

ISO/IEC JTC 1/SC 32 N 0416

Date: 2000-01-28

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

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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,
2000-01-28,
Santa Fe, NM, USA

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

SC 32 approves the Programme of Work, Target Dates and Project Editor Assignments contained in SC 32 N **0414**.

Voted and Accepted

Unanimous

Resolution 2: SC 32 Liaison Assignments

SC 32 approves the liaison assignments contained in SC 32 N **0415**.

Voted and Accepted

Unanimous

Resolution 3: SC 32 Approval of "C" Liaisons

Upon receipt of texts, SC 32 requests its 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 #

Voted and Accepted

Unanimous

Resolution 4: 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
2000-10-02	2000-10-13	SC32 Plenary and WG Meetings	Helsinki, Finland
2001-09 or10		SC32 Plenary and WG Meetings	Victoria, BC, Canada (host in process of confirming)
2002-05		SC32 Plenary and WG Meetings	Seoul, Korea

Voted and Accepted

Unanimous

Resolution 5: SC 32 Project Subdivisions

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

Project Number	Title	Project Editor	Rationale Doc #
03.05.12.00.00	Information technology - Database languages - SQL — Replication (SQL/Replication).	Melton, Jim	SC32 N00435 (WG 03 SAF-045)

Project Number	Title	Project Editor	Rationale Doc #
			Note 1
64.06.00.00.00	Part 6: Data Mining	Friedemann Schwenkreis	WG4N0011
64.01.01.00.00	Part 1: Framework	Mike Newton	Note 2
31.05.02.00	Remote Database Access for SQL Edition 4	John Hadjioannou	Note 3
31.05.02.01	Data Management Interchange - Authorization	John Hadjioannou	WG5N0071 Note 3

Note 1:

To date, there are more commercial database applications developers (independent software vendors, or ISVs) who have created their own in-house replication software than all ISVs using all commercial replication products combined. All of the homegrown and many of the commercial products are incompatible, hindering total market growth for all vendors. The major reason why ISVs continue to create their own custom replication software is that most ISVs support three to five different database vendor platforms, each of which provides different replication functionality or none at all, and are not able to bear the training and administrative expense of learning and supporting three to five different replication systems. ISVs continue to do this custom software development in spite of research that shows each such replication project effort costs well in excess of US\$1 million and that most of such efforts fail. Database replication capability is a growing requirement in the marketplace and will remain so for the foreseeable future, has become well-understood with mature implementations available, but lacks a useful standard that would help the user community and promote adoption for all vendors.

Proposal part 2 (wording of SC 32 non-plenary ballot for SQL/Replication): WG 3 recommends that SC 32 initiate a non-plenary ballot to approve a split of project {01.32.03.05} that creates a new part of 9075 (9075-12) entitled SQL/Replication, whose title and terms of reference are documented in JTC 1/SC 32 N00435 (WG3:SAF-045) and for which a candidate base document will be provided (SC32 number not yet assigned) and announced before the ballot is initiated.

Note 2:

Required to maintain consistency with the progression of the other parts.

Note 3:

Previously		
31.05.02	RDA for SQL Amendment for Extended Security	John
Hadjioannou	32N0442	

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 6: SC 32 Project Withdrawals

SC 32 approves the following withdrawals from existing work:

Project Number	Title	Rationale Doc #
06.06.00.00.00	IRDS Content Module - Design Support for SQL Applications	See Note 1 below
06.07.00.00.00	IRDS Services Interface Extensions	See Note 1 below
06.08.00.00.00	IRDS Framework Revision	See Note 1 below
06.09.01.00.00	IRDS Content Module to Support a Naming and Thesaurus Facility	See Note 1 below
03.03.00.00.00	Information technology --Database language - SQL	SC32 N00436 Note 2
03.03.01.00.00	Information technology --Database language - SQL - Part:3 SQL/CLI	SC32 N00436 Note 2
03.03.01.01.00	Information technology --Database language - SQL - Technical Corrigendum 3	SC32 N00436 Note 2
03.03.02.00.00	Information technology --Database language - SQL - Part:4 SQL/PSM	SC32 N00436 Note 2
03.04.01.02.00	Information technology --Database language - SQL - Technical Corrigendum 1 (for CLI)	SC32 N00436 Note 2
03.04.01.03.00	Information technology --Database language - SQL - Technical Corrigendum 1 (for PSM)	SC32 N00436 Note 2
03.04.07.00.00	Information technology --Database language - SQL - Part:7 SQL/Temporal	SC32 N00436 Note 2
14.03.01.00.00	Information technology --General Structures for the Interchange of Code Values Part 1: Identification of Coding Schemes	SC32 N00396 Note 3
14.03.02.00.00	Information technology --General Structures for the Interchange of Code Values Part 2: Registration of Coding Schemes	SC32 N00397 Note 3

Rationale Summary:

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

Note 1:

- Regarding IRDS projects, SC 32/WG 2 recommends: The IRDS projects listed below (06.06, 06.07, 06.08, 06.09.01) be closed down, with the current document for each project being published as an SC32 document to make the work so far achieved available to SC32 members. Each document should be made available as an SC32 document not later than the WG2 interim meeting in May 2000:

- 1) Project 06.06, NP17415, IRDS Content Module - Design Support for SQL Applications (Editor: Don Bartley, Australia).
- 2) Project 06.07, ISO/IEC 10728, IRDS Services Interface Extensions (Editor: Tim Bourne, UK).
- 3) Project 06.08, ISO/IEC 10027, IRDS Framework Revision (Editor: D J L Gradwell, UK).
- 4) Project 06.09.01, FCD13237, IRDS Content Module to Support a Naming and Thesaurus Facility (Editor: D J L Gradwell, UK).

Justification: Work on all the above IRDS projects has been delayed for a variety of reasons, including particularly the organizational disruption caused by the JTC1 re-engineering process, and the consequent changes in personnel and priorities.

- Regarding projects 14.03.01.00.00 and 14.03.02.00.00, SC 32/WG 2 recommends compliance with the will of Member National Bodies to withdraw these standards in accordance with the results of the ballots summarized in JTC1/ SC 32 N0396 and N0397.

Note 2:

Standards produced by these projects have been superseded by new standards produced by later projects or, in the case of 03.04.07.00.00, were not produced due to a realignment of resources to meet market priorities.

Note 3:

As per ballot results

Voted and Accepted

Unanimous

Resolution 7: SC 32 New Projects

SC 32 approves the following proposals for new work:

Title	NWI Doc #
Identification, Mapping and IT-enablement of Existing Standards for Widely Used Encodable Value Domains	N5847 Note 1

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

Note 1:

Regarding N5847:

- a) SC32/WG2 appreciates and accepts the offer of Canada to provide Dr. Jake Knoppers as the Project Editor for the NWI *Identification, Mapping and IT-enablement of Existing Standards for Widely Used Encodable Value Domains* (JTC1 N5847).
- b) SC32/WG2 requests its SC32 secretariat to (1) inform standardization bodies and other organizations identified in the JTC1 N5847 NWI proposal of the start of this NWI with Dr. Jake Knoppers as project editor; and , (2) request their participation.
- c) SC32/WG2 requests the SC32 secretariat to update the SC32 Business to incorporate this

NWI, assign a Project number, and include the following target dates:

- Working Draft (Outline) May, 2000
- Distribution of WD for SC32 CD registration and Comment October, 2000
- Distribution for CD ballot December, 2000
- Distribution for FCD Ballot May, 2001
- Distribution for FDIS Ballot November, 2001
- Submission for IS Publication May, 2002

Voted and Accepted

Unanimous

Resolution 8: Study Periods

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

Title	Study Period Doc #
Framework for Classification and Identification of Enterprise Objects	32N0443 (WG2-SAF 23), 32N0444 (WG2-SAF 25) and 32N0445 (WG2-SAF 26) Note 1
Terminology Management for an ISO/IEC 11179 Metadata Registry	WG 2 N0202 Note 2

Note 1:

SC 32 WG 2 instructs the Japan National Body to coordinate the development of its project with all interested parties within and outside SC32, and invite participation of other pertinent parties such as SC7.

Note 2

SC 32 WG 2 instructs the US National Body to invite participation of, and coordinate with, all interested parties within and outside SC32, in the development of its project.

Voted and Accepted

Unanimous

Resolution 9: Standards Due for Periodic Review

SC 32 approves the following:

Title	Recommendation

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

Voted and Accepted

Unanimous

Resolution 10: Committee Draft (CD) Ballots (CD, PDAM, PDISP, PDTR)

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
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)	May 2000
32.02.10		Information Technology - Procedure for Achieving Data Registry Content Consistency	May 2000
31.04.02 01	to be assigned	Data Management and Interchange - Distribution Schema	May 2000

Voted and Accepted

Unanimous

Resolution11: Final Committee Draft (FCD) Ballots

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
03.04.00.00.00	ISO/IEC 9075 : 1999/Cor1	Information technology - Database languages - SQL - Technical Corrigendum 1 for SQL:1999	2000-03-01 Note 1
30.02.01.00.00	ISO/IEC FCD 15944-1	Information Technology -Business Agreement Semantic Techniques Part 1: Business Operational Aspects of Open-edi for Implementation	2000-06-30

Note 1:

This proposed DCOR ballot is a result of Defect Report 9075/10. This defect report is available as ISO/IEC JTC 1/SC 32 N00437 (WG 03 N0032.)

Voted and Accepted

Unanimous

Resolution 12: Final Draft International Standard (FDIS) Ballots (FDIS, FDAM, DTR)

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
03.04.10.00.00	ISO/IEC 9075-10 SQL/OLB	Information technology --Database language SQL - Part 10: Object Language Bindings	2000-04-30 Note 1
31.05.00.00.00	ISO/IEC 9579	Remote Database Access for SQL, Edition 3	2000-03-30

Note 1:

Progression to FDIS ballot is the recommendation of the Final Continuation FCD Editing Meeting on Part 10 (see SC32 N00430).

Voted and Accepted

Unanimous

Resolution 13: SC 32 Approval of the SC 32 Business Plan

Not Applicable

Resolution 14: SC 32 Approval of Working Group 1 –Open-edi Resolutions

SC 32 approves the following Working Group 1 – Open-edi Resolutions contained in SC 32 N **0418**

Voted and Accepted

Unanimous

Resolution 15: SC 32 Approval of Working Group 2 –Metadata Resolutions

SC 32 approves the following Working Group 2 – Metadata Resolutions contained in SC 32 N **0419**

Voted and Accepted

Unanimous

Resolution 16: SC 32 Approval of Working Group 3 –Database Languages Resolutions

SC 32 approves the following Working Group 3 – database Languages Resolutions contained in SC 32 N **0420**

Voted and Accepted

Unanimous

Resolution 17: 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 contained in SC 32 N **0421**

Voted and Accepted

Unanimous

Resolution 18: SC 32 Approval of Working Group 5 – Database Access and Interchange Resolutions

SC 32 approves the following Working Group 5 –Database Access and Interchange Resolutions contained in SC 32 N **0422** in particular noting Resolution WG5 / 13.

Resolution WG 5 / 13: Project renumbering and renaming

SC 32/WG 5 requests its SC 32 Secretariat to rename and renumber the projects of SC32/WG5 according to the following table:

Old Number	New Number	New Name
31.04.00	01.32.05.01.00.00	Remote Database Access for SQL, Edition 1
31.04.01	01.32.05.02.00.00	Remote Database Access for SQL, Edition 2
31.05.00	01.32.05.03.00.00	Remote Database Access for SQL, Edition 3
31.05.01	01.32.05.03.00.01	Remote Database Access for SQL, XML <i>Amendment 1 to Edition 3</i>
31.05.03	01.32.05.03.00.02	Remote Database Access for SQL, SQL/MED <i>Amendment 2 to Edition 3</i>
31.05.02	01.32.05.04.00.00	Remote Database Access for SQL, Edition 4
31.05.04	01.32.53.01.02.00	Data Management and Interchange – Authorization and Audit
31.04.02	01.32.53.01.03.00	Data Management and Interchange – Distribution Schema
31.04.03	01.32.53.01.04.00	Data Management and Interchange – Encompassing Transaction

Voted and Accepted

Unanimous

Resolution 19: SC 32 Approval of Rapporteur Group 1 –Reference Model for Data Management Maintenance Resolutions

SC 32 approves the following Rapporteur Group 1 – Reference Model for Data Management Maintenance Resolutions contained in **none**

Resolution 20: SC 32 Approval of Rapporteur Group 2 –Export/Import Maintenance Resolutions

SC 32 approves the following Rapporteur Group 2 – Export/Import Maintenance Resolutions contained in SC 32 N **0441**

Voted and Accepted

Unanimous

Resolution 21: Guidelines for Project subdivision

JTC 1/SC 32 instructs its Secretariat to require for a project subdivision, that introduces new work within the existing project scope, the following: (1) Title and terms of reference for the proposed project subdivisions, and (2) A project requirements document, and (3) Optionally, a candidate working draft.

For each proposed subdivision, these are to be made available to SC 32 Member Bodies either 30 days before an SC 32 plenary or are to be distributed for comment and 30-day SC 32 ballot (to be designated an "SC 32 non-plenary ballot"). If any returned ballots are "No", they shall be accompanied by comments that specify what changes, if any, would permit the ballot to be changed to "Yes".

Any proposal to SC 32 for a project subdivision is approved if:

- At least three P members of SC32 vote in favour;
- No more than three of P members of SC32 recording a vote against the proposal.
- The "yes" votes exceed the "no" votes.

Proposals that fail to meet these requirements may be modified and resubmitted, without prejudice.

Voted and Accepted

Unanimous

Resolution 22: SC32 Project Re-numbering

ISO/IEC JTC 1/SC32 requests its secretariat to review the Project numbers and re-assign these numbers to a system as described in SC32 N0443, Project Renumbering Scheme.

Voted and Accepted

Unanimous

Resolution 23: SC32 Scheduling of Meetings

ISO/IEC JTC 1/SC 32 resolves that the preferred interval between its plenary meetings is twelve months and that the interval between successive plenary meetings should be not less than 10 months nor more than 14 months and notes that its meetings must not overlap meetings of JTC 1. Within these constraints, Member Bodies offering to host plenary meetings are encouraged to select any time within the four-month interval, taking into account local conditions.

Voted and Accepted

Unanimous

Resolution 24: MOU Clause A.5 of the Rev.1 version of the ISO, IEC, UN/ECE and ITU MOU/IEC in the field of “electronic business”.

SC32 has noted the requirement for the development of guidelines for the use of standards for naming, defining and coding of data elements, that are to be used as the basis for the development of UN/EDIFACT directories. IS 11179 parts 4 and 5 address the area of naming, and defining of data elements and are available for use by other standards developing organizations. SC32 will continue to monitor the progress of other related standards in this area and make available this information in specific liaison statements as required.

The SC 32 Secretariat is to pass this resolution on to ISO/IEC JTC 1 and to the MOU-MG.

Voted and Accepted

Unanimous

Resolution 25: Facilitating Standards Development Work & Marketing ISO/IEC JTC1/SC32 Standards

SC32 requests its JTC1 secretariat to make publicly available on the ISO and ITTF Web sites the following clauses for each of the JTC 1/SC32 standards, namely:

- Clause 0.0 Introduction
- Clause 1.0 Scope
- Clause 2.0 Normative References
- Clause 3.0 Definitions, Notations and Conventions

Having such JTC1/SC32 information publicly available has several benefits including:

1. facilitating standards development work both within JTC1 and those outside of JTC1 standards. Having such information readily available assists in minimizing duplication work, identifying use of standards in other standards, and maximizing re-use of existing standards (e.g. existing terms and definitions).
2. serving as a means for marketing JTC1 standards by providing information deemed to be essential for access and discovery of such standards by potential users.

Further JTC 1/SC32 requests JTC 1 to consider

1. bringing forward this JTC1/SC32 resolution as one which JTC 1 should consider at its next Plenary as being applicable to all ISO/IEC JTC 1 standards; and

2. following a one year test period for ISO/IEC JTC 1 standards, consider this for general applicability to all ISO and IEC standards.

Voted and Accepted

Unanimous

Resolution 26: SC32 counting of delegates

SC32 instructs its secretariat to review the method of counting of delegates that participate in SC32 and WG activities to include remote participation in addition to those physically present at meetings.

Voted and Accepted

Unanimous

Acclamations

Resolution A1: Welcoming to Meetings

JTC 1/SC 32 expresses its appreciation to Mr. Bruce Bargmeyer, for his welcoming remarks and expressions of support of the work of SC 32. SC 32 offers its special thanks to US Government Environmental Protection Agency and ANSI.

Voted and Accepted

Unanimous

Resolution A2: Hosting of Meetings

JTC 1/SC 32 expresses its appreciation to US Government Environmental Protection Agency and ANSI for their efforts in planning and organizing the SC 32 meeting, especially:

- Mr. Mr. Bruce Bargmeyer,
- Mr. Doug Mann, and

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 The Marasco Newton Group, Ltd., along with staff members Lisa Faris, Cordell Green in the preparations of the hosting of the meeting.

Voted and Accepted

Unanimous

Resolution A3: Social Functions

JTC1/SC32 expresses its appreciation to US Government Environmental Protection Agency and ANSI for arranging for a reception and accompanying Indian Hoop Dance at the La Fonda Hotel.

Voted and Accepted

Unanimous

Resolution A4: 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 A5: Appreciation to Secretariat

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

Voted and Accepted

Unanimous

Resolution A6: Drafting Committee Appreciation

JTC1/SC 32 thanks its drafting committee, consisting of Judith Newton, Baba Piprani, and Phil Brown for their diligent effort in developing the SC 32 resolutions.

Voted and Accepted

Unanimous

**Final Attendance
ISO/IEC JTC 1/SC 32 Plenary Meeting
2000-01-24 and 2000-01-28
Santa Fe, NM, USA**

<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 Mr. Joe Christensen	Australian Bureau of Statistics Australian Institute of Health and Welfare
<u>Austria (O)</u>	
<u>Belgium</u>	
<u>Brazil</u>	
<u>Canada</u> Mr. Mark Ashworth Mr. Jean Berube Mr. Paul Cotton Mr. Ray Gates Dr. Jake Knoppers Mr. C. "Baba" Piprani Mr. Robert Sunday	Informix Software (Canada) Inc. IDEGENIC Inc. IBM Canada Ltd. Manulife Financial Canaglobe International Inc. SICOM DMR Consulting Group Inc
<u>China</u>	
<u>Czech Republic</u>	
<u>Denmark (O)</u>	
<u>Finland</u> Mr. Hannu Pelkonen	Finland Post Ltd, EDI-Services
<u>France</u>	
<u>Germany</u> Mr. Juergen Metter Mr. Friedemann Schwenkreis Mr. Knut Stolze (week 3)	IBM Deutschland Entwicklung IBM Deutschland Entwicklung University of Jena
<u>Italy</u>	

<p><u>Japan</u> Mr. Hajime Horiuchi Mr. Takashi Kotera Mr. Satoshi Matsumoto Mr. Katsuhiko Morita (week 1) Mr. Masaharu Obayashi Mr. Kohji Shibano Mr. Kenji Suzuki Mr. Shojiro Tanaka Mr. Masashi Tsuchida (week 1)</p>	Tokyo International University Hitachi, Ltd. JNT Systems Co. Ltd. Ernst & Young Consulting Japan Kanri Kogoku Ltd Tokyo University of Foreign Studies Tokyo International University Shimane University Hitachi, Ltd
<p><u>Korea, Republic of</u> Mr. Doo Kwon Baik Mr Eung Rok Lee</p>	Korea University Korea Telecom
<p><u>Netherlands, The</u> Mr. Stephen Cannan</p>	James Martin & CO.
<p><u>Norway</u></p>	
<p><u>Russian Federation (O)</u></p>	
<p><u>Sweden (O)</u></p>	
<p><u>United Kingdom</u> Mr. Tim Bourne Mr. Graham Brown Mr. Phil Brown Hugh Darwen Martin Ford Mr. John Hadjioannou Mr. Steve Mathews Mr. Mike Newton Mr. Nick Pope (week 1) Mr. John R Rowley</p>	SIAM Daysys Technology Ltd. EDS IBM United Kingdom Limited ISLinkup Blue Star Information Systems PCSL Open University Security & Standards Consultancy Ltd. Geobase Consultants Ltd.
<p><u>United States</u> Mr. F. Branch Archer (week 1) Mr.Charles Campbell Mr. Jim Carpenter (week 1) Mr. Dan Coyle Jr (week 1) Ms. Tommie Curtis Mr.Don Deutsch Ms. Cindy Dickinson Mr. Mohammad Faisal Mr. Frank Farance (week 1) Mr. Larry Fitzwater Ms. Lois Fritts Mr. Daniel W. Gillman (week 1) Ms. Judy D. Griffin (week 1) Ms. Kathleen Gundry (week 1) Dr. Michael Huhns (week 1) Mr. Marco Johnson (week 1) Mr. Shawn Jones (week 1) Mr. Krishna Kulkarni Mr. Mike Lefler Mr. Paul Levine (week 1) Mr. Robert Mayes (week 1) Dr. John McCarthy Mr.Jim Melton</p>	HQ AFMSA/HIRS Informix Software, Inc. Bureau of Labor Statistics Oracle Corporation Science Applications International Corporation Oracle Corporation Office of System Safety Oracle Corporation Farance Inc. U.S. Environmental Protection Agency Science Applications International Corporation Bureau of the Census Department of Energy Science Applications International Corporation University of South Carolina OSD Health Affairs Tricare Management Activity Indus Corporation IBM Corporation Litton PRC Inc. Telcordia Health Care Financing Administration Lawrence Berkeley National Laboratory Oracle Corporation

Ms. Judith Newton Mr. Phong Ngo Dr. Frank Olken (week 1) Mr. Ky Ostergaard (week 1) Mr. Burton G. Parker (week 1) Mr. Anju Rathi Mr. Paul Scarponcini Mr. Andrew M. Schoka (week 1) Mr. Harold Solbrig (week 1) Ms. Linda Spencer (week 1) Mr. Herb Sutter (week 1) Mr. Fred Zemke	NIST Science Applications International Corporation Lawrence Berkeley National Laboratory Science Applications International Corporation Paladin Integration Engineering EDS Bentley Systems, Inc. Mitretek Systems Mayo Foundation US EPA PeerDirect Inc. Oracle Corporation
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SC 32 Conveners/Rapporteurs

RG 01 Mike Newton, (also UK)

RG 02 Jean Berube, (also Canada)

WG 01 Hannu Pelkonen (also Finland)

WG 02 Larry Fitzwater, (also US)

WG 03 Stephen Cannan, (also Netherlands)

WG 04 Kohji Shibano, (also Japan)

WG 05 J. Hadjioannou, (also UK)

Liaison

Liaison Body	Organization/Company

Other Attendees

Person	Organization/Company

