languages - SQL - Technical Corrigendum 1 for SQL:1999
- 1.32.05.03.00.00 ISO/IEC FCD 9579 edition 3 Information technology - Remote database access for SQL (RDA/SQL) - Edition 3 (for SQL 1999)
- 1.32.03.04.01.01 ISO/IEC FPDAM 9075 : Amd 1 Information technology- Database languages SQL - Amendment 1: SQL/OLAP (for SQL:1999)

The following project is progressing in Stage 3 – Committee Stage

- 1.32.31.01.01.00 ISO/IEC CD 15944-1 Information technology - Business Agreement Semantic Descriptive Techniques Part 1: Business Operational Aspects of Open-edi for Implementation
- 1.32.53.01.03.00 ISO/IEC CD 9579 Amd 2 Information technology - Data Management and Interchange - Distribution Schema for RDA
- 1.32.15.02.03.00 ISO/IEC CD 11179-3 Information technology - Specification and standardization of data elements - Part 3: Basic attributes of data elements (Revision of ISO/IEC 11179-3:1994)
- 1.32.16.01.00.00 ISO/IEC PDTR 20943 Information technology - Procedure for Achieving Data Registry Content Consistency - Data Elements

2.3 RESOURCES

Adequate resources are currently available for all Database Languages (WG 3) projects. Some Metadata (WG 2) project require new project editors.

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, Open edi and data semantics. SQL work is expected to be particularly active. During the next period, four parts of ISO/IEC 9075 (SQL 3) are expected to be completed through the IS stage with publication, another part of ISO/IEC 9075 will progress to FCD and significant progress on other parts is also expected. In addition a new project for another part of 9075 is anticipated to be initiated. The metadata registry market is becoming active with implementations of ISO/IEC 11179. The January 2000 SC 32/WG 2 meeting included an Open Forum on Metadata Registries presenting the current ISO/IEC 11179 standards and implementations while gathering information and requirements for future extensions. SQL work remains particularly active. During the next period, two further parts of ISO/IEC 9075 (SQL) are expected to be completed up to the FDIS stage. In addition a Technical Corrigendum for the existing parts is expected to complete up to the IS stage with publication. This will complete work on project 1.32.03.04.

The Open-Edi (WG 1) is concentrating on their ISO/IEC 15944-1 Information technology - Business Agreement Semantic Descriptive Techniques Part 1: Business Operational Aspects of Open-edi for Implementation and 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 the metadata registries with revisions to the ISO/IEC 11179 family of metadata registry standards. Part 3 of ISO/IEC 11179, sent out for CD ballot, is being revised to incorporate a structure of a metadata registry. The existing content of Part 3 will be updated and presented as a minimum set of attributes required for conformance. This project is being undertaken in response to the 5 year review requested by ISO/IEC. A technical report on metadata registry content is progressing through CD ballot. 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 a Technical Report 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 intends to recommend using 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. The Object Management Group (OMG) has already adopted a standard for XMI (XML Model Interchange), which we expect to recommend as one mechanism for such algorithmic derivation of XML representation from UML models.

3.1 DELIVERABLES:

See section 1.2 for those projects with upcoming target dates.

3.2 STRATEGIES:

SC 32 will focus 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 emphasise new projects that have well-defined, concrete objectives that are market driven.

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. During the first two meetings, SC 32 successfully formulated a new working structure, scope and title. Considerable progress was made in identifying and establishing critical inter- and intra-group understanding and liaisons. While the first priority of the participants was to progress the standards proposals that came into the re-engineered SC 32, current attention has turned to developing new standards that cut across the original organizational lines. Considerable effort is being given to avoid isolated work within the WGs. At each subcommittee meeting each WG gives a tutorial on its work to the full committee.

There is always the risk that new project could be initiated that do not have clear objectives and concrete specifications. If this occurs, SC 32 will dilute its focus and 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 now 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.

3.2.2 OPPORTUNITIES

The Internet, electronic commerce, semantics management, 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

In order to specify precisely data semantics, users need many aspects of data or information. As various aspects of data are provided, users can narrow down the semantics or meaning of the data gradually. That naturally leads to standardization, which covers a very wide range of information processing. High priority, therefore, should be given to the standardization of integrated information processing environment. The committee 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.

The work program priorities for WG3 are the completion of project 1.32.03.04 followed by project 1.32.03.05. Within this project priority will be given to the revision of those parts of SQL which formed part of the 1.32.03.04 project and then to the 2 new parts 7 and 12.

4.0 PERFORMANCE

JTC 1/SC 32 Performance (as of 2000-08-01)

SC 32 METRIC	1997	1998	1999	2000	2001
Attendance at Meetings ^{1,7}	N/A	47 ⁶	57	73	
New Standards	2	4	8	4	

Published ²					
Total Standards Published ³	N/A	23	31	28	
Active Projects ⁴	N/A	40	42	38	
New Projects ⁵	N/A	0	4	4	

¹Average 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.**)

²New Standards published (**NSP**)

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

⁴Active projects (**AP**)

⁵New projects introduced(**NP**)

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

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

Part 2 SC 32 Secretariat Report

2.1 P- and O-members and liaisons with other international organizations;

Participating National Body

Category / National Body	Organization	Web Link
Australia	SAA	www.standards.com.au
Belgium	IBN	www.ibn.be
Brazil	ABNT	www.abnt.org.br
Canada	SCC	www.scc.ca
China	CSBTS	www.csbts.cn.net
Czech Republic	COSMT	www.csni.cz
Denmark	DS	www.ds.dk
Finland	SFS	www.sfs.fi
France	AFNOR	www.afnor.fr
Germany	DIN	www.din.de
Italy	UNI	www.unicei.it
Japan	JISC	www.aist.go.jp/jisc/htm/jisc00.htm www.jisc.org/
Korea, Republic of	KNITQ	www.nitq.go.kr
Netherlands, The	NNI	www.nni.nl
Norway	NSF	www.standard.no www.nts.no/it
United Kingdom	BSI	www.bsi.org.uk
USA	ANSI	www.ansi.org

Observer National Body

Category / National Body	Organization	Web Link
Austria	ASI	www.on-norm.at
Russian Federation	GOST R	www.gost.ru
Sweden	ITS	www.sis.se

JTC 1/SC 32 Internal Liaisons

ISO/IEC or CEN	Organization	Topic	Date Confirmed
Liaison from SC 32	Liaison to SC 32	E-Mail	
CEN/ISSS EC	Information Society Standardization System Luc Van den Berghe	Electronic Commerce	1998-10-15 luc.vandenbergh@cenorm.be
CEN/ISSS MM	Information Society Standardization System Luc Van den Berghe	Metadata for Multimedia	1998-10-15 luc.vandenbergh@cenorm.be
CEN/TC 310 AMT	Advanced Manufacturing Technologies Paul Leadbeater	Data	paul_leadbeater@bsi.org.uk
IEC 93	Design Automation Greg Ledenbach		greg.w.ledenbach@intel.com
ISO/IEC JTC 1/SC 2 Kohji Shibano (WG 4)	Coded character sets Toshiko Kimura	Coded character sets	1998-10-16 kimura@itscj.ipsj.or.jp
ISO/IEC JTC 1/SC 6	Telecommunications and information exchange between systems Jean Shildneck	ASN.1	jshildne@ansi.org
ISO/IEC JTC 1/SC 7 Mike Newton	Software Engineering Jean-Norman Drouin	ODP Enterprise Viewpoint Reference Model (RM-ODP) sc7@qc.bell.ca	
ISO/IEC JTC 1/SC	Software engineering/Life cycle management	Data definition and	

DRAFT SC 32 BUSINESS PLAN

	Jean Berube (RG2)	Jean Berube	representation jberube@ibm.net	
ISO/IEC JTC 1/SC 22	Programming languages Frank Farance (WG2)	Isak Korn	isak@image.dk	1998-10-15
ISO/IEC JTC 1/SC	Programming languages/Java Study Group Frank Farance (WG2)	Bob Mathis	Java bob@pithecanthropus.com	1998-10-15
ISO/IEC JTC 1/SC	Programming languages/Internationalization Jim Melton (WG3)	Arnold Winkler	Internationalization arnold.winkler@unisys.com	1998-10-15
ISO/IEC JTC 1/SC 24	Computer Graphics and Image Processing Open (WG4)	Mr Carlson		
ISO/IEC JTC 1/SC 27	IT Security Techniques Bruce Catley (WG5)	Krystyna Passia	IT Security Techniques passia@ni.din.de	
ISO/IEC JTC 1/SC 29	Coding of audio, picture, multimedia and hypermedia information	Narumi Hirose	hirose@itscj.ipsj.or.jp	1999-10-21
ISO/IEC JTC 1/SC 31	Automatic identification and data capture techniques Sandra K. Paul (WG1)	Maria Schneider	mschneider@mail.uc-council.org	1999-01-21
ISO/IEC JTC 1/SC 34	Document Description and Processing Languages Mike Brough (WG 2)		SGML masonjd@ornl.gov	
ISO/IEC JTC 1/SC 36	Learning Technology Frank Farance (WG 2)	Frank Farance	Learning technology & Registry	
ISO/TC 12	Quantities, units, symbols, conversion factors		anders.j.thor@stg.se	
ISO/TC 23/SC 19	Tractors and Machinery for agriculture and forestry/Agricultural electronics		zen_lav@vdma.org	
ISO/TC 37	Terminology (principles and coordination) Jake Knoppers (WG1)	Mrs C Galinski, ON Austria	Firmapost@nsf.telemax.no	
ISO/TC 37/SC 3	Terminology/Computer Applications	Mr. Gottfried Herzog, DIN German	Herzog@NABD.DIN.DE	
ISO/TC 46	Information and documentation	Mrs. E. Lechner, DIN Germany	LECHNER@NABD.DIN.DE	1998-10-30
ISO/TC 46/SC 3	Information and documentation/ Terminology		isiri.infoc@neda.net	1998-10-30
ISO/TC 46/SC 4	Information and documentation/Computer applications	Pat Harris (NISO)	pharris@cni.org	
ISO/TC 46/WG 2	Information and documentation/Coding of country names and related entities		Documents received thru TC 46	1998-10-30
ISO/TC 68	Banking, securities and other financial services		cfuller@aba.com	
ISO/TC 68/SC 2	Banking, securities and other financial services/ Security management			

cfuller@aba.com

ISO/TC 154	Documents and data elements in administration, commerce and industry	Basic Semantic Repository Hennig@NBUE.DIN.DE
ISO/TC 184	Industrial automation systems and integration Mrs. Christine Hermetet-Filez, AFNOR France	Christine.hermetet-filez@email.afnor.fr
ISO/TC 184/SC 4	Industrial automation systems and integration/ Industrial data Mrs. Christine Hermetet-Filez, AFNOR France	sc4sec@cme.nist.gov
ISO/TC 204	Transport Information and Control Systems Andy Schoka (WG2) Paul Scarponcini (WG4)	Transportation, Spatial, & Registry 1998-10-15 arlan@sae.org / jbrandt@sae.org
ISO/TC 211	Geographic information/Geomatics Martin Ford (WG2) John Herring Martin Ford (WG4)	Geographic Information 19981016 Bjornhild.Saeteroy@nts.no /
ISO/TC 215	Healthcare Informatics Robert Mayes (WG2) Catharine Allan	Healthcare Informatics callan@astm.org

JTC1/SC 32 External Liaisons

Organization		Topic E-mail	Date Confirmed
Category : A	Liaison from SC 32	Liaison to SC 32	
Category : A	Liaisons		
INTELSAT	International Telecommunications Satellite Organization Tokuo Oishi Colin Amor	colin.amor@intelsat.int	19981026
ISBT	International Society of Blood Transfusion WG 2		
ITU-T	International Telecommunication Union - Telecommunication Standardization Sector Wolfgang Wolleber	Conceptual Schema Modelling tsbedh@itu.int	
SITA	Societe Internationale de Telecommunications Aeronautiques (Airline Telecommunications & Information)		
UN/ECE/CEFACT	UN/Economic Commission for Europe/CEFACT Klaus-Dieter Naujok		
UNCTAD	United Nations Conference of Trade and Development		
Category : B	Liaisons		
Category : B	Liaisons		
CEPT	European Conference of Postal and Telecommunications Administrations		
CERN	European Organization for Nuclear Research		
CISAC	International Confederation of Societies of Authors and Composers Dominique Yon	Cisac@cisac.org	19981202
ECMA	An International Europe-based Industry Association for Standardizing Information and Communications		

DRAFT SC 32 BUSINESS PLAN

ESA	European Space Agency		
ETDE	Energy Technology Data Exchange	Debbie_cutler@ccmail.osti.gov	
EWICS	European Workshop on Industrial Computer Systems		
IFIP	International Federation for Information Processing	www.ifip.or.at	
IPTC	International Press Telecommunications Council		
SWIFT	Society for Worldwide Interbank Financial Telecommunication Jacques Littré	jacques.littre@swift.com	19981130
UNESA	UN-Under-Secretary for Economic and Social Affairs		
UPU	Universal Postal Union		
WIPO	World Intellectual Property Organization		
WMO	World Metrological Organization		19981210
Category : C	Liaisons		
EXPERTNET/SA	ExpertnetSA MEDSEC (Health Care Security and Privacy in the Information Society)	nickt@expertnet.hol.gr	
OG	Open Group		
OGC	Open GIS Consortium Mark Ashworth (WG 4) Kurt Buehler Paul Scarponcini (WG 4) Martin Ford	SQL Spatial Extentions Kurt@opengis.org	19981016
OMG	Object Management Group Hajime Horiuchi (WG2) Henry Lowe	Object Management henry@omg.org	19981106
W3C	World Wide Web Consortium Bruce Bargmeyer (WG 2) Paul Cotton (WG 3) Paul Cotton (WG 4) Jake Knoppers (WG 2)	XML & Dublin Core	19981201

2.2 SC 32 Organization

SC 32 Data Management and Interchange

Standards for data management within and among local and distributed information systems environments. SC 32 provides enabling technologies to promote harmonization of 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.

Web : <http://www.jtc1sc32.org>

News Email : SC32-news@nist.gov

Ftp :

SC 32/WG 01 Open-edi

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 components.

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).

Web : <http://www.tieke.fi/sc32wg1>

News Email :

Ftp :

SC 32/WG 02 Metadata

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 semantics;
- 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

Web : www.metadata.aihw.gov.au

News Email : SC32WG2-news@nist.gov

Ftp : <ftp://www.sdct.itl.nist.gov/x318/sc32wg2>

SC 32/WG 03 Database Languages

1. To develop and maintain languages for the dynamic specification, maintenance and description of database structures and contents in multi-user and multi-server environments. The specifications may include the data types, behaviours 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 develop and maintain languages that 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.

3. To provide interfaces for the languages developed to other standard programming languages.

4. To provide interfaces or access to other standards describing data types, behaviours or database content to users of the languages developed.

Web :

News Email :

Ftp : ftp://jerry.ece.umassd.edu/SC32/WG3

SC 32/WG 04 SQL Multimedia & Application Packages

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.

Web :

News Email :

Ftp :

SC 32/WG 05 Database Access and Interchange

Standards to facilitate interworking of applications and databases that may be located on different sites. These standards relate principally to communications and management data. They are complementary to and dependent on standards for database languages. The activities include the analysis of distributed database applications and requirements, definition of system models, communication APIs and protocols for interworking between client systems and one or more server systems; the systems may be on different hardware, with software from different suppliers.

Web : www.sc32wg5.freemove.co.uk

News Email :

Ftp :

SC 32/RG 01 Reference Model for Data Management Maintenance

Maintenance of ISO/IEC 10032, Reference Model of Data Management, and enhancements to it as may be required by SC 32.

Web :

News Email :

Ftp :

SC 32/RG 02 Export/Import Maintenance

To develop and maintain standards that facilitate the interchange of data and metadata using stream-based media. Use of these standards will facilitate the definition of export/import services within, and the sharing of data and metadata between data management environments. These standards do not specify a transfer mechanism, and the interchange format is environment independent.

The scope currently includes:

- a) a standardization framework for establishing Export/Import concepts, facilities, requirements, and components candidate for standardization;
- b) specification of Export/Import services for SQL-based data management environments, and IRDS-based metadata management environments;
- c) specification of a transfer format for the interchange of data between SQL-based data management environments;
- d) specification of a transfer format for the interchange of data between IRDS-based metadata management environments.

Web :

News Email :

Ftp :

2.3 SC32 Projects

SC/WG Project Project Title	Project Editor	ISO/IEC Design Document			Reference Document	
		NP TARGET ACTUAL	CD TARGET ACTUAL	FCD TARGET ACTUAL	FDIS TARGET ACTUAL	IS TARGET ACTUAL
SC 32/RG 01 Reference Model for Data Management Maintenance						
SC 32/RG 01 1.32.01.01.00.00 Information technology - Reference Model of Data Management	Schnarr, Rick [17995 / 60.60]	ISO/IEC 10032:1995				FDIS Published 1995-05 IS 1995-05
SC 32/RG 02 Export/Import Maintenance						
SC 32/RG 02 1.32.58.01.01.00 Information technology - Data Management Export/Import Facilities - Part 1: Standardization Framework	Berube, Jean [29940 / 30.20]	ISO/IEC CD 13238-1				SC 32 N0018 FCD expected 2000-02 2000-11 2001-09
SC 32/RG 02 1.32.58.01.02.00 Information technology - Data Management Export/Import Facilities - Part 2: SQL Export/Import	*to be defined* [29941 / 30.20]	ISO/IEC CD 13238-2				SC 32 N0019 FCD expected 2000-10 2001-04 2001-09
SC 32/RG 02 1.32.58.01.03.00 Information technology - Data Management Export/Import Facilities - Part 3: Export/Import Facilities for IRDS	Wilcox, Terry [21473 / 60.60]	ISO/IEC 13238-3:1998				SC 32 N10899 Published 1998-12 1996-01 1998-11 1997-06 1999-03
SC 32/WG 01 Open-edi						
SC 32/WG 01 1.32.31.01.01.00 Information technology - Business Agreement Semantic Descriptive Techniques Part 1: Business Operational Aspects of Open-edi for Implementation	Levine, Paul [33322 / 30.60]	ISO/IEC CD 15944-1				N0495 CD Ballot closes 2000-10-11 2001-12 2002-06
SC 32/WG 01 1.32.31.01.02.00 Information technology - Business Agreement Semantic Descriptive Techniques Part 2: Registration of Scenarios and their Components	Levine, Paul [33324 / 20.00]	ISO/IEC AWI 15944-2				CD expected 2000-06 2002-09 2003-03
SC 32/WG 01 1.32.31.01.03.00 Information technology - Business Agreement Semantic Descriptive Techniques Part 3: Open-edi Description Techniques	Levine, Paul [33325 / 20.00]	ISO/IEC AWI 15944-3				CD expected 2000-12 2002-09 2003-03
SC 32/WG 01 1.32.32.01.00.00 Information technology - Open-Edi Support Services	*to be defined* [20953 / 20.00]	ISO/IEC AWI 17414				CD expected 2001-06 2002-09 2003-03
SC 32/WG 01 1.32.30.01.00.00 Information technology - Open-Edi Reference Model	Pelkonen, Hannu [25154 / 60.60]	ISO/IEC 14662:1997				Published 1997-12 1997-12
SC 32/WG 02 Metadata						
SC 32/WG 02	*to be defined*	ISO TR 9007:1987				

DRAFT SC 32 BUSINESS PLAN

1.32.02.02.00.00 [16549 / 60.60]				Published 1987-07
Information processing systems - Concepts and Terminology for the Conceptual Schema and the Information Base				1987-07
SC 32/WG 02 Gradwell, David	ISO/IEC 10027:1990			Published 1990-06
1.32.40.01.00.00 [17985 / 90.93]				1990-06
Information technology - Information Resource Dictionary System (IRDS) Framework				
SC 32/WG 02 Bourne, Tim	ISO/IEC 10728:1993			Published 1993-04
1.32.41.01.00.00 [18821 / 90.93]				1993-04
Information technology - Information Resource Dictionary Systems (IRDS) Services Interface				
SC 32/WG 02 Gradwell, David	ISO/IEC 10728 :1993/Amd 1:1995			Published 1995-12
1.32.41.01.00.01 [24341 / 60.60]				1995-12
Information technology - Information Resource Dictionary System (IRDS) Service Interface - Amendment 1: C Language Binding				
SC 32/WG 02 Colket, William	ISO/IEC 10728 :1993/Amd 2:1996			Published 1996-11
1.32.41.01.00.02 [24342 / 60.60]				1996-11
Information technology - Information Resource Dictionary System (IRDS) Service Interface - Amendment 2: Ada language binding				
SC 32/WG 02 Gradwell, David	ISO/IEC 10728 :1993/Amd 3:1998			Published 1996-12
1.32.41.01.00.03 [27123 / 60.60]				1996-12
Information technology - Information Resource Dictionary System (IRDS) Service Interface - Amendment 3: CORBA IDL Binding				
SC 32/WG 02 Horiuchi, Hajini	ISO/IEC 10728 :1993/Amd 4:1998			Published 1998-05
1.32.41.01.00.04 [28052 / 60.60]				1998-02 1998-08
Information technology - Information Resource Dictionary System (IRDS) Service Interface - Amendment 4: Remote Procedure Call IDL Binding		1996-05 1996-08		1997-03 1998-08
SC 32/WG 02 Gradwell, David	ISO/IEC FDIS 13645			SC 32 N10940
1.32.42.01.00.00 [21852 / 40.60]				IS text awaited
Information technology - Guidelines for the Design of IRDS Content Modules		1995-01 1996-08		2000-07 2000-11
SC 32/WG 02 *to be defined*	ISO/IEC 6523-1:1998			Published 1998-12
1.32.14.02.01.00 [25773 / 60.60]				1999-06
Information technology - Structure for the identification of organizations and organization parts - Part 1: Identification of organization schemes				1997-06 1998-12
SC 32/WG 02 *to be defined*	ISO/IEC 6523-2:1998			Published 1998-12
1.32.14.02.02.00 [25774 / 60.60]				1999-06
Information technology - Structure for the identification of organizations and organization parts - Part 2: Registration of organization identification schemes				1997-06 1998-12
SC 32/WG 02 Newton, Judith	ISO/IEC TR 15452:2000			32N0228
1.32.21.01.00.00 [27695 / 60.60]				Published 2000-02-15
Information technology - Specification of Data Value Domain		1998-01 1999-05		1999-12 2000-05 1998-09 2000-02
SC 32/WG 02 Hunter, David	ISO 5218:1977			Published 1977-09
1.32.10.01.00.00 [11219 / 90.92]				1977-09
Information interchange - Representation of human sexes				
SC 32/WG 02 Hunter, David	ISO/IEC AWI 5218			CD expected May 2000
1.32.10.02.00.00 [31365 / 20.00]				2001-03 2001-08
Information technology - Representation of human sexes (Revision of ISO 5218:1977)		1998-07 2000-05 2000-05		

DRAFT SC 32 BUSINESS PLAN

SC 32/WG 02	*to be defined*	ISO/IEC TR 9789:1994 type 3						
1.32.11.01.00.00	[17651 / 60.60]							Published 1994
Information technology - Guidelines for the organization and representation of data elements for data interchange - Coding methods and principles								
								1994-12
SC 32/WG 02	Thienot, Alain	ISO/IEC 14957:1996						Published 1996-12
1.32.19.01.00.00	[2365 / 60.60]							
Information technology - Representation of data elements values: Notation of the format								
SC 32/WG 02	Gillman, Dan	ISO/IEC 11179-1:1999						SC 32 N0243
1.32.15.01.01.00	[2349 / 60.60]							Published 1999-12-01
Information technology - Specification and standardization of data elements - Part 1: Framework for the specification and standardization of data elements								
			1997-11	1998-11	1999-02	1999-03	1999-04	1999-06 1999-12
SC 32/WG 02	Bargmeyer, Bruce	ISO/IEC 11179-2:2000						SC 32 N0245
1.32.15.01.02.00	[2317 / 60.60]							Published 2000-03
Information technology - Specification and standardization of data elements - Part 2: Classification for data elements								
			1997-09	1998-03	1999-02	1999-03	1999-03	1998-12 2000-03
SC 32/WG 02	Christensen, Joe	ISO/IEC 11179-3:1994						Published 1994-12
1.32.15.01.03.00	[19184 / 90.92]							
Information technology - Specification and standardization of data elements - Part 3: Basic attributes of data elements								
								1994-12
SC 32/WG 02	Christensen, Joe	ISO/IEC CD 11179-3						CD Ballot closes 2000-10-04
1.32.15.02.03.00	[31367 / 20.20]							
Information technology - Specification and standardization of data elements - Part 3: Basic attributes of data elements (Revision of ISO/IEC 11179-3:1994)								
			1998-07	2000-05	2000-05	2000-05	2000-09	2000-12
SC 32/WG 02	Bargmeyer, Bruce	ISO/IEC 11179-4:1995						Published 1995-07
1.32.15.01.04.00	[23788 / 60.60]							
Information technology - Specification and standardization of data elements - Part 4: Rules and guidelines for the formulation of data definitions								
								1995-06
SC 32/WG 02	Newton, Judith	ISO/IEC 11179-5:1995						Published 1995-12
1.32.15.01.05.00	[1758 / 60.60]							
Information technology - Specification and standardization of data elements - Part 5: Naming and identification principles for data elements								
								1995-06
SC 32/WG 02	Ngo, Phong	ISO/IEC 11179-6:1997						Published 1997-04
1.32.15.01.06.00	[1677 / 60.60]							
Information technology - Specification and standardization of data elements - Part 6: Registration of data elements								
								1997-04
SC 32/WG 02	Newton, Judith	ISO/IEC PDTR 20943						PDTR ballot closes 2000-09-29
1.32.16.01.00.00	[/ 10.00]							
Information technology - Procedure for Achieving Data Registry Content Consistency - Data Elements								
			2000-05					
SC 32/WG 02	*to be defined*	ISO/IEC AWI 20944						NWI
1.32.17.01.00.00	[/ 10.00]							
Information technology - Metadata Query Service an Object Technology Extension								
			2000-10					
SC 32/WG 02	Knoppers, Jake	ISO/IEC NP 18022						CD expected 2000-12
1.32.18.01.00.00	[33055 / 20.00]							
Information technology - Identification, Mapping and IT-enablement of Existing Standards for Widely Used								
			2000-12	2001-05		2001-11		2002-05

DRAFT SC 32 BUSINESS PLAN

Encodeable Value Domains

SC 32/WG 02	Knoppers, Jake	ISO/IEC AWI 18038				
1.32.20.01.00.00	[/ 20.00]					
Information technology - Identification and Mapping of Various Categories of Jurisdictional Domains						
SC 32/WG 02	King, Martin	ISO/IEC FDIS 14481			SC 32 N0171	
1.32.13.01.00.00	[22785 / 40.60]				Proposed to withdraw if FDIS not ready by	
Information technology - Conceptual Schema Modelling Facilities						
		1996-11	1999-09	2000-10	2000-04	
		1997-01	1998-12			

SC 32/WG 03 Database Languages

		NP	CD	FCD	FDIS	IS
SC 32/WG 03	Cannan, Stephen	ISO/IEC 9075:1999/Cor 1				32N0431
1.32.03.04.99.00	[/]				DCOR ballot closes 2000-05-15	2000-07
Information technology- Database languages - SQL - Technical Corrigendum 1 for SQL:1999						
SC 32/WG 03	Cannan, Stephen	ISO/IEC 9075-1:1999				SC 32 N0222
1.32.03.04.01.00	[26196 / 90.92]				Published 1999-11-15	
Information technology - Database Language SQL - Part 1: Framework						
				1996-06	1999-03	1999-07
				1997-09	1999-03	1999-11
SC 32/WG 03	Melton, Jim	ISO/IEC FDAM 9075 : Amd 1				32N0379
1.32.03.04.01.01	[/]				FDAM snt to ITTF 2000-08-30	
Information technology- Database languages SQL - Amendment 1: SQL/OLAP (for SQL:1999)						
				1999-11	2000-08	2000-12
				1999-11	2000-08	
SC 32/WG 03	Cannan, Stephen	ISO/IEC 9075-2:1999				SC 32 N0223
1.32.03.04.02.00	[26197 / 90.92]				Published 1999-11-15	
Information technology - Database Language SQL - Part 2: Foundation (SQL:1999)						
				1996-06	1999-03	1999-07
				1997-09	1999-03	1999-11
SC 32/WG 03	Cannan, Stephen	ISO/IEC 9075-3:1999				SC 32 N0261
1.32.03.04.03.00	[30609 / 90.92]				Published 1999-11-15	
Information technology - Database Language SQL - Part 3: Call-Level Interface						
				1998-09	1999-08	1999-09
				1998-08	1999-05	1999-11
SC 32/WG 03	Cannan, Stephen	ISO/IEC 9075-4:1999				SC 32 N0224
1.32.03.04.04.00	[29864 / 90.92]				Published 1999-11-15	
Information technology - Database Language SQL - Part 4: Persistent Stored Modules						
				1997-10	1999-03	1999-07
				1997-10	1999-03	1999-11
SC 32/WG 03	Cannan, Stephen	ISO/IEC 9075-5:1999				SC 32 N0225
1.32.03.04.05.00	[26198 / 60.60]				Published 1999-11-15	
Information technology - Database Language SQL - Part 5: Language Bindings						
				1996-06	1999-03	1999-07
				1997-09	1999-03	1999-11
SC 32/WG 03	Melton, Jim	ISO/IEC FCD 9075-9				32N0368
1.32.03.04.09.00	[31370 / 40.20]				FCD ballot closed 2000-05-01	
Information technology - Database Language SQL - Part 9: Management of External Data						
			1998-12	1999-09	2000-09	2001-01
			1998-12	1999-11		
SC 32/WG 03	Melton, Jim	ISO/IEC FDIS 9075-10				32N0475
1.32.03.04.10.00	[30613 / 40.60]				Sent to ITTF for FDIS Ballot 2000-04-27	
Information technology --Database Language SQL - Part 10: Object language bindings (for SQL:1999)						
				1998-10	2000-04	2000-08
				1998-12	2000-04	
SC 32/WG 03	Melton, Jim	ISO/IECAWI 9075-1				CD expected 2001-01
1.32.03.05.01.00	[34132 / 20.00]				2002-06	2002-10
Information technology - Database Language SQL - Part 1: Framework (for SQL:200n)						
			2001-01	2001-08		
SC 32/WG 03	Melton, Jim	ISO/IEC AWI 9075-2				CD expected 2001-01
1.32.03.05.02.00	[34133 / 20.00]				2002-06	2002-10
Information technology - Database Language SQL - Part 2: Foundation (for SQL:200n)						
			2001-01	2001-08		

DRAFT SC 32 BUSINESS PLAN

SC 32/WG 03	Melton, Jim	ISO/IEC AWI 9075-3			
1.32.03.05.03.00	[34134 / 20.00]				CD expected 2001-01
Information technology - Database Language SQL -		2001-01	2001-08	2002-06	2002-10
Part 3: Call-Level Interface (for SQL:200n)					
SC 32/WG 03	Melton, Jim	ISO/IEC AWI 9075-4			
1.32.03.05.04.00	[34135 / 20.00]				CD expected 2001-01
Information technology - Database Language SQL -		2001-01	2001-08	2002-06	2002-10
Part 4: Persistent Stored Modules (for SQL:200n)					
SC 32/WG 03	Melton, Jim	ISO/IEC AWI 9075-7			
1.32.03.05.07.00	[30611 / 20.00]				CD expected 2001-11
Information technology - Database Language SQL -		2001-11	2001-11	2002-08	2002-12
Part 7: Temporal (for SQL:200n)					
SC 32/WG 03	Melton, Jim	ISO/IEC AWI 9075-9			
1.32.03.05.09.00	[34136 / 20.00]				CD expected 2001-02
Information technology - Database Language SQL -		2001-02	2001-08	2002-06	2002-10
Part 9: Management of External Data (for SQL:200n)					
SC 32/WG 03	Melton, Jim	ISO/IEC AWI 9075-10			
1.32.03.05.10.00	[34137 / 20.00]				CD expected 2001-01
Information technology --Database Language SQL -		2001-01	2001-08	2002-06	2002-10
Part 10: Object language bindings (for SQL:200n)					
SC 32/WG 03	Melton, Jim	ISO/IEC AWI 9075-11			
1.32.03.05.11.00	[/ /]				CD expected 2001-01
Information technology --Database Language SQL -		2001-01	2001-08	2002-06	2002-10
Part 11: Schemata (for SQL:200n)					
Part 2 SC 32 Secretariat Report					

DRAFT SC 32 BUSINESS PLAN

SC 32/WG 03	Melton, Jim	ISO/IEC AWI 9075-12					
1.32.03.05.12.00	[34127 / 20.00]						CD expected 2001-05
Information technology --Database Language SQL - Part 12: Replication (for SQL:200n)		2000-05	2001-05	2001-11	2002-08	2002-12	

SC 32/WG 04 SQL Multimedia & Application Packages

		NP	CD	FCD	FDIS	IS
SC 32/WG 04	Newton, Mike	ISO/IEC FDIS 13249-1				SC 32 N0188
1.32.04.01.01.00	[21484 / 50.00]				FDIS Expected 2000-04	2000-07
Information technology - SQL Multimedia and Application Packages - Part 1: Framework				1998-10	2000-04	
				1998-10		

SC 32/WG 04	Newton, Mike	ISO/IEC AWI 13249-1				
1.32.04.02.01.00	[34128 / 20.00]		2001-05	2001-11	CD expected 2001-05	2002-12
Information technology - SQL Multimedia and Application Packages - Part 1: Framework 2nd ed.					2002-09	

SC 32/WG 04	Ashworth, Mark	ISO/IEC FDIS 13249-2				SC 32 N0467
1.32.04.01.02.00	[28053 / 50.00]				About to be published 2000	2000-07
Information technology - SQL Multimedia and Application Packages - Part 2: Full -Text				1996-08	2000-02	
				1997-11	2000-03	

SC 32/WG 04	Cotton, Paul	ISO/IEC AWI 13249-2				
1.32.04.02.02.00	[31368 / 20.00]		2001-05	2001-11	CD expected 2001-05	2002-12
Information technology - SQL Multimedia and Application Packages - Part 2: Full-Text (Revision of ISO/IEC DIS 13249-2) (Later Progression)					2002-09	

SC 32/WG 04	Ashworth, Mark	ISO/IEC 13249-3:1999				SC 32 N0229
1.32.04.01.03.00	[28054 / 60.60]				Published 1999-12-01	
Information technology - SQL Multimedia and Application Packages - Part 3: Spatial			1996-08	1996-08	1998-09	1999-09
			1997-11	1997-11	1999-03	1999-12

SC 32/WG 04	Ashworth, Mark	ISO/IEC WD 13249-3				
1.32.04.02.03.00	[31369 / 20.00]		2001-05	2001-11	CD expected 2001-05	2002-12
Information technology - SQL Multimedia and Application Packages - Part 3: Spatial (Revision of ISO/IEC DIS 13249-3) (Later Progression)					2002-09	

SC 32/WG 04	Ashworth, Mark	ISO/IEC FCD 13249-5				SC 32 N0342
1.32.04.01.05.00	[30617 / 40.20]				FDIS Expected 2000-03	2000-10
Information technology - SQL Multimedia and Application Packages - Part 5: Still Image			1997-07	1999-06	2000-03	
			1998-01	1999-08		

SC 32/WG 04	Schwenkreis, Friedemann	ISO/IEC AWI 13249-6				
1.32.04.01.06.00	[34129 / 20.00]				CD Expected 2000-12	2002-08
Information technology - SQL Multimedia and Application Packages - Part 6: Data Mining			2000-12	2001-07	2002-04	

SC 32/WG 05 Database Access and Interchange

		NP	CD	FCD	FDIS	IS
SC 32/WG 05	Hadjioannou, John	ISO/IEC9579:2000 ed 2				SC 32 N0339
1.32.05.02.00.00	[30688 / 60.60]				Published 2000-02-15	
Information technology - Remote database access for SQL (RDA/SQL). Edition 2.			1998-05	1998-05	1999-06	1999-12
			1998-04	1998-04	1999-07	2000-02

SC 32/WG 05	Hadjioannou, John	ISO/IEC CD 9579 Amd 2				32 N 0369
1.32.53.01.03.00	[31373 / 30.60]				FCD expected 2001-12	2002-12
Information technology - Data Management and Interchange - Distribution Schema for RDA			2000-05	2001-12	2002-08	
			1998-08	1999-08		

SC 32/WG 05	Hadjioannou, John	ISO/IEC 9579/AWI Amd 3				
1.32.53.01.04.00	[31372 / 20.00]				PDAM expected 2000-10	
Information technology - Data Management and Interchange - Encompassing Transaction			2000-10	2001-04	2001-10	2002-02
			1998-08			

SC 32/WG 05	Hadjioannou, John	ISO/IEC FCD 9579 edition 3				N0349
1.32.05.03.00.00	[30615 / 60.60]				FCD ballot closed 2000-01-14	

DRAFT SC 32 BUSINESS PLAN

Information technology - Remote database access for SQL (RDA/SQL) - Edition 3 (for SQL 1999)		1998-09 1999-08	1999-10	2000-06
SC 32/WG 05 Hadjioannou, John 1.32.05.03.00.01 [34130 / 20.00]	ISO/IEC CD 9579 ed 3 amd 1			
Information technology - Remote Database Access for SQL: XML Encoding Amendment to Edition 3		2000-10	2001-04	CD expected 2000-10 2001-10 2002-02
SC 32/WG 05 Hadjioannou, John 1.32.05.04.00.00 [33157 / 40.60]	ISO/IEC CD 9579 ed 4			
Information technology - Remote Database Access for SQL: (RDA/SQL). Edition 4		2000-10	2001-04	CD expected 2000-10 2001-10 2002-02
SC 32/WG 05 Hadjioannou, John 1.32.05.03.00.02 [34131 / 20.00]	ISO/IEC CD 9579 ed 3 amd 2			
Information technology - Remote Database Access for SQL: Support for SQL/MED Amendment 2 to Edition 3		2000-10	2001-04	CD expected 2000-10 2001-10 2002-02
SC 32/WG 05 Hadjioannou, John 1.32.53.01.02.00 [0 /]				Split
Information technology - Data Management and Interchange – Authorization and Audit				

2.4 SC Chairman and Secretariat, WG Conveners and Project Editors

Mr. Mark Ashworth

Phone: + 1 905 697 0838

Fax:

Email: Mark.Ashworth@ACM.org

Informix Software (Canada) Inc.
2285 Regional Road 57

Bowmanville
Ontario

L1C 3K4
Canada

Project Editor	64.03.00.00.00	ISO/IEC 13249-3:1999
Project Editor	64.03.01.00.00	ISO/IEC WD 13249-3
Project Editor	64.04.00.00.00	ISO/IEC CD 13249-4
Project Editor	64.05.00.00.00	ISO/IEC FCD 13249-5
Project Editor	64.02.00.00.00	ISO/IEC FDIS 13249-2

Mr. Bruce Bargmeyer

Phone: + 1 202 260 5306

Fax: + 1 202 260 5865

Email: Bargmeyer.bruce@epa.gov

Environmental Protection Agency PM-218
Room 3618

Washington
DC

20460
USA

Chairman		
Project Editor	14.17.02.00.00	ISO/IEC 11179-2:2000
Project Editor	14.17.05.00.00	ISO/IEC 11179-4:1995

Mr. Don Bartley

Phone: +61 2 6252 6779

Fax: +61 2 6252 6383

Email: don.bartley@abs.gov.au

Australian Bureau of Statistics, Cameron Offices
Chandler Street

P.O. Box 10
Belconnen
ACT

2616
Australia

Project Editor	06.06.00.00.00	ISO/IEC NP 17415
----------------	----------------	------------------

Mr. Jean Berube

Phone: + 1 450 465 0245

Fax: + 1 450 465 2398

IDEgenic Inc.
87 Burton

Greenfield Part
Quebec

DRAFT SC 32 BUSINESS PLAN

Email: jberube@ibm.net

J4V 2Y6
Canada

Rapporteur
Project Editor 58.01.00.00.00 ISO/IEC CD 13238-1

Mr. Tim Bourne

SIAM
1 St. David's Close

Phone: + 44 1442 395 645
Fax: + 44 1442 230 404

Hemel Hempstead

Email: standards@siam.co.uk

HP3 8LU
United Kingdom
ISO/IEC 10728:1993
ISO/IEC CD 10728

Project Editor 06.02.00.00.00
Project Editor 06.07.00.00.00

Mr. Stephen Cannan

james martin + co
Rijksstraatweg 102-B

Phone: + 31 29 423 6666
Fax: + 31 29 423 0346
Email: Stephen.Cannan@jamesmartin.com

Loenen a/d Vecht

3632AD
The Netherlands
ISO/IEC 9075-3:1999
ISO/IEC 9075-5:1999
ISO/IEC 9075:1999 C1
ISO/IEC 9075:1995 C1
ISO/IEC 9075-4:1999
ISO/IEC 9075-1:1999
ISO/IEC 9075-4:1996

Project Editor 03.04.03.00.00
Project Editor 03.04.05.00.00
Project Editor 03.04.00.00.00
Project Editor 03.04.01.02.00
Project Editor 03.04.04.00.00
Project Editor 03.04.01.00.00
Project Editor 03.03.02.00.00
Convenor
Project Editor 03.03.01.00.00
Project Editor 03.04.01.03.00
Project Editor 03.03.00.00.00
Project Editor 03.04.02.00.00

Mr. Joe Christensen

Australian Institute of Health and Welfare
National Information Devel. Unit

Phone: +61 2 6244 1148
Fax: +61 2 6244 1255

Canberra
ACT

Email: joe.christensen@aihw.gov.au

2601
Australia
ISO/IEC CD 11179-3
ISO/IEC 11179-3:1994

Project Editor 14.17.04.00.00
Project Editor 14.17.03.00.00

Mr. William Currie Colket

9906 Dale Ridge Road

Phone: + 1 703 602 1483
Fax: + 1 703 602 6805

Vienna
VA

Email: colket@smtp-gw.spawar.navy.mil

22181
USA
ISO/IEC 10728:1993/2

Project Editor 06.02.02.00.00

Mr. Paul Cotton

17 Eleanor Drive

Phone: + 1 613 225 5445
Fax: + 1 613 226 6913

Nepean
Ontario

Email: paulcotton@alumni.uwaterloo.ca

K2E 6A3

Project Editor 64.02.01.00.00

Canada
ISO/IEC AWI 13249-2

Mr. Larry Fitzwater (acting)

Phone: + 1 202 260 3071
Fax: + 1 202 401 8390
Email: Fitzwater.Larry@epa.gov

Environmental Protection Agency
Room 3408
Washington
DC
20460
USA

Convenor

Mr. Daniel Gillman

Phone: + 1 301 457 4860
Fax: + 1 301 457 2299
Email: gillman@info.census.gov

Bureau of the Census
Statistical Research Division
Washington
DC
20233
USA

Project Editor 14.17.01.00.00

ISO/IEC 11179-1:1999

Mr. David Gradwell

Phone: + 44 1 276 23519
Fax: + 44 1 276 676670
Email: david@gradwell.com

Data Dictionary Systems Limited
16 Tekels Avenue

Surrey

GU15 2LB
United Kingdom

Project Editor 06.09.00.00.00
Project Editor 06.01.00.00.00
Project Editor 06.09.01.00.00
Project Editor 06.08.00.00.00
Project Editor 06.02.01.00.00
Project Editor 06.02.03.00.00

ISO/IEC FDIS 13645
ISO/IEC 10027:1990
ISO/IEC FDIS 13237
ISO/IEC WD 10027
ISO/IEC 10728:1993/1
ISO/IEC 10728:1993/3

The Revd John Hadjioannou

Phone: + 44 1977 610497
Fax:
Email: john@minster.co.uk

The Vicarage

Fitzwilliam
Pontefract

WF9 5BX
United Kingdom

Convenor
Project Editor 31.02.01.00.00
Project Editor 31.04.00.00.00
Project Editor 31.04.01.00.00
Project Editor 31.05.00.00.00
Project Editor 31.05.04.00.00
Project Editor 31.05.01.00.00
Project Editor 31.05.02.00.00
Project Editor 31.05.03.00.00
Project Editor 31.04.03.00.00
Project Editor 31.04.02.00.00

ISO/IEC 9579-2:1998
ISO/IEC FDIS 9579
ISO/IEC 9579 ED2
ISO/IEC FCD 9579 ed3
ISO/IEC 9579 Amd 1
ISO/IEC 9579 Amd 2
ISO/IEC 9579 Amd 3
ISO/IEC 9579/AWI A3
ISO/IEC CD 9579/ A2

Mr. Hajimi Horiuchi

Phone: +81-492-32-1111
Fax:
Email: hori@tiu.ac.jp

Tokyo International University
350-1197 Matobakita Kawagoe

Satama

350 11
Japan

Project Editor 06.02.04.00.00 ISO/IEC 10728:1993/4

Mr. David Hunter

Phone: + 2 62526300

Fax:

Email: david.hunter@abs.gov.au

Australian Bureau of Statistics
PO Box 10

Belconnen
A.C.T.

2615
Australia

Project Editor 14.10.00.00.00 ISO 5218:1977
Project Editor 14.10.01.00.00 ISO/IEC AWI 5218

Mr. Martin King

Phone: +44-1707-363090

Fax:

Email: martin_king@uk.ibm.com

e-business Services

Rosanne House (RH2A)
Welwyn Garden City
GB

AL8 6UB

Project Editor 63.00.00.00.00 ISO/IEC FDIS 14481

Dr. Jake Knoppers

Phone: +1 613-234-3244

Fax: +1 613-234-3935

Email: mpereira@istar.ca

Canaglobe International Inc.
154 Slater Street, Suite 2

Ottawa
ON

K1P 5H6
Canada

Project Editor 32.20.01.00.00 ISO/IEC NP 18038
Project Editor 32.18.01.00.00 ISO/IEC NP 18022

Paul Levine

Phone: +1 732 699 3042

Fax: +1 732 336 2980

Email: plevine@telcordia.com

Telcordia
Room RRC 4D876

444 Hoes Lane
Piscataway
NJ

08854
USA

Project Editor 30.02.02.00.00 ISO/IEC AWI 15944-2
Project Editor 30.02.01.00.00 ISO/IEC CD 15944-1
Project Editor 30.02.03.00.00 ISO/IEC AWI 15944-3

Mr. Douglas Mann

Phone: + 1 703 575 2114

Fax: + 1 703 671 9180

Email: mannd@battelle.org

Battelle Memorial Institute
5109 Leesburg Pike

Six Skyline Place, Suite 819
Falls Church
VA

22041-3208
USA

Secretariat

Mr. Jim Melton

Phone: + 1 801 942 0144

Fax: + 1 801 942 3345

Email: jim.melton@acm.org

Oracle Corporation
1930 E. Viscounti Drive

Sandy
UT

84093-1063
USA

DRAFT SC 32 BUSINESS PLAN

Project Editor	32.03.05.10.00	ISO/IEC AWI 9075-10
Project Editor	32.03.05.02.00	ISO/IEC AWI 9075-2
Project Editor	32.03.05.12.00	ISO/IEC AWI 9075-12
Project Editor	32.03.05.11.00	ISO/IEC AWI 9075-11
Project Editor	32.03.05.09.00	ISO/IEC AWI 9075-9
Project Editor	32.03.05.07.00	ISO/IEC AWI 9075-7
Project Editor	32.03.05.03.00	ISO/IEC AWI 9075-3
Project Editor	32.03.05.01.00	ISO/IEC AWI 9075-1
Project Editor	03.04.10.00.00	ISO/IEC FDIS 9075-10
Project Editor	03.04.01.01.00	ISO/IEC FDM9075:99 a1
Project Editor	03.04.09.00.00	ISO/IEC FCD 9075-9
Project Editor	03.04.07.00.00	ISO/IEC AWI 9075-7
Project Editor	03.04.06.00.00	ISO/IEC WD 9075-6
Project Editor	32.03.05.04.00	ISO/IEC AWI 9075-4

Ms. Judith Newton

Phone: + 1 301 975 3256

Fax:

Email: jnewton@nist.gov

Project Editor	14.09.00.00.00	ISO/IEC TR 15452:2000
Project Editor	14.17.06.00.00	ISO/IEC 11179-5:1995
Project Editor	32.02.10.00.00	ISO/IEC PDTR 20943

Mr. Mike Newton

Phone: + 44 1 908 653 706

Fax: + 44 1 908 653 744

Email: m.a.newton@open.ac.uk

Project Editor	64.01.01.00.00	ISO/IEC AWI 13249-1
Project Editor	64.01.00.00.00	ISO/IEC FDIS 13249-1
Rapporteur		

Mr. Phong Ngo

Phone: + 1 703.292-6246

Fax:

Email: phong.x.ngo@saic.com

Project Editor	14.17.07.00.00	ISO/IEC 11179-6:1997
Project Editor	14.08.00.00.00	ISO/IEC NP 17413

Mr. Dipak Patel

Phone: + 1 408 473 0200

Fax:

Email: dipak.patel@atinet.com

Project Editor	31.01.00.00.00	ISO/IEC 9579-1:1993
----------------	----------------	---------------------

Mr. Hannu Pelkonen

Phone: +358 204 51 4559

Fax: +358 204 51 4525

Email: hannu.pelkonen@posti.fi

NIST
United States Dept. of Commerce

Gaithersburg
MD

20899
USA

Open University
Computing Department

Bucks

MK7 6AA
United Kingdom

SAIC
6565 Arlington Blvd

Falls Church
VA

22404
USA

Automation Technology, Inc.
2890 Zanker Road

San Jose
CA

95134
USA

Finland Post Ltd, EDI-Services
P.O.BOX 702

FIN-00011 POSTI

		Finland	
Convenor			
Project Editor	30.04.00.00.00	ISO/IEC 14662:1997	
Mr. Rick Schnarr		National Archives of Canada 395 Wellington Street	
Phone: + 1 613 996 5655		Ottawa	
Fax: + 1 613 996 8982		Ontario	
Email: rschnarr@archives.ca		K1A ON3	
		Canada	
Project Editor	30.01.00.00.00	ISO/IEC 10032:1995	
Mr. Friedemann Schwenkreis		IBM Deutschland Entwicklung Schoenaicher Str. 220	
Phone: +49 7031 16 4656		Boeblingen	
Fax: +49 7031 16 4891		71032	
Email: fschwenk@de.ibm.com		Germany	
Project Editor	64.06.00.00.00	ISO/IEC AWI 13249-6	
Prof Kohji Shibano		Institute for the Study of Languages and Cultures Tokyo University of Foreign Studies	
Phone: + 81 3 5974 3813		Tokyo	
Fax: + 81 3 5974 3838		114-8580	
Email: shibano@aa.tufs.ac.jp		Japan	
Convenor			
Mr. Alain Thienot		AFNOR Tour Europe, F-92049	
Phone: + 1 33 1 42 91 59 73		Paris Le Defense	
Fax: + 1 33 1 42 91 56 56		CEDEX 7	
Email: 100546.3352@compuserve.com		France	
Project Editor	14.16.00.00.00	ISO/IEC 14957:1996	
Mr. Terry Wilcox		Lexica Ltd. Nine Foxleys	
Phone:		Watford	
Fax:		Herts	
Email: 100010.2147@compuserve.com		WD1 5DB	
Project Editor	58.03.00.00.00	ISO/IEC 13238-3:1998	