# ISO/IEC JTC 1/SC 32 N **0555**

## ISO/IEC JTC 1/SC 32

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WG3 Convenor's Report to the SC 32 October 2000 Plenary, Helsinki, Finland

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

At the Santa Fe Plenary I reported that 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 had ceased and that the standards produced under this project —- ISO/IEC 9075:1992, ISO/IEC 9075-3:1995 and ISO/IEC 9075-4:1996 were withdrawn as they had been superseded by the standards produced under project 1.32.03.04. ITTF, however, seemed reluctant to withdraw these standards but our Editor's implicit threat to "get on a plane to Geneva" finally had the right result. Actually it wasn't that bad — simply a misunderstanding regarding the status of the superseded standards which was quickly resolved without the expenditure of air miles.

# Project 1.32.03.04

# SQL Parts at IS

The ISO/IEC 9075-1 SQL/Framework, ISO/IEC 9075-2 SQL/Foundation, ISO/IEC 9075-3 SQL/CLI, ISO/IEC 9075-4 SQL/Persistent Stored Modules and ISO/IEC 9075-5 SQL/Host Language Bindings are all standards with a 1999 date.

# SQL Parts in Publication

**Technical Corrigenda**

The DCOR ballot closed on the 15$^{th}$ May 2000. The Editing Meeting was held in Warwick, England and completed its business on the 13th of July 2000 with the following resolution which was passed unanimously by all 8 National Bodies present (7 P members and 1 O member):

> The Editing Meeting held in Warwick, England, between the 3rd and the 13th July 2000 recommend that the Technical Corrigendum document be transmitted to ITTF in Geneva for publication as a COR as soon as the revised text is available.

The National Bodies voting included both of the National Bodies that voted No on the ballot. 170 comments resulted from the ballot. The Editing Meetings managed to resolve all of these 170 Ballot Comments. The resolution was generally a technical solution but in very few cases new problems were reported in the published standard for which there was no time to develop satisfactory and reliable solutions and these have been passed on to the Working Group for solution. Also in a few cases the "problem" reported was not an actual problem but a request for additional functionality and these too have been passed to the Working Group.

A number of Ballot Comments required that any additional problems discovered during the editing process also be resolved. All such problems discovered were resolved by proposals addressing existing ballot comments.

At the close of the final meeting there were **no** outstanding known problems with the Technical Corrigendum under ballot.

The Editor, Stephen Cannan, shipped camera ready copy on Monday, September 18th, 2000 to the SC32 Secretariat for onward transmission to ITTF and the COR is now in publication.

**Part 10: SQL/OLB**

The FDIS ballot was successfully completed on 13$^{th}$ September 2000 and the Part is now in publication.

# SQL Parts at FDIS

### Amendment 1: SQL/OLAP

The FPDAM ballot closed on $1^{st}$ May 2000. The Editing Meeting was held in Warwick, England and completed its business on the $13_{th}$ of July 2000 with the following resolution which was passed unanimously by all 8 National Bodies present (7 P members and 1 O member):

> The Editing Meeting held in Warwick, England, between the $3_{rd}$ and the $13_{th}$ July 2000 recommend that the SQL/OLAP amendment document be progressed to FDAM ballot as soon as the revised text is available.

The National Bodies voting included all 5 of the National Bodies that voted No on the ballot. 57 comments resulted from the ballot. The Editing Meetings managed to resolve all of these 57 Ballot Comments.

At the close of the final meeting there were **no** outstanding known problems with the amendment under ballot.

The Editor, Jim Melton, shipped camera ready copy on Tuesday, August $30_{th}$, 2000 to the SC32 Secretariat for the two-month FDAM ballot on this SQL amendment.

The FDAM ballot may or may not have been initiated. ITTF have not updated their web page since the $30^{th}$ August 2000.

### Part 9: SQL/MED

The FDIS ballot commenced on??? The Editing Meeting completed its business on the $13^{th}$ of July 2000 with the following resolution which was passed by a vote of 6 to 1 of the 8 National Bodies present (7 P members and 1 O member):

> The Editing Meeting held in Warwick, England, between the $3_{rd}$ and the $13_{th}$ July 2000 recommend that the SQL/MED part document be progressed to FDIS ballot as soon as the revised text is available.

The National Bodies voting Yes included 5 of the 6 National Bodies that voted No on the ballot. One National Body (Canada) maintained its No vote at least for the time being. Canada said in its closing comments that "Canada is happy that we resolved all the comments. Canada notes that the new document will be a result of substantial changes and Canada would like the opportunity to review the changes and the entire document for consistency before Canada can commit to an FDIS ballot.".

254 comments resulted from the ballot. The Editing Meetings managed to resolve all of these 254 Ballot Comments. A number of Ballot Comments required that any additional problems discovered during the editing process also be resolved. All such problems discovered, including the Australian comments which due to an administrative problem were not submitted through the proper channels, were resolved by proposals addressing existing ballot comments.

At the close of the final meeting there were **no** outstanding known problems with the part under ballot.

The Editor, Jim Melton, shipped camera ready copy on September $28_{th}$ 2000 to the SC32 Secretariat for the two-month FDIS ballots on this SQL part.

The FDIS ballot may or may not have been initiated. ITTF have not updated their web page since the $30^{th}$ August 2000.

# General

Successful completion of the ballots on SQL/OLAP and SQL/MED will complete work on this project. There is a chance that all documents will receive or have received a 1999 or a 2000 date.

# Project 1.32.03.05

# SQL Parts at WD

Working drafts for all parts of SQL except the new part, Part 12, were issued following the Santa Fe meeting for further development in anticipation of a future revision of the standard.

The working group has 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 that are existing standards or currently under ballot by the end of 2002 and the new parts (SQL/Temporal and, if approved, SQL/Replication, SQL/JRT and SQL/XML) following in the first quarter of 2003.

In line with this schedule, approved at the Santa Fe meeting, WG3 is requesting CD ballots for Parts 1, 2, 3, 4, 9, 10 and 11.

# New parts

A candidate working draft for the proposed new part, Part 12 SQL/Replication has not yet-materialised. It is expect to be available in time for Perth interim meeting, at which point the SC32 ballot procedure for sub-project splits can be initiated.

The working group is also requesting 2 new subproject splits for SQL/JRT and SQL/XML. Details of these were given in the WG3 presentation during the SC32 Tutorials given at this meeting. A sketch for a Working Draft for SQL/JRT was available at this meeting but a more complete working draft will be published as an on time paper for the first interim meeting. A candidate working draft for SQL/XML is expected in time for the second interim meeting in Perth. This continues WG3's attempt to standardise in the areas of technology which are relevant to SQL and which are attracting significant interest in the marketplace.

# Other Matters

In an attempt to improve on what we consider WG3's already impressive ability to handle work in a timely manner, we have been experimenting at this meeting with co-locating National Body meetings with the WG3 meeting. During the first 4 days of the WG3 meeting, NCITS H2 held their National Body meeting in the same room as WG3 under their own rules whilst WG3 continued to work under its normal rules. A set of procedures were agreed at the start of the meetings that enable us to alternate between meetings as required to satisfy both sets of rules. Operating in this way allowed us to process proposals that could not otherwise have been submitted by NCITS H2. The benefits to H2 and thus indirectly to WG3 result from significantly reduced overheads in preparing for and post-processing the results of an ISO meeting.

# Summary

Excellent progress is being made on all fronts. Attendance at meetings is good — at least 8 National Bodies are always represented and 11 National Bodies have attended at least one meeting.

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 (substantially at his own expense and inconvenience) 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. 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.

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# Candidate Material for Business Plan

## 2.0 PERIOD REVIEW

Excellent progress continues to be made in developing SQL. The remaining parts of the SQL:1999 standards, including the 1st Technical Corrigendum, have all finished the technical stages and are in the hands of ITTF for final administrative processing. 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. The adoption of new subproject proposals for additional alignment with Java and for providing for interworking with XML and the scheduling of these for completion within the current timescale for the next major revision demonstrates the commitment to move with and serve the needs of the marketplace.

## 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 Modules (for SQL 3) | Information Technology - Database Language SQL - Part 4: Persistent Stored |
|---|---|
| [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 |

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

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

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

| 03.04.09.00.00 | Information technology --Database Language SQL - Part 9: Management of |
|---|---|

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| | | 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 |

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


None:


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


None:


The following project is progressing in Stage 3 – Committee Stage



| | | |
|---|---|---|
| 03.05.01.00.00 | | Information Technology - Database Language SQL - Part 1: Framework |
| [ISO-id | ? ] | ISO/IEC 9075-1 |

| | | |
|---|---|---|
| 03.05.02.00.00 | | Information Technology - Database Language SQL - Part 2: Foundation |
| [ISO-id | ? ] | ISO/IEC 9075-2 |

| | | |
|---|---|---|
| 03.05.03.00.00 | | Information Technology - Database Language SQL - Part 3: Call Level Interface |
| [ISO-id | ? ] | ISO/IEC 9075-3 |

| | | |
|---|---|---|
| 03.05.04.00.00 Modules | | Information Technology - Database Language SQL - Part 4: Persistent Stored |
| [ISO-id | ? ] | ISO/IEC 9075-4 |

| | | |
|---|---|---|
| 03.05.09.00.00 | | Information technology --Database Language SQL - Part 9: Management of External Data |
| [ISO-id | ? ] | ISO/IEC CD 9075-9 |

| | | |
|---|---|---|
| 03.05.10.00.00 | | Information technology --Database Language SQL - Part 10: Object language bindings |
| [ISO-id | ? ] | ISO/IEC CD 9075-10 |

| | | |
|---|---|---|
| 03.05.11.00.00 | | Information Technology - Database Language SQL - Part 11 Schemata |
| [ISO-id | ? ] | ISO/IEC 9075-11 |

## 2.3    RESOURCES

Adequate resources are currently available for all projects.

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### 3.0    FOCUS NEXT WORK PERIOD

SQL work remains particularly active. During the next period we expect to progress 9 parts to the FCD ballot stage. This includes 2 new parts as well as revisions to 7 existing parts.

### 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. To this end the group will continue to accept the input of virtually complete drafts developed by national and international ad-hoc groups, but submitted through National Bodies, to complete and revise these and to progress them rapidly through the de jure standardisation process.

### 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. Changing market requirements also calls for constant reassessment of priority and resource allocation.

### 3.2.2    OPPORTUNITIES

XML represents a major area of opportunity where market forces are creating demand for standards and SC 32 WG3 is now moving aggressively into this area and will be producing initial results within the next period with additional work being initiated once the initial results are ready.

### 3.3    WORK PROGRAMME PRIORITIES

The work program priorities for WG3 are the initiation of the next major revision of SQL (project 1.32.03.05) and the within this same project the adding additional new parts to address the market needs of additional Java integration and XML co-existence.