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

Pacific Northwest National Laboratory *, 13600 Angelica Court, Chantilly, VA, 20151-3360,
United States of America

Telephone: +1 202-566-2126; Facsimile: +1 202-566-1639; E-mail: MannD@battelle.org

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Data Management and Interchange
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Author: Krishna Kulkarni (USA)

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**Minutes of
ISO/IEC JTC 1/SC 32/ WG 4 SQL/MM Meeting
May 24 to 26, 2004
Xi'an, China**

1 Introduction of Participants

Participants were:

Mark Ashworth (Canada)	ashworth@ca.ibm.com
Krishna Kulkarni (USA)	krishnak@us.ibm.com
Christoph Lingenfelder (Germany)	lin@de.ibm.com
Yinzhang Ma (China)	maochuxiang@hzcnc.com
Chuxiang Mao (China)	maochuxiang@hzcnc.com
Mike Newton (UK)	m.a.Newton@open.ac.uk
Kohji Shibano (Japan)	shibano@aa.tufs.ac.jp
Takaaki Shiratori (Japan)	shirator@jp.ibm.com
Kenzi Suzuki (Japan)	suzuki@tiu.ac.jp
Yi Zheng (China)	czrszy@hotmail.com

2 Distribution of Documents

The document log at the beginning of the meeting listed papers SIA-001 through SIA-018. Papers SIA-001 through SIA-015 were posted to the archive before the meeting. Papers SIA-016 through SIA-018 and two new papers, SIA-019 and SIA-020, were tabled during the meeting. See Appendix A for the final document log.

3 Selection of Secretary and Drafting Committee

Krishna Kulkarni (USA) is appointed secretary. **Mike Newton** (UK) is appointed to the drafting committee.

4 Approval of Agenda

The agenda is approved with no objections.

5 Review of the previous meeting minutes

5.1 Minutes of the Melbourne Meeting (WG4 SIA-001)

Approved.

Review of action items:

16.1 Not done. Christoph mentioned that he was unable to find time to carry out this action item in time for this meeting. He asked that this action item be carried forward to the next meeting.

16.2 Not done. Christoph mentioned that he was unable to carry out this action item because full text experts are no longer participating in the German national body. He asked that this action item be closed.

6 National Body Opening Comments

6.1 China

The China is pleased to attend this meeting of WG4 and host this meeting.

Welcome all the other national bodies to Xi'an. Hope the meeting will be successful .
And we also hope delegates will enjoy the journey here.

6.2 Canada

Canada is pleased to attend this meeting so graciously hosted by China in the historic city of Xi'an.

Canada notes the publication of the TCs for first edition of Part 2: Full-Text, Part 3: Spatial and Part 5: Still Image as well as the publication of the second edition of Part 2: Full-Text, Part 3: Spatial and Part 5: Still Image and we thank the editor, convenor and N.B. Experts for their hard work getting these standards published.

Canada regrets that it is not able to offer any candidate Editors for the Third Edition work of Parts 2 and 5.

Since our last meeting, Canada has been very active in Part 3: Spatial and brings 2 change proposals for the third edition. Inside Canada, there has been increased activity in the area of Time-varying Spatial Information. Canada is excited to bring a draft discussion paper for comment that, when completed, will be presented to ISO/TC 211.

WG4 pushed support for the Z coordinate and Measures to the third edition of Part 3: Spatial so that this functionality can be reviewed more thoroughly. It has been several meetings since this action was taken which has given WG4 ample time for this review. We note that schedule shows that Part 3: Spatial should progress to CD out of the Xi'an meeting and Canada feels that is important to progress functionality as soon as possible.

6.3 Germany

Germany is very pleased to be able to send a delegation to this meeting in China, and we want to thank the Chinese national body for hosting the SC32 Plenary and working group meetings providing excellent facilities in the old and beautiful city of Xi'an.

Germany expects to make good progress in WG4 work, especially in part 6, data mining, which should lead to progression to CD out of this meeting.

6.4 Japan

Japan expects to progress the proposals of Part 3: Spatial and Part 6: Data Mining extensions. Japan would like to thank the China National Body for hosting the WG4 meeting.

6.5 United Kingdom

The UK is pleased to attend this meeting of WG4. We look forward to making progress on Parts 3 and 6, and hope that the status of Parts 2 and 5 can be clarified.

The UK would like to thank the Chinese Standards organization for hosting this meeting and arranging for us to be in such enjoyable surroundings here in Xi'an.

6.6 United States of America

USA is pleased to attend this meeting. USA would like to take this opportunity to thank the national body of China for hosting the meetings in this historic city of Xi'an.

USA regrets not having any contributions to this meeting. Unfortunately, we continue to lack active participation from the domain experts in our national body. USA also regrets the absence of our spatial expert, Paul Scarponcini, and our data mining expert, Mark Hornick, who could not be here because of other conflicts.

7 SQL/MM Part 1 Framework

7.1 SQL/MM-Part 1: Framework 3rd Edition WD text (WG4 SIA-002)

Approved.

8 SQL/MM Part 2 Full-Text

8.1 SQL/MM-Part 2: Full-Text 3rd Edition WD text (WG4 SIA-003)

Approved.

8.2 Editor's Note 2-218 in Part 2 Full Text (Revised) (WG4 SIA-011)

Takaaki Shiratori presented the paper. Approved.

8.3 Some special issues in Chinese full-text processing (WG4 SIA-020R1)

Yi Zheng presented the paper. Discussed.

9 SQL/MM Part 3 Spatial

9.1 SQL/MM-Part 3: Spatial 3rd Edition WD text (WG4 SIA-004)

Approved.

9.2 ST_ShortestPaths function revisited (Shortest Path function for undirected graph (WG4 SIA-007)

Kenji Suzuki presented the paper. Approved.

9.3 ST_ShortestDirPaths function (WG4 SIA-008)

Kenji Suzuki presented the paper. Approved.

9.4 Edge-weight capability extension to ST_ShortestUndPath (WG4 SIA-009)

Kenji Suzuki presented the paper. Mark brought up the following problems with the paper:

- 1) Page 2: Mark mentioned that having a routine with optional parameters is not consistent with the routines in the current WD and suggested looking at ST_length function specification on how to handle this issue.
- 2) Page 2: Mark objected the instruction on Section 2.2 to replace the entire Subclause 12.2.1, which if implemented will lose an existing PP.

- 3) Page 3: Mark objected to the use of word "must" in Description 1) b) and 1)c). He suggested using an explicit exception.
- 4) Page 4: Mark objected to the use of "linear unit" in Description rule 3).

Shibano suggested Japan to work with Mark and come back with a revised version.

The R1 version was tabled on Tuesday. It was approved with the following amendment

- 1) In Section 2.2, DR 1) a) iii), delete "optional".

9.5 Edge-weight capability extension to ST_ShortestDirPath (WG4 SIA-010)

Shibano observed that this paper suffered from the same problems as SIA-009, and suggested Japan to work with Mark and come back with a revised version.

The R1 version was tabled on Tuesday. It was approved with the following amendment

- 1) In Section 2.2, DR 1) a) iv), delete "optional".

9.6 Additional approach to finding shortest path: Subtyping (WG4 SIA-015)

Kenji Suzuki presented this discussion paper. Mark mentioned that weights may vary from application to application. Also, they may vary over time. Hence, he advised against making fixed weight line segments a subtype of lines.

9.7 Enhance CAST support in SQL/MM Spatial (WG4 SIA-013)

Mark Ashworth presented the paper. Approved.

9.8 ST_IsWorld text (WG4 SIA-014)

Mark Ashworth presented the paper. The paper was approved with the following amendment:

- 1) In Section 2.3, change "is_empty" to "is_world".

9.9 Developing standards for time-varying spatial information (WG4 SIA-019)

Mark Ashworth presented the paper. The paper was discussed.

10 SQL/MM Part 5 Still Image

10.1 SQL/MM-Part 5: Still Image 3rd Edition WD text (WG4 SIA-005)

Approved.

11 SQL/MM Part 6 Data Mining.

11.1 SQL/MM-Part 6: Data Mining 2nd Edition WD text (WG4 SIA-006)

Approved.

11.2 Rule Model filtering (WG4 SIA-016)

Christoph Lingenfelder presented the paper. A number of amendments were proposed:

- 1) In the table n on page 14, replace null with unbounded.
- 2) In the tables n and m, change the formal names DM_rule<criteria> of criteria to more descriptive text.
- 3) In table n, replace the second column name "SMALLINT value" with "Criterion Code" and do the same change wherever necessary.
- 4) In the same function and in similar functions in the existing document, change the type from SMALLINT to INTEGER.
- 5) Remove the definition of "association rule information gain" and remove this criterion from all methods with numeric ranges.
- 6) Change all occurrences of VARCHAR to CHARACTER VARYING.

Paper was approved with the understanding that the author would produce and post a revised version incorporating the suggested amendments.

11.3 Rule Model application (WG4 SIA-017)

Christoph Lingenfelder presented the paper. The paper was approved with the following amendments:

- 1) In page 6, Description 4), replace "value of a value of" with "number of characters for a value of". The Editor is directed to apply the same change in other places in the paper as well as in the current working draft.
- 2) Add a definition rule for DM_MaxItemLength in DM_ApplyRuleModel method, editorial instruction 6.
- 3) Change all occurrences of VARCHAR to CHARACTER VARYING.

11.4 Conformance for scoring data mining models (WG4 SIA-018)

Christoph Lingenfelder presented the paper. The paper was approved as written.

Mike Newton suggested adding a PP to ensure revisions to the PMML specification are tracked. Action: Christoph to draft an appropriate PP.

12 SQL-200n Issues

No SQL-200n issues were brought up.

13 National Body Closing Comments

13.1 Canada

Canada is pleased with the progress made on Part 3 and Part 6 at this meeting and we would like to thank the convenor, Shibano-san for running another smooth meeting.

Canada thanks the China N.B. for hosting the meeting in these very nice facilities and the wonderful SC32 reception on Monday evening.

13.2 China

China is very pleased to help the meeting successful. Welcome all the other national bodies to this old and beautiful city and have a pleasure journey.

Since it is the first time we take part in WG4, the principal objective for us is to learn from other national bodies.

We are very glad to learn much useful information from others. We hope we can cooperation with others in the future to promote this standards in China.

China would like to thank Kohji Shibano for chairing the WG4 meeting and thank all the other national bodies

13.3 Germany

Germany thanks the Chinese hosts again for providing excellent facilities in very nice surroundings, and the convenor for his work, that made WG4 so productive.

Germany appreciates the work done, and welcomes the progression to CD for parts 1, 3, and 6.

13.4 Japan

Japan is pleased to see that the third edition of Part 1: Framework and Part 3: Spatial, and the second edition of Part 6: Data Mining are progressing to CD out of this meeting.

Japan would like to thank Kohji Shibano for chairing the WG4 meeting and the China National Body for hosting this meeting providing the good facilities.

13.5 United Kingdom

The UK is concerned about some aspects of the progression plan, but hopes that these matters can be resolved.

The UK would like to thank the Chinese Standards organization for their arrangements for this meeting and we have enjoyed being here in Xi'an.

13.6 United States

USA is pleased with the progress made at this meeting for Part 3, Spatial and Part 6, Data Mining. USA thanks the Convenor, Kohji Shibano, for chairing the meeting. USA also thanks the Chinese national body for hosting the meeting.

14 Liaison Issues

14.1 SC32/WG4 liaison status with TC 211 (WG4 SIA-012)

Kohji Shibano presented the paper. The group expressed its appreciation to Shojiro Tanaka for his excellent contribution. Krishna read out an email from Paul Scarponcini he had received, reproduced below:

“In reference to section 3.6 (GML) of this paper. SQL/MM Spatial includes methods for converting between SQL and GML based on GML2. The proposed ISO 19136 CD is for GML3.1. WG4 should assess what impact this newer version of GML will have on these conversion routines, focusing both on any GML2 constructs being deprecated and any new GML3.1 functionality which might be relevant.”

Mark agreed with Paul's concern. **Action:** Mark Ashworth to add a PP to Part 3 Working Draft reflecting Paul's concern.

15 WG4 Recommendation to SC32 and review of project plan

15.1 WG4 Meeting Resolutions (WG4 N0038)

Resolution 1 accepted with all but UK supporting. UK abstained
Resolution 7 accepted unanimously.
Resolution 10 accepted unanimously.
Resolution 12 accepted with all but UK supporting. UK abstained.

15.2 WG4 Project Corrections (WG4 N0039)

Approved unanimously.

15.3 WG4 Liaison Corrections (WG4 N0040)

Approved unanimously.

16 Action Items

16.1 From Agenda item 5.1

The author of the approved data mining papers MEL-023 through MEL-027R1 and SIA-016 through SIA-018 is to prepare a further contribution providing material for the Concepts section of the Working Draft to reflect the extensions made by the papers.

16.2 From Agenda item 11.4

Christoph Lingenfelder is to add a PP to the Part 6 Working Draft indicating possible impacts of the new PMML standard on Part 6.

16.3 From Agenda item 14.1

Mark Ashworth is to add a PP to the Part 3 Working Draft indicating possible impacts of the new GML standard on Part 3.

17 Adjourn

The meeting is adjourned at 14:30 on Wednesday, May 26, 2004.

Appendix A: JTC 1/SC 32/WG 4 SQL/MM Xi'an Document Register

WG4 SIA -001	Lingenfelder	Minutes of WG4 Interim Meeting, Dresden, Germany
WG4 SIA -002p	Shiratori	SQL/MM Part 1: Framework 3rd Edition WD Text
WG4 SIA -003p	Ashworth	SQL/MM Part 2: Full Text 3rd Edition WD Text
WG4 SIA -004p	Ashworth	SQL/MM Part 3: Spatial 3rd Edition WD Text
WG4 SIA -005p	Ashworth	SQL/MM Part 5: Still Image 3rd Edition WD Text
WG4 SIA -006p	Lingenfelder	SQL/MM Part 6: Data Mining 2nd Edition WD Text
WG4 SIA -007	Japan	ST_ShortestPaths function revisited (Shortest-paths function for undirected graph)
WG4 SIA -008	Japan	ST_ShortestDirPath function
WG4 SIA -009	Japan	Edge-weight capability extension to ST_ShortestUndPath
WG4 SIA -010	Japan	Edge-weight capability extension to ST_ShortestDirPath
WG4 SIA -011	Japan	Editor's Note 2-218 in Part 2 Full-Text (Revised)
WG4 SIA -012	Japan	SC 32 /WG 4 liaison status with TC211
WG4 SIA -013	Ashworth	Enhance CAST support in SQL/MM Spatial
WG4 SIA -014	Ashworth	ST_IsWorld Test
WG4 SIA -015	Japan	Additional approach to finding shortest path: Subtyping
WG4 SIA -016	Germany	Rule Model Filtering
WG4 SIA -017	Germany	Rule Model Application
WG4 SIA -018	Germany	Conformance for Scoring of Data Mining Models
WG4 SIA -019	Canada	Developing Standards for Time -varying Spatial Information
WG4 SIA -020R1	China	Some special issues in Chinese full-text processing

Appendix B: Paper numbers for the Interim meeting

WG4STX-001	Kulkarni	Minutes of WG4 Meeting, Santa Fe, NM, USA
WG4STX-002	Shiratori	SQL/MM-Part 1: Framework 3rd Edition CD Text
WG4STX-003	Shibano	SQL/MM-Part 2: Full-Text 3rd Edition WD Text
WG4STX-004	Ashworth	SQL/MM-Part 3: Spatial 3rd Edition CD Text
WG4STX-005	Shibano	SQL/MM-Part 5: Still Image 3rd Edition WD Text
WG4STX-006	Lingenfelder	SQL/MM-Part 6: Data Mining 2nd Edition CD Text
WG4STX-007	Ashworth	SQL/MM-Part 3: Spatial TC
WG4STX-008	SC32	Summary of voting Part 1
WG4STX-009	SC32	Summary of voting Part 3
WG4STX-010	SC32	Summary of voting Part 6
WG4STX-011	Shiratori	Consolidated National Body comments Part 1
WG4STX-012	Ashworth	Consolidated National Body comments Part 3
WG4STX-013	Lingenfelder	Consolidated National Body comments Part 6

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