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SQL/MM FRA-002

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International Organization for Standardization

ISO/IEC JTC 1/SC 32
Data Management and Interchange
WG4 SQL Multimedia and Application Packages

Secretariat: USA (ANSI)

Project: 1.32.4

Title: Minutes of the SQL/MM WG4 Meeting and
FCD and CD Continuation Editing Meetings, July 9, 13 – 17, 1998,
Brisbane and Sydney, Australia.

Author: Paul Scarponcini (USA), Hugh Darwen (United Kingdom)

Source: SQL/MM WG4

Status: Output Document: SQL/MM FCD/CD Editing and WG Plenary

SQL/MM Working Group 4 Meeting and ISO/IEC CD 13249-2 SQL/MM Part 2: FullText FCD, ISO/IEC 13249-3 SQL/MM Part 3: Spatial FCD, and ISO/IEC 13249-5 SQL/MM Part 5: Still Image CD Continuation Editing Meetings

Meeting Minutes

Dates:

Working Group meeting - 1998-07-09 (Thu)
Continuation Editing meeting - 1998-07-13 (Mon) to 1998-07-17 (Fri)

Place:

Working Group meeting –
Queensland Institute of Technology, Brisbane, Australia
Continuation Editing meeting –
IBM, Darling Harbor, Sydney, Australia

Contents:

Minutes Part A:

Working Group 4 Meeting:
July 9, 1998 (Thu)
Brisbane

The meeting was called to order at 9:00 AM on Thursday the 9th of July, 1998, at the Queensland Institute of Technology in Brisbane, Australia. Kohji Shibano, Convenor of WG4, chaired the meeting.

1. Introduction of Participants

Mark Ashworth (USA)
Don Bartley (Australia)
Stephen Cannan (The Netherlands)
Paul Cotton (Canada)
Hugh Darwen (UK)
Mike Newton (UK)
Peter Pistor (Germany)
Kohji Shibano (Japan)
Bob Sunday (Canada)
Shojiro Tanaka (Japan)

2. Distribution of Documents

BBN-018, 019, 020 and 021 were added to the document register.

3. Selection of Secretary and Drafting Committee

Hugh Darwen was appointed secretary.

4. Approval of Agenda

Mike Newton suggested that some discussion of the administration of WG4 might be needed. This was added as Agenda Item 14.

5. Review of the previous meeting minutes (BBN-001)

BBN-001 contains the minutes of the last meeting of the ISO/IEC JTC 1/SC 21/ WG 3/ SQL/MM Rapporteur Group, now reformed as ISO/IEC JTC 1/SC 32/WG 4. This meeting was held in London, England, in July, 1997. BBN-001 also contains minutes of the various SQL/MM editing meetings that were held in London following the Rapporteur Group meeting.

Canada moved to adopt BBN-001 and the motion was passed without objection.

6. National Body Opening Comments

Australia

Australia believes that alignment with other ISO standards, where relevant, is important, and therefore requires alignment of SQL/MM Part 3, Spatial, with ISO TC211's related project.

Canada

not available

Germany

Germany want to progress FullText and Spatial as fast as possible. Germany remains to be determined to further contribute to the completion of the Still-Image Standard.

Japan

Japan thinks it is vital that our standards conform to the major industry needs. In this context, we regard output from Harmonization Meeting with TC211 and OGC as indispensable requirements for the promotion of implementing a part of our standard, Part 3: Spatial. On the other hand, we expect to achieve FDIS status as fast as possible, taking the trade-offs.

We are trying to contribute more to the other parts, but unfortunately we are not successful so far.

The Netherlands

The Netherlands supports WG4 projects but regrets it has not had been able to contribute for lack of resources.

UK

The United Kingdom supports WG4 projects and would like to contribute subject but is severely constrained by lack of resources and domain expertise. We offer mainly our experience in SQL in particular and in ISO standardisation in general. On this occasion we are pleased to be able to contribute a candidate working draft for SQL/MM Part 1, Framework. We think it is very important that SQL/MM standards have the approval of other standardising bodies working in related areas.

USA

not available

7. SQL/MM Part 1: Framework (BBN-003)

7.1 Editor's Errata (Ashworth) (BBN-010)

7.2 Revised Draft of Part 1, Framework (SC 32 N 130) (BBN-015)

Mike Newton reported on his joint effort with Bill Olle in the UK to provide a working draft for part 1 and asked about status. Paul Cotton suggested adopting BBN-015 as the working draft. Mike Newton presented BBN-015 and offered to draft detailed amendments that might be required, to assist the editor (this offer later turned out to be irrelevant when Mike replaced Mark as editor of Part 1—see Agenda Item 16.1).

Concern was expressed about the Definitions section. It was agreed that this will be reduced to a list of terms actually used. Several minor amendments were agreed. References to "Locator" are to be deleted. "User-defined type" is to be spelled correctly. The reference to JPEG is non-normative (but is normative in Part 5). Mike Newton suggested that subclauses 3.1.2.5 and 3.1.2.6 be deleted. Paul Cotton mentioned the (very precise) official ISO format for definitions, with reference to the ISO Directives and Word template.

Should "package" be defined? Can't "Application context" be deleted? Clause 4 may be contentious. Comment is invited. "SQL database" is not defined and in any case "SQL-data" should be preferred as the term used in SQL for this concept. Paul Cotton suggested that a ballot would be the best way of getting these matters addressed.

Certain amendments were agreed:

Page 7: Delete the last sentence of the 1st paragraph.

4.4 Exchange paragraphs 3 and 4 and wordsmith accordingly.

A problem was identified concerning use of SQL terms.

In Clause 5, "areas" is to be replaced by "surfaces".

It was noted that Clauses 6 and 7 consist of text largely purloined from other parts.

Regarding Clause 8, Conformance, the necessity or otherwise of this Clause was discussed. Mike Newton suggested that there should at least be a "meta" statement about conformance, even if all this does is point to conformance clauses in the other parts.

It was noted that the proposed Annexes were based on counterparts in ISO 9075. It was agreed that each one should be on a new page. SC32 secretariat address is to be supplied.

Canada moved to adopt BBN015 as amended by this meeting as the new Working Draft for Framework. Canada also moved that we submit the newly adopted Working Draft for SQL/MM Framework as a Final

Committee Draft for National Body ballot. Both motions were accepted unanimously.

8. SQL/MM Part 2 Full-Text WD (BBN-004)

8.1 Editor's Errata (Cotton) (BBN-009)

The editor noted that the Later Progression material is back-level.

8.2 LGW-062, Final Disposition of 1st CD Comments Part2: Full-Text (BBN-016)

8.3 BBN-018 SC32 N00142

Mike Newton presented BBN-018, discussing the question concerning structured text support in Part 2. Mike Newton stated that main intent was to make this late progression work more visible to other groups inside and outside SC32.

Peter Pistor said the question had been answered long ago in certain Canadian papers.

8.4 BBN-019 Canadian expert response to BBN-018.

BBN-018 points to the Canadian documents (YOW- and LHR- papers) and the Web site that has been available since 1995. This material has been used to answer questions from, *e.g.*, W3C.

Paul Cotton mentioned that the early progression material could benefit from similar publicity. and offered to be liaison from WG4 to W3C.

UK propose to respond to BBN-018 by seeking liaison with W3C and proposing Paul Cotton to be that liaison officer. This is to be included in the WG4 Recommendations to SC32.

9. SQL/MM Part 3 Spatial WD (BBN-005)

9.1 Editor's Errata (Ashworth) (BBN-010)

9.2 ISO/TC 211 WG2 N-084, Working Draft of the combined Spatial SubSchema and Spatial Operators Base Documents

This Agenda Item was deemed to duplicate Agenda Item 9.4

9.3 LGW-061,Final Disposition of 1st CD Comments Part3: Spatial (BBN-017)

9.4 Spatial: ISO/TC 211 WG2 N-084, Working Draft of the combined Spatial SubSchema and Spatial Operators Base Documents (SYD-015)

It was noted that this document was discussed at the Harmonization Meeting between ISO TC 211/WG 2, ISO/IEC JTC 1/SC 32/WG 4 and the Open GIS Consortium (OGC) in June, 1998.

9.5 Spatial: Collation of Spatial Relations with DE-9IM (SYD-016)

This submission by Japan to Harmonization Meeting referred to in Agenda Item 9.4 was presented by Shojiro Tanaka-san.

9.6 Spatial: Comparison of TC 211, OGC and SQL/MM (SYD-017)

Mark Ashworth presented this Canadian submission to Harmonization Meeting, noting in particular that OGC would like to regard SQL/MM Part 3 as the SQL3 implementation of their "Simple Features".

Paul Cotton reported on success of the meeting itself in achieving three-way "communication channels and common culture". Each of the three bodies now realizes how its work is complementary to the work of the other two.

10. SQL/MM Part 4 General Purpose Facilities (BBN-006)

10.1 Editor's Errata (Ashworth) (BBN-010)

10.2 Final Disposition of Comments: SQL/MM Part 4: GPF (BBN-013)

11. SQL/MM Part 5 Still-Image CD (BBN-007)

11.1 Editor's Errata (Cotton) (BBN-009)

12. SQL3 Issues

12.1 SQL3 Issues and Requirements (BBN-011)

12.2 Impacts on SQL/MM (BBN-012)

13. National Body Closing Comments

not available

14. WG4 Administration

It was noted that the SC32 repository at jerry.ece.umassd.edu ("Jerry") is to remain available for at least another year. The SC32 secretariat is hoping to set something up in the fullness of time, but even then Jerry will

still be there. Bob Sunday told of efforts in SC32 to improve the current facilities—directory names that pin down the meeting, automated paper number provision and so on. It was suggested that we should not make detailed plans until we have seen what the SC32 effort will provide.

15. Liaison Issues

15.1 Request for Class C liaison from the Open GIS Consortium (BBN-021)

It was unanimously agreed to ask SC32 to accept this request.

16. WG4 Recommendation to SC 32 and review of project plan (BBN-002)

16.1 BBN-020r1 Draft Resolutions (BBN-020r1)

Paul Cotton suggested minor amendments to the Terms of Reference.

The issue of a possible second FCD for Part 3, Spatial, was discussed. Paul Cotton reported that Canada was directed to oppose. Paul Cotton mentioned the possibility of "no" votes on the DIS from National Bodies where TC211 is active. Peter Pistor reported that Germany is also opposed to 2nd FCD. Mike Newton expressed concern that an editing meeting in November would preclude progress on Parts 1 and 5 before next year's SC32 meeting in Japan. Paul Cotton thought that was actually a good idea. Mike Newton asked if it was possible for Parts 2 and 3 to progress in advance of Part 1, and even if it is possible, whether we would want that? Canadian delegates asserted that it *is* possible (normatively referenced standards are permitted be one cycle behind the referencing documents) and saw no problem.

In response to questions about the feasibility of holding WG4 editing meetings in Japan next year, Tanaka-san said it should be possible to have these either immediately before or immediately after the SC32 meeting. There was some inconclusive discussion as to how best to use such facilities; it was agreed that we would make the detailed decisions in November.

It was determined that Germany could offer IBM, Heidelberg, as a venue for continued editing meetings if required. It was noted that such meetings could take place between November 10 and November 13, 1998, to follow the SQL3 FCD continued editing meetings already projected.

Consequent updates to Project Plans were agreed.

A need for a new resolution was realized, on subdivision of the project, to permit "later progressions" of Parts 2 and 3. Shibano-san agreed to draft appropriate text.

Mark Ashworth regretfully announced his resignation, owing to competing priorities, as editor of Part 1 and Part 4. Mike Newton said UK would offer to edit Part 1 (in the shape of himself), and that offer was accepted unanimously.

Liaison officers as agreed earlier (Paul Cotton to W3C and Mark Ashworth to OGC) were added to Section 3.3 of BBN020r1.

Section 4.1 was deemed inappropriate and struck out (it prejudges result of a future editing meeting). Section 4.2 becomes 4.1.

The next WG4 meeting will be in Shimane, Japan, before the SC32 plenary in May 1999, during the two-week period allocated for WG meetings. It was noted that it might be possible to have editing meetings for Parts 1 and 5 (two days each) in Japan the week after. We anticipate continuation editing meeting if required Nov 10-13 in Germany.

17. Action Items

Shibano-san to prepare final resolutions as agreed. Mike Newton to produce an updated Working Draft for Part 1. Paul Cotton, Mark Ashworth and Shibano-san to produce an updated document register.

18. Adjourn

The meeting was adjourned at 13:20, 9th July 1998.

Minutes Part B:

ISO/IEC SC 32/ WG 4 SQL/MM Meeting
ISO/IEC FCD 13249-2 Full-Text,
-3 Spatial, -5 Still Image
Continuation Editing Meeting
July 13 to 17, 1998
Sydney, Australia

The meeting was called to order at 9:00 AM on Monday the 13th of July, 1998, at the IBM Darling Harbor complex in Sydney, Australia. Paul Cotton, FullText Editor, filled in for Kohji Shibano, Convenor of WG4, as meeting chair.

1. Introduction of Participants

Mark Ashworth (USA)
Don Bartley (Australia)
Paul Cotton (Canada)
Hugh Darwen (UK)
Krishna Kulkarni (USA)
Mike Newton (UK)
Peter Pistor (Germany)
Paul Scarponcini (USA)
Shojiro Tanaka (Japan)

2. Distribution of Documents

IBM graciously provided a computer and printer and all documents were made available throughout the meeting.

3. Selection of Secretary and Drafting Committee

Paul Scarponcini as Secretary.
Drafting Committee not required.

4. Approval of Agenda

Motion to approve (Germany/Australia). Approved by unanimous consent.

5. Review of the previous meeting minutes (SYD-001)

Motion to approve (US/Germany). Approved by unanimous consent.

6. National Body Opening Comments

Australia – Welcomes the delegates and wishes them a good meeting. Wishes the spatial standard to conform to TC211.

Canada – At last editing meeting, Canada took action item to cause harmonization with TC211 and OGC to take place; it did and Canada provided paper (SYD-017). Canada believes that we can advance spatial as rapidly as possible with expectation that we will have implementations of the standard soon. Should progress as rapidly as possible to finalize Spatial and FullText. On Still Image, Canada will offer a paper. Picture looks rosy but only if we can get the work done this week.

Germany - Wants to make three comments:

(1) Germany wants to progress FullText and Spatial as fast as possible. Therefore, a third editing round is considered to be preferable over another ballot.

(2) Germany is determined to further contribute to the completion of the Still-Image Standard and would be pleased to see a Final CD in the time-frame of this millenium.

(3) Germany was very concerned about the disconcert in the OGIS-TC211-SQL/MM triangle a couple of months ago. I expect my national body to be very pleased about the outcome of the Virginia meeting. With respect to OGIS/Spatial alignment: Germany wants to see full alignment of SQL/MM Spatial with OGIS's simple feature specification. In addition, Germany does not want MM to prejudice anything beyond that, but wait for advanced feature specifications to become available such that SQL/MM Spatial can do the necessary SQL-specialization.

Japan – Regards harmonization and thinks it is vital to meet. Pleased to see progress of harmonization meeting. Japan sorry it did not bring change proposal but waiting for conclusions of harmonization meeting. Pleased to have another editing meeting. Does not have experts for parts other than spatial.

UK – Continue to support progression as rapidly as possible. Pleased to contribute framework document and to be able to observe here on behalf of SQL DBL. Pleased with results of harmonization meeting.

US - Keen to continue to resolve as many comments as possible on both SQL/MM Spatial and SQL/MM Full Text FCD editing meetings. In particular, it has submitted a number of contributions to align SQL/MM Spatial and OGIS Simple Feature Specification. In addition, USA has submitted a few contributions that go beyond the OGIS Simple Feature specification, with the expectation that they are added to an optional level of conformance. USA continues to regret that it has not been able to contribute in the area of Full-Text and Still Image. In the event that

we are not able to close all the comments at this meeting, USA wishes strongly for a third continuation editing meeting rather than a new ballot.

7. SQL/MM Part 2 Full-Text Final FCD revised (SYD-002)

Motion (US/Australia) to adopt as the working document.
Approved by unanimous consent.

7.1 Interim Disposition of Comments: SQL/MM Part 2: Full-Text (SYD-005)

Noted.

7.2 Unresolved Comments: SQL/MM Part 2: Full-Text (SYD-006)

Noted.

7.3 Full-Text: Addressing DEU-P02-006 (SEQ# 46) (SYD-011)

3.1 and 3.2: change DR2 add alternative “SENTENCE” and “PARAGRAPH”
Approved with minor amendments by unanimous consent.
Closes DEU-P02-006 (SEQ# 46)

7.4 Full-Text: Addressing DEU-P02-008 (Facility for retrieving supported features) (SYD-012r1)

9.3: In FT_Features TABLE, change “FT_FeatureNameLen” and “FT_FeatureValLen” to “256”
Approved with minor amendments by unanimous consent.
Closes
DEU-P02-008 (#48)
CAN-P02-002 (#24) partial
CAN-P02-003 (#25) partial

7.5 Full-Text: Addressing DEU-P02-001 (SEQ# 41) (SYD-013)

3.1.1, 4th change, last line of the syntax, strike out <right paren>
3.1.1, 3rd and 4th changes, 4th line of the syntax, replace “LEVELS” with “{ LEVEL | LEVELS }”
3.7, Replace “brdt >>” with “self.”
3.8, Replace “nrwt>>” with “self.”
Approved with minor amendments by unanimous consent.
Closes
DEU-P02-001 (#41)
JAPAN-P02-001 (#49)

7.6 Full-Text: Providing material for Clause 4, "Concepts" (SYD-014)

Editor authorized to make appropriate change to “This international standard” to something that focuses more on this part of the standard in an acceptable manner consistent with Spatial’s similar handling.
4.2.4.2 change “This family of” to “The expansion facility”

In general, for readability, have a blank between single and double quotes but not otherwise, e.g. change ‘ NOT to ‘NOT and “’ to “ ‘ in second sample in 4.2.6.3
Consider adding PP regarding quotes around thesaurus name in 4.2.4.2
4.2.3.1 change infinite to unlimited
4.6 remove all occurrences of “primarily intended” and “explicitly or implicitly,” and change
4.6.2 change title to “Types and routines for definition”
Complimentary comments of this useful contribution to its author.
Approved with minor amendments by unanimous consent.
Closes
GBR-P02-007 (#15)
CAN-P02-009 (#31)

7.7 Support for Ranking (SYD-052r1)

3.2 , 5.1.n :
change “CALL NULL ON NULL INPUT” to “CALL ON NULL INPUT”
change all “rank” to “Rank”
In DEFN:
remove BEGIN and END
change “rank (text,” with “SELF.rank (“
DS 3b) change all “*text*” to “SELF”
Proposed location in base document: as 5.1.2.1, after Contains methods
Approved by unanimous consent.
Closes
CAN-P02-013 (#35)

7.8 FullText conformance (SYD-053)

2.1 para beginning “All other” last sentence change “shall” to “need” and add “for public use” at the end of the sentence; reverse order of last two paragraphs.
Approved by unanimous consent.
Closes
GBR-P02-014 (#22)
CAN-P03-005 (#27)
GBR-P02-014 (#28)

7.9 Cleaning up use of wild card characters (SYD-054)

Approved by unanimous consent.
Closes
JAPAN-P02-001 (#49) partial

7.10 Addressing CAN-P02-011 (SEQ# 033) (SYD-055)

Approved by unanimous consent.
Closes
CAN-P02-011 (#33)

7.11 Seq#02 USA-P02-002
Proposed as a LANG OP.

7.12 Seq#07 USA-P02-007
Further resolved by SYD-049. Open.

7.13 Seq#09 GBR-P01-001
Subsumed by Seq#49. Mark as resolved.

7.14 Seq#10 GBR-P02-002
Open.

7.15 Seq#15 GBR-P02-007
Resolved by SYD-014.

7.16 Seq#19 GBR-P02-011
Partially resolved CWB-037. Proposal to delete 6.9.4 DR 2) approved unanimously. Mark as resolved.

7.17 Seq#22 GBR-P02-014
Resolved by SYD-053.

7.18 Seq#23 CAN-P02-001
Open.

7.19 Seq#24 CAN-P02-002
Resolved by SYD-012 and SC32 N0130.

7.20 Seq#25 CAN-P02-003
Resolved by SYD-012 and SC32 N0130.

7.21 Seq#27 CAN-P02-005 and Seq#28 CAN-P02-006
Resolved by SYD-053.

7.22 Seq#29 CAN-P02-007
Previously resolved by CWB-037R1.

7.23 Seq#31 CAN-P02-009
Resolved by SYD-014

7.24 Seq#32 CAN-P02-010
Proposed as a LANG OP.

7.25 Seq#33 CAN-P02-011
Resolved by SYD-055

7.26 Seq#34 CAN-P02-012
Open.

7.27 Seq#35 CAN-P02-013
Resolved by SYD-052R1.

7.28 Seq#37 CAN-P02-015
Proposed as a LANG OP.

7.29 Seq#38 CAN-P02-016
Proposed as a LANG OP.

7.30 Seq#41 DEU-P02-001
Resolved by SYD-013.

7.31 Seq#46 DEU-P02-006
Resolved by SYD-011.

7.32 Seq#47 DEU-P02-007
Proposed as a LANG OP.

7.33 Seq#48 DEU-P02-008
Resolved by SYD-012r1.

7.34 Seq#49 JAPAN-P02-01
Partially resolved by SYD-013 and SYD-054. Open.

7.35 Seq#50 JAPAN-P02-02
Proposed as a LANG OP.

7.36 Ballot Comment Summary

Seq	Comment	Paper	Disposition	Reference
#02	USA-P02-002		LANG OP	7.11
#07	USA-P02-007	SYD-049 (partial)	Open	7.12
#09	GBR-P01-001	FRA-002	Resolved	7.13
#10	GBR-P02-002		Open	7.14
#15	GBR-P02-007	SYD-014	Resolved	7.6
#19	GBR-P02-011	CWB-037 (partial)	Resolved	7.16
#22	GBR-P02-014	SYD-053	Resolved	7.8
#23	CAN-P02-001		Open	7.18
#24	CAN-P02-002	SYD-012 (partial) SC32 N0130	Resolved	7.4 7.19
#25	CAN-P02-003	SYD-012 (partial) SC32 N0130	Resolved	7.4 7.20
#27	CAN-P02-005	SYD-053	Resolved	7.8

Seq	Comment	Paper	Disposition	Reference
#28	CAN-P02-006	SYD-053	Resolved	7.8
#29	CAN-P02-007	CWB-037R1	Resolved	7.22
#31	CAN-P02-009	SYD-014	Resolved	7.6
#32	CAN-P02-010		LANG OP	7.24
#33	CAN-P02-011	SYD-055	Resolved	7.10
#34	CAN-P02-012		Open	7.26
#35	CAN-P02-013	SYD-052R1	Resolved	7.7
#37	CAN-P02-015		LANG OP	7.28
#38	CAN-P02-016		LANG OP	7.29
#41	DEU-P02-001	SYD-013	Resolved	7.5
#46	DEU-P02-006	SYD-011	Resolved	7.31
#47	DEU-P02-007		LANG OP	7.32
#48	DEU-P02-008	SYD-012r1	Resolved	7.4
#49	JAPAN-P02-01	SYD-013 SYD-054	Partial Partial Open	7.5 7.9 7.34
#50	JAPAN-P02-02		LANG OP	7.35

8. SQL/MM Part 3 Spatial Final FCD revised (SYD-003)

Mark noted that page breaks on level 3 headings are non SC32 conforming but Cotton added that they are helpful in searching the doc, both paperwise and electronically

Motion (Germany/Japan) to adopt as revised FCD working document unanimously approved

8.1 Interim Disposition of Comments: SQL/MM Part 3: Spatial (SYD-007)

Noted.

8.2 Unresolved Comments: SQL/MM Part 3: Spatial (SYD-008)

Noted.

8.3 Spatial: ANSI/NCITS/H2-98-293r1 Circular Curves (SYD-018)

Before addressing this and other papers that restore MM Spatial functionality that existed prior to acceptance of harmonization changes but that include functionality beyond OGC simple features, it was agreed to decide if such functionality is appropriate for inclusion in the standard as optional functionality.

Motion (UK/Japan): For Part 3 Spatial there should be a core conformance which is aligned with OGC simple features and that any other features not part of this be considered as optional conformance. Australia, US, Japan, and UK voting for, Canada, Germany against, passes 4-2.

Need to add constructor and Start and End point methods as well

Page 5, 9.x.3 Purpose, change “implementation defined” to “approximate”.

Page 5, DS2) second to last sentence should be “The value returned is implementation defined.”

Will have to add things if Mark’s papers are accepted

Add two methods called ST_CircularString in order to align with other papers (pending); ST_ISValid.

Proposal accepted to optional part subject to interactions, (especially SYD-026) (US/Japan) Japan, Australia, UK, and US voting for, Canada against, Germany abstaining, passes 4-1-1.

Closes

USA-P03-081 (#105) partial
GBR-P03-001 (#193) partial
USA-P03-163 (#204) partial
EN 3-078 partial
EN 3-123 partial

8.4 Spatial: ANSI/NCITS/H2-98-294r1 Reference Curves (SYD-019)

Withdrawn for now until author has had a chance to review dependent SQL3 functionality.

8.5 Spatial: ANSI/NCITS/H2-98-308 Compound Curves (SYD-020)

Page 3 DS 2) and 3) change curve to “compound curve”
Page 3 DS 3) change first and last to start and end, respectively.
Page 4 9.x.2 Purpose, change “implementation defined” to “approximate”.
Page 4 DS2) second to last sentence should be “The value returned is implementation defined.”
Proposal accepted to optional part Japan, Australia, UK, and US voting for, Canada against, Germany abstaining, passes 4-1-1.
Closes
USA-P03-163 (#204) partial
EN 3-107 partial

8.6 Spatial: ANSI/NCITS/H2-98-311r1 Reference Polygons (SYD-021)

Withdrawn for now until author has had a chance to review dependent SQL3 functionality.

8.7 Spatial: ISO TC211 WG2 N84 Working Draft (SYD-015)

Papers 15 and 17 were covered by Mark’s presentation of the harmonization meeting:

SQL/MM CWB-051 was discussed. Major misconception existed regarding the MM Later Progression content; Mark clarified this for them as being future work
TC211 broader scope: including 3D, complexes and topology but missing MultiPoint
TC211 was happy with Simple Feature work of OGC.
Data providers a major force within TC211.
TC211 characterized their standard as an abstract (concepts) standard and MM and OGC as engineering standards. Their rules for application schemas tell how to form a standard from their packages.
TC211 had not contemplated mixed 2D and 3D points.
OGC agreed to align with TC211 and if MM aligns with OGC, OGC could adopt MM spec itself as the simple feature SQL3 version. This is advantageous as OGC is working on the conformance/testing aspects.

8.8 Spatial: Collation of Spatial Relations with DE-9IM (SYD-016)

Noted.

8.9 Spatial: Comparison of TC 211, OGC and SQL/MM (SYD-017)

(see 8.7)

8.10 Spatial: Addressing USA-P03-163 (#204): OGC Alignment: ST_Geometry (SYD-023)

Page 39 DS 8s) Add normative reference for ISO reference for floating point (to be supplied by Mike).

Is_Simple proposed as Boolean but this may not be consistent with OGC.

Page 25 7.1.3+15, DS 2) change to implementation-defined wording.

Page 35 6.1.3+26 DR 1) change method ST_AsText to appropriate function

Page 35 6.1.3+26 DR 1) change method ST_AsBinary to appropriate function

Review DBL SYD-049 for changes to transforms

Page 26 PSM body need to increment counter

Page 30 PSM code problem with return

Page 36-38 replace * with …

GC: solution needs asrid assigned

Scarponcini objected to the inconsistency in method naming and requested that cross, touch, and overlap be changed to crosses, touches and overlaps, respectively. This is in the proposal to align with OGC's inconsistencies. Paul Cotton suggested that an errata must be proposed to and accepted by OGC before it can be changed here.

Page 25 ST_Distance DS 2) definition should be changed to agree with original base document definition

Approved with amendments by unanimous consent.

Closes

- USA-P03-025 (#35) partial
- USA-P03-029 (#39) partial
- USA-P03-031 (#41) partial
- DEU-P03-008 (#47) partial
- JAPAN-P03-006 (#48) partial
- USA-P03-037 (#49) partial
- JAPAN-P03-007 (#60) partial
- USA-P03-047 (#61) partial
- USA-P03-049 (#63) partial
- USA-P03-050 (#64) partial
- USA-P03-051 (#65) partial
- USA-P03-052 (#66) partial
- JAPAN-P03-008 (#67) partial
- USA-P03-053 (#68) partial
- USA-P03-054 (#69) partial
- USA-P03-055 (#70) partial
- USA-P03-056 (#71) partial
- USA-P03-057 (#72) partial
- USA-P03-059 (#75) partial
- USA-P03-079 (#102)
- USA-P03-095 (#119)
- USA-P03-111 (#136)

USA-P03-122 (#149)
JAPAN-P03-014 (#160) partial
USA-P03-135 (#163)
CAN-P03-009 (#187) partial
GBR-P03-001 (#193) partial
USA-P03-163 (#204) partial
EN 3-099.
EN 3-100.
IN 3-015.

8.11 Spatial: Addressing USA-P03-163 (#204): OGC Alignment: ST_Point and Subtypes (SYD-024)

Approved by unanimous consent.
Closes
USA-P03-163 (#204) partial

8.12 Spatial: Addressing USA-P03-163 (#204): OGC Alignment: ST_Curve (SYD-025)

Page 8, 2.8, 4+4 delete leading word “Topologically”.
Approved with amendments by unanimous consent.
Closes
USA-P03-029 (#39) partial
USA-P03-076 (#99)
USA-P03-077 (#100) partial
USA-P03-078 (#101) partial
USA-P03-086 (#110) partial
USA-P03-110 (#135) partial
GBR-P03-001 (#193) partial
USA-P03-163 (#204) partial
EN 3-102.

8.13 Spatial: Addressing USA-P03-163 (#204): OGC Alignment: ST_LineString (SYD-026)

Page 5 2.1 strike “and defines…end point”
Approved with amendments by unanimous consent.
Closes
USA-P03-029 (#39) partial
USA-P03-029 (#39) partial
USA-P03-039 (#51) partial
GBR-P03-001 (#193) partial
USA-P03-163 (#204) partial
EN 3-123 partial

8.14 Spatial: Addressing USA-P03-163 (#204): OGC Alignment: ST_Surface (SYD-027)

Redundant rules that say subtypes will override a rule are eliminated (in 2.8, 2.9, 2.10, and 2.11).

Add implementation defined as an adjective in front of all methods that currently say that they differ from implementation to implementation.

Need to define what “simple” means.

Approved with amendments by unanimous consent.

Closes

USA-P03-029 (#39) partial
DEU-P03-008 (#47) partial
USA-P03-042 (#55) partial
USA-P03-163 (#204) partial

8.15 Spatial: Addressing USA-P03-163 (#204): OGC Alignment: ST_Polygon (SYD-028)

Page 8, 2.7, 4+9 not needed so stricken.

Paul Scarponcini objected to the elimination of ST_InsidePoint as it is:

1) useful for locating text
2) can be used in the automatic generation of polygon topology
3) can be used to hold polygon attributes.

Mark Ashworth stated that the current TC211 thinking is to use “ST_RepresentativePoint” at the ST_Geometry level instead

Page 8, 2.7, 4+3 Change touch and tangent as may touch at a finite number of points.

Approved with amendments by unanimous consent.

Closes

USA-P03-029 (#39) partial
USA-P03-125 (#152) partial
USA-P03-126 (#153)
USA-P03-127 (#154)
USA-P03-131 (#158)
USA-P03-163 (#204) partial

8.16 Spatial: Addressing USA-P03-163 (#204): OGC Alignment: ST_GeometryCollection and Subtypes (SYD-029)

2.1 change 1 to 0 in new text added
increment counter in PSM bodies
2.17 1a and 3a ST_Geometry to ST_Point
2.30 1a and 3a ST_Geometry to ST_LineString
2.46 1a and 3a ST_Geometry to ST_Polygon
no action on 2.52 (SYD-030r1 passed)

Approved with amendments by unanimous consent.

Closes

USA-P03-039 (#51) partial
GBR-P03-001 (#193) partial

USA-P03-163 (#204) partial
EN 3-117
EN 3-118

8.17 Spatial: Resolve USA-P03-165 (#206), Addressing Lists (SYD-030r1)

Approved with minor amendments with Japan abstaining

Closes

USA-P03-039 (#51) partial
USA-P03-041 (#54) partial
USA-P03-044 (#57) partial
JAPAN-P03-009 (#73) partial
USA-P03-058 (#74) partial
USA-P03-060 (#76) partial
USA-P03-071 (#91)
USA-P03-075 (#98)
USA-P03-081 (#105) partial
USA-P03-083 (#107)
USA-P03-085 (#109)
JAPAN-P03-012 (#121)
USA-P03-097 (#122)
JAPAN-P03-014 (#160) partial
USA-P03-137 (#165)
USA-P03-142 (#170)
USA-P03-147 (#175)
GBR-P03-001 (#193) partial
USA-P03-163 (#204) partial
USA-P03-165 (#206)
GBR-P03-007 (#210)
EN 3-094 partial
EN 3-104
EN 3-106
EN 3-107 partial; with SYD-030R1 (8.17) closed
EN 3-110
EN 3-111
EN 3-119

8.18 Spatial: Addressing USA-P03-163 (#204): OGC Alignment: ST_SpatialReferenceSystem (SYD-031)

2.2 and 2.3 DS 1) ST_Equals signature missing
* to …
2.4 DS 2) there should be explicit reference from foobar name to annex of suggested names and do this for all tables and say implementation-defined

Opportunity to redefine SQL Transform as methods; editor will investigate

Need for this paper resulted from unsatisfied expectation that TC211 would provide list of SRSs that we could use.

Approved with amendments by unanimous consent.

Closes

USA-P03-019 (#23) partial
USA-P03-028 (#38) partial
USA-P03-032 (#42) partial
CAN-P03-004 (#77)
USA-P03-061 (#78)
USA-P03-062 (#79)
DEU-P03-010 (#80)
DEU-P03-015 (#192)
GBR-P03-001 (#193) partial
JAPAN-P03-003 (#194)
USA-P03-163 (#204) partial
EN 3-092
EN 3-093
EN 3-113

8.19 Spatial: Addressing USA-P03-163 (#204): OGC Alignment: ST_Spatial (SYD-032r1)

Approved by unanimous consent.

Closes

USA-P03-026 (#36)
USA-P03-028 (#38) partial; with SYD-031 (8.18) closed
USA-P03-029 (#39) partial; with SYD-023 and 025-028 (8.10,12-15) closed
USA-P03-031 (#41) partial; with SYD-023 (8.10) closed
USA-P03-032 (#42) partial; with SYD-031 (8.18) closed
USA-P03-033 (#43)
USA-P03-035 (#45)
DEU-P03-008 (#47) partial; with SYD-023, 027 (8.10,14) closed
JAPAN-P03-006) (#48) partial; with SYD-023 (8.10) closed
USA-P03-037 (#49) partial; with SYD-023 (8.10) closed
USA-P03-039 (#51) partial; with SYD-026,029,030R1 (8.13,16,17) closed
DEU-P03-009 (#52)
USA-P03-041 (#54) partial; with SYD-030R1 (8.17) closed
USA-P03-042 (#55) partial; with SYD-027 (8.14) closed
USA-P03-044 (#57) partial; with SYD-030R1 (8.17) closed
USA-P03-045 (#58)
USA-P03-046 (#59)
JAPAN-P03-007 (#60) partial; with SYD-023 (8.10) closed
USA-P03-047 (#61) partial; with SYD-023 (8.10) closed
USA-P03-049 (#63) partial; with SYD-023 (8.10) closed
USA-P03-050 (#64) partial; with SYD-023 (8.10) closed
USA-P03-051 (#65) partial; with SYD-023 (8.10) closed
USA-P03-052 (#66) partial; with SYD-023 (8.10) closed
JAPAN-P03-008 (#67) partial; with SYD-023 (8.10) closed
USA-P03-053 (#68) partial; with SYD-023 (8.10) closed

USA-P03-054 (#69) partial; with SYD-023 (8.10) closed
USA-P03-055 (#70) partial; with SYD-023 (8.10) closed
USA-P03-056 (#71) partial; with SYD-023 (8.10) closed
USA-P03-057 (#72) partial; with SYD-023 (8.10) closed
JAPAN-P03-009 (#73) partial; with SYD-030R1 (8.17) closed
USA-P03-058 (#74) partial; with SYD-030R1 (8.17) closed
USA-P03-059 (#75) partial
USA-P03-060 (#76) partial; with SYD-030R1 (8.17) closed
JAPAN-P03-014 (#160) partial; with SYD-023,030R1 (8.10,17) closed
GBR-P03-001 (#193) partial
USA-P03-163 (#204) partial
EN 3-094 partial; with SYD-030R1 (8.17) closed

8.20 Spatial: Addressing USA-P03-163 (#204): OGC Alignment: Concepts and resolve ballot comments (#27 to #35) (SYD-033)

Withdraw 4.x+1 based on acceptance of SYD-032r1
Strike 4.x+2.1, 1)
Anything in clause 4 is normative and therefore required.
Strike 4.x+3.5.1, 4) thru 7) as result of syd030r1
Strike 4.x+3.6.1, 4) thru 7) as result of syd030r1
Strike 4.x+3.8.1, 6) thru 9) as result of syd030r1
4.x+3.9 change 1(one) to 0 (zero)
Strike 4.x+3.9.1, 5) thru 8) as result of syd030r1
4.x+3.14 change first ST_MultiSurface to ST_MultiPolygon
Strike 4.x+4.1.1, 1) thru 5) as result of syd030r1
Action item to determine if GEOMETRY COLUMNS Table or View mandatory in OGC – made into a PP
4.x+3 last paragraph strike “implemented”
Further consideration must be given to the information schema-like material
in 4.x.3.1.4.1 to determine its correct placement in the document and the normative nature of this material.
Approved with amendments by unanimous consent.
Closes
GBR-P03-005 (#27)
USA-P03-021 (#28)
USA-P03-022 (#29)
CAN-P03-003 (#30)
JAPAN-P03-005 (#32)
DEU-P03-007 (#33)
USA-P03-024 (#34)
USA-P03-025 (#35) partial; with SYD-023 (8.10) closed
GBR-P03-001 (#193) partial
USA-P03-163 (#204) partial
EN 3-004.
EN 3-120.

As a result of adopting SYD-033, Subclause 4.1 Relationships of Spatial Values in the base document can be deleted as redundant. (Japan/Canada).

Approved by unanimous consent.

Closes

USA-P03-023 (#31)

8.21 Spatial: Resolve USA-P03-069 (#89) (ST_IsValid) (SYD-034)

2.3 DEFN: change “RETURN NULL” to “See Description”

Approved with amendments by unanimous consent.

Closes

USA-P03-020 (#24) partial
USA-P03-069 (#89)
USA-P03-081 (#105) partial; with SYD-018,030R1 (8.3,17) closed
USA-P03-086 (#110) partial; with SYD-025 (8.12) closed
USA-P03-110 (#135) partial; with SYD-025 (8.12) closed
USA-P03-113 (#139)
USA-P03-132 (#159)
GBR-P03-001 (#193) partial
EN 3-101
EN 3-108

8.22 Spatial: Addressing USA-P03-163 (#204): OGC Alignment: Conformance (SYD-035r1)

Paper is changed to be USA contribution.

“Whether ST_Geometry values” to “Whether a geometry value”

Add clause about a conforming implementation also supporting the 4.x+2.1.2 SPATIAL_REF_SYS

Add a possible problem about whether or not should the other table/view in Concepts paper be mandatory

Replace conformance clause 2 with the following moved up under 1a):

2) If ST_3DPoint is supported, whether values of most specific type ST_Point are supported.

3) If values of most specific type ST_Point and values of most spec type of ST_3DPoint are supported, whether two or more such values which differ in most specific type can appear as separate components of some value in some more complex type.

Approved with amendments by unanimous consent.

Closes

USA-P03-150 (#178)
USA-P03-151 (#179)
GBR-P03-001 (#193) partial
USA-P03-163 (#204) partial
EN 3-098
EN 3-115

8.23 Spatial: Elliptical Arcs, EN 3-078, 3-123 (SYD-036)

Approved by unanimous consent.

Closes

GBR-P03-001 (#193) partial
USA-P03-163 (#204) partial
EN 3-078 partial; with SYD-018 (8.3) closed
EN 3-123 partial; with SYD-018,026 (8.3,13) closed

8.24 Spatial: Resolve comments relating to the Definitions subclause (#3 to #24) (SYD-037)

Editor to take action item to see if we can reference the TC211 definitions in this manner. If not, we should copy their definitions into the base document with footnote crediting them.

Hugh took an action item to create a definition for geometry.

3.1.3.14 change not equal to equal and strike intersection.

Approved with amendments by unanimous consent.

Closes

CAN-P03-001 (#3)
USA-P03-001 (#4)
USA-P03-002 (#5)
USA-P03-003 (#6)
USA-P03-004 (#7)
USA-P03-005 (#8)
USA-P03-006 (#9)
USA-P03-007 (#10)
USA-P03-008 (#11)
USA-P03-009 (#12)
USA-P03-010 (#13)
USA-P03-012 (#15)
USA-P03-013 (#16)
USA-P03-014 (#18)
USA-P03-015 (#19)
USA-P03-016 (#20)
USA-P03-017 (#21)
USA-P03-018 (#22)
USA-P03-019 (#23) partial; with SYD-031 (8.18) closed
USA-P03-020 (#24) partial; with SYD-034 (8.21) closed
USA-P03-059 (#75) partial; with SYD-023,032R1 (8.10,19) closed
USA-P03-077 (#100) partial; with SYD-025 (8.12) closed
USA-P03-078 (#101) partial; with SYD-025 (8.12) closed
USA-P03-080 (#104) partial; with SYD-026 (8.13) closed
USA-P03-125 (#152) partial; with SYD-028 (8.15) closed
GBR-P03-001 (#193) partial
USA-P03-163 (#204) partial
EN 3-124.

8.25 Spatial: Resolve DEU-P03-006 (#213) (Meta-variables) (SYD-038)

Editor directed to add sub-table to annex that has only one entry for each meta-variable. All other implementation defined items shall appear in a separate, bulleted list.

Approved with amendments by unanimous consent.

Closes

DEU-P03-006 (#213)

8.26 Spatial: Resolve GBR-P03-004 (#2), Normative Reference (SYD-039)

Approved by unanimous consent.

Closes

GBR-P03-004 (#2)

8.27 Spatial: Resolve JAPAN-P03-001 (#214) (diagram) (SYD-040)

Editor to add a legend explaining triangle.

Editor to add clause in the Concepts section pointing to the proposed annex which needs a table.

Approved with amendments by unanimous consent.

Closes

JAPAN-P03-001 (#214)

8.28 Spatial: Resolve JAPAN-P03-002 (#1) (SYD-041r2)

change spatial data type to user defined type globally

In e) strike “the”

Approved with amendments by unanimous consent.

Closes

JAPAN-P03-002 (#1)

8.29 Spatial: Resolve USA-P03-160 (#201) (notations) (SYD-042r2) pending: Private NG for FT

change first private to certain and drop second one

Approved with amendments by unanimous consent.

Closes

USA-P03-160 (#201)

8.30 Spatial: Close Possible Problem 3-085 (SQL codes) (SYD-043)

Approved by unanimous consent.

Closes

GBR-P03-001 (#193) partial

EN 3-085

8.31 Spatial: Close Possible Problem 3-114 (ST_Length, ST_Area) (SYD-044)

Approved by unanimous consent.

Closes

GBR-P03-001 (#193) partial

EN 3-114

8.32 Spatial: Results of the Harmonization Meeting of ISO/TC 211, OGC, and ISO/IEC JTC 1/SC 32/WG 4 SQL/MM (SYD-045)

Presented by Mark.

Ken Bullock characterized TC211 as defining the “conceptual” (middle) layer. MM is defining one “internal” level for persistent storage. Others will develop “external” or application level. This is exactly as Tanaka-san characterized the standards in Curitiba.

8.33 Spatial: Curve Polygons (SYD-046r1)

USA contribution

Japan, UK, USA voting for, Canada against, Germany abstaining, passes 3-1-1.

Closes

DEU-P03-001 (#189) partial

USA-P03-163 (#204) partial

8.34 Spatial: 3D (SYD-047)

US withdraws to enable further consideration in the US.

8.35 Spatial: Instantiating MultiCurve and MultiSurface (SYD-048r1)

US withdraws to enable further consideration in the US.

8.36 Liaison Request from OGC (SYD-050)

Results of actions taken at WG4 plenary.

8.37 USA-P03-150 (#178)

Resolved by proposal SYD-035.

8.38 USA-P03-151 (#179)

Resolved by proposal SYD-035.

8.39 Possible problem 3-098

Resolved by proposal SYD-035.

8.40 Possible problem 3-115

Resolved by proposal SYD-035.

8.41 JAPAN-P03-002 (#1)

Resolved by proposal SYD-041.

8.42 USA-P03-160 (#201)
Resolved by proposal SYD-042.

8.43 USA-P03-103 (#128)
Resolved by SYD-020.

8.44 USA-P03-104 (#129)
Resolved by SYD-020 (USA) and SYD-037.

8.45 USA-P03-105 (#130)
Resolved by SYD-020 (USA).

8.46 Possible problem 3-103
Language opportunity for later progression.

8.47 USA-P03-158 (#199)
Resolved by SYD-033 and 031. PP added to conformance paper on Table inclusion.

8.48 USA-P03-027 (#37)
Open.

8.49 USA-P03-121 (#147)
Observation by editor: 3D related, see related comment listed in JAPAN-P03-004 (#37).
Open

8.50 USA-P03-124 (#151)
Observation by editor: 3D related, see related comment listed in JAPAN-P03-004 (#37).
Open

8.51 Possible problem 3-116
Observation by editor: 3D related, see related comment listed in JAPAN-P03-004 (#37).
Open

8.52 JAPAN-P03-010 (#195)
Observation by editor: 3D related, see related comment listed in JAPAN-P03-004 (#37).
Open

8.53 USA-P03-157 (#198)
Observation by editor: REFS, related to PP 3-105.
LANG OP, i.e., need a paper before next meeting else it gets closed

8.54 Possible problem 3-105
Same as comment #198 so closed here as redundant.

8.55 CAN-P03-002 (#183)
Observation by editor: Related to OGC and TC 211 alignment.
Open.

8.56 CAN-P03-005 (#184)
Observation by editor: Related to OGC and TC 211 alignment.
Open.

8.57 CAN-P03-007 (#185)
Observation by editor: Related to OGC and TC 211 alignment.
Open.

8.58 CAN-P03-008 (#186)
Observation by editor: Related to OGC and TC 211 alignment.
Open.

8.59 DEU-P03-002 (#190)
Observation by editor: Related to OGC and TC 211 alignment.
Redundant with #183-186 so closed.

8.60 JAPAN-P03-004 (#17)
Closed by SYD-023

8.61 CAN-P03-006 (#103)
Observation by editor: (none)
Open.

8.62 USA-P03-106 (#131)
LANG OP

8.63 JAPAN-P03-011 (#92)
Closed by 023 and 029

8.64 Possible problem 3-121
Under review in OGC. If not resolved by them then option to make it implementation-defined. Take to OGC.

8.65 Possible problem 3-122
Observation by editor: 18-Character limits in SQL3 Core. Take to OGC.

8.66 GBR-P03-008 (#97)
Closed SC32 N130 (Framework doc) and SYD-035.

8.67 CAN-P03-009 (#187)
Open.

8.68 USA-P03-155 (#196)
Redundant with #187 so close.

8.69 DEU-P03-001 (#189)
Open.

8.70 GBR-P03-001 (#193)
Redundant with #189 so closed.

8.71 USA-P03-161 (#202)
Open.

8.72 USA-P03-163 (#204)
Open.

8.73 GBR-P03-002 (#208)
LANG OP.

8.74 USA-P03-156 (#197)
LANG OP.

8.75 USA-P03-159 (#200)
LANG OP.

8.76 Ballot Comment Summary

Seq	Comment	SYD Paper Number[1]	Disposition	Reference
1	JAPAN-P03-002	41R2	Resolved	8.28, 8.41
2	GBR-P03-004	39	Resolved	8.26
3	CAN-P03-001	37	Resolved	8.24
4	USA-P03-001	37	Resolved	8.24
5	USA-P03-002	37	Resolved	8.24
6	USA-P03-003	37	Resolved	8.24
7	USA-P03-004	37	Resolved	8.24
8	USA-P03-005	37	Resolved	8.24
9	USA-P03-006	37	Resolved	8.24
10	USA-P03-007	37	Resolved	8.24
11	USA-P03-008	37	Resolved	8.24
12	USA-P03-009	37	Resolved	8.24

[1] Unless otherwise specified, e.g., CWB

Seq	Comment	SYD Paper Number[1]	Disposition	Reference
13	USA-P03-010	37	Resolved	8.24
15	USA-P03-012	37	Resolved	8.24
16	USA-P03-013	37	Resolved	8.24
17	JAPAN-P03-004	23	Resolved	8.60
18	USA-P03-014	37	Resolved	8.24
19	USA-P03-015	37	Resolved	8.24
20	USA-P03-016	37	Resolved	8.24
21	USA-P03-017	37	Resolved	8.24
22	USA-P03-018	37	Resolved	8.24
23	USA-P03-019	31 37	Partial Resolved	8.18 8.24
24	USA-P03-020	34 37	Partial Resolved	8.21 8.24
27	GBR-P03-005	33	Resolved	8.20
28	USA-P03-021	33	Resolved	8.20
29	USA-P03-022	33	Resolved	8.20
30	CAN-P03-003	33	Resolved	8.20
31	USA-P03-023	FRA-002	Resolved	8.20
32	JAPAN-P03-005	33	Resolved	8.20
33	DEU-P03-007	33	Resolved	8.20
34	USA-P03-024	33	Resolved	8.20
35	USA-P03-025	23 33	Partial Resolved	8.10 8.20
36	USA-P03-026	32R1	Resolved	8.19
37	USA-P03-027		Open	8.48
38	USA-P03-028	31 32R1	Partial Resolved	8.18 8.19
39	USA-P03-029	23 25 26 27 28 32R1	Partial Partial Partial Partial Partial Resolved	8.10 8.12 8.13 8.14 8.15 8.19
41	USA-P03-031	23 32R1	Partial Resolved	8.10 8.19
42	USA-P03-032	31 32R1	Partial Resolved	8.18 8.19
43	USA-P03-033	32R1	Resolved	8.19
45	USA-P03-035	32R1	Resolved	8.19
47	DEU-P03-008	23 27 32R1	Partial Partial Resolved	8.10 8.14 8.19
48	JAPAN-P03-006	23 32R1	Partial Resolved	8.10 8.19

Seq	Comment	SYD Paper Number[1]	Disposition	Reference
49	USA-P03-037	23 32R1	Partial Resolved	8.10 8.19
51	USA-P03-039	26 29 30R1 32R1	Partial Partial Partial Resolved	8.13 8.16 8.17 8.19
52	DEU-P03-009	32R1	Resolved	8.19
54	USA-P03-041	30R1 32R1	Partial Resolved	8.17 8.19
55	USA-P03-042	27 32R1	Partial Resolved	8.14 8.19
57	USA-P03-044	30R1 32R1	Partial Resolved	8.17 8.19
58	USA-P03-045	32R1	Resolved	8.19
59	USA-P03-046	32R1	Resolved	8.19
60	JAPAN-P03-007	23 32R1	Partial Resolved	8.10 8.19
61	USA-P03-047	23 32R1	Partial Resolved	8.10 8.19
63	USA-P03-049	23 32R1	Partial Resolved	8.10 8.19
64	USA-P03-050	23 32R1	Partial Resolved	8.10 8.19
65	USA-P03-051	23 32R1	Partial Resolved	8.10 8.19
66	USA-P03-052	23 32R1	Partial Resolved	8.10 8.19
67	JAPAN-P03-008	23 32R1	Partial Resolved	8.10 8.19
68	USA-P03-053	23 32R1	Partial Resolved	8.10 8.19
69	USA-P03-054	23 32R1	Partial Resolved	8.10 8.19
70	USA-P03-055	23 32R1	Partial Resolved	8.10 8.19
71	USA-P03-056	23 32R1	Partial Resolved	8.10 8.19
72	USA-P03-057	23 32R1	Partial Resolved	8.10 8.19
73	JAPAN-P03-009	30R1 32R1	Partial Resolved	8.17 8.19
74	USA-P03-058	30R1 32R1	Partial Resolved	8.17 8.19
75	USA-P03-059	23 32R1	Partial Partial	8.10 8.19

Seq	Comment	SYD Paper Number[1]	Disposition	Reference
		37	Resolved	8.24
76	USA-P03-060	30R1 32R1	Partial Resolved	8.17 8.19
77	CAN-P03-004	31	Resolved	8.18
78	USA-P03-061	31	Resolved	8.18
79	USA-P03-062	31	Resolved	8.18
80	DEU-P03-010	31	Resolved	8.18
89	USA-P03-069	34	Resolved	8.21
91	USA-P03-071	30R1	Resolved	8.17
92	JAPAN-P03-011	CWB-048 23 29	Partial Partial Resolved	 8.63 8.63
97	GBR-P03-008	SC32 N130 35	Partial Resolved	8.66 8.66
98	USA-P03-075	30R1	Resolved	8.17
99	USA-P03-076	25	Resolved	8.12
100	USA-P03-077	25 37	Partial Resolved	8.12 8.24
101	USA-P03-078	25 37	Partial Resolved	8.12 8.24
102	USA-P03-079	23	Resolved	8.10
103	CAN-P03-006		Open	8.61
104	USA-P03-080	26 37	Partial Resolved	8.13 8.24
105	USA-P03-081	18 30R1 34	Partial Partial Resolved	8.3 8.17 8.21
107	USA-P03-083	30R1	Resolved	8.17
109	USA-P03-085	30R1	Resolved	8.17
110	USA-P03-086	25 34	Partial Resolved	8.12 8.21
119	USA-P03-095	23	Resolved	8.10
121	JAPAN-P03-012	30R1	Resolved	8.17
122	USA-P03-097	30R1	Resolved	8.17
128	USA-P03-103	20	Resolved	8.43
129	USA-P03-104	20 37	Partial Resolved	8.44 8.44
130	USA-P03-105	20	Resolved	8.45
131	USA-P03-106		LANG OP	8.62
135	USA-P03-110	25 34	Partial Resolved	8.12 8.21
136	USA-P03-111	23	Resolved	8.10
139	USA-P03-113	34	Resolved	8.21
147	USA-P03-121		Open	8.49

Seq	Comment	SYD Paper Number[1]	Disposition	Reference
149	USA-P03-122	23	Resolved	8.10
151	USA-P03-124		Open	8.50
152	USA-P03-125	28 37	Partial Resolved	8.15 8.24
153	USA-P03-126	28	Resolved	8.15
154	USA-P03-127	28	Resolved	8.15
158	USA-P03-131	28	Resolved	8.15
159	USA-P03-132	34	Resolved	8.21
160	JAPAN-P03-014	23 30R1 32R1	Partial Partial Resolved	8.10 8.17 8.19
163	USA-P03-135	23	Resolved	8.10
165	USA-P03-137	30R1	Resolved	8.17
170	USA-P03-142	30R1	Resolved	8.17
175	USA-P03-147	30R1	Resolved	8.17
178	USA-P03-150	35R1	Resolved	8.22, 8.37
179	USA-P03-151	35R1	Resolved	8.22, 8.38
183	CAN-P03-002		Open	8.55
184	CAN-P03-005		Open	8.56
185	CAN-P03-007		Open	8.57
186	CAN-P03-008		Open	8.58
187	CAN-P03-009	23	Partial Open	8.10 8.67
189	DEU-P03-001	46R1	Partial Open	8.33 8.69
190	DEU-P03-002	FRA-002	Resolved	8.59
192	DEU-P03-015	31	Resolved	8.18
193	GBR-P03-001	18 23 25 26 29 30R1 31 32R1 33 34 35R1 36 37 43 44 FRA-002	Partial Partial Partial Partial Partial Partial Partial Partial Partial Partial Partial Partial Partial Partial Partial Resolved	8.3 8.10 8.12 8.13 8.16 8.17 8.18 8.19 8.20 8.21 8.22 8.23 8.24 8.30 8.31 8.70

Seq	Comment	SYD Paper Number[1]	Disposition	Reference
194	JAPAN-P03-003	31	Resolved	8.18
195	JAPAN-P03-010		Open	8.52
196	USA-P03-155	FRA-002	Resolved	8.68
197	USA-P03-156		LANG OP	8.74
198	USA-P03-157		LANG OP	8.53
199	USA-P03-158	31 33	Partial Resolved	 8.47
200	USA-P03-159		LANG OP	8.75
201	USA-P03-160	42R2	Resolved	8.29, 8.42
202	USA-P03-161		Open	8.71
204	USA-P03-163	CWB-046R2 CWB-047R1 CWB-048 CWB-052R2 18 20 23 24 25 26 27 28 29 30R1 31 32R1 33 35R1 36 37 46R1	Partial Partial Partial Partial Partial Partial Partial Partial Partial Partial Partial Partial Partial Partial Partial Partial Partial Partial Partial Partial Partial Open	 8.3 8.5 8.10 8.11 8.12 8.13 8.14 8.15 8.16 8.17 8.18 8.19 8.20 8.22 8.23 8.24 8.33 8.72
206	USA-P03-165	30R1	Resolved	8.17
208	GBR-P03-002		LANG OP	8.73
210	GBR-P03-007	30R1	Resolved	8.17
213	DEU-P03-006	38	Resolved	8.25
214	JAPAN-P03-001	40	Resolved	8.27
EN	3-004	33	Resolved	8.20
EN	3-078	18 36	Partial Resolved	8.3 8.23

Seq	Comment	SYD Paper Number[1]	Disposition	Reference
EN	3-085	43	Resolved	8.30
EN	3-092	31	Resolved	8.18
EN	3-093	31	Resolved	8.18
EN	3-094	30R1 32R1	Partial Resolved	8.17 8.19
EN	3-098	35R1	Resolved	8.22, 8.39
EN	3-099	23	Resolved	8.10
EN	3-100	23	Resolved	8.10
EN	3-101	34	Resolved	8.21
EN	3-102	25	Resolved	8.12
EN	3-103		LANG OP	8.46
EN	3-104	30R1	Resolved	8.17
EN	3-105	FRA-002	Resolved	8.54
EN	3-106	30R1	Resolved	8.17
EN	3-107	20 30R1	Partial Resolved	8.5 8.17
EN	3-108	34	Resolved	8.21
EN	3-110	30R1	Resolved	8.17
EN	3-111	30R1	Resolved	8.17
EN	3-113	31	Resolved	8.18
EN	3-114	44	Resolved	8.31
EN	3-115	35R1	Resolved	8.22, 8.40
EN	3-116		Open	8.51
EN	3-117	29	Resolved	8.16
EN	3-118	29	Resolved	8.16
EN	3-119	30R1	Resolved	8.17
EN	3-120	33	Resolved	8.20
EN	3-121		Open	8.64
EN	3-122		Open	8.65
EN	3-123	18 26 36	Partial Partial Resolved	8.3 8.13 8.23
EN	3-124	37	Resolved	8.24
IN	3-015	23	Resolved	8.10

9. SQL/MM Part 5 Still-Image CD revised (SYD-004)

Adopt as new working document (Australia/US).
Approved by unanimous consent.

9.1 Interim Disposition of Comments: SQL/MM Part 5: Still-Image (SYD-009)

Noted.

9.2 Unresolved Comments: SQL/MM Part 5: Still-Image (SYD-010)

Noted.

9.3 Addressing Germany DEU-P05-03/04 Retrieval of Image Features (SYD-022r1)

u.3.3: change “frequencies” to “percentages”
Paul Cotton noted that use of arrays without a parallel well know type character or binary representation will negate ability to use external routines instead of SQL PSM code.
Numerous minor editorial changes enumerated by Paul Cotton.
Passed with UK abstaining
Closes
DEU-P05-003 (#22)
DEU-P05-004 (#23)
USA-P05-003 (#31)

9.4 Addressing CAN-P05-016 (SYD-051)

Discussion ensued regarding the issue of whether or not subtyping is needed. UK felt that a difference in the meaning of an attribute (e.g., height) is justification for using subtyping. Japan suggested that subtyping is a safer approach when translating between different formats. Paul Cotton suggested that his company has successfully defined some 25 formats using the same set of attributes.
Passes 4-1: Japan, US, Germany, Canada voting for, UK against
Closes
CAN-P05-016 (#16)
DEU-P05-001 (#21)
JAPAN-P05-01 (#25)
JAPAN-P05-03 (#27)
JAPAN-P05-04 (#28)

9.5 CAN-P05-004 (#4)

Open

9.6 CAN-P05-007 (#7)

Resolved by SYD-022r1

9.7 CAN-P05-008 (#8)
Open.

9.8 CAN-P05-009 (#9)
LANG OP

9.9 CAN-P05-014 (#14)
Open.

9.10 CAN-P05-015 (#15)
Open.

9.11 CAN-P05-016 (#16)
Resolved by SYD-051

9.12 CAN-P05-020 (#20)
Subsumed by USA-P05-009 (#37). Closed.

9.13 DEU-P05-001 (#21)
Resolved by SYD-051.

9.14 DEU-P05-002 (#22)
Open

9.15 DEU-P05-003 (#23)
Resolved by SYD-022r1

9.16 DEU-P05-004 (#24)
Resolved by SYD-022r1

9.17 JAPAN-P05-001 (#25)
Resolved by SYD-051

9.18 JAPAN-P05-003 (#27)
Resolved by SYD-051

9.19 JAPAN-P05-004 (#28)
Resolved by SYD-051

9.20 USA-P05-001 (#29)
Resolved by SYD-051

9.21 USA-P05-002 (#30)
Open.

9.22 USA-P05-003 (#31)

Resolved by SYD-022r1

9.23 USA-P05-005 (#33)

Open.

9.24 USA-P05-006 (#34)

Open.

9.25 USA-P05-007 (#35)

Open

9.26 USA-P05-008 (#36)

Open.

9.27 USA-P05-009 (#37)

Open.

9.28 Ballot Comment Summary

Seq	Comment	Paper	Disposition	Reference
#04	CAN-P05-004		Open	9.5
#07	CAN-P05-007	SYD-022r1	Resolved	9.6
#08	CAN-P05-008		Open	9.7
#09	CAN-P05-009		LANG OP	9.8
#14	CAN-P05-014		Open	9.9
#15	CAN-P05-015		Open	9.10
#16	CAN-P05-016	SYD-051	Resolved	9.4
#20	CAN-P05-020	FRA-002	Resolved	9.12
#21	DEU-P05-001	SYD-051	Resolved	9.4
#22	DEU-P05-002[2]	SYD-022r1	Resolved Open	9.3 9.14
#23	DEU-P05-003	SYD-022r1	Resolved	9.3, 9.14
#24	DEU-P05-004[2]	 SYD-022r1	Open Resolved	9.3 9.14
#25	JAPAN-P05-001	SYD-051	Resolved	9.4
#27	JAPAN-P05-003	SYD-051	Resolved	9.4
#28	JAPAN-P05-004	SYD-051	Resolved	9.4
#29	USA-P05-001	SYD-051	Resolved	9.20
#30	USA-P05-002		Open	9.21
#31	USA-P05-003	SYD-022r1	Resolved	9.3
#33	USA-P05-005		Open	9.23
#34	USA-P05-006		Open	9.24

[2] Discrepancy in sections 9.3 and 9.14 of the minutes as to whether comment is open or resolved.

Seq	Comment	Paper	Disposition	Reference
#35	USA-P05-007		Open	9.25
#36	USA-P05-008		Open	9.26
#37	USA-P05-009		Open	9.27

9.29 Handling unresolved comments

Motion (Canada/US) to convert the ten open ballot comments (#4, 8, 9, 14, 15, 22, 30, 33, 34, and 35) into Still Image possible problems and thus mark these ballot comments as resolved. In addition, mark the two general comments #36 And #37 as resolved by the actions of this meeting.

Canada, Germany, Australia, Japan, USA voting for, UK abstaining, passes 5-0-1

10. SQL3 Issues

10.1 SQL3 Impacts on SLQ/MM (SYD-049r1)

Three major SQL3 changes which will affect MM:

1) New NEW operator DBL BBN-095: If there is a method (not function) with the same name as a type (regardless of its signature), it must be invoked using the "NEW" operator. Spatial uses methods and has already made this change with papers at this meeting. FullText and Still Image use functions so this does not apply. Editors propose to change Full Text and Still Image to conform to Spatial.

2) Transforms DBL BBN-199: FromSQL transform functions, since they operate on UDTs, can now be declared as a method. This would enable inheritance with dynamic binding and would enable additional types to be added, either as part of the standard or by an implementation, without breaking the existing transforms. However, since ToSQL transforms are not on the UDT this must be a function. Editor will convert FromSQL to methods.

3) Array concatenation DBL BBN-143R1: Can now use infix "||" concatenation operator on arrays. Editors to change base docs to use this.

Other changes of possible interest:

1) MM package DBL BBN-086: perhaps this should be in the MM framework document instead of in SQL3 (and then extendable within a particular MM Part) Cotton will take action on this.

2) Multiple inheritance DBL BBN-096: no more multiple inheritance in the interest of aligning SQL object model with Java

3) Query over arrays DBL BBN-108: reference an array in a from clause

4) Schema evolution for types DBL BBN-147 and -172r2: allow drop/add for attributes and routines

5) Returning arrays DBL BBN-213: Now supports return of an array with an external array. If implementation is an external routine (vs. PSM) and wants to pass in an array as an input parameter, cannot use an array as input so must either use an array constructor or, more straightforwardly, can use a transform. OGC has Build*SomeGeometryType*FromText functions. Having methods with arrays as input parameters can constrain/encourage implementation to be SQL routines. In the case of Spatial, an alternative might be to include the OGC build routines.

Motion (Canada/Germany): Instruct editors to implement changes required to the FullText, Spatial, and Still Image documents as a result of WG3 adoption of DBL BBN-095, -199, and -143r1. No other changes will be made by the editors for any of the items described in this SQL/MM SYD-049r1 paper. Approved by unanimous consent.

11. National Body Closing Comments

Australia – Significant progress has been made at this meeting with agreement that part 5: Still Image move to FCD and with the resolution of a large portion of the Spatial and Free Text ballot comments. For industry acceptance of the SQL/MM part 2: Spatial, it is important that this standard is aligned with OGC and TC211. Australia hopes that the SQL/MM Part 2:Spatial editing committee will continue work to ensure this alignment continues in the final editing meeting in November 1998 (and that the harmonization principles agreed in the joint SQL/MM, OGC, TC211 meeting in June 1998 are realized). With the progress made at this meeting the editing committee is well positioned to complete its work and produce FDIS documents for both Spatial and Free Text following the November 1998 meetings. Australia is happy with the progress made.

Australia would like to thank Paul Cotton for his leadership and recognize his commitment to progress in these standards and hard work at this meeting. Australia would also like to recognize the diligence and commitment of the participants in the SQL/MM editing

meetings and the hard work of its closely associated group SC32 WG3 - the SQL3 group.

Australia would like to thank Gerard Joseph and IBM Australia for their generosity in the provision of excellent facilities for this meeting at Darling Park in Sydney, Australia

Canada – Impressed with progress made on Part 2 and 3. Believes combination of a new international standard for SQL3 along with MM Parts 2 and 3 will be a significant contribution by JTC1 to IT standards. Also pleased we were able to add significant new functionality to Still Image and looks forward to solving several of the outstanding issues brought forward by other National Bodies during the FCD ballot. Believes it is extremely important that we obtain feedback from our spatial harmonization partners OGC and TC211 on our revised Spatial text. we will provide input into that process to ensure that we obtain timely feedback for the second continuation spatial editing meeting. Also like to extend its gratitude to Australia for the hosting of this editing meeting and the SC32 and WG3 meetings during the last month.

Germany – Germany is pleased with the progress achieved in the meetings; GY would explicitly like to mention the unexpected high number of Spatial comments closed.

Germany would have preferred to have another editing round for Still Image before issuing another Ballot but understands the time restrictions the interested parties are working under.

I expect my committee to pay special attention to questions related to alignment to OGIS and TC211, noting once more its relief due to the outcome of the Harmonization Meeting.

Special thanks to Australia for providing the infrastructure for these and related meetings.

Japan - Japan is pleased to see substantial progress made in this editing meeting. Especially, Japan thinks this committee did its best to conform our Part 3: Spatial to the major market voices in a viable manner aligned with SQL3. We would like to see repercussions from the industry by November. Other than Part 3, we are also pleased to learn that despite absence of our contributions, large progress was made.

Japan appreciates Australia for their nice hospitality.

UK – The United Kingdom greatly appreciates the efforts of Paul Cotton in chairing the SQL/MM FCD continuation editing meetings and CD editing meeting and exerting excellent control in bringing them to agreeable conclusions in timely fashion. In thanking Standards Australia for hosting the meetings and providing excellent and trouble-free facilities, we would especially like to express our appreciation of the unending and tireless efforts of Don Bartley in looking after our every need. We are pleased with the progress made on Parts 2 and 3 in particular and we look forward to finalizing these parts for publication out of the forthcoming meeting in November, 1998.

US – USA is pleased with the progress made in resolving ballot comments on the two FCD ballots: SQL/MM Spatial, SQL/Full Text, and the successful completion of the CD ballot on SQL/MM Still Image. USA is also pleased with the support it received for its contributions for aligning SQL/MM Spatial and OGIS Simple Feature Specification.

USA wishes to thank the committee for accepting its proposals to preserve the functionality that goes beyond the OGIS Simple Feature specification, and its proposal on conformance for SQL/MM Spatial. Though we were not able to resolve all the FCD ballot comments on Spatial and Full Text, USA hopes to work with other National Bodies to close the remaining comments at the proposed second continuation editing meeting. Finally, USA wishes to thank Australia for the excellent meeting arrangements.

All – Thanks to IBM for the fine facilities.

12. Editing Meeting Recommendation to SC 32

12.1 SQL/MM Part 2 FullText

Motion (Germany/Canada) Hold a second and final Continuation Editing Meeting Nov 10-13, 1998, in Heidelberg, Germany to deal with unresolved ballot comments and to align this part with ISO FCD 9075-1,2,4, and 5. Australia, Canada, US, UK, Japan, Germany voting for, passes 6-0-0.

12.2 SQL/MM Part 3 Spatial

Motion (US/Japan) Hold a second and final Continuation Editing Meeting Nov 10-13, 1998, in Heidelberg, Germany to deal with unresolved ballot comments and to align this part with ISO FCD 9075-1,2,4, and 5. Australia, Canada, US, UK, Japan, Germany voting for, passes 6-0-0.

Motion (Canada,UK) Liaison to supply the document output from this meeting to TC211 Convenor of WG2 Ken Bullock and OGC Technical

Committee Chairman Kurt Buehler for their evaluation in order for them to provide us with feedback as early as possible for consideration at our November continuation meeting. Approved by unanimous consent.

12.3 SQL/MM Part 5 Still Image

Motion (Canada/US) to have an FCD ballot on the revised text output from this meeting. Australia, Canada, Germany, Japan, US voting for, UK abstaining, passes 5-0-1.

12.4 Preparation of Revised Text

The following documents will be input to the Continuation Editing Meeting to be held in Germany Nov 10-13, 1998:

FRA-001	Scarponcini	Minutes of the CWB FCD SQL/MM Editing Meeting.
FRA-002	Scarponcini	Minutes of the SYD FCD SQL/MM Editing 1st Continuation Meeting.
FRA-003	Cotton	SQL/MM Part 2: Full-Text FCD revised text for 2nd Continuation Editing Meeting.
FRA-004	Ashworth	SQL/MM Part 3: Spatial FCD revised text for 2nd Continuation Editing Meeting.
FRA-005	Cotton	Interim Disposition of Comments: SQL/MM Part 2: Full-Text
FRA-006	Cotton	Unresolved Comments: SQL/MM Part 2: Full-Text
FRA-007	Ashworth	Interim Disposition of Comments: SQL/MM Part 3: Spatial
FRA-008	Ashworth	Unresolved Comments: SQL/MM Part 3: Spatial

12.5 Disposition of Comments Reports

To be supplied by Paul Cotton.

12.6 Recommendations regarding progression

Motion (US/Japan) that Paul Cotton, Chairman of CD and FCD Editing Meetings, make a request of the SC32 secretariat to:
a) have a continued FCD meeting for Part 2 FullText and Part 3 Spatial in November, 1998
b) request a Final Committee Draft ballot on Part 5 Still Image.

13. Action Items

Editors to produce revised text for Parts 2, 3 and 5 by September 8, 1998.
Secretary to have these minutes (FRA-002) done by August 10, 1998.

FullText Editor authorized to make appropriate change to "This international standard" to something that focuses more on this part of the standard in an acceptable manner consistent with Spatial's similar handling (7.6).

Spatial Editor to review DBL SYD-049 for changes to transforms (8.10).
For ST_Surface, author needs to define what "simple" means (8.14).
Editor to create PP to determine if GEOMETRY COLUMNS Table or View is mandatory in OGC (8.20,22).

Editor to take action item to see if we can reference the TC211 definitions in this manner. If not, we should copy their definitions into the base document with footnote crediting them (8.24).
Hugh took an action item to create a definition for “geometry” (8.24).
Editor directed to add sub-table to annex that has only one entry for each meta-variable. All other implementation defined items shall appear in a separate, bulleted list (8.25).
Editor to add a legend to the diagram explaining the triangle notation (subtype) (8.27).
Editor to add clause in the Concepts section pointing to the proposed annex which also needs a table (8.27).
Take PP 3-121 to OGC (8.64).
Take PP 3-122 to OGC (8.66).

Editors instructed to implement changes required to the FullText, Spatial, and Still Image documents as a result of WG3 adoption of DBL BBN-095, -199, and -143r1 (10.1):

NEW operator: Editors to change Full Text and Still Image to conform to Spatial.
Transforms: Editor will convert FromSQL to methods.
Array concatenation operator ||: Editors to change base documents to use this.

Paul Cotton to take action on convincing DBL to move its proposed MM package to SQL/MM Part 1 Framework.
Paul Cotton to supply text for “Disposition of Comments Reports” for these minutes (12.5).
Consider impacts of SQL Transform on Still Image.

14. Adjourn

Motion to adjourn (Germany/Japan) at 12 noon on Friday, July 17, 1998. Approved by unanimous consent.

Minutes Part C:

BBN Document Log

Paper Number	Source	Title	Part A Ref.
SQL/MM:BBN-001	Scarponcini	Minutes of SQL/MM Rapporteur Group Meeting, London, July 1997	5.
SQL/MM:BBN-002		WG4 Recommendation to SC32 and review of project plan	16.
SQL/MM:BBN-003	Ashworth	SQL/MM Part 1: Framework	7.
SQL/MM:BBN-004	Cotton	SQL/MM Part 2: Full-Text WD	8.
SQL/MM:BBN-005	Ashworth	SQL/MM Part 3: Spatial WD	9.
SQL/MM:BBN-006	Ashworth	SQL/MM Part 4: General Purpose Facilities	10.
SQL/MM:BBN-007	Cotton	SQL/MM Part 5: Still-Image	11.
SQL/MM:BBN-008			
SQL/MM:BBN-009	Cotton	Editor's Errata, Parts 2,5	8.1, 11.1
SQL/MM:BBN-010	Ashworth	Editor's Errata, Parts 1,3,4	7.1, 9.1, 10.1
SQL/MM:BBN-011		SQL3 Issues and Recommendations	12.1
SQL/MM:BBN-012		SQL3 Impacts on SQL/MM	12.2
SQL/MM:BBN-013	Ashworth	SQL/MM Part 4: GPF: Final Disposition of Comments	10.2
SQL/MM:BBN-014			
SQL/MM:BBN-015	Ashworth	SQL/MM Part 1: Framework Revised Draft	7.2
SQL/MM:BBN-016	Cotton	SQL/MM Part 2: Full-Text: Final Disposition of 1st CD Comments	8.2
SQL/MM:BBN-017	Ashworth	SQL/MM Part 3: Spatial: Final Disposition of 1st CD Comments	9.3
SQL/MM:BBN-018		SC32 N00142	8.3
SQL/MM:BBN-019		Canadian expert response to BBN-018	8.4
SQL/MM:BBN-020r1		Draft Resolutions	16.1
SQL/MM:BBN-021		Request for Class C Liaison from Open GIS Consortium	15.1

Minutes Part D:

SYD Document Log

Paper Number	Source	Title	Part B Ref.
SQL/MM:SYD-001	Scarponcini	Minutes of CD SQL/MM Editing Meeting	5.
SQL/MM:SYD-002	Cotton	SQL/MM Part 2: Full-Text CD revised	7.
SQL/MM:SYD-003	Ashworth	SQL/MM Part 3: Spatial CD revised	8.
SQL/MM:SYD-004	Cotton	SQL/MM Part 5: Still-Image CD revised	9.
SQL/MM:SYD-005	Cotton	Interim Disposition of Comments: SQL/MM Part 2: Full-Text	7.1
SQL/MM:SYD-006	Cotton	Unresolved Comments: SQL/MM Part 2: Full-Text	7.2
SQL/MM:SYD-007	Ashworth	Interim Disposition of Comments: SQL/MM Part 3: Spatial	8.1
SQL/MM:SYD-008	Ashworth	Unresolved Comments: SQL/MM Part 3: Spatial	8.2
SQL/MM:SYD-009	Cotton	Interim Disposition of Comments: SQL/MM Part 5: Still Image	9.1
SQL/MM:SYD-010	Cotton	Unresolved Comments: SQL/MM Part 5: Still-Image	9.2
SQL/MM:SYD-011	Germany	Full-Text: Addressing DEU-P02-006 (SEQ# 46)	7.3
SQL/MM:SYD-012r1	Germany	Full-Text: Addressing DEU-P02-008 (Facility for retrieving supported features)	7.4
SQL/MM:SYD-013	Germany	Full-Text: Addressing DEU-P02-001 (SEQ# 41)	7.5
SQL/MM:SYD-014	Germany	Full-Text: Providing material for Clause 4, "Concepts"	7.6
SQL/MM:SYD-015	TC211	Spatial: ISO/TC 211 WG2 N-084, Working Draft of the combined Spatial SubSchema and Spatial Operators Base Documents	8.7
SQL/MM:SYD-016	Tanaka et al	Spatial: Collation of Spatial Relations with DE-9IM	8.8
SQL/MM:SYD-017	Ashworth	Spatial: Comparison of TC 211, OGC and SQL/MM	8.9
SQL/MM:SYD-018	US	Spatial: ANSI/NCITS/H2-98-293r1 Circular Curves	8.3
SQL/MM:SYD-019	US	Spatial: ANSI/NCITS/H2-98-294r1 Reference Curves	8.4
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