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REPLACES: --

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Minutes of FCD 9075-14 Continuation Editing Meeting

ISO/IEC JTC1/SC32/WG3 E3D_2005_07_Electronic

1 Introduction of Participants

Keith W. Hare, USA
Stephen Cannan (NLD)
Baba Piprani, Canada
Joern Bartels, Germany
Jan-Eike Michels, USA
Jim Melton, your humble editor (USA)
Krishna Kulkarni, USA
Michael Rys, Microsoft
Masashi Tsuchida, Japan
Phil Brown (GBR)

2 Distribution of Documents

As of 25 July 2005 10:00 AM (GMT -4), the following papers are available on the FTP server:

e3d000-agenda.doc
e3d000-agenda.pdf
e3d000r1-agenda-2005-07-23.pdf
e3d001-leap-seconds.pdf
e3d002-modularize-according-to.pdf
e3d003-bold-thoughts.pdf
e3d004p-5FDIS1SP1Updated-14-XML-2005-07-pointer.pdf
e3d005-follow-up-to-tx1039r5.pdf
e3d006-two-additional-feature-IDs.pdf
e3d007-fixing-formal-type-notation.pdf
e3d008-fixing-Routines_S-view.pdf
e3d009-fixing-Xml_schema_namespace-view.pdf
e3d010-fixing-element-construction.pdf
e3d011-Fixing-Table-15.pdf
e3d012-Sitescape7-Quick-Reference.pdf

3 Selection of Secretary and Resolution Recorder

Baba Piprani and Keith Hare will generate the minutes from the discussions recorded in this meeting forum.

Jim Melton to record the appropriate information in the next edition of the consolidated ballot comments.

4 Approval of Agenda

There were no changes to the agenda.

5 Administrative Matters

This Continuation Ballot Resolution Meeting for ISO/IEC FCD 9075-14 (SQL/XML) began on 25th July 2005 at 07:00 EDT (UTC-4) and finished on 5th August 2005 at 18:00 EDT (UTC-4) .

The meeting was conducted on Forum facilities provided cordially by Standards Council of Canada, with special thanks to Roz Waddel SCC Program Officer, Ziggy and Danny (Site Administrators)

The purpose of this meeting is to resolve the ballot comments on for FCD 9075-14 (SQL/XML) and to prepare revised text, a disposition of comments report, and a recommendation on publication.

5.1 Calling notice for FCD Editing Meeting (SC32 N01324)

5.2 SQL/XML Sneak Peek (E3D-004p)

5.3 Sitescape Quick Reference (E3D-012)

6 Resolution of “Catch-All” Ballot Comments

6.1 Seq#196 (DEU-P14-001)

Unlike those items that reference an E3D proposal, this item merely identifies a comment in the consolidated comments document. Is there an assertion that the identified comment was not considered during the TXL round of the Editing Meeting? Is there a proposal of what should be done as a result of consideration of this agenda item?

The description for this possible problem is:

All Possible Problems and Editor’s Notes must be satisfactorily resolved and all problems discovered during the course of the ballot resolution process must be satisfactorily resolved.

6.2 Seq#211 (USA-P14-152)

Unlike those items that reference an E3D proposal, this item merely identifies a comment in the consolidated comments document. Is there an assertion that the identified comment was not considered during the TXL round of the Editing Meeting? Is there a proposal of what should be done as a result of consideration of this agenda item?

The description for this possible problem is:

All Possible Problems and Editor’s Notes must be satisfactorily resolved and all problems discovered during the course of the ballot resolution process must be satisfactorily resolved.

6.3 Leap Seconds

Description of E3D-001 Fred Zemke 2005-07-25 18:16

The abstract states: This paper solves a problem regarding leap seconds, discovered by the editor during the editing of [SQL/XML FCD].

In more detail, the problem is that SQL permits leap seconds, whereas XML Schema does not. The proposed solution is to make the mappings between

SQL and XML implementation-defined regarding leap seconds.

National Body Positions Keith Hare 2005-07-28 12:16

The proposed solution is in E3D-001

NLD yes Stephen Cannan 2005-07-29 02:55

Note that the references in the paper raise the question of whether or not we should have a PP to fix the erroneous 62 second minute in Foundation.

Japan yes Takashi Kotera 2005-07-29 06:33

Germany yes Joern Bartels 2005-07-29 12:02

USA votes YES Krishna Kulkarni 2005-07-29 14:13

UK votes Yes with comment Phil Brown 2005-07-29 15:43

The UK accepts the principle of this proposal, but suggests that the detailed wording of some of the changes could be improved. We trust that the author will accept the proposed changes as friendly amendments,

In proposal section 3.1, item 1, first bullet, change the new text :

"then it is implementation-defined

what value of type `TIMESTAMP WITHOUT TIME ZONE` is identified with `XDNV`, or whether an exception condition is raised: data exception — datetime field overflow"

to

"then it is implementation-defined whether an implementation-defined value of type `TIMESTAMP WITHOUT TIME ZONE` is identified with `XDNV`, or whether an exception condition is raised: data exception — datetime field overflow."

Make a similar change to the new text in the second bullet, and also to both the instances of Case 1) introduced in proposal section 3.1, item 1.

ED3-001 as modified by the UK comment is accepted as partial resolution of comments DEU-P14-001 and USA-P14-152 Keith Hare 2005-08-05 17:06

6.4 Fixing Table 15 (E3D-011)

Abstract of E3D-011 Jan-Eike Michels 2005-07-27 11:45

Table 15, "Implied feature relationships of SQL/XML", contains some rows whose correctness is questionable. This paper proposes to fix Table 15 as appropriate.

National Body Positions on E3D-011 Keith Hare 2005-08-04 11:30

USA votes YES Krishna Kulkarni 2005-08-04 13:05

NLD no Stephen Cannan 2005-08-05 12:11

I'm quite happy with dropping the X201 -> X010 but share the UK's concerns regarding the others.

UK votes to reject Phil Brown 2005-08-05 16:49

There is not a positive concensus so this is not adopted. Keith Hare 2005-08-06 22:42

UK is unsure whether to support E3D011 Phil Brown 2005-08-05 08:22

Some elements of Jan-Eike's argument seem to be only from the perspectives of an implementor and users happy to be bound to that implementation. It seems possible that eliding some of the relationships between features may remove useful information and also constraints on implementors that are to the general advantage of the user community.

Where a Feature has options, some of which are recognised as sub-Features, which may themselves have sub-Features, then it is reasonable to expose the paths through the tree.

Rather than resolving inconsistencies by removing rows from Table 15, it may be better to add rows for the missing detailed implications.

In the past, we have tried to ensure that where omission of elements from a statement imply a default then it is always possible to specify the default explicitly. It seems possible that the changes proposed in E3D011 are contrary to this principle. The time is short, but I am willing to be convinced that my fears are ungrounded.

Responding to to UK's concerns Krishna Kulkarni 2005-08-05 14:43

E3D-011 deals with two kinds of issues regarding table 15: 1) Should the table include only the "immediate dependencies" or should it also include the dependencies that can be inferred from the transitive relationships? In the interests of keeping the table manageable as well as maintainable, it is clear that the table should only include immediate dependencies. This argues for deletion of X201-X010 dependency, since this dependency follows from the transitive path X201-X200-X010. As for X202, admittedly there is no immediate dependency on X010, but it does have immediate dependency on both X190 and X200. Consequently, X202 has an additional immediate dependency compared to X201, i.e., X201-X200 versus X202-X200 and X202-X190. E3D-011 questions this inconsistency and argues that the dependency between X202 and X190 be deleted to avoid this inconsistency. The alternative would have been to add additional immediate dependencies between X201 and one or all of features X192, X231, and X232, but the paper took the easier route of deleting the dependency between X202 and X190. But, until someone proposes the alternate solution, we would prefer the solution proposed by E3D-011 for X201 and X202.

The second issue tackled by E3D-011 is the question of whether X091 and X242 should require support for feature X190 or should it only require X010. Our position is since implementations can support X091 and X242 without supporting X190, Table 15 should not require it either. There is also the consistency issue. For example, X241 requires support for X010 only while X242 requires support for X190. Again, the alternative would have been to add dependencies between X241 and one or all of features X192, X231, and X232, but until someone proposes the alternate solution, we would prefer the solution proposed by E3D-011 for X091 and X242.

6.5 Modularize ACCORDING TO (E3D-002)

Questions and observations re: WG3:E3D-002 Jim Melton 2005-07-25 12:37

In proposal part 3.1 (changes to 6.1 <data type>), item 1 (Edit SR4): New text in SR4 includes "let RXS be the indicated registered XML Schema; let ENSURI be the indicated XML namespace, if any; and let GEDSC be the indicated global element declaration schema component, if any." The absence of ", if any" on the RXS part of the rule suggests that there is always an indicated registered XML Schema.

However, the slightly modified text in GR 1)d) -- formerly 1)b)iv) -- says "The registered XML Schema descriptor of the specified indicated registered XML Schema, if any.", which suggests that there might not be an indicated registered XML Schema. NOTE: The ", if any" in this rule was not added by, nor affected by, the present proposal.

The same observation applies to proposal parts 3.2, item 1, new SR 4.1; 3.3, item 2, modified SR 3; and 3.4, new <XML validate according to clause> Subclause, Function and various rules.

I *think* that this means that the cited GR 1)d) text above should not include the phrase ", if any".

If I am correct, then please confirm this and record it as an amendment to the paper. If I'm wrong, the an explanation is all that's required.

"if any" is not required in any of the questioned places Fred Zemke 2005-07-26 18:08

<jim>

In proposal part 3.1 (changes to 6.1 <data type>), item 1 (Edit SR4): New text in SR4 includes "let RXS be the indicated registered XML Schema; let ENSURI be the indicated XML namespace, if any; and let GEDSC be the indicated global element declaration schema component, if any." The absence of ", if any" on the RXS part of the rule suggests that there is always an indicated registered XML Schema.

However, the slightly modified text in GR 1)d) -- formerly 1)b)iv) -- says "The registered XML Schema descriptor of the specified indicated registered XML Schema, if any.", which suggests that there might not be an indicated registered XML Schema.

NOTE: The ", if any" in this rule was not added by, nor affected by, the present proposal.

</jim>

<fred>

The explanation is that SR 4) begins with the phrase "If <secondary XML type modifier> specifies XMLSCHEMA...". Under this assumption, there will always be an indicated registered XML Schema in SR 4).

GR 1)d), on the other hand, covers all cases, so it is possible to have an indicated registered XML Schema, and also possible not to have one. Hence, "if any".

</fred>

<jim>

The same observation applies to proposal parts 3.2, item 1, new SR 4.1; ...

</jim>

<fred>

This SR begins with "If <XML valid according to clause> is specified...", in which case there will always be an indicated registered XML Schema.

</fred>

<jim>

... 3.3, item 2, modified SR 3;

</jim>

<fred>

this begins with "If <XML valide according to clause> is specified..." so there is always an indicated registered XML Schema and no "if any" is required.

</fred>

<jim>

... and 3.4, new <XML validate according to clause> Subclause, Function and various rules.

</jim>

<fred>

This entire Subclause depends on the existence of an <XML valid according to clause>, which designates an indicated registered XML Schema, so no "if any" is required here.

</fred>

Summary: no problem.

Abstract of E3D-002 Fred Zemke 2005-07-25 18:17

We now have three Subclauses of SQL/XML that reference the ACCORDING TO clause, with mostly redundant Syntax and Access Rules. This paper proposes to consolidate these rules in a single Subclause.

National Body Positions Keith Hare 2005-07-28 12:22

The change is in E3D-002

Fred is working on a revised version - request deferring action Krishna Kulkarni 2005-07-28 19:15
Fred has discovered some editorial bugs in the paper, and plans to post a revised version fixing those bugs in a day or two. Hence, US requests deferring action on this paper till next week.

Positions on 6.5 Modularize ACCORDING TO (E3D-002) Deferred Keith Hare 2005-07-28 22:30
At the request of the US, with the promise of a forthcoming revision, we will defer this item until next week.

E3D-002r1 has been posted Fred Zemke 2005-07-29 20:02
The revision is purely editorial, based on a scan of SQL/XML to insure that all occurrences of certain renamed terms have been correctly renamed.

National Body Positions on E3D-002r1 Keith Hare 2005-08-04 11:28

USA votes YES Krishna Kulkarni 2005-08-04 13:05

NLD yes Stephen Cannan 2005-08-05 12:12

UK votes to accept Phil Brown 2005-08-05 16:45

Japan yes Masashi Tsuchida 2005-08-06 03:19

E3D-002r1 is accepted as partial resolution of comments DEU-P14-001 and USA-P14-152 Keith Hare 2005-08-06 22:45

6.6 Some Bold Thoughts (E3D-003)

Plea for help implementing WG3:E3D-003 Jim Melton 2005-07-25 12:45
I urgently request that Editing Meeting participants give me assistance in implementing the implied parts of this paper. The paper contains an explicit proposal to correct only one of perhaps dozens of errors in obeying the convention being proposed for Subclause 3.2, Notation.

The best way, by far, to give me this assistance is for you to use Acrobat's commenting facility (or the analog in some other PDF product), marking every location where you think that the "SQL-land vs XML-

land" convention has not been followed. The marks that I strongly prefer is to use the Highlighter tool, changing the color of every such mark to GREEN (the default is yellow), then exporting the comments into a .FDF file, and emailing that .FDF file to me. I can then import all such .FDF files at one time and start fixing the problems.

You DO NOT need to add any text to any of these green highlight comments. The existence of the green highlight will call my attention to the error and I will "do the right thing". However, if you highlight a particularly confusing situation, adding text to the comment would be helpful.

I volunteer, but I hope others will share the load Fred Zemke 2005-07-26 17:55

I volunteer, but I hope others will also respond to Jim's request.

Abstract of E3D-003 Fred Zemke 2005-07-25 18:19

Since we first began work on SQL/XML, our data model has evolved from a "constrained text" model to the Infoset model and more recently to the XQuery data model. The convention for the use of bold fonts (Subclause 3.2 "Notation") has not kept pace with these changes. This paper adapts Subclause 3.2 to handle the new data model. Additional work by experts will be required to fully implement the proposed convention.

Is this Editorial? Keith Hare 2005-07-28 12:27

I had listed this item for national body positions, but on re-reading it, it looks like the editor has accepted it as editorial, but is asking for assistance. Do we need national body positions on this?

I'd call for the vote Stephen Cannan 2005-07-29 02:44

This this is a non-trivial editing exercise (otherwise Jim wouldn't be asking for help) I think it would be good if the National Bodies gave explicit support for carrying out this exercise at this time.

National Body Positions on convention being proposed for Subclause 3.2, Notation? Keith Hare 2005-08-02 15:57

Is there national body support for adopting the typographical conventions proposed in convention being proposed for Subclause 3.2, Notation?

USA votes YES Krishna Kulkarni 2005-08-04 13:05

NLD yes Stephen Cannan 2005-08-05 12:16

UK yes Phil Brown 2005-08-05 16:44

Japan yes Masashi Tsuchida 2005-08-06 03:17

**E3D-003 is accepted as partial resolution of comments DEU-P14-001 and USA-P14-152 Keith Hare
2005-08-06 22:49**

6.7 Follow-up to [TXL-039r5] (E3D-005)

Abstract of E3D-005 Jan-Eike Michels 2005-07-25 20:02

After [TXL-039r5], if an <XML passing mechanism> is not specified, then in general it is implementation-defined whether BY VALUE or BY REF is implicit. However, there are two instances in <SQL-invoked routine>, where BY VALUE is hard coded. This proposal aligns <SQL-invoked routine> with [TXL-039r5].

National Body Positions Keith Hare 2005-07-28 12:28

The change is specified in E3D-005

NLD Yes Stephen Cannan 2005-07-29 02:57

Japan yes Takashi Kotera 2005-07-29 06:31

Germany yes Joern Bartels 2005-07-29 12:01

USA votes YES Krishna Kulkarni 2005-07-29 14:14

UK votes to accept Phil Brown 2005-07-29 16:04

E3D-005 is accepted as partial resolution of comments DEU-P14-001 and USA-P14-152 Keith Hare 2005-07-30 07:12

6.8 Two Additional Feature IDs (E3D-006)

Typo in WG3:E3D-006 Jim Melton 2005-07-25 12:51

In proposal part 3.1, Changes to Subclause 6.17, <XML query>, item 1, proposed CR 2) contains a typographical error (almost certainly a cut-and-paste artifact).

The last three words of proposed CR 2) should read "NULL ON EMPTY" to align with the name of the feature ID.

Please record this as an amendment to the proposal.

1L: Well spotted, Jim. I agree with your observation. Jan-Eike Michels 2005-07-25 13:50

Abstract of E3D-006 Jan-Eike Michels 2005-07-25 20:01

As a follow-up on [TXL-038] we propose separate Feature IDs for each of the alternatives of the <XML query empty handling option>.

National Body Positions Keith Hare 2005-07-28 12:31

The change is in E3D-006, with one amendment:

<Amendment>

In proposal part 3.1, Changes to Subclause 6.17, <XML query>, item 1, proposed CR 2):

The last three words of proposed CR 2) should read "NULL ON EMPTY" to align with the name of the feature ID.

</Amendment>

NLD Yes Stephen Cannan 2005-07-29 02:57

Japan yes Takashi Kotera 2005-07-29 06:30

Germany yes Joern Bartels 2005-07-29 12:01

USA votes YES Krishna Kulkarni 2005-07-29 14:15

UK votes to accept Phil Brown 2005-07-29 16:07

E3D-006 is accepted as partial resolution of comments DEU-P14-001 and USA-P14-152 Keith Hare 2005-07-30 07:13

6.9 Fixing Subclause 10.21 (E3D-007)

Brief presentation of E3D-007 Krishna Kulkarni 2005-07-25 19:30

This paper aligns Subclause 10.21 with the latest changes in XQuery specification. In addition, it re-proposes changes from TXL-039R5, which were applied incorrectly by the Editor but were not caught during the sneak-peek review

National Body Positions Keith Hare 2005-07-28 12:33

The change is contained in E3D-007

NLD yes Stephen Cannan 2005-07-29 02:58

Japan yes Takashi Kotera 2005-07-29 06:28

Germany yes Joern Bartels 2005-07-29 12:08

USA votes YES Krishna Kulkarni 2005-07-29 14:58

UK votes to accept with comments Phil Brown 2005-07-29 16:17

It may be an artefact that arose somewhere in a chain of cut and paste and rendering actions, but in the original text quoted in proposal section 2,2,1, there are two instances of

1 (one) = i = N

where from the context it seems that the equals symbol should be less than or equals.

Any comments on Phil's observation? Keith Hare 2005-07-30 07:17

Phil is right - I goofed Krishna Kulkarni 2005-08-01 13:03

Admittedly it was a cut-and-paste error, but my apologies for not noticing the bug. Thanks, Phil.

E3D-007, with the correction noted by Phil Brown, is accepted as partial resolution of comments DEU-P14-001 and USA-P14-152 Keith Hare 2005-08-01 13:33

6.10 Fixing ROUTINES_S view (E3D-008)

Brief presentation of E3D-008 Krishna Kulkarni 2005-07-25 19:38

This paper corrects a bug with ROUTINES_S view discovered during the sneak-peek review, fix for which proved to be bit more complex than the Editor was willing to accept.

Small typo on page 3 in Subclause 2.1.1 Joern Bartels 2005-07-29 17:30

On page 3 in Subclause 2.1.1 on the third last line is a small typo.
After XML_OPTION is a "," (comma) missing.

National Body Positions Keith Hare 2005-07-28 12:35

The change is contained in E3D-008

NLD yes Stephen Cannan 2005-07-29 02:58

Japan yes Takashi Kotera 2005-07-29 06:27

Germany yes Joern Bartels 2005-07-29 11:59

USA votes YES Krishna Kulkarni 2005-07-29 14:15

UK votes to accept Phil Brown 2005-07-29 16:20

E3D-008 is accepted as partial resolution of comments DEU-P14-001 and USA-P14-152 Keith Hare 2005-07-30 07:18

7 Recommendations

7.1 Preparation of Revised Texts (SD-005)

7.2 Disposition of Comments Report

7.3 Recommendation Regarding Progression

Still waiting to synchronize with XQuery Keith Hare 2005-08-06 23:08

This segment of the SQL/XML FCD editing meeting is adjourning, but the recommendation from Berlin that gives the editor the discretion to do the appropriate thing with respect to coordinating with the XQuery specification still stands.

7.4 Thanks to Standards Council of Canada and Baba Piprani

Keith Hare Posted on 2005-08-06 23:17

As WG3 convenor, I thank the Standards Council of Canada for the use of this electronic forum for the E3D SQL/XML FCD Continuation editing meeting.

I also thank Baba Piprani for his efforts in setting up the forum for this meeting.

Keith W. Hare
Convenor, WG3

7.5 Thanks, indeed!

Jim Melton Posted on 2005-08-08 17:22

I would like to add my thanks to Canada for graciously hosting this electronic meeting, and to Baba for his efforts in getting the specific facilities set up while he was preparing to go into hospital -- talk about dedication!

Thanks!

Jim (Your Humble Editor)

8 Action Items

1. Jim Melton will integrate the results of this meeting into the SQL/XML FCD consolidated ballot comments. Keith Hare Posted on 2005-08-06 23:10
2. Baba and Keith will generate minutes from the Web site discussions. Keith Hare 2005-08-06 23:11

9 Adjourn

This meeting is now adjourned. Thanks for your participation. Keith Hare 2005-08-06 23:18