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The activities of WG3 and Editing Meetings on ISO/IEC 9075 documents since the last SC 32 Plenary are described below.

Project 1.32.03.03

With the publication of ISO/IEC 9075.Cor3:1999, ISO/IEC 9075-3.Cor1:1999 and ISO/IEC 9075-4.Cor1:1999 all activity on this project has ceased. The standards produced under this project - ISO/IEC 9075:1992, ISO/IEC 9075-3:1995 and ISO/IEC 9075-4:1996 are withdrawn as they have been superseded by the standards produced under project 1.32.03.04.

Project 1.32.03.04

SQL Parts at IS

The FDIS ballot on ISO/IEC 9075-1 SQL/Framework, ISO/IEC 9075-2 SQL/Foundation, ISO/IEC 9075-4 SQL/Persistent Stored Modules and ISO/IEC 9075-5 SQL/Host Language Bindings closed in July 1999. The FDIS ballot on ISO/IEC 9075-3 SQL/Call Level Interface closed in August 1999. All 5 parts became standards with a 1999 date.

SQL Parts at FCD

Part 10: SQL/OLB

The FCD editing meeting for part 10 SQL/Object Language Bindings met between the 17th and the 27th of May 1999 in Matsue, Japan as part of the SC32 meeting. Attendance at the working group meeting consisted of 16 representatives from 8 countries: Australia (1), Canada (2), Germany (1), Japan (3), Korea (2), Netherlands (1), UK (2), USA (4).

The SQL/OLB FCD continuation Editing Meeting considered 119 Ballot Comments from the FCD Ballot. The meeting was able to completely resolve 36 (30%) of the comments and partially addressed several others.

That meeting recommended a continuation Editing Meeting that met between the 4th and the 15th of October 1999 in Loenen a/d Vecht, The Netherlands. Attendance at the editing meeting consisted of 15 representatives from 6 countries: Canada (1), Germany (3), Japan (2), Netherlands (2), UK (3), USA (4).

The SQL/OLB FCD continuation Editing Meeting considered the 83 unresolved Ballot Comments from the FCD Ballot. The meeting was able to completely resolve another 37 (31%) of the comments and partially addressed several others. In addition 17 ballot comments were identified as being language opportunities rather than errors in the specification.

That meeting recommended a final continuation Editing Meeting which met between the 17th and the 27th of January 2000 in Santa Fe, U.S.A. Attendance at the editing meeting consisted of 15 representatives from 7 countries: Australia (1), Canada (3), Germany (1), Japan (2), Netherlands (1), UK (2), USA (5).

The SQL/OLB FCD final continuation Editing Meeting considered the 46 unresolved Ballot Comments from the FCD Ballot. The meeting was able to completely resolve all (100%) of the comments and is recommending submission of the output document for FDIS ballot.

Part 9: SQL/MED

The CD editing meeting for part 9 SQL/MED met between the 17th and the 27th of May 1999 in Matsue, Japan as part of the SC32 meeting. Attendance at the working group meeting consisted of 16 representatives from 8 countries: Australia (1), Canada (2), Germany (1), Japan (3), Korea (2), Netherlands (1), UK (2), USA (4).

The SQL/MED CD Editing Meeting considered 300 Ballot Comments from the CD Ballot. The meeting was able to completely resolve 203 (68%) of the comments and partially addressed several others.

That meeting recommended a continuation Editing Meeting that met between the 4th and the 15th of October 1999 in Loenen a/d Vecht, The Netherlands. Attendance at the editing meeting consisted of 15 representatives from 6 countries: Canada (1), Germany (3), Japan (2), Netherlands (2), UK (3), USA (4).

The SQL/MED CD continuation Editing Meeting considered the 97 unresolved Ballot Comments from the CD Ballot. The meeting was able to completely resolve all (100%) of the comments and recommended submission of the output document for FCD ballot. This ballot commenced on 1st January 2000.

Amendment 1: SQL/OLAP
The Working Group met between the 4th and the 15th of October 1999 in Loenen a/d Vecht, The Netherlands. Attendance at the working group meeting consisted of 15 representatives from 6 countries: Canada (1), Germany (3), Japan (2), Netherlands (2), UK (3), USA (4).

The Working Group completed work on the working draft of SQL/OLAP and submitted it for FPDAM ballot. This ballot commenced on 1st January 2000.

SQL Parts at WD

Technical Corrigenda
The Working Group also met between the 17th and the 27th January 2000 in Santa Fe, U.S.A. Attendance at the editing meeting consisted of 15 representatives from 7 countries: Australia (1), Canada (3), Germany (1), Japan (2), Netherlands (1), UK (2), USA (5).

The Working Group completed work on the first Technical Corrigendum for ISO/IEC 9075:1999 (all parts). This work was begun in Matsue, continued in Loenen a/d Vecht and was completed in Santa Fe.
The group is recommending the output document from this meeting be submitted for DCOR ballot.

Part 7: SQL/Temporal
The Working Group is recommending the cancellation of this part *within this project*. Work on this subproject was suspended in order to concentrate effort on the successful completion of ballots on parts 1 to 5. The group now believes that there is little point in attempting to complete work on this document as part of ISO/IEC 9075:1999 and instead intends to concentrate on completing the work as part of ISO/IEC 9075:200n, for which there is a separate subproject.

General

Successful completion of the ballots currently running or proposed out of this meeting will complete work on this project. The interim Working Group meeting is scheduled for July to run concurrently with the various editing meetings that will complete the technical work, although FDIS ballots and final processing of the standards will still be needed. There is a reasonable chance that all these documents will receive a 2000 date.

Project 1.32.03.05

SQL Parts at WD
Working drafts for all parts of SQL will be issued following this meeting for further development in anticipation of a future revision of the standard. To date a few minor functional enhancements have

been made to the Working Drafts and the Working Group spent some time at this meeting discussing candidate functionality for the future standard.

The working group have set an aggressive but realistic schedule (see project plan) for the issuing of the next revision of ISO/IEC 9075. This envisions the availability of new versions of all parts which are existing standards or currently under ballot by the end of 2002 and the 2 new parts (SQL/Temporal and SQL/Replication (if approved)) following in the first quarter of 2003.

New part
The Working Group is recommending that a new sub-project for a new part, Part 12 SQL/Replication be submitted to the yet-to-be-adopted SC32 ballot procedure for sub-project splits.
A candidate working draft should accompany that ballot.

Other Matters

Liaison
The WG meeting continues its informal liaison with the "Statistical Open Source Consortium for Output Databases (ODB)", courtesy of Don Bartley until that group acquires a formal enough status to permit formal liaison to be established.

During the course of the Santa Fe meetings a formal 1-day joint meeting was held between WG3 and WG5 in order to resolve outstanding areas of potential conflict left over from the Matsue meetings. In addition a number of more informal meetings, contacts and participation in each others' working groups by individual delegates has, I believe, established a general consensus on the relative scope of each group's work and how those groups can best structure their documents to generate maximum interest and use of those documents by the other group. The Convenors agreed to reserve a half-day at each SC32 meeting for joint meetings on specific topics of mutual interest. In addition, the delegates agreed to make more use of e-mail to attempt to resolve questions and concerns in a more time-efficient manner; and to develop models of their areas before the Helsinki meeting to aid future communications.

Summary
Excellent progress is being made on all fronts. Attendance at meetings is good, at least 6 National Bodies are always represented and 8 National Bodies have attended at least one meeting in the past year. In addition we frequently receive input and proposals from National Bodies and Experts who for one reason or another are unable to attend meetings.

The Working Group's ability to progress multiple documents simultaneously and in close alignment continues to improve. Several tools and policies contribute to this ability, including the carefully tested procedures of the group. The standardised way in which agendas, minutes, comments, and proposals are presented and processed ensures easy access and availability to all National Bodies, greatly easing the review and development process. Another tool that contributes to the efficiency of WG3's meetings is a local area network and file server that has been kindly provided by one delegate for the use at the meetings. The group's work frequently benefits from having an on-line archive of all recent papers (including working drafts, proposals, and administrative documents) going back a number of years. At this meeting, for the first time, the local area network has included access to the Internet allowing direct access to both national and international archives. In addition, the group's Editor is able to trace the source of virtually every line of text in all working drafts to their original proposals, helping proposal writers better understand the origin and history of material they wish to modify.

Because of the group's tested abilities to process work, it has felt able to set the very aggressive schedule for ISO/IEC 9075:2000n which it has. This new schedule advances the previous target date by 14 months.

Candidate Material for Business Plan

2.0 PERIOD REVIEW

Excellent progress has been made in developing SQL. The remaining parts of the SQL:1999 standards have reached at least FCD status. An aggressive schedule for the next complete revision of ISO/IEC 9075 has been set with a target end date of 1st quarter 2003.

2.1 MARKET REQUIREMENTS

The market demand for SQL database products remains strong. The clear acceptance of the new SQL:1999 standards by the database vendors is very encouraging. The development of new parts and new features within the 9075 family of standards continues to be driven by perceived market priorities and the effort plied to and the scheduling of the various parts has been adjusted accordingly.

2.2 ACHIEVEMENTS

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

03.04.01.00.00	Information Technology - Database Language SQL - Part 1: Framework
[ISO-id 26196]	ISO/IEC 9075-1
03.04.02.00.00	Information Technology - Database Language SQL - Part 2: Foundation
[ISO-id 26197]	ISO/IEC 9075-2
03.04.03.00.00	Information Technology - Database Language SQL - Part 3: Call Level Interface
[ISO-id 30609]	ISO/IEC 9075-3
03.04.04.00.00	Information Technology - Database Language SQL - Part 4: Persistent Stored Modules (for SQL 3)
[ISO-id 29864]	ISO/IEC 9075-4
03.04.05.00.00	Information Technology - Database Language SQL - Part 5: Language Bindings (for SQL 3)
[ISO-id 26198]	ISO/IEC 9075-5

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

None:

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

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

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

03.04.09.00.00	Information technology --Database Language SQL - Part 9: Management of External Data
[ISO-id 31370]	ISO/IEC CD 9075-9

03.04.01.01.00	Information technology --Database Language SQL – Amendment 1: SQL/OLAP
[ISO-id ?]	ISO/IEC FPDAM 9075: Amd 1

03.04.00.00.00	Information technology --Database Language SQL – Technical Corrigendum 1
[ISO-id 31370]	ISO/IEC DCOR 9075

The following project is progressing in Stage 3 – Committee Stage

None.

2.3 RESOURCES

Adequate resources are currently available for all projects.

3.0 FOCUS NEXT WORK PERIOD

SQL work remains particularly active. During the next period, two further parts of ISO/IEC 9075 (SQL) are expected to be completed up to the FDIS stage. In addition a Technical Corrigendum for the existing parts is expected to complete up to the IS stage with publication. This will complete work on project 1.32.03.04.

3.1 DELIVERABLES

See section 1.2 for those projects with upcoming target dates.

3.2 STRATEGIES

WG3 will focus on progressing its program of work as quickly and efficiently as possible. It is important that the committee keep its focus on meeting market requirements, and emphasise new projects that have well-defined, concrete objectives that are market driven.

3.2.1 RISKS

Overlapping scope of projects is an area which needs to be continually monitored and controlled. Changes in market requirements and ability to schedule plenary sessions at the appropriate moment may cause some perturbation in the work schedules.

3.2.2 OPPORTUNITIES

XML represents a major area of opportunity where market forces are creating demand for standards and SC 32 is continually monitoring the work in this area and will react as soon as it sees and appropriate opportunity.

3.3 WORK PROGRAMME PRIORITIES

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