

# ISO/IEC JTC 1/SC 32 N 0456

Date: 2000-02-15  
REPLACES: 32N0416

## 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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available from the JTC 1/SC 32 WebSite <http://bwonotes5.wdc.pnl.gov/SC32/JTC1SC32.nsf>

\*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 **0438**.

*Voted and Accepted*

*Unanimous*

**Resolution 2: SC 32 Liaison Assignments**

SC 32 approves the liaison assignments contained in SC 32 N **0439** and **N0440**.

*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<br>or10 |            | SC32 Plenary and WG Meetings | Victoria, BC, Canada<br>(host in process of<br>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<br>Doc #            |
|----------------|--|----------------|-------------------------------|
| 03.05.12.00.00 | Information technology - Database languages - SQL — Replication (SQL/Replication). | Melton, Jim    | SC 32N0435<br>(WG 03 SAF-045) |

| Project Number | Title                                       | Project Editor         | Rationale Doc #                 |
|----------------|---|------------------------|---------------------------------|
|                |   |                        | Note 1                          |
| 64.06.00.00.00 | Part 6: Data Mining                         | Friedemann Schwenkreis | SC 32N0447 (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       | SC 32N0448 (WG5N0071)<br>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. Last document SC 21N10511.
- 2) Project 06.07, ISO/IEC 10728, IRDS Services Interface Extensions (Editor: Tim Bourne, UK). Last document 32N0095 CD 10728
- 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). Last document SC 21N10511.

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<br>Note 1 |
|   |                 |

SC 32 instructs its Secretariat to forward these proposals to JTC 1 for endorsement upon receipt of texts. (This was accepted by JTC 1 in N5847)

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<br>Doc #  |
|---|--|
| Framework for Classification and Identification of Enterprise Objects | 32N0452 (WG2-SAF 23), 32N0453 (WG2-SAF 25) and 32N0454 (WG2-SAF 26) Note 1 |
| Terminology Management for an ISO/IEC 11179 Metadata Registry         | 32N0455 (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<br>- Technical Corrigendum 1 for SQL:1999  | 2000-03-01<br>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 (project 03.04.00.00.00) 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<br>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:

| <b>Old Number</b> | <b>New Number</b> | <b>New Name</b>  |
|-------------------|-------------------|--|
| 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<br><i>Amendment 1 to Edition 3</i>     |
| 31.05.03          | 01.32.05.03.00.02 | Remote Database Access for SQL, SQL/MED<br><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 –<br>Authorization and Audit               |
| 31.04.02          | 01.32.53.01.03.00 | Data Management and Interchange – Distribution<br>Schema                   |
| 31.04.03          | 01.32.53.01.04.00 | Data Management and Interchange –<br>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**

| <b><u>JTC 1/SC 32 Personnel</u></b>   |  |
|---|--|
| Bruce Bargmeyer   | Chairman, JTC 1/SC 32  |
| Douglas Mann  | Secretariat, JTC 1/SC 32   |
|   |  |
| <b>National Body</b>  | <b>Organization/Company</b>  |
| <b><u>Australia</u></b><br>Mr. Don Bartley<br>Mr. Joe Christensen   | Australian Bureau of Statistics<br>Australian Institute of Health and Welfare  |
| <b><u>Austria (O)</u></b>   |  |
| <b><u>Belgium</u></b>   |  |
| <b><u>Brazil</u></b>  |  |
| <b><u>Canada</u></b><br>Mr. Mark Ashworth<br>Mr. Jean Berube<br>Mr. Paul Cotton<br>Mr. Ray Gates<br>Dr. Jake Knoppers<br>Mr. C. "Baba" Piprani<br>Mr. Robert Sunday | Informix Software (Canada) Inc.<br>IDEGENIC Inc.<br>IBM Canada Ltd.<br>Manulife Financial<br>Canaglobe International Inc.<br>SICOM<br>DMR Consulting Group Inc |
| <b><u>China</u></b>   |  |
| <b><u>Czech Republic</u></b>  |  |
| <b><u>Denmark (O)</u></b>   |  |
| <b><u>Finland</u></b><br>Mr. Hannu Pelkonen   | Finland Post Ltd, EDI-Services   |
| <b><u>France</u></b>  |  |
| <b><u>Germany</u></b><br>Mr. Juergen Metter<br>Mr. Friedemann Schwenkreis<br>Mr. Knut Stolze (week 3)   | IBM Deutschland Entwicklung<br>IBM Deutschland Entwicklung<br>University of Jena   |
| <b><u>Italy</u></b>   |  |

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

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

**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 |
|--------|----------------------|
|        |                      |
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