

ISO/IEC JTC 1/SC 32 N 0803

Date: 2002-05-16

REPLACES: --

ISO/IEC JTC 1/SC 32

Data Management and Interchange

Secretariat: United States of America (ANSI)

Administered by Pacific Northwest National Laboratory on behalf of ANSI

DOCUMENT TYPE	Resolutions
TITLE	JTC 1/SC 32 Plenary Resolutions, 2002-05-10, Seoul, Korea
SOURCE	SC 32 Secretariat
PROJECT NUMBER	
STATUS	Final Meeting Resolutions. This document includes: SC 32/WG 1 Resolutions SC32N805 SC 32/WG 2 Resolutions SC32N807 SC 32/WG 3 Resolutions SC32N809 SC 32/WG 4 Resolutions SC32N811
REFERENCES	
ACTION ID.	ACT
REQUESTED ACTION	
DUE DATE	
Number of Pages	64
LANGUAGE USED	English
DISTRIBUTION	P & L Members SC Chair WG Conveners and Secretaries

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

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

JTC 1/SC 32 Plenary Resolutions,
2002-05-10,
Seoul, Korea

Section 1 - Working Group Resolutions

Resolution 1: SC 32 Approval of Working Group 1 –Open-edi Resolutions

SC 32 approves the following Working Group 1 – Open-edi Resolutions
[WG 1 resolutions 1-12 will be incorporated into the above SC Resolutions 1-12. The WG 1
resolutions will be attached to this document.] **See SC32N0805**

Voted and Accepted

Unanimous

Resolution 2: SC 32 Approval of Working Group 2 –Metadata Resolutions

SC 32 approves the following Working Group 2 – Metadata Resolutions
[WG 2 resolutions 1-12 will be incorporated into the above SC Resolutions 1-12. The WG 2
resolutions will be attached to this document.] **See SC32N0807**

Voted and Accepted

Unanimous

Resolution 3: SC 32 Approval of Working Group 3 –Database Languages Resolutions

SC 32 approves the following Working Group 3 – Database Languages Resolutions
[WG 3 resolutions 1-12 will be incorporated into the above SC Resolutions 1-12. The WG 3
resolutions will be attached to this document.] **See SC32N0809**

Voted and Accepted

Unanimous

Resolution 4: SC 32 Approval of Working Group 4 –SQL Multimedia & Application Packages Resolutions

SC 32 approves the following Working Group 4 – SQL Multimedia & Application Packages
Resolutions
[WG 4 resolutions 1-12 will be incorporated into the above SC Resolutions 1-12. The WG 4
resolutions will be attached to this document.] **See SC32N0811**

Voted and Accepted

Unanimous

Resolution 5: Not Applicable

Resolution 6: SC 32 Approval of Rapporteur Group 1 – Reference Model for Data Management Maintenance Resolutions

No Action

Section 2 - Programme of Work Resolutions

Resolution 7: SC 32 Project Subdivisions

SC 32 approves the following subdivisions and minor enhancements to existing work:

This was covered in each of the Working Group Resolutions in 1 through 6 above. A consolidated list of Project Subdivisions will be prepared by the SC 32 Secretary and attached to the resolutions after the meeting.

Project Number	Title	Project Editor	Rationale Doc #
1.32.22.01.01.00	Framework for metamodel interoperability – Part 1: Reference model	Hajime Horiuchi, & Tim Bourne	(WG2-SEL-016R1)
1.32.22.01.02.00	Framework for metamodel interoperability – Part 2: Core (MOF/XMI Extensions)	Masaharu Obayashi, Doo-Kwon Baik	(WG2-SEL-016R1)
1.32.22.01.03.00	Framework for metamodel interoperability – Part 3: Metamodel for ontologies	Jean Berube	(WG2-SEL-016R1)
1.32.22.01.04.00	Framework for metamodel interoperability – Part 4: Metamodel for model mapping	Yasuyuki Fujikawa	(WG2-SEL-016R1)
1.32.15.03.03.00	Metadata registries (MDR) – Part 3: Registry metamodel and basic attributes (3 rd edition)	Ray Gates	(WG2-SEL-021)
1.32.16.01.00.00	Achieving metadata registry content consistency – Part 0: Overview	Ray Gates	(WG2-SEL-021)
1.32.17.01.00.00	Metadata registry – interoperability & bindings – Part 0: Overview & framework	Frank Farance	(WG2-SEL-029)
1.32.17.01.02.00	Metadata registry – interoperability & bindings – Part 2: Attribute mapping	Frank Farance	(WG2-SEL-029)
1.32.17.01.63.00	Metadata registry – interoperability & bindings – Part 63: SOAP binding	Frank Farance	(WG2-SEL-029)
1.32.17.01.64.00	Metadata registry – interoperability & bindings – Part 64: WSDL binding	Frank Farance	(WG2-SEL-029)
1.32.19.02.00.00	Representation of data element values – Notation of format	Frank Farance	(WG2-SEL-030)
1.32.03.06.01.00	SQL/Framework	Jim Melton	32N0825
1.32.03.06.02.00	SQL/Foundation	Jim Melton	32N0825
1.32.03.06.03.00	SQL/CLI	Jim Melton	32N0825
1.32.03.06.04.00	SQL/PSM	Jim Melton	32N0825
1.32.03.06.09.00	SQL/MED	Jim Melton	32N0825
1.32.03.06.10.00	SQL/OLB	Jim Melton	32N0825
1.32.03.06.11.00	SQL/Schemata	Jim Melton	32N0825
1.32.03.06.13.00	SQL/JRT	Jim Melton	32N0825
1.32.03.06.14.00	SQL/XML	Jim Melton	32N0825
1.32.04.03.01.00	Information technology - SQL Multimedia and Application Packages - Part 1: Framework 3 rd ed.	Takaaki Shiratori	(WG4N0031)
1.32.04.03.02.00	Information technology - SQL Multimedia and Application Packages - Part 2: Full-Text 3 rd ed.	Mark Ashworth	(WG4N0031)
1.32.04.03.03.00	Information technology - SQL Multimedia and Application Packages - Part 3: Spatial 3 rd ed.	Mark Ashworth	(WG4N0031)

Project Number	Title	Project Editor	Rationale Doc #
1.32.04.03.05.00	Information technology - SQL Multimedia and Application Packages - Part 5: Still Image 3 rd ed.	Mark Ashworth	(WG4N0031)
1.32.04.02.06.00	Information technology - SQL Multimedia and Application Packages - Part 6: Data Mining 2 nd ed.	Christoph Lingenfelder	(WG4N0031)

Rationale Summary:

SC 32 instructs its Secretariat to forward these subdivisions to JTC 1 for endorsement upon receipt of the rationale texts.

Voted and Accepted

Unanimous

Resolution 8: SC 32 Project Withdrawals

SC 32 approves the following withdrawals from existing work:

This was covered in each of the Working Group Resolutions in 1 through 6 above. A consolidated list of Project Withdrawals will be prepared by the SC 32 Secretary and attached to the resolutions after the meeting.

Project Number	Title	Rationale Doc #
1.32.21.02.00.00	AWI 15452 Specification of data value domains	(WG2-SEL-023)

Rationale Summary:

Project 1.32.21.02.00.00 is superseded by project 1.32.16.01.03.00

SC 32 instructs its Secretariat to forward these withdrawals to JTC 1 for endorsement upon receipt of texts.

Voted and Accepted

Unanimous

Resolution 9: Standards Due for Periodic Review

SC 32 approves the following:

This was covered in each of the Working Group Resolutions in 1 through 6 above. A consolidated list of Standards Due for Periodic Review will be prepared by the SC 32 Secretary and attached to the resolutions after the meeting.

Project Number	Title	Recommendation
1.32.30.01.00.00	ISO 14662: Information technology – Open-edi Reference Model	Revision of this standard is recommended. Upon receipt of the revised text WG1 requests SC32 to send the document for FCD ballot.
1.32.19.01.00.00	Representation of data element values – Notation of the format	Open revision under sub-project 1.32.19.02.00.00

SC 32 instructs its Secretariat to inform the ITTF of the above recommendations.

Voted and Accepted

Unanimous

Resolution 10: SC 32 New Projects

SC 32 approves the following proposals for new work:

This was covered in each of the Working Group Resolutions in 1 through 6 above. A consolidated list of New Projects will be prepared by the SC 32 Secretary and attached to the resolutions after the meeting.

Title	NWI Doc #
NWI on CG and KIF (working title)	(WG2-SEL-024)

SC 32 instructs its Secretariat to forward these proposals to JTC 1 for endorsement upon receipt of texts.

Voted and Accepted

Unanimous

Resolution 11: Study Periods

SC 32 instructs its Secretariat to submit, upon receipt of texts, the following Proposals for Study Period to JTC 1:

This was covered in each of the Working Group Resolutions in 1 through 6 above. A consolidated list of Proposals for Study Periods will be prepared by the SC 32 Secretary and attached to the resolutions after the meeting.

Title	Study Period Doc #
Proposal for Study Period on Harmonization of registry standards, including UDDI, OASIS/ebXML XML registry, 11179.	(WG2-SEL-028)

Voted and Accepted

Unanimous

Section 3 - Project Document Resolutions

Resolution 12: Committee Draft (CD) Ballots (CD, PDAM, PDISP, PDTR)

This was covered in each of the Working Group Resolutions in 1 through 6 above. A consolidated list of Committee Draft Documents will be prepared by the SC 32 Secretary and attached to the resolutions after the meeting.

Upon receipt of texts, SC 32 instructs its Secretariat to register as CDs, PDAMs, PDISPs, PDTRs and issue letter ballots on the following projects:

Project Number	CD	Title	Date Expected
1.32.31.01.02.00	15944-2	Information technology - Business Agreement Semantic Descriptive Techniques Part 2: Registration of Scenarios and their Components as Business Objects	June 2002
1.32.31.01.03.00	15944-3	Information technology - Business Agreement Semantic Descriptive Techniques Part 3: Open-edi Descriptive Techniques	October 2002
1.32.31.01.04.00	15944-4	Information technology - Business Agreement Semantic Descriptive Techniques Part 4: Business Transactions and Scenarios – Accounting and Economic Ontology	October 2002
1.32.20.01.00.00	18038	Identification and Mapping of Various Categories of Jurisdictional Domains	October 2002
1.32.15.02.01.00	CD 11179-1	Metadata registries (MDR) – Part 1: Framework	2002-09-01
1.32.15.02.02.00	CD 11179-2	Metadata registries (MDR) – Part 2: Classification	2002-09-01
1.32.15.02.05.00	CD2 11179-5	Metadata registries (MDR) – Part 5: Naming and identification principles	2002-08-01
1.32.17.01.00.00	CD 20944-0	Metadata registry interoperability and bindings – Part 0: Overview and framework	2002-08-01
1.32.17.01.01.00	CD 20944-1	Metadata registry interoperability and bindings – Part 1: Conformance	2002-08-01
1.32.17.01.02.00	CD 20944-2	Metadata registry interoperability and bindings – Part 2: Attribute mapping	2002-08-01
1.32.17.01.20.00	CD 20944-20	Metadata registry interoperability and bindings – Part 20: Coding binding overview	2002-08-01
1.32.17.01.21.00	CD 20944-21	Metadata registry interoperability and bindings – Part 21: XML binding	2002-08-01
1.32.17.01.22.00	CD 20944-22	Metadata registry interoperability and bindings – Part 22: DNVP binding	2002-08-01
1.32.17.01.40.00	CD 20944-40	Metadata registry interoperability and bindings – Part 40: API binding overview	2002-08-01
1.32.17.01.41.00	CD 20944-41	Metadata registry interoperability and bindings – Part 41: C binding	2002-08-01
1.32.17.01.42.00	CD 20944-42	Metadata registry interoperability and bindings – Part 42: C++ binding	2002-08-01
1.32.17.01.43.00	CD 20944-43	Metadata registry interoperability and bindings – Part 43: Java binding	2002-08-01
1.32.17.01.44.00	CD 20944-44	Metadata registry interoperability and bindings – Part 44: Javascript binding	2002-08-01

Voted and Accepted

Unanimous

Resolution13: Final Committee Draft (FCD) Ballots

This was covered in each of the Working Group Resolutions in 1 through 6 above. A consolidated list of Committee Draft Documents will be prepared by the SC 32 Secretary and attached to the resolutions after the meeting.

Upon receipt of texts, SC 32 instructs its Secretariat to register as FCDs and issue letter ballots on the following projects:

Project Number	FCD	Title	Date Expected
1.32.30.01.00.00	ISO 14662 (Revision)	Information technology – Open-edi Reference Model	2002-05-17
1.32.15.02.04.00	FCD 11179-4	Metadata registries (MDR) – Part 4: Formulation of data definitions	2002-08-01
1.32.16.01.03.00	FPDTR 20943-3	Achieving metadata registry content consistency – Part 3: Value domains	2002-08-31

Voted and Accepted

Unanimous

Resolution 14: Final Draft International Standard (FDIS) Ballots (FDIS, FDAM, DTR)

This was covered in each of the Working Group Resolutions in 1 through 6 above. A consolidated list of Committee Draft Documents will be prepared by the SC 32 Secretary and attached to the resolutions after the meeting.

Upon receipt of texts, SC 32 requests its SC 32 Secretariat to register as FDISs, FDAMs, DTRs and submit to ITTF for the following projects:

Project Number	FDIS	Title	Date Expected
1.32.30.01.00.00	ISO 14662 (Revision)	Information technology – Open-edi Reference Model	October 2002
1.32.15.02.03.00	FDIS 11179-3	Metadata registries (MDR) – Part 3: Registry metamodel and basic attributesf	2002-05-31
1.32.16.01.01.00	DTR 20943-1	Achieving metadata registry content consistency – Part 1: Data elements	2002-08-01
1.32.04.02.01.00	FDIS 13249-1	Information technology - SQL Multimedia and Application Packages - Part 1: Framework 2 nd ed.	2002-07

Voted and Accepted

Unanimous

Section 4 - Liaison Resolutions/Assignments and Editor Assignments

Resolution 15: SC 32 Liaison Assignments

SC 32 approves the internal liaison assignments contained in **SC 32 N 0801, SC 32 N 0802**

Voted and Accepted

Unanimous

Resolution 16: SC 32 Approval of New External Class "C" Liaisons - NONE

Resolution 17: SC 32 Project Editor Assignments

SC 32 approves the Programme of Work, Target Dates and Project Editor Assignments contained in **SC 32 N 0799**.

Voted and Accepted

Unanimous

Section 5 - SC 32 Administrative Resolutions

Resolution 18: SC 32 Approval of the SC 32 Business Plan

SC 32 approves the SC 32 Business Plan contained in part 1 of SC 32 N **0783**.

Voted and Accepted

Unanimous

Resolution 19: SC 32 Meeting Calendar

SC 32 approves the following Meeting Calendar and expresses its appreciation to the National Bodies that have volunteered to host future meetings. Working Groups may schedule their own interim meetings but must advise the SC 32 Secretariat of these meetings

From	To	Meeting/Purpose	Location
2003-01-27	2003-01-31	SC 32	Santa Fe, USA
Early 2004		SC 32	China (tentative)
Early 2005		SC 32	Germany (tentative)
2006		SC 32	Brazil (tentative)
		WG 1	
2002-09-30	2002-10-04	SC 32/WG 1 Meeting	Ottawa, Canada
2003-01-20	2003-01-24	SC 32/WG 1 Meeting	Santa Fe, USA
June 2003		SC 32/WG 1 Meeting	Japan (tentative)
Early 2004		SC 32/WG 1 Meeting	China (tentative)
2003-01-16	2003-01-17	SC 32/WG1 Editing meetings	Santa Fe, NM, USA
		WG 2	
2003-01-20	2003-01-24	Meta Data Open Forum	Santa Fe, NM, USA
2003-01-27	2003-01-31	SC32/WG2 meeting	Santa Fe, NM, USA
2003-02-03	2003-02-05	SC 32/WG2 Editing meetings	Santa Fe, NM, USA
2003 Oct/Nov		SC32/WG2 interim meeting (tentative)	Australia
		WG 3	
2002-06-17	2002-07-12	Interim Editing Meeting E3C, for ISO/IEC 9075 Parts 1, 2, 3, 4, 9, 10, and 11	Electronic
2002-09-23	2002-10-05	FCD ballot resolution meetings, for ISO/IEC 9075 Parts 1, 2, 3, 4, 9, 10, 11, 13 and 14.	Dresden
2002-09-23	2002-10-04	SC 32/WG3 meeting to progress 1.32.03.06 and 1.32.53.01	Dresden
2003-01-27	2003-01-31	SC 32/WG3 meeting to progress 1.32.03.06 and 1.32.53.01	Santa Fe
		WG 4	
2002-10-07	2002-10-11	ISO/IEC 13249 Parts 2, 3, and 5 DCOR editing. ISO/IEC 13249 Parts 2, 3, and 5 FCD editing.	Dresden, Germany
2002-10-07	2002-10-11	SC 32/WG4 meeting	Dresden, Germany
2003-01-27	2002-01-31	SC 32/WG4 meeting	Santa Fe, US

Voted and Accepted

Unanimous

Resolution 20: Memorandum of Understanding Management Group (Resolution WG 1 / 17)

SC32 and its WG 1 welcome the update on the work of the MoU management Group in its role of coordinating activities in support of e-business standards from the Fort Lauderdale meeting.

SC32 and its WG 1 look forward to the provision of a catalogue of current activities, such as that provided in ISO 14662 and proposed in ISO 15944-1 to assist in determining current actions and helping avoid overlap. They also request clarification on the method by which the MoU Management Group will ensure that coordination of activities takes place.

SC32 and its WG 1 are concerned that the MoU Management Group should not expand the number of bodies being coordinated until the work of the four current member bodies has been catalogued, and therefore recommends that, in the interim, the proposed relationship with OASIS is made as a category 'C' liaison.

Voted and Accepted

Unanimous

Resolution 21: SC 32/WG 2 Resolution of Ballot Comments on ISO/IEC FCD 5812 and progressing document to FDIS ballot status (Resolution WG 2 / 14)

SC32 requests its Secretariat to resolve with the ITTF the format for the bilingual (E/F) version of ISO/IEC FDIS 5812. SC32 prefers to keep the existing side-by-side format as found in the FCD version. ISO/IEC 5812 is a short standard and should be issued as a single document. SC32 notes that other standards of a "Codes representing...." nature such as ISO 3166-1 and ISO 4217 also have a bilingual (E/F) side-by-side format.

Voted and Accepted

Unanimous

Resolution 22: SC 32/WG 2 Proposal for Study Period on Harmonizing Registry Standards (Resolution WG 2 / 16)

SC32 resolves to initiate a Study Period on harmonization of registry standards, including UDDI, OASIS/ebXML XML registry, ISO/IEC11179 and other types of registries. This study is to include coordination with other standards and specifications development bodies, for example to gain ISO/IEC status for their standards.

Voted and Accepted

Unanimous

**Resolution 23: SC 32/WG 2 Request to make ISO/IEC 11179 freely available
(Resolution WG 2 / 17)**

SC32 instructs its Secretariat to investigate making ISO/IEC 11179 freely available according to JTC1 criteria.

Voted and Accepted

Unanimous

Resolution 24: SC 32/WG 03 Scope (Resolution WG 03 / 13)

SC 32 approves the revised terms of reference for its WG3 contained in SC 32 N0820.

Voted and Accepted

Unanimous

**Resolution 25: SC 32/WG 03 Call for Editors and National Body participation
(Resolution WG 03 / 14)**

SC 32 instructs its Secretariat to submit the following call for Editors and National Body participation to all P and O members:

At the SC 32 meeting held in Seoul, Korea, WG 03 accepted responsibility for project 20606 with subprojects: 20606-1 Authorization and Audit and 20606-2 Encompassing Transaction. Prior to that meeting the Editors of both subprojects either withdrew or became unavailable. No National Body sent an expert to Seoul to progress either of these subprojects.

SC 32 calls on National Bodies to nominate Editors for these subprojects and to affirm or re-affirm their intention to send experts to progress these subprojects.

Unless an Editor is nominated and unless a significant number of National Bodies register their intention to send experts to work on these subprojects, SC32 will be obliged to cancel them at the next SC32 plenary, which will be held in Santa Fe, New Mexico, USA, in January 2003. To bring certainty to the work, WG3 requires responses by 2002-10-01. The SC32 Secretariat will notify National Bodies of the outcome of this call for participation immediately thereafter.

In the event of a successful response, this will allow time for participants to prepare materials for a productive meeting on these projects at Santa Fe, or, in the absence of participants, National Bodies need not expend further resources on these projects.

Voted and Accepted

Unanimous

Resolution 26: Guidelines for Electronic Editing Meetings

SC32 endorses for trial use, the draft guidelines for electronic meetings contained in **SC32N0822**. The SC 32 Secretariat should pass these to the IITRG of JTC 1 for comment.

Working Groups holding electronic meetings are encouraged to use these procedures and report on their experience to the Santa Fe Plenary.

Voted and Accepted

Unanimous

Resolution 27: Commitment to Possible Meeting Fee for Santa Fe, NM, USA.

SC32 instructs its secretariat to notify USA that the participants are prepared to pay a meeting fee of up to US\$250 for the Santa Fe Meeting, 2003 in USA, if necessary.

Voted and Accepted

Unanimous

Acclamations

Resolution A1: Welcoming to Meetings

JTC 1/SC 32 expresses its appreciation to the **Korean Agency for Technology and Standards (KATS)** for their expressions of support of the work of SC 32. SC 32 offers its special thanks to Mr. Dongchul Kim , Administrator of KATS

Voted and Accepted

Unanimous

Resolution A2: Hosting of Meetings

JTC 1/SC 32 expresses its appreciation to the **Korean Agency for Technology and Standards (KATS)** for its efforts in planning and hosting the SC 32 meeting, especially:

- Mr. Dongchul Kim, Administrator
- Mr.Kyo-Won Yoon, Director General
- Dr. Jong-Ku Yoon, Director
- Dr. Min-Hwa Jeong, Deputy Director
- Dean Doo-Kwon Baik (Korea University)
- KATS Support Staff

SC 32 appreciates all of the hard work that they put into the meeting to make it a success. SC 32 appreciates the fine effort of **KATS** in the preparations of the hosting of the meeting.

Voted and Accepted

Unanimous

Resolution A3: Organization of Meetings

JTC 1/SC 32 expresses its appreciation to the **Korean Standards Association (KSA)** for its efforts in planning and organizing the SC 32 meeting, especially:

- Mr. Ki-Jung Chung, Executive Director
- Mr. Man-Han Hwang, Team Manager
- Mr. Sung-Geun Jung, Principal Researcher

SC 32 appreciates all of the hard work that they put into the meeting to make it a success. SC 32 appreciates the fine effort of **KSA** in the preparations and the organization of the meeting.

Voted and Accepted

Unanimous

Resolution A4: Meeting Sponsors

JTC 1/SC 32 expresses its appreciation to **Microsoft Korea** for their efforts in planning and organizing the social evening for the SC 32 meeting, especially:

- Mr. Hyun-Jin Ko – General Manager – Microsoft Korea

SC 32 appreciates all of the hard work that they put into the meeting to make it a success. SC 32 appreciates the fine effort of **Microsoft Korea** in the preparations for the hosting of the Social Evening.

Voted and Accepted

Unanimous

Resolution A5: Meeting Sponsors

JTC 1/SC 32 expresses its appreciation to EXEM Ltd for their efforts in providing portfolio bags to the SC 32 meeting delegates, especially:

- Mr. Jong-Am Cho – President – EXEM Ltd.

SC 32 appreciates all of the hard work that they put into the meeting to make it a success.

Voted and Accepted

Unanimous

Resolution A6: Secretariat Office Support Staff

JTC 1/SC 32 expresses its appreciation to Secretariat Office Support Staff for their efforts in organizing and maintaining the operations of the Secretariat Office, and ensuring constant availability of coffee and cookies, supplies, computer equipment etc. for the SC 32 meeting, especially:

- Dr. Min-Hwa Jeong
- KATS support staff
- KSA support staff
- Sheraton Walker Hill Hotel staff

Voted and Accepted

Unanimous

Resolution A7: Appreciation to SC 32 Chairman

JTC1/SC 32 thanks Mr. Bruce Bargmeyer, the SC 32 Chairman, for the leadership and support he provided at the SC 32 meetings.

Voted and Accepted

Unanimous

Resolution A8: Appreciation to Secretariat

JTC1/SC 32 thanks Mr. Douglas Mann, the Secretariat, for his support for the during the SC 32 Plenary.

Voted and Accepted

Unanimous

Resolution A9: Drafting Committee Appreciation

JTC1/SC 32 thanks its drafting committee, consisting of Baba Piprani (SC 32), Paul Levine (WG 1), Ray Gates (WG 2), Don Bartley (WG 2), Phil Brown (WG 3), and Christoph Lingenfelder (WG 4) for their diligent effort in developing the SC 32 resolutions.

Voted and Accepted

Unanimous

Resolution A10: Action Item Recorder Appreciation

JTC1/SC 32 thanks Baba Piprani for the diligent effort in recording the SC 32 Action Items for the SC 32 Plenary.

Voted and Accepted

Unanimous

Final Attendance
ISO/IEC JTC 1/SC 32 Plenary Meeting
2002-05-06 and 2002-05-10
Seoul, Korea

<u>JTC 1/SC 32 Personnel</u>	
Bruce Bargmeyer	Chairman, JTC 1/SC 32
Douglas Mann	Secretariat, JTC 1/SC 32
National Body	Organization/Company
<u>Australia</u> Mr. Don Bartley	Australian Bureau of Statistics
<u>Austria (O)</u>	
<u>Belgium</u>	
<u>Brazil</u>	
<u>Canada</u> Mr. Mark Ashworth Mr. Jean Bérubé Mr. Ray Gates Dr. Jake Knoppers Mr. C. "Baba" Piprani	IBM Canada Ltd. IDEGENIC Inc. Manulife Financial Canaglobe International Inc SICOM
<u>China</u> Mr. Deng Geping Mr. He Keqing Mrs. Zhiting Liu Mr. Hong Wei Mr. Wu Zhigang Mr. Zhou Yi Mr. Jing Yixin Ms. Zhou Yuzhen	China National Institute of Standardization Wuhan University China National Institute of Standardization China National Institute of Standardization China Electronics Standardization Institute Wuhan University Wuhan University Wuhan University
<u>Czech Republic</u>	
<u>Denmark (O)</u>	
<u>Egypt</u>	
<u>Finland</u> Mr. Hannu Pelkonen	Finland Post Corp
<u>France</u>	
<u>Germany</u> Dr. Jutta Kreyss Dr. Christoph Lingenfelder	IBM Germany Development IBM Germany Development

<u>Italy</u>	
<u>Japan</u> Mr. Hidekazu Enjo Mr. Hajime Horiuchi Mr. Takashi Kotera Mr. Satoshi Matsumoto Mr. Katsuhiko Morita Mr. Masaharu Obayashi Mr. Kohji Shibano Mr. Hisana Sugamata Mr. Kenji Suzuki Mr. Takaaki Shiratori Mr. Masashi Tsuchida	NTT DATA Corporation Tokyo International University Hitachi, Ltd., Software Division JNT Systems Co. Ltd Accenture Corporation Kanrikogaku Ltd. Tokyo University of Foreign Studies ECOM, Japan Tokyo International University IBM Japan Hitachi, Ltd
<u>Korea, Republic of</u> Mr. Doo Kwon, Baik Mr. Minhwa, Jeong Mr. Sang-Won, Lee Mr. Tae-Hoon, Lim Mr. Sangwon, Lim Mr. Hong-Seok, Na Prof. Minyoung, Ra Prof. Eunsook, Ryu Mr. Tae-Sul, Seo	Korea University Korean Agency for Technology and Standards Sungkyunkwan University Korea Database Promotion Center Korea Institute for Electronic Commerce Lime Media Technologies., Co., Ltd Korea Military Academy Address Chungbuk Provincial College of Science & Technology KISTI
<u>Netherlands</u> Mr. Stephen Cannan	ERD
<u>Norway</u>	
<u>Russian Federation (O)</u>	
<u>Sweden</u>	
<u>Switzerland</u>	
<u>United Kingdom</u> Mr. Phil Brown Mr. Hugh Darwen	EDS IBM United Kingdom Limited
<u>United States</u> Mr. Frank Farance Mr. Larry Fitzwater Mr. Krishna Kulkarni Ms. Nancy Lawler Mr. Paul Levine Mr Bill McCarthy Mr. Jim Melton Mr. Paul Scarponcini Mr. Fred Zemke	Farance Inc U.S. Environmental Protection Agency IBM Corporation U. S. Department of Defense/ NSA Telcordia Technologies Michigan State University Oracle Corporation Bentley Systems, Inc Oracle Corporation

SC 32 Conveners/Rapporteurs

WG 01 Hannu Pelkonen (also Finland)

WG 02 Larry Fitzwater, (also USA)

WG 03 Stephen Cannan, (also Netherlands)

WG 04 Kohji Shibano, (also Japan)

Attachments (Inserted after the meeting)

SC 32/WG 1 Resolutions SC32N805

SC 32/WG 2 Resolutions SC32N807

SC 32/WG 3 Resolutions SC32N809

SC 32/WG 4 Resolutions SC32N811

ISO/IEC JTC 1/SC 32 N 0805

Date: 2002-05-10

REPLACES: --

<p style="text-align: center;">ISO/IEC JTC 1/SC 32</p> <p style="text-align: center;">Data Management and Interchange</p> <p style="text-align: center;">Secretariat: United States of America (ANSI)</p> <p style="text-align: center;">Administered by Pacific Northwest National Laboratory on behalf of ANSI</p>
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DOCUMENT TYPE	Resolutions
TITLE	JTC 1/SC 32/WG 1 Resolutions, Seoul, Korea, 2002-05-10
SOURCE	WG 1 Convener
PROJECT NUMBER	
STATUS	This was the result of the Seoul, Korea meeting
REFERENCES	
ACTION ID.	FYI
REQUESTED ACTION	
DUE DATE	
Number of Pages	12
LANGUAGE USED	English
DISTRIBUTION	P & L Members SC Chair WG Conveners and Secretaries

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

ISO/IEC JTC 1/SC 32/WG 1 N 227

Date: 2002-05-09

ISO/IEC JTC 1/SC 32/WG 1

Data Management and Interchange Working Group 1

Business agreement semantic descriptive techniques

DOCUMENT TYPE	Resolutions
TITLE	JTC 1/SC 32/ WG 1 Plenary Resolutions, Seoul, May 2002
SOURCE	SC 32/WG 1 Convener
PROJECT NUMBER	
STATUS	Meeting Resolutions
REFERENCES	
ACTION ID.	FYI
REQUESTED ACTION	
DUE DATE	
Number of Pages File Size (KB) Diskette Number Issue Number Filenames	
LANGUAGE USED	English
DISTRIBUTION	P & L Members SC Chair & Secretariat WG Conveners and Secretaries

JTC 1/SC 32/WG 1 Resolutions,
Seoul, May 2002

Note: This document also includes those resolutions from the WG1 Bermuda meeting that affect to the work of SC32. Those resolutions have been marked with (B)

Section 1 - Program of Work Resolutions

Resolution WG 1 / 1: SC 32/WG 1 Program of Work

SC 32/WG 1 approves the Program of Work, Target Dates and Project Editor Assignments contained in SC 32/WG 1 N 216.
(B)

Resolution WG 1 / 2: SC 32/WG 1 Project Subdivisions

SC 32/WG 1 approves the following subdivision and minor enhancement to its existing work:

Project Number	Title	Project Editor	Rationale Doc #
Not applicable			

Resolution WG 1 / 3: SC 32/WG 1 Project Withdrawals

SC 32/WG 1 approves the following withdrawals from existing work:

Project Number	Title	Project Editor	Rationale Doc #
Not applicable			

Resolution WG 1 / 4: Standards Due for Periodic Review

SC 32/WG 1 approves the following:

Project Number	Title	Recommendation
1.32.30.01.00.00	ISO 14662: Information technology – Open-edition Reference Model	Revision of this standard is recommended. Upon receipt of the revised text WG1 requests SC32 to send the document for FCD ballot.

Resolution WG 1 / 5: New Projects

SC 32/WG 1 approves the following:

Project Number	Title	Project Editor	Rationale Doc #
Not applicable			

Resolution WG 1 / 6: Study Period

SC 32 WG 1 recommends that SC 32 submit to JTC 1 the following Proposals for Study Period upon receipt of texts:

Project Number	Title	Project Editor	Rationale Doc #
Not applicable			

Section 2 - Project Document Resolutions

Resolution WG 1 / 7: Committee Draft (CD) Ballots (CD, PDAM, PDISP, PDTR)

Upon receipt of texts, SC 32/WG 1 requests the SC 32 Secretariat to register as CDs, PDAMs, PDISPs, PDTRs and issue letter ballots on the following projects:

Project Number	CD	Title	Date Expected
1.32.31.01.02.00	15944-2	Information technology - Business Agreement Semantic Descriptive Techniques Part 2: Registration of Scenarios and their Components as Business Objects	June 2002
1.32.31.01.03.00	15944-3	Information technology - Business Agreement Semantic Descriptive Techniques Part 3: Open-edi Descriptive Techniques	October 2002
1.32.31.01.04.00	15944-4	Information technology - Business Agreement Semantic Descriptive Techniques Part 4: Business Transactions and Scenarios – Accounting and Economic Ontology	October 2002
1.32.20.01.00.00	18038	Identification and Mapping of Various Categories of Jurisdictional Domains	October 2002

Resolution WG 1 / 8: Final Committee Draft (FCD) Ballots (FCD, FPDAM, FPDISP, FPDTR, DCOR)

Upon receipt of texts, SC 32/WG 1 requests the SC 32 Secretariat to register as FCDs, FPDAMs, PDTRs, FPDISPs, DCORs and issue letter ballots on the following projects:

Project Number	FCD etc.	Title	Date Expected
1.32.30.01.00.00	ISO 14662 (Revision)	Information technology – Open-edi Reference Model	May 17 2002

Resolution WG 1 / 9: Final Draft International Standard (FDIS) Ballots (FDIS, FDAM, DTR)

Upon receipt of texts, SC 32/WG 1 requests the SC 32 Secretariat to register as FDISs, FDAMs, DTRs and submit to ITTF for the following projects:

Project Number	FDIS	Title	Date Expected
1.32.30.01.00.00	ISO 14662 (Revision)	Information technology – Open-edi Reference Model	October 2002

Section 3 - Liaison Resolutions

Resolution WG 1 / 10: SC 32/WG 1 Internal Liaison Assignments

Not applicable

Resolution WG 1 / 11: SC 32/WG 1 External Liaison Assignments

Not applicable

Resolution WG 1 / 12: SC 32/WG 1 Approval of "C" Liaisons

Not applicable

Section 4 - SC 32/WG 1 Administrative Resolutions

Resolution WG 1 / 13: SC 32/WG 1 Meeting Calendar

SC 32/WG 1 approves the following Meeting Calendar

From - To	Meeting/Purpose	Location
September 30- October 4 2002	SC 32/WG 1 Meeting	Ottawa, Canada
January 20-24 2003	SC 32/WG 1 Meeting	Santa Fe, USA
June 2003	SC 32/WG 1 Meeting	Japan (tentative)
Early 2004	SC 32/WG 1 Meeting	China (tentative)

Section 5 – Other SC 32/WG 1 Resolutions

Resolution WG 1 / 17: Memorandum of Understanding Management Group

SC32 / WG 1 welcomes the update on the work of the MoU management Group in its role of coordinating activities in support of e-business standards from the Fort Lauderdale meeting.

SC32 / WG 1 looks forward to the provision of a catalogue of current activities, such as that provided in ISO 14662 and proposed in ISO 15944-1 to assist in determining current actions and helping avoid overlap. SC32 / WG 1 also requests clarification on the method by which the MoU Management Group will ensure that coordination of activities takes place.

SC32 / WG 1 is concerned that the MoU Management Group should not expand the number of bodies being coordinated until the work of the four current member bodies has been catalogued, and therefore recommends that, in the interim, the proposed relationship with OASIS is made as a category 'C' liaison.

(B)

In order to ensure the consistency of resolutions, WG 1 has assigned such numbers to the following resolutions that are not in conflict with the resolutions made at the Bermuda meeting.

Resolution WG 1 / 23: Progression of work of 15944-2

SC 32/WG 1 thanks the Editor for the progress made in editing of 15944-2. Furthermore WG 1 instructs the Editor to edit the document as agreed in the Seoul meeting and prepare the document ready for CD ballot by the end of May 2002.

Resolution WG 1 / 24: Progression of work of 15944-3

WG 1 instructs the Editor of 15944-3 to prepare the first WD of the standard for review and comments by the end of August 2002

Resolution WG 1 / 25: Progression of work of 2nd WD 15944-4

WG 1 instructs the Editor of 15944-4 to prepare a second Working Draft of the standard according to the decisions made at the WG 1 Seoul meeting for review and comment. This is to be done by the end of July 2002.

Resolution WG 1 / 26: Progression of work of WD 18022

SC32 / WG 1 looks forward to the completion of the 2nd Working Draft of ISO/IEC 18022, " IT-enablement of Widely Used Coded Domains". SC32 / WG 1 requests that the project editor continue to assure that the development of this standard remains harmonized with, and supports Open-edi standards and standardization work.

Resolution WG 1 / 27: Revision of ISO/IEC 14662

SC32 WG 1 instructs the editor of ISO/IEC 14662 to edit the document according to the guidance given at the Seoul meeting. The revised version should be made ready for FCD ballot by May 17 2002.

Resolution WG 1 / 28: Co-operation with ebXML

SC32 WG 1 instructs the convener to invite Mr. Klaus-Dieter Naujok, former chair ebXML, to the WG1 Ottawa meeting as well as such other persons involved in ebXML and UN/CEFACT TMWG work related to Open-edi.

Resolution WG 1 / 29: Co-project Editor for ISO/IEC 18038

SC32 WG 1 welcomes Mr. David Clemis, Canada, as co-project Editor of ISO/IEC 18038.

Acclamations

Resolution WG 1 / A1: Hosting of Meetings

JTC 1/SC 32/WG 1 expresses its appreciation to its Korean hosts for their efforts in planning and organizing the SC 32/WG 1 meeting. SC 32/WG 1 appreciates all of the hard work that they put into the meeting to make it a success.

Resolution WG 1 / A2: Appreciation to SC 32/WG 1 Convener

JTC1/SC 32/WG 1 thanks Mr. Hannu Pelkonen, the SC 32/WG 1 Convener, for the leadership and support he provided at the SC 32/WG 1 meeting.

Resolution WG 1 / A3: Drafting Committee Appreciation

JTC1/SC 32/WG 1 thanks its drafting committee consisting of Mr. Paul Levine and Mr. Hannu Pelkonen for their diligent efforts in developing the SC 32/WG 1 resolutions.

**Final Attendance
ISO/IEC JTC 1/SC 32/WG 1 Meeting
May 2002, Seoul**

JTC 1/SC 32/WG 1 Personnel	
Hannu Pelkonen	Convener, JTC 1/SC 32/WG 1
National Body	Organization/Company
<u>Australia</u>	
<u>Austria (O)</u>	
<u>Belgium</u>	
<u>Brazil</u>	
<u>Canada</u> Jake Knoppers	Canaglobe International
<u>China</u> Wei Hong Wu Zhigang	China National Institute of Standardization China Electronics Standardization Institute
<u>Czech Republic</u>	
<u>Denmark (O)</u>	
<u>Finland</u> Hannu Pelkonen	Finland Post Corporation
<u>France</u>	
<u>Germany</u>	
<u>Italy</u>	
<u>Japan</u> Hidekazu Enjo Katsuhiko Morita Hisana Sugamata	NTT Data Corporation Accenture ECOM
<u>Korea, Republic of</u> Jasmine Jang Sang-Won Lee	Korea Institute for Electronic Commerce Sungkyunkwan University
<u>Netherlands</u>	
<u>Norway</u>	
<u>Russian Federation (O)</u>	
<u>Sweden</u>	
<u>United Kingdom</u>	
<u>United States</u> Paul Levine William McCarthy	Telcordia Michigan State University

Liaison

Liaison Body	Organization/Company

Other Attendees

Person	Organization/Company

ISO/IEC JTC 1/SC 32 N 0807

Date: 2002-05-10

REPLACES: --

<p style="text-align: center;">ISO/IEC JTC 1/SC 32</p> <p style="text-align: center;">Data Management and Interchange</p> <p style="text-align: center;">Secretariat: United States of America (ANSI)</p> <p style="text-align: center;">Administered by Pacific Northwest National Laboratory on behalf of ANSI</p>
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DOCUMENT TYPE	Resolutions
TITLE	JTC 1/SC 32/WG 2 Resolutions, Seoul, Korea, 2002-05-10
SOURCE	WG 2 Convener
PROJECT NUMBER	
STATUS	This was the result of the Seoul, Korea meeting
REFERENCES	
ACTION ID.	FYI
REQUESTED ACTION	
DUE DATE	
Number of Pages	11
LANGUAGE USED	English
DISTRIBUTION	P & L Members SC Chair WG Conveners and Secretaries

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

ISO/IEC JTC 1/SC 32/WG 2 SEL N032

Date: 2002-05-09

ISO/IEC JTC 1/SC 32/WG 2

Data Management and Interchange Working Group 2 Metadata

DOCUMENT TYPE	Resolutions
TITLE	JTC 1/SC 32/ WG 2 Plenary Resolutions, 2002-05-09, Seoul, Korea
SOURCE	SC 32/WG 2 Convener
PROJECT NUMBER	
STATUS	Meeting Resolutions
REFERENCES	
ACTION ID.	FYI
REQUESTED ACTION	
DUE DATE	
Number of Pages File Size (KB) Diskette Number Issue Number Filenames	
LANGUAGE USED	English
DISTRIBUTION	P & L Members SC Chair & Secretariat WG Conveners and Secretaries

JTC 1/SC 32/WG 2 Resolutions,
2002-05-09,
Seoul, Korea

Section 1 - Programme of Work Resolutions

Resolution WG 2 / 1: SC 32/WG 2 Programme of Work and Project Editor Assignments

SC 32/WG 2 approves the Programme of Work, Target Dates and Project Editor Assignments contained in SC 32/WG 2 SEL N022.

Resolution WG 2 / 2: SC 32/WG 2 Project Subdivisions

SC 32/WG 2 approves the following subdivisions and minor enhancements to existing work:

Project Number	Title	Project Editor	Rationale Doc #
1.32.22.01.01.00	Framework for metamodel interoperability – Part 1: Reference model	Horiuchi, Hajime & Bourne, Tim	WG2-SEL-016R1
1.32.22.01.02.00	Framework for metamodel interoperability – Part 2: Core (MOF/XML Extensions)	Masaharu Obayashi, Doo-Kwon Baik	WG2-SEL-016R1
1.32.22.01.03.00	Framework for metamodel interoperability – Part 3: Metamodel for ontologies	Jean Berube	WG2-SEL-016R1
1.32.22.01.04.00	Framework for metamodel interoperability – Part 4: Metamodel for model mapping	Yasuyuki Fujikawa	WG2-SEL-016R1
1.32.15.03.03.00	Metadata registries (MDR) – Part 3: Registry metamodel and basic attributes (3 rd edition)	Gates, Ray	WG2-SEL-021
1.32.16.01.00.00	Achieving metadata registry content consistency – Part 0: Overview	Gates, Ray	WG2-SEL-021
1.32.17.01.00.00	Metadata registry – interoperability & bindings – Part 0: Overview & framework	Farance, Frank	WG2-SEL-029
1.32.17.01.02.00	Metadata registry – interoperability & bindings – Part 2: Attribute mapping	Farance, Frank	WG2-SEL-029
1.32.17.01.63.00	Metadata registry – interoperability & bindings – Part 63: SOAP binding	Farance, Frank	WG2-SEL-029
1.32.17.01.64.00	Metadata registry – interoperability & bindings – Part 64: WSDL binding	Farance, Frank	WG2-SEL-029

Project Number	Title	Project Editor	Rationale Doc #
1.32.19.02.00.00	Representation of data element values – Notation of format	Farance, Frank	WG2-SEL-030

Rationale Summary: To partition the work into manageable pieces. SC 32/WG 2 instructs its Convener to forward these subdivisions to SC 32 for endorsement.

Resolution WG 2 / 3: SC 32/WG 2 Project Withdrawals

SC 32/WG 2 approves the following withdrawals from existing work:

Project Number	Title	Rationale Doc #
1.32.21.02.00.00	AWI 15452 Specification of data value domains	WG2-SEL-023

Rationale Summary: Project is superseded by project 1.32.16.01.03.00

Upon receipt of texts, SC 32/WG 2 instructs its Convener to forward these withdrawals to SC 32 for endorsement.

Resolution WG 2 / 4: Standards Due for Periodic Review

SC 32/WG 2 approves the following:

Project Number	Title	Recommendation
1.32.19.01.00.00	Representation of data element values – Notation of the format	Open revision under sub-project 1.32.19.02.00.00

SC 32/WG 2 instructs its Convener to inform SC 32 of the above recommendations.

Resolution WG 2 / 5: New Projects

SC 32/WG 2 approves the following:

Title	NWI Doc #
NWI on CG and KIF (working title)	WG2-SEL-024

Upon receipt of texts and confirmation from the WG2 convener, SC 32 WG 2 recommends that SC 32 submit to JTC 1 the referenced Proposal for New Work Items:

Resolution WG 2 / 6: Study Period

SC 32 WG 2 recommends that SC 32 submit to JTC 1 the following Proposals for Study

Period upon receipt of texts,

Title	Study Period Doc #
Proposal for Study Period on Harmonization of registry standards, including UDDI, OASIS/ebXML XML registry, 11179.	WG2-SEL-028

Section 2 - Project Document Resolutions

Resolution WG 2 / 7: Committee Draft (CD) Ballots (CD, PDAM, PDISP, PDTR)

Upon receipt of texts, SC 32/WG 2 requests its SC 32 Secretariat to register as CDs, PDAMs, PDISPs, PDTRs and issue letter ballots on the following projects:

Project Number	CD	Title	Date Expected
1.32.15.02.01.00	CD 11179-1	Metadata registries (MDR) – Part 1: Framework	2002-09-01
1.32.15.02.02.00	CD 11179-2	Metadata registries (MDR) – Part 2: Classification	2002-09-01
1.32.15.02.05.00	CD2 11179-5	Metadata registries (MDR) – Part 5: Naming and identification principles	2002-08-01
1.32.17.01.00.00	CD 20944-0	Metadata registry interoperability and bindings – Part 0: Overview and framework	2002-08-01
1.32.17.01.01.00	CD 20944-1	Metadata registry interoperability and bindings – Part 1: Conformance	2002-08-01
1.32.17.01.02.00	CD 20944-2	Metadata registry interoperability and bindings – Part 2: Attribute mapping	2002-08-01
1.32.17.01.20.00	CD 20944-20	Metadata registry interoperability and bindings – Part 20: Coding binding overview	2002-08-01
1.32.17.01.21.00	CD 20944-21	Metadata registry interoperability and bindings – Part 21: XML binding	2002-08-01
1.32.17.01.22.00	CD 20944-22	Metadata registry interoperability and bindings – Part 22: DNVP binding	2002-08-01
1.32.17.01.40.00	CD 20944-40	Metadata registry interoperability and bindings – Part 40: API binding overview	2002-08-01
1.32.17.01.41.00	CD 20944-41	Metadata registry interoperability and bindings – Part 41: C binding	2002-08-01
1.32.17.01.42.00	CD 20944-42	Metadata registry interoperability and bindings – Part 42: C++ binding	2002-08-01
1.32.17.01.43.00	CD 20944-43	Metadata registry interoperability and bindings – Part 43: Java binding	2002-08-01
1.32.17.01.44.00	CD 20944-44	Metadata registry interoperability and bindings – Part 44: Javascript binding	2002-08-01

Resolution WG 2 / 8: Final Committee Draft (FCD) Ballots (FCD, FPDAM, FPDISP, FPDTR, DCOR)

Upon receipt of texts, SC 32/WG 2 requests its SC 32 Secretariat to register as FCDs, FPDAMs, PDTRs, FPDISPs, DCORs and issue letter ballots on the following projects:

Project Number	FCD	Title	Date Expected
1.32.15.02.04.00	FCD	Metadata registries (MDR) – Part 4:	2002-08-01

Project Number	FCD	Title	Date Expected
	11179-4	Formulation of data definitions	
1.32.16.01.03.00	FPDTR 20943-3	Achieving metadata registry content consistency – Part 3: Value domains	2002-08-31

Resolution WG 2 / 9: Final Draft International Standard (FDIS) Ballots (FDIS, FDAM, DTR)

Upon receipt of texts, SC 32/WG 2 requests its SC 32 Secretariat to register as FDISs, FDAMs, DTRs and submit to ITTF for the following projects:

Project Number	FDIS	Title	Date Expected
1.32.15.02.03.00	FDIS 11179-3	Metadata registries (MDR) – Part 3: Registry metamodel and basic attributesf	2002-05-31
1.32.16.01.01.00	DTR 20943-1	Achieving metadata registry content consistency – Part 1: Data elements	2002-08-01

Section 3 - Liaison Resolutions

Resolution WG 2 / 10: SC 32/WG 2 Liaison Assignments

SC 32/WG 2 approves the internal liaison assignments contained in SC 32/WG 2 SEL N031.

Resolution WG 2 / 11: SC 32/WG 2 Approval of New “C” Liaisons

Upon receipt of texts, SC 32/WG 2 requests its SC 32 Secretariat to forward these Expected Benefits and Responsibilities documents to JTC 1 for approval.

Liaison Organization	WG	SC 32/WG Person	Topics and Notes	Doc #
	2			

Section 4 - SC 32/WG 2 Administrative Resolutions

Resolution WG 2 / 12: SC 32/WG 2 Meeting Calendar

SC 32/WG 2 approves the following Meeting Calendar

From	To	Meeting/Purpose	Location
2003-01-16	2003-01-17	Editing meetings	Santa Fe, NM, USA
2003-01-20	2003-01-24	Open Forum	Santa Fe, NM, USA
2003-01-27	2003-01-31	SC32/WG2 meeting	Santa Fe, NM, USA
2003-02-03	2003-02-05	Editing meetings	Santa Fe, NM, USA
2003 Oct/Nov		SC32/WG2 interim meeting (tentative)	Australia

Resolution WG 2 / 13: SC 32/WG 2 Project Names Changes

SC 32/WG 2 approves the following changes to the names of projects.

Project Number	Old name	New name
1.32.15.02.01.00	Information Technology -- Data Management and Interchange -- Metadata Registries (MDR) - Part 1: Framework for the specification and standardization of administered items (Revision of ISO/IEC 11179-1:1999)	Information technology -- Metadata registries (MDR) - Part 1: Framework (Revision of ISO/IEC 11179-1:1999)
1.32.15.02.02.00	Information Technology -- Data Management and Interchange -- Metadata Registries (MDR) - Part 2: Classification for administered items (Revision of ISO/IEC 11179-2:2000)	Information technology -- Metadata registries (MDR) - Part 2: Classification (Revision of ISO/IEC 11179-2:2000)
1.32.15.02.03.00	Information Technology -- Data Management and Interchange -- Metadata Registries (MDR) - Part 3, Registry Metamodel (MDR3) (Revision of ISO/IEC 11179-3:1994)	Information technology -- Metadata registries (MDR) - Part 3: Registry metamodel and basic attributes (Revision of ISO/IEC 11179-3:1994)
1.32.15.02.04.00	Information Technology -- Data Management and Interchange -- Metadata Registries (MDR) - Part 4: Rules and guidelines for the formulation of data definitions (Revision of ISO/IEC 11179-4:1995)	Information technology -- Metadata registries (MDR) - Part 4: Formulation of data definitions (Revision of ISO/IEC 11179-4:1995)
1.32.15.02.05.00	Information Technology -- Data Management and Interchange -- Metadata Registries (MDR) - Part 5: Naming and identification principles for administered items (Revision of ISO/IEC 11179-5:1995)	Information technology -- Metadata registries (MDR) - Part 5: Naming & identification principles (Revision of ISO/IEC 11179-5:1995)
1.32.15.02.06.00	Information Technology -- Data Management and Interchange -- Metadata Registries (MDR) - Part 6: Registration of administered items (Revision of ISO/IEC 11179-6:1997)	Information technology -- Metadata registries (MDR) - Part 6: Registration (Revision of ISO/IEC 11179-6:1997)
1.32.22.01.00.00	Framework for the registration of Business Objects	Framework for metamodel interoperability
1.32.17.01.nn.00	Metadata registry – bindings	Metadata registry interoperability and bindings

Resolution WG 2 / 14: SC 32/WG 2 Resolution of Ballot Comments on ISO/IEC FCD 5812

and progressing document to FDIS ballot status

The Editing Meeting on the ISO/IEC FCD 5812 ballot comments (see SC32N0777) were resolved through their being accepted. The Project Editor is therefore instructed

to incorporate these ballot comments into the FDIS version.

SC32/WG2 requests the SC32 Secretariat to resolve with the ITTF the format of the bilingual (E/F) version for ISO/IEC FDIS 5812. SC32/WG2 prefers to keep the existing side-by-side format as found in the FCD version. ISO/IEC 5812 is a short standard and should be issued as a single document. SC32/WG2 notes that other standards of a “Codes representing....” nature such as ISO 3166-1 and ISO 4217 also have a bilingual (E/F) side-by-side format.

**Resolution WG 2 / 15: SC 32/WG 2 Progressing Work on ISO/IEC 18022 “IT-
enablement
of Widely-Used Coded Domains”**

SC32/WG2 requests the Project Editor to incorporate the revised/new terms and definitions of ISO/IEC FDIS 11179-3 into the 1st WD which reference this standard as well as other updates as may be necessary resulting from progress of work on other parts of 11179 (including change in titles). Now that ISO/IEC 11179-3 has reached the FDIS stage, SC32/WG2 requests the Project Editor to complete work on the other clauses taking into account the results of discussions at the SC32/WG2 review meeting. SC32/WG2 requests its members to forward prior to the end of June, 2002 any contributions that they may have and the Project Editor then prepare a 2nd WD for distribution mid-September, 2002.

**Resolution WG 2 / 16: SC 32/WG 2 Proposal for Study Period on Harmonizing
Registry
Standards**

WG2 proposes a Study Period on harmonization of registry standards, including UDDI, OASIS/ebXML XML registry, 11179 and other types of registries. This might include coordination with other standards and specifications development bodies, for example to gain ISO/IEC status for their standards.

**Resolution WG 2 / 17: SC 32/WG 2 Request to make ISO/IEC 11179 freely
available**

WG2 requests the SC32 secretariat to investigate making ISO/IEC 11179 freely available according to JTC1 criteria.

Resolution WG 2 / 18: SC 32/WG 2 Contributions on active projects

SC32/WG2 requests its members to forward any contributions that they may have to the Project Editor two months prior to the date by which the editor is due to issue the next draft.

Acclamations

Resolution WG 2 / A1: Hosting of Meetings

JTC 1/SC 32/WG 2 expresses its appreciation to its Korean hosts for their efforts in planning and organizing the SC 32/WG 2 meeting. SC 32/WG 2 appreciates all of the hard work that they put into the meeting to make it a success.

Resolution WG 2 / A2: Appreciation to SC 32/WG 2 Convener

JTC1/SC 32/WG 2 thanks **Mr. Larry Fitzwater**, the SC 32/WG 2 Convener, for the leadership and support he provided at the SC 32/WG 2 meetings.

Resolution WG 2 / A3: Drafting Committee Appreciation

JTC1/SC 32/WG 2 thanks its drafting committee, consisting of Don Bartley, Frank Farance, Ray Gates and Wu Zhigang, for their diligent effort in developing the SC 32/WG 2 resolutions.

Resolution WG 2 / A4: Appreciation to organizers of Open Forum

JTC1/SC 32/WG 2 expresses its great appreciation to the host of the Open Forum: KATS (Korean Agency for Technology and Standards), and its co-chairs Doo-Kwon Baik (Korea) and Hajime Horiuchi (Japan), for their diligent effort in organizing and chairing the Open Forum.

Resolution WG 2 / A5: Appreciation to Project Editors of ISO/IEC 11179-3

JTC1/SC 32/WG 2 expresses its great appreciation to the successive project editors of ISO/IEC 11179-3, Joe Christensen (Australia) and Ray Gates (Canada), for their diligent and time consuming effort in progress this standard to the FDIS stage. WG2 also notes its appreciation for the support of Graham Horn (Australia) in this work.

Final Attendance
ISO/IEC JTC 1/SC 32/WG 2 Meeting
2002-05-09,
Seoul, Korea

<u>JTC 1/SC 32/WG 2 Personnel</u>	
	Convener, JTC 1/SC 32/WG 2
National Body	Organization/Company
<u>Australia</u> Mr. Don Bartley	Australian Bureau of Statistics
<u>Canada</u> Mr. Jean Bérubé Mr. Ray Gates Dr. Jake Knoppers	IDEGENIC Inc. Manulife Financial Canaglobe International Inc.
<u>China</u> Mr. Deng Geping Mr. He Keqing Mrs. Zhiting Liu Mr. Hong Wei Mr. Wu Zhigang Mr. Zhou Yi Mr. Jing Yixin Ms. Zhou Yuzhen	China national Institute of Standardization Wuhan University China national Institute of Standardization China national Institute of Standardization China Electronics Standardization Institute Wuhan University Wuhan University Wuhan University
<u>Japan</u> Mr. Hajime Horiuchi Mr. Satoshi Matsumoto Mr. Masaharu Obayashi	Tokyo International University JNT Systems Co. Ltd. Kanrikogaku Ltd.
<u>Korea, Republic of</u> Mr. Doo Kwon, Baik Mr. Tae-Sul, Seo	Korea University KISTI
<u>United Kingdom</u> Mr. Phil Brown	EDS
<u>United States</u> Mr. Bruce Bargmeyer Mr. Frank Farance Mr. Larry Fitzwater Ms. Nancy Lawler Mr. Douglas Mann	Lawrence Berkeley National Laboratory Farance Inc. U.S. Environmental Protection Agency U. S. Department of Defense/ NSA Battelle Memorial Institute

Liaison

Liaison Body	Organization/Company
SC7 – Systems and software engineering	Mr. Jean Bérubé - IDEgenic
SC22 – Programming Languages	Mr. Frank Farance, Farance Inc.
SC36 – Learning Technologies	Mr. Frank Farance, Farance Inc.

ISO/IEC JTC 1/SC 32 N 0809

Date: 2002-05-10

REPLACES: --

<p style="text-align: center;">ISO/IEC JTC 1/SC 32</p> <p style="text-align: center;">Data Management and Interchange</p> <p style="text-align: center;">Secretariat: United States of America (ANSI)</p> <p style="text-align: center;">Administered by Pacific Northwest National Laboratory on behalf of ANSI</p>
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DOCUMENT TYPE	Resolutions
TITLE	JTC 1/SC 32/WG 3 Resolutions, Seoul, Korea, 2002-05-
SOURCE	WG 3 Convener
PROJECT NUMBER	
STATUS	This was the result of the Seoul, Korea meeting
REFERENCES	
ACTION ID.	FYI
REQUESTED ACTION	
DUE DATE	
Number of Pages	13
LANGUAGE USED	English
DISTRIBUTION	P & L Members SC Chair WG Conveners and Secretaries

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

ISO/IEC JTC 1/SC 32/WG 03 N0061

ICN-075R1

Date: 2002-05-08

ISO/IEC JTC 1/SC 32/WG 03

**Data Management and Interchange
Working Group 03
Database Languages**

DOCUMENT TYPE	Resolutions
TITLE	JTC 1/SC 32/ WG 03 Plenary Resolutions, 2002-05-08, Seoul, Korea
SOURCE	SC 32/WG 03 Convener
PROJECT NUMBER	
STATUS	Meeting Resolutions
REFERENCES	
ACTION ID.	FYI
REQUESTED ACTION	
DUE DATE	
Number of Pages File Size (KB) Diskette Number Issue Number Filenames	
LANGUAGE USED	English
DISTRIBUTION	P & L Members SC Chair & Secretariat WG Conveners and Secretaries

JTC 1/SC 32/WG 03 Resolutions,
2002-05-08,
Seoul, Korea

Section 1 - Programme of Work Resolutions

Resolution WG 03 / 1: SC 32/WG 03 Programme of Work and Project Editor Assignments

SC 32/WG 03 approves the Programme of Work, Target Dates and Project Editor Assignments contained in SC 32/WG 03 N0060 (ICN-074R1).

Resolution WG 03 / 2: SC 32/WG 03 Project Subdivisions

SC 32/WG 03 approves the following subdivisions and minor enhancements to existing work:

Project Number	Title	Project Editor	Rationale Doc #
1.32.03.06.01.00	SQL/Framework	Jim Melton	32N0825
1.32.03.06.02.00	SQL/Foundation	Jim Melton	32N0825
1.32.03.06.03.00	SQL/CLI	Jim Melton	32N0825
1.32.03.06.04.00	SQL/PSM	Jim Melton	32N0825
1.32.03.06.09.00	SQL/MED	Jim Melton	32N0825
1.32.03.06.10.00	SQL/OLB	Jim Melton	32N0825
1.32.03.06.11.00	SQL/Schemata	Jim Melton	32N0825
1.32.03.06.13.00	SQL/JRT	Jim Melton	32N0825
1.32.03.06.14.00	SQL/XML	Jim Melton	32N0825

Rationale Summary:

SQL continues to be arguably the most successful and important database language standard ever developed and forms the foundations of a multi-billion (US) dollar data management industry as well as vital infrastructure for many more billions of (US) dollars of commerce worldwide. SQL's success has been due in part to its relationship to the relational model of data, but also to the flexibility of the language in meeting varied business needs and its amenability to performance optimization.

Though the SQL standard has been in existence since 1986, it is as relevant today as it was in 1986. In fact, it is still being extended as new requirements force the development of many new technologies. It is safe to assume that the database industry will continue to depend on the SQL standard for many years in the foreseeable future. The emergence of XML is already putting tremendous pressure to query less-traditional data ("documents") being produced in XML formats along with traditional ("object-relational") data being manipulated by current systems. In addition, the growing need to allow disparate systems to exchange data has caused significant attention to be paid to the use of XML as a "canonical data format" between such systems (e.g., on the Web) and the concept of managing data stored in many different systems as if all the data resides in a single system.

Whilst the new standard will have significant XML capability, the facilities are by no means complete and further work is urgently needed (and indeed ongoing). Similarly, SQL/MED is also evolving to meet the requirements sketched above. Experience has shown that, with the tight integration of the parts of the SQL standard, new features in one part frequently require corresponding changes in other parts, and so

we believe that in order to maintain the flexibility and speed of response so vital in today's fast changing world all parts should be available for upgrade and enhancement.

SC 32/WG 03 instructs its Convener to forward these subdivisions to SC 32 for endorsement.

Resolution WG 03 / 3: SC 32/WG 03 Project Withdrawals

SC 32/WG 03 approves the following withdrawals from existing work:

Project Number	Title	Rationale Doc #

Rationale Summary:

Upon receipt of texts, SC 32/WG 03 instructs its Convener to forward these withdrawals to SC 32 for endorsement.

Resolution WG 03 / 4: Standards Due for Periodic Review

SC 32/WG 03 approves the following:

Project Number	Title	Recommendation

SC 32/WG 03 instructs its Convener to inform SC 32 of the above recommendations.

Resolution WG 03 / 5: New Projects

SC 32/WG 03 approves the following:

Title	NWI Doc #

Upon receipt of texts, SC 32 WG 03 recommends that SC 32 submit to JTC 1 the referenced Proposals for New Work Items:

Resolution WG 03 / 6: Study Period

SC 32 WG 03 recommends that SC 32 submit to JTC 1 the following Proposals for Study Period upon receipt of texts,

Title	Study Period Doc #

Section 2 - Project Document Resolutions

Resolution WG 03 / 7: Committee Draft (CD) Ballots (CD, PDAM, PDISP, PDTR)

Upon receipt of texts, SC 32/WG 03 requests its SC 32 Secretariat to register as CDs, PDAMs, PDISPs, PDTRs and issue letter ballots on the following projects:

Project Number	CD	Title	Date Expected

Resolution WG 03 / 8: Final Committee Draft (FCD) Ballots (FCD, FPDAM, FPDISP, FPDTR, DCOR)

Upon receipt of texts, SC 32/WG 03 requests its SC 32 Secretariat to register as FCDs, FPDAMs, PDTRs, FPDISPs, DCORs and issue letter ballots on the following projects:

Project Number	FCD	Title	Date Expected

Resolution WG 03 / 9: Final Draft International Standard (FDIS) Ballots (FDIS, FDAM, DTR)

Upon receipt of texts, SC 32/WG 03 requests its SC 32 Secretariat to register as FDISs, FDAMs, DTRs and submit to ITTF for the following projects:

Project Number	FDIS	Title	Date Expected

Section 3 - Liaison Resolutions

Resolution WG 03 / 10: SC 32/WG 03 Liaison Assignments

SC 32/WG 03 approves the internal liaison assignments contained in SC 32/WG 03 N0062 (ICN-073).

Resolution WG 03 / 11: SC 32/WG 03 Approval of New “C” Liaisons

Upon receipt of texts, SC 32/WG 03 requests its SC 32 Secretariat to forward these Expected Benefits and Responsibilities documents to JTC 1 for approval.

Liaison Organization	WG	SC 32/WG Person	Topics and Notes	Doc #
	03			

Section 4 - SC 32/WG 03 Administrative Resolutions

Resolution WG 03 / 12: SC 32/WG 03 Meeting Calendar

SC 32/WG 03 approves the following Meeting Calendar

From	To	Meeting/Purpose	Location
2002-06-17	2002-07-12	Interim Editing Meeting E3C, for parts 1, 2, 3, 4, 9, 10, and 11	Electronic
2002-09-23	2002-10-05	9 (nine) FCD ballot resolution meetings, for parts 1, 2, 3, 4, 9, 10, 11, 13 and 14 of 9075.	Dresden
2002-09-23	2002-10-04	WG meeting to progress 1.32.03.06 and 1.32.53.01	Dresden
2003-01-27	2003-01-31	WG meeting to progress 1.32.03.06 and 1.32.53.01	Santa Fe

Section 5 - SC 32/WG 03 Special Resolutions

Resolution WG 03 / 13: SC 32/WG 03 Scope

SC 32/WG 03 approves the revised terms of reference contained in SC 32/WG 03 N0063 (ICN-076).

Resolution WG 03 / 14: SC 32/WG 03 Call for Editors and National Body participation

SC 32/WG 03 requests its SC 32 Secretariat to submit the following call for Editors and National Body participation:

At the SC 32 meeting held in Seoul, Korea, WG 03 accepted responsibility for project 20606 with subprojects: 20606-1 Authorization and Audit and 20606-2 Encompassing Transaction. Prior to that meeting the Editors of both subprojects either withdrew or became unavailable. No National Body sent an expert to Seoul to progress either of these subprojects.

SC 32 calls on National Bodies to nominate Editors for these 2 subprojects and to affirm or re-affirm their intention to send experts to progress these subprojects.

Unless an Editor is nominated and unless a significant number of National Bodies register their intention to send experts to work on these subprojects SC32 will be obliged to cancel them at the next SC32 plenary in Santa Fe January 2003. To bring certainty to the work WG3 requires responses by 2002-10-01. WG3 requests the SC32 secretariat to notify National Bodies of the outcome of this call for participation immediately thereafter.

In the event of a successful response, this will allow time for participants to prepare materials for a productive meeting on these projects at Santa Fe, or, in the absence of participants, National Bodies need not expend further resources on these projects.

Acclamations

Resolution WG 03 / A1: Hosting of Meetings

JTC 1/SC 32/WG 03 expresses its appreciation to its Korean hosts for their efforts in planning and organizing the SC 32/WG 03 meeting. SC 32/WG 03 appreciates all of the hard work that they put into the meeting to make it a success.

Resolution WG 03 / A2: Appreciation to SC 32/WG 03 Convener

JTC1/SC 32/WG 03 thanks **Stephen Cannan**, the SC 32/WG 03 Convener, for the leadership and support he provided at the SC 32/WG 03 meetings.

Resolution WG 03 / A3: Drafting Committee Appreciation

JTC1/SC 32/WG 03 thanks its drafting committee, consisting of Phil Brown, for their diligent effort in developing the SC 32/WG 03 resolutions.

Resolution WG 03 / A4: Secretary Appreciation

JTC1/SC 32/WG 03 thanks its secretary, Hugh Darwen for his diligent effort in taking the minutes.

Final Attendance
ISO/IEC JTC 1/SC 32/WG 03 Meeting
2002-05-08
Seoul, Korea

<u>JTC 1/SC 32/WG 03 Personnel</u>	
	Convener, JTC 1/SC 32/WG 03
National Body	Organization/Company
<u>Australia</u> Don Bartley	Australian Bureau of Statistics
<u>Austria (O)</u>	
<u>Belgium</u>	
<u>Brazil</u>	
<u>Canada</u> Mark Ashworth Baba Piprani	IBM Sicom
<u>China</u> □□□ (Wu Zhi Gang)	Chinese Electronics Standardization Institute
<u>Czech Republic</u>	
<u>Denmark (O)</u>	
<u>Egypt</u>	
<u>Finland</u>	
<u>France</u>	

<u>Germany</u> Jutta Kreyss	IBM
<u>Italy</u>	
<u>Japan</u> □□ □ (Takashi Kotera) □□ □□ (Takaaki Shiratori) □□ □□ (Masashi Tsuchida)	Hitachi IBM Hitachi
<u>Korea, Republic of</u> □ □ □ (Eun-Sook Ryu) □ □ □ (Min-Young Ra) Sang-Won Lee	Chungbuk Provincial University of Science & Technology Korea Military Academy School of Information Technology & Communications Engineering
<u>Netherlands</u> Stephen Cannan	Elegant Relational Development
<u>Norway</u>	
<u>Russian Federation (O)</u>	
<u>Sweden</u>	
<u>Switzerland</u>	
<u>United Kingdom</u> Phil Brown Hugh Darwen	EDS IBM
<u>United States</u> Krishna Kulkarni Jim Melton (editor) Fred Zemke	IBM Oracle Oracle

Liaison

Liaison Body	Organization/Company

Other Attendees

Person	Organization/Company

ISO/IEC JTC 1/SC 32 N 0811
ISO/IEC JTC 1/SC 32/WG 4 N0028

Date: 2002-05-10

REPLACES: --

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

DOCUMENT TYPE	Resolutions
TITLE	JTC 1/SC 32/WG 4 Resolutions, Seoul, Korea, 2002-05-10
SOURCE	WG 4 Convener
PROJECT NUMBER	
STATUS	This was the result of the Seoul, Korea meeting
REFERENCES	
ACTION ID.	FYI
REQUESTED ACTION	
DUE DATE	
Number of Pages	9
LANGUAGE USED	English
DISTRIBUTION	P & L Members SC Chair WG Conveners and Secretaries

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

JTC 1/SC 32/WG 4 Resolutions,
2002-05-09,
Seoul

Section 1 - Programme of Work Resolutions

Resolution WG 4 / 1: SC 32/WG 4 Programme of Work and Project Editor Assignments

SC 32/WG 4 approves the Programme of Work, Target Dates and Project Editor Assignments contained in SC 32/WG 4 N0029

Unanimous

Resolution WG 4 / 2: SC 32/WG 4 Project Subdivisions

SC 32/WG 4 approves the following subdivisions and minor enhancements to existing work:

Project Number	Title	Project Editor	Rationale Doc #
1.32.04.03.01.00	Information technology - SQL Multimedia and Application Packages - Part 1: Framework 3 rd ed.	Takaaki Shiratori	WG4N003 1
1.32.04.03.02.00	Information technology - SQL Multimedia and Application Packages - Part 2: Full-Text 3 rd ed.	Mark Ashworth	
1.32.04.03.03.00	Information technology - SQL Multimedia and Application Packages - Part 3: Spatial 3 rd ed.	Mark Ashworth	
1.32.04.03.05.00	Information technology - SQL Multimedia and Application Packages - Part 5: Still Image 3 rd ed.	Mark Ashworth	
1.32.04.02.06.00	Information technology - SQL Multimedia and Application Packages - Part 6: Data Mining 2 nd ed.	Christoph Lingenfelder	

Rationale Summary:

For Part 1: Framework needs to capture requirements found in new editions of other parts.

For Part 2: Full-Text needs to add support of structured text.

For Part 3: Spatial needs to add support for 3D spatial data and topology.

For Part 5: Still Image needs to add support for additional image analysis and retrieval methods.

For Part 6: Data Mining needs to extend to support a standard external format for the settings types DM_<technique>Settings.

SC 32/WG 4 instructs its Convener to forward these subdivisions to SC 32 for endorsement.

Unanimous

Resolution WG 4 / 3: SC 32/WG 4 Project Withdrawals
None.

Resolution WG 4 / 4: Standards Due for Periodic Review
None.

Resolution WG 4 / 5: New Projects
None.

Resolution WG 4 / 6: Study Period
None.

Section 2 - Project Document Resolutions

Resolution WG 4 / 7: Committee Draft (CD) Ballots (CD, PDAM, PDISP, PDTR)
None.

Resolution WG 4 / 8: Final Committee Draft (FCD) Ballots (FCD, FPDAM, FPDISP, FPDTR, DCOR)
None.

Resolution WG 4 / 9: Final Draft International Standard (FDIS) Ballots (FDIS, FDAM, DTR)

Upon receipt of texts, SC 32/WG 4 requests its SC 32 Secretariat to register as FDIS and submit to ITTF for the following projects:

Project Number	FDIS	Title	Date Expected
1.32.04.02.01.00	FDIS 13249-1	Information technology - SQL Multimedia and Application Packages - Part 1: Framework 2 nd ed.	2002-07

Unanimous

Section 3 - Liaison Resolutions

Resolution WG 4 / 10: SC 32/WG 4 Liaison Assignments

SC 32/WG 4 approves the internal liaison assignments contained in SC 32/WG 4 N0030.

Unanimous

Resolution WG 4 / 11: SC 32/WG 4 Approval of New “C” Liaisons

None.

Section 4 - SC 32/WG 4 Administrative Resolutions

Resolution WG 4 / 12: SC 32/WG 4 Meeting Calendar

SC 32/WG 4 approves the following Meeting Calendar

From	To	Meeting/Purpose	Location
2002-10-07	2002-10-11	WG4 meeting Parts 2, 3, and 5 DCOR editing Parts 2, 3, and 5 FCD editing	Dresden, Germany
2003-01-27	2002-01-31	WG4 meeting	Santa Fe, US

Unanimous

Acclamations

Resolution WG 4 / A1: Hosting of Meetings

JTC 1/SC 32/WG 4 expresses its appreciation to its Korean hosts for their efforts in planning and organizing the SC 32/WG 4 meeting. SC 32/WG 4 appreciates all of the hard work that they put into the meeting to make it a success.

Acclamation

Resolution WG 4 / A2: Appreciation to SC 32/WG 4 Convener

JTC1/SC 32/WG 4 thanks **Mr. Kohji Shibano**, the SC 32/WG 4 Convener, for the leadership and support he provided at the SC 32/WG 4 meetings.

Acclamation

Resolution WG 4 / A3: Drafting Committee Appreciation

JTC1/SC 32/WG 4 thanks its drafting committee, consisting of Christoph Lingenfelder, for his diligent effort in developing the SC 32/WG 4 resolutions.

Acclamation

Final Attendance
ISO/IEC JTC 1/SC 32/WG 4 Meeting
2002-05-09
Seoul

<u>JTC 1/SC 32/WG 4 Personnel</u>	
Kohji Shibano	Convener, JTC 1/SC 32/WG 4
National Body	Organization/Company
<u>Australia</u>	
<u>Austria (O)</u>	
<u>Belgium</u>	
<u>Brazil</u>	
<u>Canada</u> Mark Ashworth	IBM Canada
<u>China</u>	
<u>Czech Republic</u>	
<u>Denmark (O)</u>	
<u>Egypt</u>	
<u>Finland</u>	
<u>France</u>	
<u>Germany</u> Jutta Kreyss Christoph Lingenfelder	IBM Germany IBM Germany
<u>Italy</u>	

<u>Japan</u> Kenji Suzuki Takaaki Shiratori	Tokyo International University IBM Japan
<u>Korea, Republic of</u> Eun-Sook Ryu	Chungbuk Provincial University of Science and Technology
<u>Netherlands</u> Steve Cannan	
<u>Norway</u>	
<u>Russian Federation (O)</u>	
<u>Sweden</u>	
<u>Switzerland</u>	
<u>United Kingdom</u> Hugh Darwen	IBM UK
<u>United States</u> Krishna Kulkarni Paul Scarponcini	IBM Bentley Systems

Liaison

Liaison Body	Organization/Company

Other Attendees

Person	Organization/Company