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

**SC 32 Data Management and Interchange
Secretariat Report
April 1999**

Part 1 SC 32 Business Plan

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

PERIOD COVERED: July 1998 to April 1999

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

1. MANAGEMENT SUMMARY:

1a CHAIRMAN'S REMARKS

SC 32 met in late June and early July 1998 in Brisbane, Australia. All working groups except WG 1 –Open EDI were present. The operation of the SC 32 Secretariat was transferred from ANSI to Pacific Northwest National Laboratory operating on behalf of ANSI.

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 perspective.

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, semantic components;
2. identification and specification of formal description techniques for describing classes of business requirements and their contextual and semantic specification;
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: Remote Database Access (RDA)

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

30.01.00.00.00 Information Technology - Reference Model of Data Management

[ISO-id 17995] ISO/IEC 10032 : 1995

Target Dates:

SC 32/RG 02 Export/Import Maintenance

58.02.00.00.00 Information Technology - Data Management Export/Import Facilities - Part 2: SQL Export/Import

[ISO-id 29941] ISO/IEC CD 13238-2

Target Dates:

CD 1997-09

FCD 1999-09

DIS 2000-02

IS 2000-08

58.03.00.00.00 Information Technology - Data Management Export/Import Facilities - Part 3: Export/Import Facilities for IRDS (Final Text - SC 32 N 174)

[ISO-id 21473] ISO/IEC 13238-3: 1998

Target Dates:

58.01.00.00.00 Information Technology - Data Management Export/Import Facilities - Part 1: Standardization Framework

[ISO-id 29940] ISO/IEC CD 13238-1

Target Dates:

CD 1997-09

FCD 1999-09

DIS 2000-02

IS 2000-08

SC 32/WG 01 Open-edi

30.04.00.00.00 Open-Edi Reference Model Standard

[ISO-id 25154] ISO/IEC 14662 : 1997

Target Dates:

30.03.00.00.00 Edi Support Services

[ISO-id 20953] ISO/IEC AWI 17414

Target Dates:

30.02.00.00.00 Information Technology - Business Agreement Semantic Descriptive Techniques

[ISO-id 30608] ISO/IEC AWI 15944

Target Dates:

CD 1993-10

DIS 1995-04

SC 32/WG 02 Metadata

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

[ISO-id 24341] ISO/IEC 10728 :1993/Amd 1:1995

Target Dates:

14.15.00.00.00 Data processing - Check character system (Proposed to JTC 1 for withdrawal)

[ISO-id 13631] ISO 7064 : 1983

Target Dates:

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

[ISO-id 17651] ISO/IEC TR 9789 : 1994 type 3

Target Dates:

06.02.04.00.00 Information Technology - Information Resource Dictionary System (IRDS) Service Interface - Amendment 4: Remote Procedure Call IDL Binding

[ISO-id 28052] ISO/IEC 10728 :1993/Amd 4:1998

Target Dates:

14.03.01.00.00 Information technology - General structures for the interchange of code values - Part 1: Identification of coding schemes (Recommended for withdrawal to ITTF - Five

Year Review)

[ISO-id 14748]	ISO/IEC 7826-1 : 1994 <i>Target Dates:</i>
06.09.00.00.00	Information Technology - Guidelines for the Design of IRDS Content Modules
[ISO-id 21852]	ISO/IEC FDIS 13645 <i>Target Dates:</i> CD FCD 1995-01 DIS 1998-10 IS 1999-01
01.00.00.00.00	Information Processing Systems - Concepts and Terminology for the Conceptual Schema and the Information Base
[ISO-id 16549]	ISO TR 9007 : 1987 <i>Target Dates:</i>
14.02.00.00.00	Information processing - Representation of SI and other units in systems with limited character sets (Proposed to JTC 1 for withdrawal)
[ISO-id 8005]	ISO 2955 : 1983 <i>Target Dates:</i>
63.00.00.00.00	Information Technology - Conceptual Schema Modelling Facilities
[ISO-id 22785]	ISO/IEC FDIS 14481 <i>Target Dates:</i> CD 1996-11 FCD 1998-08 DIS 1999-05 IS 1999-08
06.08.00.00.00	Information Processing Systems - Information Resource Dictionary System (IRDS) Framework (Revision of ISO/IEC 10027:1990)
[ISO-id 20189]	ISO/IEC WD 10027 edition 2 <i>Target Dates:</i> CD 1999-07 FCD 2000-07 DIS 2001-04 IS 2001-07
14.16.00.00.00	Information technology - Representation of data elements values: Notation of the format
[ISO-id 2365]	ISO/IEC 14957 : 1996

Target Dates:

06.02.02.00.00 Information Technology - Information Resource Dictionary System (IRDS)
Service Interface - Amendment 2: Ada language binding

[ISO-id 24342] ISO/IEC 10728 :1993/Amd 2:1996

Target Dates:

14.03.02.00.00 Information technology - General structure for the interchange of code
values - Part 2: Registration of coding schemes (Recommended for
withdrawal to ITTF - Five

Year Review)

[ISO-id 20686] ISO/IEC 7826-2 : 1994

Target Dates:

06.02.03.00.00 Information Technology - Information Resource Dictionary System (IRDS)
Service Interface - Amendment 3: CORBA IDL Binding

[ISO-id 27123] ISO/IEC 10728 :1993/Amd 3:1998

Target Dates:

06.09.01.00.00 Information Technology - IRDS Content Module to Support a Naming and
Thesaurus Facility

[ISO-id 21472] ISO/IEC FDIS 13237

Target Dates:

CD 1995-07

FCD 1998-10

DIS 1999-07

IS 1999-10

14.06.00.00.00 Standard representation of latitude, longitude and altitude for geographic
point locations (Review at Matsue for moving to TC 211)

[ISO-id 13152] ISO 6709 : 1983

Target Dates:

06.06.00.00.00 Information Technology - IRDS Content Module - Design Support for SQL
Applications

[ISO-id 31371] ISO/IEC NP 17415

Target Dates:

CD 1998-09

FCD 1999-07

DIS 2000-04

IS 2000-07

- 14.10.01.00.00 Information interchange - Representation of human sexes (Revision of ISO 5218:1977)
 [ISO-id 31365] ISO/IEC AWI 5218
Target Dates:
 CD 1999-05
 FCD 1999-12
 DIS 2000-05
 IS 2000-08
- 14.10.00.00.00 Information interchange - Representation of human sexes
 [ISO-id 11219] ISO 5218 : 1977
Target Dates:
- 14.17.01.00.00 Information technology - Specification and standardization of data elements - Part 1: Framework for the specification and standardization of data elements
 [ISO-id 2349] ISO/IEC FDIS 11179-1
Target Dates:
 FCD 1998-11
 DIS 1999-03
 IS 1999-06
- 06.02.00.00.00 Information Technology - Information Resource Dictionary Systems (IRDS) Services
 Interface
 [ISO-id 18821] ISO/IEC 10728 : 1993
Target Dates:
- 14.04.02.00.00 Information Technology - Structure for the identification of organizations and organization parts - Part 2: Registration of organization identification schemes
 [ISO-id 25774] ISO/IEC 6523-2: 1998
Target Dates:
- 06.01.00.00.00 Information Processing Systems - Information Resource Dictionary System (IRDS) Framework
 [ISO-id 17985] ISO/IEC 10027 : 1990
Target Dates:
- 14.04.01.00.00 Information Technology - Structure for the identification of organizations and organization parts - Part 1: Identification of organization schemes
 [ISO-id 25773] ISO/IEC 6523-1: 1998

Target Dates:

14.17.04.00.00 Information Technology - Specification and standardization of data elements - Part 3: Basic attributes of data elements (Revision of ISO/IEC 11179-3:1994)

[ISO-id 31367] ISO/IEC AWI 11179-3

Target Dates:

CD 1999-05

FCD 2000-05

DIS 2000-09

IS 2000-12

06.07.00.00.00 Information Technology - Information Resource Dictionary System (IRDS) Services Interface (Revision of ISO/IEC 10728:1993) Extensions to IRDS Services Interface

[ISO-id 25838] ISO/IEC CD 10728

Target Dates:

CD 1997-09

FCD 2001-01

DIS 2001-10

IS 2002-01

14.09.00.00.00 Information technology - Specification of Data Value Domain

[ISO-id 27695] ISO/IEC DTR 15452

Target Dates:

CD 1998-01

FCD 1999-05

DIS 1999-12

IS 2000-05

14.08.00.00.00 Information Technology - Specification of Data Element Concepts (propose for deletion at Matsue)

[ISO-id 28698] ISO/IEC NP 17413

Target Dates:

CD 2000-12

FCD 2001-08

DIS 2002-03

IS 2002-07

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

[ISO-id 1677] ISO/IEC 11179-6 : 1997

Target Dates:

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

[ISO-id 1758] ISO/IEC 11179-5 : 1995

Target Dates:

14.17.05.00.00 Information technology - Specification and standardization of data elements - Part 4: Rules and guidelines for the formulation of data definitions

[ISO-id 23788] ISO/IEC 11179-4 : 1995

Target Dates:

14.17.03.00.00 Information technology - Specification and standardization of data elements - Part 3: Basic attributes of data elements

[ISO-id 19184] ISO/IEC 11179-3 : 1994

Target Dates:

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

[ISO-id 2317] ISO/IEC FDIS 11179-2

Target Dates:

CD 1997-09

FCD 1998-03

DIS 1999-03

IS 1998-12

SC 32/WG 03 Database Languages

03.03.01.00.00 Information Technology - Database Language SQL - Part 3: Call-Level Interface (for SQL2) (to be withdrawn upon publication of 9075-3, SQL3)

[ISO-id 24357] ISO/IEC 9075-3 : 1995

Target Dates:

03.04.01.02.00 Information Technology - Database Language SQL - Part 3: Call-Level Interface (SQL/CLI) Technical Corrigendum 1

[ISO-id 31022] ISO/IEC 9075-3 : 1995/Cor 1

Target Dates:

03.04.01.01.00 Information technology- Database languages - SQL - Technical Corrigendum 3

[ISO-id 30673] ISO/IEC 9075 : 1992/Cor 3

Target Dates:

- 03.03.00.00.00 Information Processing Systems - Database Language SQL 2 (to be withdrawn upon publication of 9075-1, 9075-2 and 9075-5, SQL3)
 [ISO-id 16663] ISO/IEC 9075 : 1992 edition 3
Target Dates:
- 03.04.01.00.00 Information Technology - Database Language SQL - Part 1: Framework (for SQL3)
 [ISO-id 26196] ISO/IEC FDIS 9075-1
Target Dates:
 FCD 1996-06
 DIS 1999-03
 IS 1999-05
- 03.03.02.00.00 Information Technology - Database Language SQL - Part 4: Persistent Stored Modules (for SQL2) (to be withdrawn upon publication of 9075-4, SQL3)
 [ISO-id 24358] ISO/IEC 9075-4 : 1996
Target Dates:
- 03.04.02.00.00 Information Technology - Database Language SQL - Part 2: Foundation (SQL 3)
 [ISO-id 26197] ISO/IEC FDIS 9075-2
Target Dates:
 FCD 1996-06
 DIS 1999-03
 IS 1999-05
- 03.04.03.00.00 Information Technology - Database Language SQL - Part 3: Call-Level Interface (for SQL 3)
 [ISO-id 30609] ISO/IEC FDIS 9075-3
Target Dates:
 FCD 1998-09
 DIS 1999-08
 IS 1999-12
- 03.04.04.00.00 Information Technology - Database Language SQL - Part 4: Persistent Stored Modules (for SQL 3)
 [ISO-id 29864] ISO/IEC FDIS 9075-4
Target Dates:
 FCD 1997-10
 DIS 1999-03
 IS 1999-05

- 03.04.05.00.00 Information Technology - Database Language SQL - Part 5: Language Bindings (for SQL 3)
 [ISO-id 26198] ISO/IEC FDIS 9075-5
Target Dates:
 FCD 1996-06
 DIS 1999-03
 IS 1999-05
- 03.04.06.00.00 Information Technology - Database Language SQL - Part 6: XA Specialization (for SQL3)
 [ISO-id 26199] ISO/IEC WD 9075-6
Target Dates:
 FCD 1999-10
 DIS 2000-06
 IS 2000-10
- 03.04.07.00.00 Information Technology - Database Language SQL - Part 7: Temporal (for SQL3)
 [ISO-id 30611] ISO/IEC AWI 9075-7
Target Dates:
 FCD 2000-06
 DIS 2001-01
 IS 2001-05
- 03.04.01.03.00 Information Technology - Database Language SQL - Part 4: Persistent Stored Modules (SQL/PSM) Technical Corrigendum 1
 [ISO-id 31023] ISO/IEC 9075-4 : 1996/Cor 1
Target Dates:
- 03.04.10.00.00 Information technology --Database Language SQL - Part 10: Object language bindings
 [ISO-id 30613] ISO/IEC CD 9075-10
Target Dates:
 FCD 1998-10
 DIS 1999-10
 IS 2000-02
- 03.04.09.00.00 Information Technology - Database Language SQL - Part 9: Management of External Data (Subdivision subject to JTC 1 endorsement)
 [ISO-id 31370] ISO/IEC CD 9075-9
Target Dates:
 CD 1998-12

FCD 1999-09
DIS 2000-03
IS 2000-07

SC 32/WG 04 SQL Multimedia & Application Packages

64.01.00.00.00 Information Technology - SQL Multimedia and Application Packages - Part 1: Framework

[ISO-id 21484] ISO/IEC FDIS 13249-1

Target Dates:

FCD 1998-10
DIS 1999-07
IS 1999-10

64.02.00.00.00 Information Technology - SQL Multimedia and Application Packages - Part 2: Full -Text

[ISO-id 28053] ISO/IEC FDIS 13249-2

Target Dates:

FCD 1996-08
DIS 1998-12
IS 1999-03

64.03.00.00.00 Information Technology - SQL Multimedia and Application Packages - Part 3: Spatial

[ISO-id 28054] ISO/IEC FDIS 13249-3

Target Dates:

CD 1996-08
FCD
DIS 1998-09
IS 1998-12

64.04.00.00.00 Information Technology - SQL Multimedia and Application Packages - Part 4: General Purpose Facilities (WG recommendation to bring project back to WD stage - previously circulated as CD 13249-9 - SC 32 N 16)

[ISO-id 30616] ISO/IEC CD 13249-4

Target Dates:

64.05.00.00.00 Information Technology - SQL Multimedia and Application Packages - Part 5: Still Image

[ISO-id 30617] ISO/IEC CD 13249-5

Target Dates:

CD 1997-07
FCD 1998-10

DIS 1999-02
IS 1999-10

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

[ISO-id 31368]

ISO/IEC AWI 13249-2

Target Dates:

FCD 2000-06
DIS 2001-06
IS 2001-09

64.03.01.00.00 Information Technology - SQL Multimedia and Application Packages - Part 3:

Spatial (Revision of ISO/IEC DIS 13249-3) (Later Progression)

[ISO-id 31369]

ISO/IEC WD 13249-3

Target Dates:

CD
FCD 2000-06
DIS 2001-06
IS 2001-09

SC 32/WG 05 Remote Database Access (RDA)

31.03.00.00.00 Information Technology - Remote Database Access - Part 3:SQL Protocol Implementation Conformance Statement Proforma (To be withdrawn upon publication of ISO/IEC 9579, Edition 1)

[ISO-id 24405]

ISO/IEC 9579-3 : 1996

Target Dates:

31.02.01.00.00 Information Technology - Remote Database Access - Part 2: SQL Specialization - SECOND EDITION (To be withdrawn upon publication of ISO/IEC 9579, Edition 1)

[ISO-id 27992]

ISO/IEC 9579-2 :1998 edition 2

Target Dates:

31.01.00.00.00 Information Technology - Remote Database Access - Part 1: Generic Model, Service and Protocol (To be withdrawn upon publication of ISO/IEC 9579, Edition 1)

[ISO-id 17344]

ISO/IEC 9579-1 : 1993

Target Dates:

31.04.01.00.00 Information technology - Remote database access for SQL (RDA/SQL). Amendment 1. Secure RDA.

[ISO-id 30688] ISO/IEC 9579/Damd 1
Target Dates:
 CD 1998-05
 DIS 1998-10
 IS 1999-03

31.05.00.00.00 Information technology - Remote database access for SQL (RDA/SQL) - Support for SQL 3

[ISO-id 30615] ISO/IEC AWI 9579 edition 2
Target Dates:
 CD
 FCD 1998-09
 DIS 1999-08
 IS 1999-12

31.04.02.00.00 Information Technology - Remote Database Access for SQL (RDA/SQL) - Amendment 2: Distribution Schema for RDA

[ISO-id 31373] ISO/IEC 9579/AWI Amd 2
Target Dates:
 FCD 1999-08
 DIS 2000-06
 IS 2000-10

31.04.03.00.00 Information Technology - Remote Database Access for SQL (RDA/SQL) - Amendment 3: Encompassing Transaction (Subdivision subject to JTC 1 endorsement)

[ISO-id 31372] ISO/IEC 9579/AWI Amd 3
Target Dates:
 FCD 1999-08
 DIS 2000-06
 IS 2000-10

31.04.00.00.00 Information Technology - Remote Database Access for SQL(Proceed as 9579, Ed. 1, new edition of RDA consolidating all parts. To be withdrawn upon publication of ISO/IEC 9579, Ed. 2)

[ISO-id 29799] ISO/IEC FDIS 9579 edition 1
Target Dates:
 FCD 1997-09
 DIS 1998-05
 IS 1998-10

1.3 COOPERATION AND COMPETITION

A complete listing of SC 32 liaisons is listed in the following tables. SC 32 is currently reevaluating its liaisons and assessing areas of internal and external cooperation and competition. Liaison members from many organizations were carried into SC 32 during the JTC 1 reengineering effort. All liaison members are being contacted to insure that the membership is desired. . The SC 32 Secretariat has been contacting those organizations to confirm their continuing interest.

Internal Liaison Membership

ISO/IEC or CEN Group	Organization
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/WG 2	Information and documentation/Coding of country names and related entities
ISO/TC 46/SC 3	Information and documentation/ Terminology
ISO/TC 46/SC 4	Information and documentation/Computer applications
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
ISO/IEC JTC 1/SC 1	Vocabulary
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/WG 20	Programming languages/Internationalization
ISO/IEC JTC 1/SC 22/JSG	Programming languages/Java Study Group
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
IEC 93	Design Automation
CEN/ISSS	Information Society Standardization System
CEN/TC 310 AMT	Advanced Manufacturing Technologies

Category A Liaison Membership

Acronym	Organization
INTELSAT	International Telecommunications Satellite Organization
ISBT	International Society of Blood Transfusion
ITU-T	International Telecommunications Union – Telecommunication Standardization Sector
SITA	Societe Internationale de Telecommunications (Airline Telecommunications & Information Services)
UNCTAD	UN Conference on Trade and Development
UN/ECE/CEFACT	UN Economic Commission for Europe/CEFACT

Category B Liaison Membership

Acronym	Organization
CEPT	European Conference of Postal and Telecommunications Administrations
CERN	European Organization for Nuclear Research
CISAC	Confederation internationale des societes d'auteurs et compositeurs
ECMA	European Computer Manufacturers Association
ESA	European Space Association
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	UN-Under-Secretary for Economic and Social Affairs
UPU	Universal Postal Union
WIPO	World Intellectual Property Organization
WMO	World Metrological Organization

Category C Liaison Membership

Acronym	Organization
ExpertnetSA	ExpertnetSA MEDSEC (Health Care Security and Privacy in the Information Society)

OMG	Object Management Group
Open Group	Open Group
OGC	Open GIS Consortium
W3C	WWW Consortia

SC 32 is working with the MoU Management Group, UN/ECE/CFACT, and Intelsat, as well as other ISO groups involved in EDI, data representation and database activity. Cooperation exists with the World Wide Web Consortium (W3C), and CEN/TC 310 AMT.

Cooperation has been established with TC 211 on SQL/MM and Meta-data, JTC 1 SC 2 on coded character sets, SC 7 on Data Definition and Representation, SC 22 on Internationalization, SC 33.

2.0 PERIOD REVIEW

Excellent progress has been made in developing SQL, SQL MM, RDA, IRDS, and Data Representation, and Conceptual Schema standards, and we expect that progress to continue in the future. Open-Edi and Data Representation projects are also proceeding well.

2.1 MARKET REQUIREMENTS

Market demand for SQL database products remains strong, with a clear market need for advanced SQL multimedia standards and products. The work of SC 32 in these areas are particularly importing in defining the standards that industry will implement to satisfy the strong market demand.

The interconnection and data interchange problems are being addressed and, to a limited extent, resolved with the advent of the internet, electronic information interchange, and other global computing facilities. For exchanging database metadata or repository metadata there is no single dominant standard which is an opportunity for additional extensions. The semantic content and the representation of data, however, have not been adequately addressed to facilitate the transformation of interchanged data into intelligible and useful information.

Implementation of many metadata registries based upon ISO/IEC 11179 is providing requirements for current projects and anticipated projects to extend the support facilities. This work provides a capability to facilitate cross-sector metadata sharing.

Frustrating progress in many search standardization efforts is the lack of a process for handling multiple overlapping semantic domains. Such domains range from low-level programming constructs, through structured meta-data elements, and into linguistic regimes such as thesauri and semantic networks. There have been many efforts over the years to address these problems, and efforts are ongoing still. The IRDS Naming and Thesaurus project provides a standard meta-data repository structure for naming objects and recording, the structure of their names.

Although the current state of understanding and technology may not be adequate to address all of these problem areas, it should be possible to improve the situation within a sufficiently constrained problem space such as Global Information Locator Service (GILS). The GILS semantic problem is focused specifically on the search service interface at the server side of a

client/server interface. The relevant semantic domains are only those that are commonly used in locating information resources, which is a tiny subset of the full array of possible resource characteristics. Thus, a key goal of SC 32 should be to provide interoperability for tools that manipulate meta-data and repositories.

Market demand of EDI products remains strong, and standards for EDI functions are necessary to facilitate this demand. The SC 32 work related to Open edi work is an integral part of the international EDI standardization activity.

2.2 ACHIEVEMENTS

The following projects have completed Stage 5 – Publication

58.03.00.00.00 Information Technology - Data Management Export/Import Facilities - Part 3: Export/Import Facilities for IRDS (Final Text - SC 32 N 174)

[ISO-id 21473] ISO/IEC 13238-3: 1998

06.02.04.00.00 Information Technology - Information Resource Dictionary System (IRDS) Service Interface - Amendment 4: Remote Procedure Call IDL Binding

[ISO-id 28052] ISO/IEC 10728 :1993/Amd 4:1998

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

[ISO-id 25773] ISO/IEC 6523-1: 1998

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

[ISO-id 25774] ISO/IEC 6523-2: 1998

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

14.17.01.00.00 Information technology - Specification and standardization of data elements - Part 1: Framework for the specification and standardization of data elements

[ISO-id 2349] ISO/IEC FDIS 11179-1

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

[ISO-id 2317] ISO/IEC FDIS 11179-2

14.09.00.00.00 Information technology - Specification of Data Value Domain

[ISO-id 27695] ISO/IEC DTR 15452

03.04.01.00.00	Information Technology - Database Language SQL - Part 1: Framework (for SQL3)
[ISO-id 26196]	ISO/IEC FDIS 9075-1
03.04.02.00.00	Information Technology - Database Language SQL - Part 2: Foundation (SQL 3)
[ISO-id 26197]	ISO/IEC FDIS 9075-2
03.04.04.00.00	Information Technology - Database Language SQL - Part 4: Persistent Stored Modules (for SQL 3)
[ISO-id 29864]	ISO/IEC FDIS 9075-4
03.04.05.00.00	Information Technology - Database Language SQL - Part 5: Language Bindings (for SQL 3)
[ISO-id 26198]	ISO/IEC FDIS 9075-5
64.03.00.00.00	Information Technology - SQL Multimedia and Application Packages - Part 3: Spatial
[ISO-id 28054]	ISO/IEC FDIS 13249-3

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

63.00.00.00.00	Information Technology - Conceptual Schema Modelling Facilities
[ISO-id 22785]	ISO/IEC FDIS 14481

The following project is completing Stage 3 – Committee Stage with FCD ballot

03.04.10.00.00	Information technology --Database Language SQL - Part 10: Object language bindings
[ISO-id 30613]	ISO/IEC CD 9075-10

The following project is progressing in Stage 3 – Committee Stage with CD ballot

03.04.09.00.00	Information Technology - Database Language SQL - Part 9: Management of External Data (Subdivision subject to JTC 1 endorsement)
[ISO-id 31370]	ISO/IEC CD 9075-9

2.3 RESOURCES

Adequate resources are available for all projects. Conveners have come forward for each of the newly formed WGs. The SC Secretariat was transferred to Pacific Northwest National Laboratory who operates SC 32 on behalf of ANSI. The committee now has a permanent chairman, Mr. Bruce Bargmeyer.

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/MM, electronic commerce 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, another part of ISO/IEC 9075 will initiate 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 and the revision of ISO/IEC 11179-3. The January 2000 SC 32/WG 2 meeting will include an Open Forum to describe the current ISO /IEC 11179 standards and implementations while gathering information and requirements.

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 emphasize 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. The first major meeting for SC 32 in June-July 1998, however, was able to make considerable progress in formulating a new working structure, scope and title, as well as identify and begin establishing critical inter- and intra-group understanding and liaisons. At the June-July meeting, the group worked cooperatively, and was able to satisfy all the constituent interests. The subcommittee has set a period at the future meetings for each working group to provide tutorials on their activities for the other working groups.

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.

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 new Technical Direction has the opportunity to utilize the resources of its three original constituent bodies into five Working Groups to develop standards and advance its program of work more effectively than they could have by working independently. One area where SC 32 standards could have a major impact is electronic commerce. The Internet, Intranets, and extranets are generating increasing demand for data and metadata management and interchange. We see electronic commerce, XML and ontologies as areas of opportunity, with a recognized need for our existing standards and for new work that extends our existing standards. SC 32 has received with interest the report of the Business Team on Electronic Commerce and is making a strong and positive response to it. We will continue to work with the others involved to identify the specific standardization needs and to respond with current and newly proposed standards.

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. SC 32 key priority is completing the work that was established in its former committees. The committee has established a priority of educating each working group of the work and ideas of the other work groups. The Brisbane meeting has shown that there is considerable interest in the synergy that can be developed within the committee. The next SC 32 meeting will include tutorials from each work group.

Part 2 SC 32 Statistical Report

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

Participating National Bodies

National Body	Organization	Web Link
Australia	SAA	www.standards.org.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 Bodies

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 Group	Organization	Liaison from JTC 1/SC 32	Topic	Liaison to JTC 1/SC 32 from Organization	Email to
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		Mrs C Galinski, ON Austria	Firmapost@nsf.telemax.no Christian@telekabel.at
ISO/TC 37/SC 3	Terminology/Computer Applications			Mr. Gotfried Herzog, DIN German	Herzog@NABD.DIN.DE
ISO/TC 46	Information and documentation		Verified 981030	Mrs. E. Lechner, DIN Germany	LECHNER@NABD.DIN.DE
ISO/TC 46/WG 2	Information and documentation/Coding of country names and related entities	Jake Knoppers	Verified 981030		Documents received thru TC 46
ISO/TC 46/SC 3	Information and documentation/ Terminology				isiri.infoc@neda.net
ISO/TC 46/SC 4	Information and documentation/Computer applications			Pat Harris (NISO)	pharris@cni.org
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	Bill Olle	Basic Semantic Register		Hennig@NBUE.DIN.DE

ISO/TC 184	Industrial automation systems and integration			Mrs. C. Hermetet-Filez, AFNOR France	International@email.afnor.fr
ISO/TC 184/SC 4	Industrial automation systems and integration/ Industrial data			Mrs. C. Hermetet-Filez, AFNOR France	sc4sec@cme.nist.gov
ISO/TC 204	Transport Information and Control Systems	Andy Schoka	Transportation Verified 981015		arlan@sae.org jbrandt@sae.org
ISO/TC 211	Geographic information/Geomatics	Mark Ashworth David Gradwell	Geographic Information Verified 981016	John Herring	Bjornhild.Saeteroy@nts.no jrherrin@us.oracle.com
ISO/TC 215	Healthcare Informatics	Robert Mayes	Healthcare Informatics		tcendrow@astm.org
ISO/IEC JTC 1/SC 1	Vocabulary		Verified 981016 SC 1 secretariat in question see email	France H. LaFargue	france.lafargue@email.afnor.fr
ISO/IEC JTC 1/SC 2	Coded character sets	Kohji Shibano	Coded character sets Verified 981016	Toshiko Kimura	kimura@itscj.ipsj.or.jp
ISO/IEC JTC 1/SC 6	Telecommunications and information exchange between systems	John Hadjiannou	ASN.1	Jean Shildneck	jshildne@ansi.org
ISO/IEC JTC 1/SC 7	Software Engineering	Steven van't Veld Mike Newton	ODP Enterprise Viewpoint Reference Model (RM-ODP)	Jean-Norman Drouin	fcoallie@qc.bell.ca
ISO/IEC JTC 1/SC 7/WG 11	Software engineering/Life cycle management	Jean Berube	Data definition and representation		williamsja%am5@mr.nawcad.nav This address is bad
ISO/IEC JTC 1/SC 22		Frank Farance	Verified 981015	Isak Korn	isak@image.dk
ISO/IEC JTC 1/SC 22/WG 20	Programming languages/Internationalization	Jim Melton	Internationalization Verified 981015	Arnold Winkler	arnold.winkler@unisys.com
ISO/IEC JTC 1/SC 22/JSG	Programming languages/Java Study Group	Nelson Mattos Frank Farance	Java Verified 981015	Bob Mathis	bob@pithecanthropus.com
ISO/IEC JTC 1/SC 27	IT Security Techniques			Krystyna Passia	passia@ni.din.de

ISO/IEC JTC 1/SC 29	Coding of audio, picture, multimedia and hypermedia information		Will discuss at the responded 981019 march 99 SC 29mtg	Narumi Hirose	hirose@itsci.ipsj.or.jp
ISO/IEC JTC 1/SC 31	Automatic identification and data capture techniques	Sandra K Paul	Verified 990121	Sandra K Paul Maria Schneider	mschneider@mail.uc-council.org
ISO/IEC JTC 1/SC 34	Document Description and Processing Languages	Mike Brough	SGML Verified 981019		masonjd@ornl.gov
IEC 93	Design Automation			Greg Ledenbach	greg.w.ledenbach@intel.com
CEN/ISSS EC	Information Society Standardization System – Electronic Commerce XML-EDI	Bill Olle	Electronic Commerce and Metadata for Multimedia Verified 981015	Luc Van den Berghe	luc.vandenbergh@cenorm.be
CEN/ISSS MM	Information Society Standardization System – Multimedia Metadata	Bill Olle	Electronic Commerce and Metadata for Multimedia Verified 981015	Luc Van den Berghe	luc.vandenbergh@cenorm.be
CEN/TC 310 AMT	Advanced Manufacturing Technologies	Bill Olle	Data	Paul Leadbeater	paul_leadbeater@bsi.org.uk

JTC 1/SC 32 External Liaisons

Category: A Liaisons

Acronym	Organization	Liaison from JTC 1/SC 32 to Organization	Liaison to JTC 1/SC 32 from Organization	Email to	Address
INTELSAT	International Telecommunications Satellite Organization		Tokuo Oishi (Colin Amor) verified 19981026	colin.amor@intelsat.int	International Telecommunications Satellite Organization (INTELSAT) c/o Colin Amor 3400 International Drive, NW Washington, DC 20008-3098 USA
ISBT	International Society of Blood Transfusion			?	International Society of Blood Transfusion National Directorate Gateway House Piccadilly South GB-MANCHESTER M60 7LP United Kingdom
ITU-T	International Telecommunications Union – Telecommunication Standardization Sector	Wolfgang Wolleber	Conceptual Schema Modelling	tsbedh@itu.int	International Telecommunications Union – Telecommunication Standardization Sector Place des Nations CH-1211 GENEVE 20 Switzerland
SITA	Societe Internationale de Telecommunications (Airline Telecommunications & Information Services)			?	Airline Telecommunications & Information Services 112 Avenue Charles-de-Gaulle F-95522 NEUILLY-SUR-SEINE CEDEX France
UNCTAD	UN Conference on Trade and Development			?	UN Conference on Trade and Development Palais des Nations CH-1211 GENEVE Switzerland
UN/ECE/CEFACT	UN Economic Commission for Europe/CEFACT	Paul Levine	Klaus-Dieter Naujok	?	UN Economic Commission for Europe CEFACT Palais des Nations CH-1211 GENEVE 10 Switzerland

Category: B Liaisons (No liaison representatives are assigned)

Acronym	Organization	Liaison from JTC 1/SC 32 to Organization	Liaison to JTC 1/SC 32 from Organization	E-mail	Address
CEPT	European Conference of Postal and Telecommunications Administrations				European Conference of Postal and Telecommunications Administrations Office de liaison Seilerstrasse 22 Case postale 1283 CH-3001 BERN Switzerland
CERN	European Organization for Nuclear Research				European Organization for Nuclear Research CH-1211 GENEVE 23 Switzerland
CISAC	Confederation internationale des societes d'auteurs et compositeurs		Dominique Yon verified 19981202	Cisac@cisac.org	Confederation internationale des societes d'auteurs et compositeurs 11, rue Keppler F-75116 PARIS France
ECMA	European Computer Manufacturers Association				ECMA 114, rue du Rhone CH-1204 GENEVE Switzerland
ESA	European Space Association				European Space Association 6 Catherine Street GB-LONDON WC2B 5JJ United Kingdom
ETDE	Energy Technology Data Exchange			Debbie_cutler@ccmail.osti.gov	IEA Energy Technology Data Exchange (ETDE)Office of Scientific and Technical Information U.S. Department of Energy P.O. Box 1000 Oak Ridge TN 37831 USA
EWICS	European Workshop on Industrial Computer Systems				European Workshop on Industrial Computer Systems C/o Mr.Werner Koblitz Chaitman EWICS TC 1 Technical University Vienna Karlplatz 13 A-1040 VIENNA Austria

IFIP	International Federation for Information Processing				IFIP Education IT Martineau Centre, Balden Road Birmingham, B32 2EH UK
IPTC	International Press Telecommunications Council				
SWIFT	Society for Worldwide Interbank Financial Telecommunication			Frank.vandamme@swift.com Ph 32 2 655 4579 Fax 32 2 655 4552 [confirm 30 Nov 98]	Mr. Frank VANDAMMEE S.W.I.F.T. sc Standards Department 1, avenue Adele B-1310 LA HULPE Belgium
UNESA	UN-Under-Secretary for Economic and Social Affairs				United Nations (UN) Under-Secretary for Economic and Social Affairs United Nations New York, NY 10017 USA
UPU	Universal Postal Union				Universal Postal Union Case postale CH-3000 BERN Switzerland
WIPO	World Intellectual Property Organization				World Intellectual Property Organization 34, chemin des Colombettes CH-1211 GENEVA Switzerland
WMO	World Metrological Organization		verified 19981210		World Metrological Organization Case postale 2300 CH-1211 GENEVE 2 Switzerland

Category: C-Liaisons

Acronym	Organization	Liaison from JTC 1/SC 32 to Organization	Liaison to JTC 1/SC 32 from Organization	Email to	Address
ExpertnetSA	ExpertnetSA MEDSEC (Health Care Security and Privacy in the Information Society)	John Hadjioannou (WG 5)		nickt@expertnet.hol.gr	
OMG	Object Management Group	Harold Sobrig (WG 2 - Object Mgmt) Thomas Culpepper (WG 2 - Object Mgmt)	Henry Lowe Harold Sobrig Thomas Culpepper Verified 981106	henry@omg.org	Object Management Group 492 Old Connecticut Path Framingham, MA 01701 U.S.A.
Open Group	Open Group	John Hadjioannou (WG 5) Paul Cotton (WG 3 - SQL Conformance Testing)		?	
OGC	Open GIS Consortium	Mark Ashworth (WG 4)	Verified 981016	Kurt@opengis.org Kurt Buehler	Open GIS Consortium 35 Main Street, Suite 5 Wayland MA 01778-5037 USA
W3C	WWW Consortia	Bruce Bargmeyer (SC32) Eliot Christian (WG 2) Paul Cotton (WG 3, 4 - XML)	verified 19981201	?	W3C Team Massachusetts Institute of Technology Laboratory for Computer Science 545 Technology Square Cambridge, MA 02139 USA

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://208.226.167.205/sc32/jtc1sc32.nsf>

Members Email: SC32-email@nist.gov

News Email: SC32-news@nist.gov

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:

Members Email:

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:

Members Email:

News Email:

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 perspective.

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, semantic components;
2. identification and specification of formal description techniques for describing classes of business requirements and their contextual and semantic specification;
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: www.telmo.fi/sty/sc30wg1

Members Email:

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 media.

Web: www.metadata.aihw.gov.au

Members Email: SC32WG2-email@nist.gov

News Email: SC32WG2-news@nist.gov

Ftp: <ftp://sdct-sunsv1.ncsl.nist.gov/x3l8/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:

Members Email: sc32_1st@oak.informix.com

News Email:

Ftp:

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:

Members Email: sqlmm@tiu.ac.jp

News Email:

Ftp:

SC 32/WG 05 Remote Database Access (RDA)

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:

Members Email:

News Email:

Ftp:

2.4 SC 32 Projects

<i>SC/WG Project Project Title</i>	<i>Project Editor</i>	<i>ISO/IEC Design Document</i>		<i>Reference</i>		
		<i>NP</i>	<i>CD</i>	<i>FCD</i>	<i>FDIS</i>	<i>IS</i>
		<i>TARGET ACTUAL</i>	<i>TARGET ACTUAL</i>	<i>TARGET ACTUAL</i>	<i>TARGET ACTUAL</i>	<i>TARGET ACTUAL</i>

SC 32/RG 01 Reference Model for Data Management Maintenance

<i>SC 32/RG 01</i>	<i>Schnarr, Rick</i>	<i>ISO/IEC 10032 : 1995</i>		<i>FCD</i>	<i>FDIS</i>	<i>IS</i>
		<i>NP</i>	<i>CD</i>			
		<i>TARGET ACTUAL</i>	<i>TARGET ACTUAL</i>	<i>TARGET ACTUAL</i>	<i>TARGET ACTUAL</i>	<i>TARGET ACTUAL</i>
30.01.00.00.00	[17995 / 10032	/	60.60			
Information Technology - Reference Model of Data Management						1995-05

SC 32/RG 02 Export/Import Maintenance

<i>SC 32/RG 02</i>	<i>Berube, Jean</i>	<i>ISO/IEC CD 13238-1</i>		<i>FCD</i>	<i>FDIS</i>	<i>IS</i>
		<i>NP</i>	<i>CD</i>			
		<i>TARGET ACTUAL</i>	<i>TARGET ACTUAL</i>	<i>TARGET ACTUAL</i>	<i>TARGET ACTUAL</i>	<i>TARGET ACTUAL</i>
58.01.00.00.00	[29940 / 13238-01	/	30.20			
Information Technology - Data Management Export/Import Facilities - Part 1: Standardization Framework						1997-09 1999-09 2000-02 2000-08 1997-11
58.02.00.00.00	[29941 / 13238-02	/	30.20			
Information Technology - Data Management Export/Import Facilities - Part 2: SQL Export/Import						1997-09 1999-09 2000-02 2000-08 1997-11
58.03.00.00.00	[21473 / 13238-03	/	60.00			
Information Technology - Data Management Export/Import Facilities - Part 3: Export/Import Facilities for IRDS (Final Text - SC 32 N 174)						1995-01 1995-03 1996-01 1997-06 1998-11 1998-08

SC 32/WG 01 Open-edi

<i>SC 32/WG 01</i>	<i>*to be defined*</i>	<i>ISO/IEC AWI 15944</i>		<i>FCD</i>	<i>FDIS</i>	<i>IS</i>
		<i>NP</i>	<i>CD</i>			
		<i>TARGET ACTUAL</i>	<i>TARGET ACTUAL</i>	<i>TARGET ACTUAL</i>	<i>TARGET ACTUAL</i>	<i>TARGET ACTUAL</i>
30.02.00.00.00	[30608 / 15944	/	20.00			
Information Technology - Business Agreement Semantic Descriptive Techniques						1993-10 1995-04

SC/WG	Project Editor	ISO/IEC Design Document	Reference				
			NP	CD	FCD	FDIS	IS
Project			TARGET	TARGET	TARGET	TARGET	TARGET
Project Title			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
SC 32/WG 02	Gradwell, David	ISO/IEC 10728 :1993/Amd 3:1998					
06.02.03.00.00	[27123 / 10728	/ 60.60]					
Information Technology - Information Resource Dictionary System (IRDS) Service Interface - Amendment 3: CORBA IDL Binding							
							1996-12
SC 32/WG 02	Horiuchi, Hajini	ISO/IEC 10728 :1993/Amd 4:1998					
06.02.04.00.00	[28052 / 10728	/ 60.60]					
Information Technology - Information Resource Dictionary System (IRDS) Service Interface - Amendment 4: Remote Procedure Call IDL Binding							
				1996-05		1998-02	1998-08
				1996-08		1997-03	1998-08
SC 32/WG 02	Bartley, Don	ISO/IEC NP 17415					
06.06.00.00.00	[31371 / 17415	/ 10.00]					
Information Technology - IRDS Content Module - Design Support for SQL Applications							
				1998-09	1999-07	2000-04	2000-07
SC 32/WG 02	Bourne, Tim	ISO/IEC CD 10728				SC 32 N0095	
06.07.00.00.00	[25838 / 10728	/ 30.20]					
Information Technology - Information Resource Dictionary System (IRDS) Services Interface (Revision of ISO/IEC 10728:1993) Extensions to IRDS Services Interface							
				1997-09	2001-01	2001-10	2002-01
				1998-03			
SC 32/WG 02	Gradwell, David	ISO/IEC WD 10027 edition 2				SC 32 N10412	
06.08.00.00.00	[20189 / 10027	/ 20.20]					
Information Processing Systems - Information Resource Dictionary System (IRDS) Framework (Revision of ISO/IEC 10027:1990)							
				1999-07	2000-07	2001-04	2001-07
SC 32/WG 02	Gradwell, David	ISO/IEC FDIS 13645				SC 32 N10940	
06.09.00.00.00	[21852 / 13645	/ 40.60]					
Information Technology - Guidelines for the Design of IRDS Content Modules							
					1995-01	1998-10	1999-01
					1996-08		
SC 32/WG 02	Gradwell, David	ISO/IEC FDIS 13237				SC 32 N11032	
06.09.01.00.00	[21472 / 13237	/ 40.60]					
Information Technology - IRDS Content Module to Support a Naming and Thesaurus Facility							
				1995-07	1998-10	1999-07	1999-10
				1997-09			

SC/WG Project Project Title	Project Editor	ISO/IEC Design Document		Reference		
		NP	CD	FCD	FDIS	IS
		TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL
SC 32/WG 02		ISO 2955 : 1983				
14.02.00.00.00	[8005 / 02955	/	90.93]			
Information processing - Representation of SI and other units in systems with limited character sets (Proposed to JTC 1 for withdrawal)						
SC 32/WG 02		ISO/IEC 7826-1 : 1994				
14.03.01.00.00	[14748 / 07826-01	/	60.60]			
Information technology - General structures for the interchange of code values - Part 1: Identification of coding schemes (Recommended for withdrawal to ITTF - Five Year Review)						
SC 32/WG 02	*to be defined*	ISO/IEC 7826-2 : 1994				
14.03.02.00.00	[20686 / 07826-02	/	60.60]			
Information technology - General structure for the interchange of code values - Part 2: Registration of coding schemes (Recommended for withdrawal to ITTF - Five Year Review)						
SC 32/WG 02	*to be defined*	ISO/IEC 6523-1: 1998				
14.04.01.00.00	[25773 / 06523-01	/	60.00]			
Information Technology - Structure for the identification of organizations and organization parts - Part 1: Identification of organization schemes						
					1997-06	1999-06 1998-06
SC 32/WG 02	*to be defined*	ISO/IEC 6523-2: 1998				
14.04.02.00.00	[25774 / 06523-02	/	60.00]			
Information Technology - Structure for the identification of organizations and organization parts - Part 2: Registration of organization identification schemes						
					1997-06	1999-06 1998-06
SC 32/WG 02	*to be defined*	ISO 6709 : 1983				
14.06.00.00.00	[13152 / 06709	/	90.92]			
Standard representation of latitude, longitude and altitude for geographic point locations (Review at Matsue for moving to TC 211)						

SC/WG Project Project Title	Project Editor	ISO/IEC Design Document		Reference			
		NP	CD	FCD	FDIS	IS	
		TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL	
SC 32/WG 02 14.08.00.00.00 Information Technology - Specification of Data Element Concepts (propose for deletion at Matsue)	Ngo, Phong [28698 / 17413	ISO/IEC NP 17413 / 10.00]		2000-12	2001-08	2002-03	2002-07
SC 32/WG 02 14.09.00.00.00 Information technology - Specification of Data Value Domain	Newton, Judith [27695 / 15452	ISO/IEC DTR 15452 / 30.20]		1998-01	1999-05	1999-12 1998-09	2000-05
SC 32/WG 02 14.10.00.00.00 Information interchange - Representation of human sexes	Hunter, David [11219 / 05218	ISO 5218 : 1977 / 90.92]					
SC 32/WG 02 14.10.01.00.00 Information interchange - Representation of human sexes (Revision of ISO 5218:1977)	Hunter, David [31365 / 05218	ISO/IEC AWI 5218 / 20.00]		1999-05	1999-12	2000-05	2000-08
SC 32/WG 02 14.14.02.00.00 Information technology - Guidelines for the organization and representation of data elements for data interchange - Coding methods and principles	*to be defined* [17651 / 09789	ISO/IEC TR 9789 : 1994 type 3 / 60.60]					
SC 32/WG 02 14.15.00.00.00 Data processing - Check character system (Proposed to JTC 1 for withdrawal)	*to be defined* [13631 / 07064	ISO 7064 : 1983 / 90.92]					
SC 32/WG 02 14.16.00.00.00 Information technology - Representation of data elements values: Notation of the format	Thienot, Alain [2365 / 14957	ISO/IEC 14957 : 1996 / 60.60]					

SC/WG Project Project Title	Project Editor	ISO/IEC Design Document		Reference		
		NP	CD	FCD	FDIS	IS
		TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL
SC 32/WG 02 14.17.01.00.00 Information technology - Specification and standardization of data elements - Part 1: Framework for the specification and standardization of data elements	Gillman, Dan [2349 / 11179-01	ISO/IEC FDIS 11179-1 / 40.20]		SC 32 N0186 1998-11 1999-02	1999-03	1999-06
SC 32/WG 02 14.17.02.00.00 Information Technology - Specification and standardization of data elements - Part 2: Classification for data elements	Bargmeyer, Bruce [2317 / 11179-02	ISO/IEC FDIS 11179-2 / 40.20]	1997-09 1998-02	SC 32 N0057 1998-03	1999-03	1998-12
SC 32/WG 02 14.17.03.00.00 Information technology - Specification and standardization of data elements - Part 3: Basic attributes of data elements	Christensen, Joe [19184 / 11179-03	ISO/IEC 11179-3 : 1994 / 90.92]				
SC 32/WG 02 14.17.04.00.00 Information Technology - Specification and standardization of data elements - Part 3: Basic attributes of data elements (Revision of ISO/IEC 11179-3:1994)	Christensen, Joe [31367 / 11179-03	ISO/IEC AWI 11179-3 / 20.00]	1998-07 1999-05	2000-05	2000-09	2000-12
SC 32/WG 02 14.17.05.00.00 Information technology - Specification and standardization of data elements - Part 4: Rules and guidelines for the formulation of data definitions	Bargmeyer, Bruce [23788 / 11179-04	ISO/IEC 11179-4 : 1995 / 60.60]				1995-06
SC 32/WG 02 14.17.06.00.00 Information Technology - Specification and standardization of data elements - Part 5: Naming and identification principles for data elements	Newton, Judith [1758 / 11179-05	ISO/IEC 11179-5 : 1995 / 60.60]				1995-06

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			NP	CD	FCD	FDIS	IS
			TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL

SC 32/WG 02	Ngo, Phong	ISO/IEC 11179-6 : 1997					
14.17.07.00.00	[1677 / 11179-06	/ 60.60]					
Information technology - Specification and standardization of data elements - Part 6: Registration of data elements							1995-06

SC 32/WG 02	King, Martin	ISO/IEC FDIS 14481			SC 32 N0171		
63.00.00.00.00	[22785 / 14481	/ 40.20]					
Information Technology - Conceptual Schema Modelling Facilities							1999-08
			1996-11	1998-08	1999-05		1999-08
			1997-01	1998-12			

SC 32/WG 03 Database Languages

			NP	CD	FCD	FDIS	IS
SC 32/WG 03	Cannan, Stephen	ISO/IEC 9075 : 1992 edition 3					
03.03.00.00.00	[16663 / 09075	/ 90.93]					
Information Processing Systems - Database Language SQL 2 (to be withdrawn upon publication of 9075-1, 9075-2 and 9075-5, SQL3)							1992-11

SC 32/WG 03	Cannan, Stephen	ISO/IEC 9075-3 : 1995					
03.03.01.00.00	[24357 / 09075-03	/ 90.92]					
Information Technology - Database Language SQL - Part 3: Call-Level Interface (for SQL2) (to be withdrawn upon publication of 9075-3, SQL3)							1995-12

SC 32/WG 03	Cannan, Stephen	ISO/IEC 9075-4 : 1996					
03.03.02.00.00	[24358 / 09075-04	/ 90.92]					
Information Technology - Database Language SQL - Part 4: Persistent Stored Modules (for SQL2) (to be withdrawn upon publication of 9075-4, SQL3)							1996-12

SC 32/WG 03	Melton, Jim	ISO/IEC FDIS 9075-1			SC 32 N0222		
03.04.01.00.00	[26196 / 09075-01	/ 40.20]					
Information Technology - Database Language SQL - Part 1: Framework (for SQL3)							1999-05
			1996-06	1999-03			1999-05
			1997-09	1999-03			

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			NP	CD	FCD	FDIS	IS	
			TARGET	TARGET	TARGET	TARGET	TARGET	
Project Title			ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	
SC 32/WG 03	*to be defined*	ISO/IEC 9075 : 1992/Cor 3						
03.04.01.01.00	[30673 / 09075	/ 30.99]						
Information technology- Database languages - SQL - Technical Corrigendum 3								
SC 32/WG 03	*to be defined*	ISO/IEC 9075-3 : 1995/Cor 1						
03.04.01.02.00	[31022 / 09075-03	/ 60.00]						
Information Technology - Database Language SQL - Part 3: Call-Level Interface (SQL/CLI) Technical Corrigendum 1								
SC 32/WG 03	*to be defined*	ISO/IEC 9075-4 : 1996/Cor 1						
03.04.01.03.00	[31023 / 09075-04	/ 60.00]						
Information Technology - Database Language SQL - Part 4: Persistent Stored Modules (SQL/PSM) Technical Corrigendum 1								
SC 32/WG 03	Melton, Jim	ISO/IEC FDIS 9075-2			SC 32 N0223			
03.04.02.00.00	[26197 / 09075-02	/ 40.20]						
Information Technology - Database Language SQL - Part 2: Foundation (SQL 3)						1996-06	1999-03	1999-05
						1997-09	1999-03	
SC 32/WG 03	Melton, Jim	ISO/IEC FDIS 9075-3			SC 32 N0176			
03.04.03.00.00	[30609 / 09075-03	/ 40.20]						
Information Technology - Database Language SQL - Part 3: Call-Level Interface (for SQL 3)						1998-09	1999-08	1999-12
						1998-08		
SC 32/WG 03	Melton, Jim	ISO/IEC FDIS 9075-4			SC 32 N0224			
03.04.04.00.00	[29864 / 09075-04	/ 40.20]						
Information Technology - Database Language SQL - Part 4: Persistent Stored Modules (for SQL 3)						1997-10	1999-03	1999-05
						1997-10	1999-03	

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		NP	CD	FCD	FDIS	IS
		TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL
SC 32/WG 03 03.04.05.00.00 Information Technology - Database Language SQL - Part 5: Language Bindings (for SQL 3)	Melton, Jim [26198 / 09075-05	ISO/IEC FDIS 9075-5 / 40.60]		SC 32 N0225 1996-06 1997-09	1999-03 1999-03	1999-05
SC 32/WG 03 03.04.06.00.00 Information Technology - Database Language SQL - Part 6: XA Specialization (for SQL3)	Melton, Jim [26199 / 09075-06	ISO/IEC WD 9075-6 / 20.20]		SC 32 N9467 1999-10	2000-06	2000-10
SC 32/WG 03 03.04.07.00.00 Information Technology - Database Language SQL - Part 7: Temporal (for SQL3)	Melton, Jim [30611 / 09075-07	ISO/IEC AWI 9075-7 / 20.00]		2000-06	2001-01	2001-05
SC 32/WG 03 03.04.09.00.00 Information Technology - Database Language SQL - Part 9: Management of External Data (Subdivision subject to JTC 1 endorsement)	Melton, Jim [31370 / 09075-09	ISO/IEC CD 9075-9 / 20.00]	1998-12 1998-12	32N0197 1999-09	2000-03	2000-07
SC 32/WG 03 03.04.10.00.00 Information technology --Database Language SQL - Part 10: Object language bindings	*to be defined* [30613 / 09075-10	ISO/IEC CD 9075-10 / 20.00]		32N0198 1998-10 1998-12	1999-10	2000-02

SC 32/WG 04 SQL Multimedia & Application Packages

SC 32/WG 04 Project Project Title	Project Editor	ISO/IEC Design Document		Reference		
		NP	CD	FCD	FDIS	IS
SC 32/WG 04 64.01.00.00.00 Information Technology - SQL Multimedia and Application Packages - Part 1: Framework	Newton, Mike [21484 / 13249-01	ISO/IEC FDIS 13249-1 / 40.20]		SC 32 N0188 1998-10 1999-03	1999-07	1999-10
SC 32/WG 04 64.02.00.00.00 Information Technology - SQL Multimedia and Application Packages - Part 2: Full -Text	Cotton, Paul [28053 / 13249-02	ISO/IEC FDIS 13249-2 / 40.20]		SC 32 N0014 1996-08 1997-11	1998-12	1999-03

SC/WG Project Project Title	Project Editor	ISO/IEC Design Document		Reference		
		NP	CD	FCD	FDIS	IS
		TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL
SC 32/WG 04 64.02.01.00.00 Information Technology - SQL Multimedia and Application Packages - Part 2: Full-Text (Revision of ISO/IEC DIS 13249-2) (Later Progression)	Cotton, Paul [31368 / 13249-02	ISO/IEC AWI 13249-2 / 20.00]		2000-06	2001-06	2001-09
SC 32/WG 04 64.03.00.00.00 Information Technology - SQL Multimedia and Application Packages - Part 3: Spatial	Ashworth, Mark [28054 / 13249-03	ISO/IEC FDIS 13249-3 / 40.20]	1996-08 1997-11		1998-09 1999-03	1998-12
SC 32/WG 04 64.03.01.00.00 Information Technology - SQL Multimedia and Application Packages - Part 3: Spatial (Revision of ISO/IEC DIS 13249-3) (Later Progression)	Ashworth, Mark [31369 / 13249-03	ISO/IEC WD 13249-3 / 20.00]		2000-06	2001-06	2001-09
SC 32/WG 04 64.04.00.00.00 Information Technology - SQL Multimedia and Application Packages - Part 4: General Purpose Facilities (WG recommendation to bring project back to WD stage - previously circulated as CD 13249-9 - SC 32 N 16)	Ashworth, Mark [30616 / 13249-04	ISO/IEC CD 13249-4 / 30.20]				
SC 32/WG 04 64.05.00.00.00 Information Technology - SQL Multimedia and Application Packages - Part 5: Still Image	Cotton, Paul [30617 / 13249-05	ISO/IEC CD 13249-5 / 30.20]	1997-07 1998-01	1998-10	1999-02	1999-10

SC 32/WG 05 Remote Database Access (RDA)

SC 32/WG 05 Project Project Title	Project Editor	ISO/IEC Design Document		FCD	FDIS	IS
		NP	CD			
		TARGET ACTUAL	TARGET ACTUAL			
SC 32/WG 05 31.01.00.00.00 Information Technology - Remote Database Access - Part 1: Generic Model, Service and Protocol (To be withdrawn upon publication of ISO/IEC 9579, Edition 1)	Patel, Dipak [17344 / 09579-01	ISO/IEC 9579-1 : 1993 / 90.60]				1993-12

SC/WG Project Project Title	Project Editor	ISO/IEC Design Document		Reference		
		NP	CD	FCD	FDIS	IS
		TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL	TARGET ACTUAL
SC 32/WG 05 31.02.01.00.00	Hadjioannou, John [27992 / 09579-02	ISO/IEC 9579-2 :1998 edition 2 / 90.92]				
Information Technology - Remote Database Access - Part 2: SQL Specialization - SECOND EDITION (To be withdrawn upon publication of ISO/IEC 9579, Edition 1)			1995-07 1995-11		1996-05 1996-10	1997-05 1998-01
SC 32/WG 05 31.03.00.00.00	*to be defined* [24405 / 09579-03	ISO/IEC 9579-3 : 1996 / 90.92]				
Information Technology - Remote Database Access - Part 3:SQL Protocol Implementation Conformance Statement Proforma (To be withdrawn upon publication of ISO/IEC 9579, Edition 1)						1996-12
SC 32/WG 05 31.04.00.00.00	Hadjioannou, John [29799 / 09579	ISO/IEC FDIS 9579 edition 1 / 50.00]			SC 32 N0145	
Information Technology - Remote Database Access for SQL (Proceed as 9579, Ed. 1, new edition of RDA consolidating all parts. To be withdrawn upon publication of ISO/IEC 9579, Ed. 2)				1997-09 1997-09	1998-05 1998-06	1998-10
SC 32/WG 05 31.04.01.00.00	Hadjioannou, John [30688 / 09579	ISO/IEC 9579/Damd 1 / 40.60]			SC 32 N0106	
Information technology - Remote database access for SQL (RDA/SQL). Amendment 1. Secure RDA.			1998-05 1998-04		1998-10	1999-03
SC 32/WG 05 31.04.02.00.00	*to be defined* [31373 / 09579	ISO/IEC 9579/AWI Amd 2 / 20.00]				
Information Technology - Remote Database Access for SQL (RDA/SQL) - Amendment 2: Distribution Schema for RDA				1999-08	2000-06	2000-10
SC 32/WG 05 31.04.03.00.00	*to be defined* [31372 / 09079	ISO/IEC 9579/AWI Amd 3 / 20.00]				
Information Technology - Remote Database Access for SQL (RDA/SQL) - Amendment 3: Encompassing Transaction (Subdivision subject to JTC 1 endorsement)				1999-08	2000-06	2000-10

SC/WG	Project Editor	ISO/IEC Design Document		Reference		
		NP	CD	FCD	FDIS	IS
Project		TARGET	TARGET	TARGET	TARGET	TARGET
Project Title		ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
SC 32/WG 05	Hadjoannou, John					
31.05.00.00.00	[30615 / 09079	/	20.00			
Information technology - Remote database access for SQL (RDA/SQL) - Support for SQL 3				1998-09	1999-08	1999-12

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