

# Minutes of the Prague Meeting of ISO/IEC JTC 1/SC 34/WG4, 2009-03-24/26

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2009-04-07

## 1. Opening remarks

The meeting started at 09:10 on Tuesday. The convener, Murata-san, welcomed everyone to Prague for the second meeting of WG4.

## 2. Roll call of delegates

The following members were present:

Name	Affiliation	Employer/Sponsor
Makoto Murata	WG4 Convener	Consultant
Sam Oh	SC 34 Chair	Sungkyunkwan University
Toshiko Kimura	SC 34 Secretariat	Japan Standards - ITSCJ
Ken Holman	CA HoD	Crane Softwrights
Ning Li	CN HoD	Beijing Information Technology Institute
ChunYan Fang	CN	China Electronic Standardization Institute
Lin Cheng	CN	Beijing RedFlag Chinese 2000 Software Co. Ltd.
DongLin Wang	CN	Beijing Sursen International Information Technology Co. Ltd.
Yan Shi	CN	Beijing Sursen International Information Technology Co. Ltd.
Jirka Kosek	CZ HoD	Consultant
Jesper Lund Stocholm	DK HoD	Ciber
Rex Jaeschke	Ecma HoD, Project Editor	Microsoft

Name	Affiliation	Employer/Sponsor
Jean Paoli	Ecma (TC45 co-chair)	Microsoft
Doug Mahugh	Ecma	Microsoft
Shawn Villaron	Ecma	Microsoft
Florian Reuter	Ecma	Novell
Juha Vartiainen	FI HoD	Finnish Standards
Kimmo Bergius	FI	Microsoft
Mohamed Zergaoui	FR HoD	Innovimax
Mario Wendt	DE HoD	Microsoft
Klaus-Peter Eckert	DE	Fraunhofer Fokus
Francis Cave	GB HoD	Francis Cave Digital Publishing
Inigo Surguy	GB	67 Bricks Ltd.
Alex Brown	GB	Griffin Brown Digital Publishing Ltd.
Jaeho Lee	KR HoD	Seoul University
Dongsun Nam	KR	Haansoft
Shazhad Rana	NO HoD	Microsoft
Grantham Daniels	ZA HoD	South African Standards - SABS
Aslam Raffee	ZA	South African Department of Science and Technology
Maria Farelo	ZA	South African Department of Public Science
Dave Welsh	US HoD	Microsoft

### 3. Adoption of the agenda

Using the revised agenda from WG4 N 0023 as a starting point,

- The order of items 5. “Defect Reports” and 6. “Schedule for publishing CORs and Amendments” was reversed.
- A new agenda item, “Conformance Testing”, was inserted immediately following 8. “Extension proposals from member bodies and liaisons”.

With those changes, the agenda was adopted by unanimous consent.

### 4. Report from the WG4 Secretariat

The following NBs and liaisons have registered delegates to WG4: CZ, DE, DK, Ecma, FI, FR, GB, IN, IT, JP, KR, NL, NO and PL. All requests for additions, deletions and changes to the delegate list should be sent to the WG4 Secretariat ([rex@RexJaeschke.com](mailto:rex@RexJaeschke.com)).

For information about accessing the email list, and the document and email archive, please consult document WG4 N 0014 (2008).

Access to the documents on the Ecma site is restricted to registered members. For those documents that are to be made available to the public, Murata-san has provided copies of them at <http://www.itscj.ipsj.or.jp/sc34/wg4/>.

Since Okinawa, numerous DRs have been received from JP and GB. The latest version of the DR log was circulated last week as WG4 N 0034. The status of DRs at that time was as follows:

Status	Count
Open	101
Closed, to be incorporated in COR1	30
Closed without action	2
Further Consideration Required	36
<b>Total</b>	<b>169</b>

Rex displayed parts of the DR log, and explained how he uses tracked-change markup to indicate changes between revisions.

In Okinawa, there was a request to make an email archive publicly available. This resulted in an action item for all members ‘to check with their NB rules regarding members’ ability to participate on an “open” email list.’

The member bodies that had expressed concern about this reported via email or at this meeting that they no longer had concerns.

Concern was expressed that making an email archive available outside the committee should be discussed at the SC 34 Plenary.

**Action:** The Convener will raise this issue in full Plenary on Friday. Done.

## 5. Schedule for publishing CORs and Amendments

In Okinawa, Rex Jaeschke took an action item to propose a schedule for the generation and processing of COR1. (See WG4 N 0031, and supporting document N 0028.) He extended that action to include the publication of the first set of amendments.

Rex presented these papers and pointed out that WG4 has a number of decisions to make this week (see the questions below). Based on these questions, on Wednesday, Murata-san presented a series of recommendations:

- a. Do we want to commit to a schedule for publishing the COR1 set? Yes
  - i. What is that schedule? Assuming that a final draft will be ready in time, we produce the DCOR1 set immediately after the June 2009 (Copenhagen) meeting.
- b. Do we want to create any amendments? Yes
  - i. How many and what will the scope of each be? 3 (1 each for Parts 1, 2 and 4), with the scopes to be determined.
  - ii. What will the schedule for each be? Assuming that a final draft will be ready in time, we produce the (F)PDAM1 set immediately after the June 2009 (Copenhagen) meeting.
  - iii. Who will draft the resolutions asking SC 34 for permission to create corresponding new projects? Jesper Lund Stocholm, Shawn Villaron and Rex Jaeschke
  - iv. Who will be the editor for each? Murata-san proposed that Rex Jaeschke be the editor for Parts 1 and 4. Murata-san proposed that we decide on the editor for the Part 2 amendment on the first teleconference.

These proposals were approved without objection.

Rex also had an action item to “discuss with ITTF the process for producing a reprinted version of 29500 rather than a stand-alone COR”.

ITTF responded that they don't multiple reprints on the same base edition. After some discussion, WG4 members asked the editor to take the following action item below.

**Action:** Project Editor will contact ITTF again to clarify this with respect to the plan WG4 may have at the end of this meeting regarding having multiple CORs and AMDs.

## 6. Defect reports

At the Okinawa meeting and this meeting, several members expressed concern that the resolutions proposed for some DRs involved the addition or change of functionality, and, as such, should be published in an amendment rather than a technical corrigendum.

**Action:** Shawn Villaron and Francis Cave agreed to perform triage on the DRs identified as being questionable for a COR, and to bring their recommendations to WG4. Done (see recommendations below under each DR's entry).

**Action:** Shawn Villaron and Francis Cave will write up the criteria they used to determine if a defect's resolution should go in a COR or an AMD. (This will serve as the basis for such decisions in the future.) Done, see WG4 N 0036, which was presented at the SC 34 Plenary.

**Status of DRs processed at this meeting:**

08-0011 — WML: USE OF TRANSITIONAL ATTRIBUTE IN CNFSTYLE STRICT MODE EXAMPLE

This DR is not related to binary documents.

08-0012 — SCHEMAS: SUPPOSEDLY INCORRECT SCHEMA NAMESPACE NAMES

Shawn Villaron made a presentation then led a discussion on this. At the end, the following possible approaches were identified:

- Option 1: Change all IS 29500-specific namespaces to allow for differentiation with the ECMA-376-specific schemas
- Option 2: Extend the conformance attribute on the root elements for WordprocessingML, SpreadsheetML and PresentationML
- Option 3: Add a new optional version attribute on the root elements for WordprocessingML, SpreadsheetML and PresentationML
- Option 4: Add a new optional version attribute on type element in the [Content\_Types].xml part for all packages
- Option 5: Add a new optional version attribute as an optional custom document property
- Option 6: Add a new optional part OPC that would include a version attribute

After a lengthy discussion, Murata-san asked a small group (Shawn, Florian, Inigo, Jesper, and Mohamed) to go off and draft a more narrow set of proposals. The next day, this group reported it developed the following guiding principles to evaluate the options:

- To push producers gently towards strict conformance
- To improve interoperability
- To do no evil to the 29500 ecosystem (i.e., files, end users and implementations)

The group went through the set of options looking at the degree to which each would solve the problem as well as the “cost” imposed on applications to handle the consequence of the solution. As a result, the six options were reduced to the following two:

1. Change the namespace name for strict schemas only
2. Extend the existing conformance attribute

There was another lengthy discussion.

Regarding other standards (such as XPS) that are using OPC: The conformance attribute approach does *not* help them nor would any change to the namespace for Part 1 only.

**Action:** Jesper will produce a paper on the two remaining alternatives for circulation to WG4.

The solution to this DR should be published in an Amendment.

09-0001 — SML, CHARTS, TREND LINES: INCORRECT RANGE RESTRICTION IN BACKWARD AND FORWARD

Agreed with the proposed solution.

The solution to this DR should be published in a Technical Corrigenda.

**09-0002 — SML, CHARTS: INCORRECT RANGE RESTRICTION IN ST\_HOLESIZE**

Agreed with the proposed solution.

The solution to this DR should be published in a Technical Corrigenda.

**09-0003 — SML, CHARTS, TREND LINES: INCORRECT DATA TYPE AND RANGE RESTRICTION IN ST\_PERIOD**

Agreed with the proposed solution. Editor needs to make corresponding changes to the narrative as well.

The solution to this DR should be published in a Technical Corrigenda.

**09-0004 — SML, CHARTS: INCOMPLETE ENUMERATION DEFINITION FOR ST\_MARKERSTYLE**

Agreed with the proposed solution. Applies to Part 1 and 4 schemas.

The solution to this DR should be published in a Technical Corrigenda.

**09-0005 — SML, CHARTS: INCORRECT MEASUREMENT UNIT/RANGE RESTRICTION IN ST\_PERSPECTIVE**

Agreed with the proposed solution. Applies to Part 1 and 4 schemas.

The solution to this DR should be published in a Technical Corrigenda.

**09-0006 — SML, CHARTS: INCORRECT DATA TYPE IN ST\_SKIP**

Agreed with the proposed solution. Applies to Part 1 and 4 schemas.

The solution to this DR should be published in a Technical Corrigenda.

**09-0007 — SML: INCORRECT RANGE FOR PRECISION VALUE SPACE**

Agreed with the proposed solution.

The solution to this DR should be published in an Amendment.

**09-0008 — WML, MAIL MERGE: INCORRECT DEFINITION OF UNIQUETAG**

Agreed with the proposed solution. Applies to Part 1 and 4 schemas.

The solution to this DR should be published in an Amendment.

**09-0009 — SML, PIVOT TABLES: INCORRECT DESCRIPTION OF CALCULATEDMEMBER**

Agreed with the proposed solution.

The solution to this DR should be published in a Technical Corrigenda.

**09-0010 — SML, WORKBOOK: EXTENSIBILITY BROKEN FOR EXTERNALLINK**

Agreed with the proposed solution. Closed.

The solution to this DR should be published in a Technical Corrigenda.

**09-0011 — SHARED MLS, MATH: INCOMPLETE LIST OF VALID CHILD ELEMENTS FOR MATH OBJECTS**

Agreed with the proposed solution. Applies to Part 1 and 4 schemas.

Note that this problem is not related to binary file migration.

The solution to this DR should be published in a Technical Corrigenda.

**09-0012 — PARTS, FONT PART: INCOMPLETE DEFINITION FOR FONT PART**

Postpone until WG2 can weigh in on this.

The solution to this DR should be published in a Technical Corrigenda.

**09-0013 — SML: INCORRECT RESTRICTION ON EXTERNALDATA**

Postpone.

**09-0014 — SML: INCORRECT RESTRICTION ON THE NAME REPRESENTATION**

Adopted the proposed solution. Closed.

The solution to this DR should be published in a Technical Corrigenda.

**09-0015 — SML: INCOMPLETE LIST OF ERROR VALUE CONSTANTS AND VALID EXPRESSION ERROR VALUES**

Looks ok, but we need to see the difference between #N/A and #GETTING\_DATA as they appear to overlap.

Shawn reported that #N/A is returned when there is no result. #GETTING\_DATA is returned when you have requested data, but there is none now, but some might be coming (for example, when connected to an OLAP cube). Possibly add an example.

Rex to investigate implications of adding this constant (is\* functions, and such). Needs more work.

The solution to this DR should be published in a Technical Corrigenda.

**09-0016 — SML, FORMULAS: INCORRECT ATTRIBUTE NAME IN ARRAY FORMULAS**

Change the Background statement to “Existing documents contain an attribute with name ref whose function is identical to the attribute r, which is in the schema for both transitional and strict modes,. Hence this is a defect in the transitional schema by its omitting the attribute ref.”

In the transitional schema allow ref as a synonym for r, but only one or the other can be defined in any given instance. Closed.

The solution to this DR should be published in a Technical Corrigenda.

**09-0017 — WML, ANNOTATIONS: INSERTED MATH CONTROL CHARACTER MISSING VALID CHILD**

Agreed with the proposed solution. Applies to Part 1 and 4 schemas.

The solution to this DR should be published in a Technical Corrigenda.

**09-0018 — SHARED MLS, MATH: INVALID CHILD PREVIOUS RUN PROPERTIES**

Agreed with the proposed solution. Applies to Part 1 and 4 schemas.

The solution to this DR should be published in a Technical Corrigenda.

**09-0019 — SHARED MLS, MATH: INVALID CHILD PREVIOUS RUN PROPERTIES**

Appears to be resolved by 17 and 18 above. Shawn needs to check on this, however.

The solution to this DR should be published in a Technical Corrigenda.

**09-0020 — SML: INCORRECT RESTRICTION ON SCENARIO**

Adopted the proposed solution. Closed.

The solution to this DR should be published in a Technical Corrigenda.

**09-0021 — SML, PIVOT TABLES: INCORRECT RESTRICTION ON ITEM**

Agreed with the proposed solution.

The solution to this DR should be published in a Technical Corrigenda.

**09-0022 — SML: INCOMPLETE SET OF FORMAT SYMBOLS FOR NUMFMTS**

Agreed with the proposed solution, but also update the table to include an entry for \ (Part 1, pp. 1984). Shawn to provide final text.

The solution to this DR should be published in a Technical Corrigenda.

**09-0023 — SML, PARTS: INCORRECT NAMING OF ROOT ELEMENT FOR CERTAIN PARTS**

Adopted the proposed solution. Closed.

The solution to this DR should be published in an Amendment.

**09-0024 — SML, PARTS: INCOMPLETE SET OF IMPLICIT RELATIONSHIPS FOR WORKSHEET PART**

Agreed with the proposed solution.

The solution to this DR should be published in a Technical Corrigenda.

**09-0025 — SML, PARTS: INCORRECT ROOT NAMESPACE FOR THE STYLES PART**

Adopted the proposed solution. Closed.

The solution to this DR should be published in an Amendment.

**09-0026 — SML: XML:SPACE ATTRIBUTE NOTE DECLARED IN SPREADSHEETML**

Agreed with the proposed solution.

See Shawn about getting some write-up w.r.t whitespace discussion. Is the problem as stated correct?

The solution to this DR should be published in a Technical Corrigenda.

**09-0028 — WML, CUSTOM XML AND SMART TAGS: TIGHTEN DATA TYPES**

WG1 has issued a recommendation. See the SC 34 minutes from Friday. XML 1.0 4th edition.

**09-0029 — WML, CUSTOM XML AND SMART TAGS: SPECIFICATION FOR VALIDATION LACKING**

**Action:** Shawn will write up an explanation of this.

**09-0031 — GENERAL: REQUEST FOR SUPPORT OF UNICODE 5.1.0**

After a brief discussion, it was suggested this topic be put on the agenda for an up-coming teleconference.

**Action:** TC45 members to come up with rationale used when dated versions of 10646 and Unicode were deliberately chosen for the Normative References.

**09-0035 — WML, PARTS: INCORRECT MEDIA TYPES FOR ALTERNATIVE FORMAT IMPORT PART**

Adopted the proposed solution with the Editor to write the specific change words. Closed.

**09-0038 — WML/PML/DML: PANOSE-1 TYPEFACE CLASSIFICATION**

Request to add a note regarding changing “Panose” to “Panose1” in narrative.

**09-0039 — SHARED, PARTS, FONT PART: FILE FORMAT FOR "BITMAPPED FONT" IS MISSING**

More investigation needed, but the problem is understood.

**09-0040 — WML/DML: COMPLEX SCRIPTS**

We need to provide more documentation.

**09-0041 — WML, FONTS: FONT RESOURCE SEARCH**

The character set is more important than Panose1. Potential bias against Asian character sets.

**09-0042 — WML, FONTS: NOTTRUE TYPE ATTRIBUTE MISSING FROM LIST**

More investigation needed.

**09-0043 — WML, FONTS: NOTTRUE TYPE ATTRIBUTE AND BITMAP FONTS**

Understood; more work needed.

**09-0044 — WML, FONTS: SUPPORT FOR COMMAS IN FONT FAMILY/SUBFAMILY/FULL NAMES**

Currently, this is not supported. See DR 09-0050 re lexically first comma. Closed without change.

**09-0045 — WML, FONTS: CHARACTER ENCODINGS OF FONT NAMES**

Understood; more work needed.

**09-0046 — WML, FONTS: MISLEADING EXAMPLE**

Understood; more work needed. GBK is a proper superset of GB 2312.

**09-0047 — WML, FONTS: IDENTIFYING A FACE IN AN EMBEDDED FONT FILE**

Understood; more work needed.

**09-0048 — WML, FONTS: PANOSE-1 CLASSIFICATION MECHANISM MISSING**

Understood; more work needed.

**09-0050 — SML, WORKSHEETS: COMMA DELIMITER BETWEEN FONT NAME AND TYPE**

Change DR qualifier to “Technical Defect”, write text to say that “the lexically first comma is the one recognized as the delimiter”. Closed.

The solution to this DR should be published in a Technical Corrigenda.

**09-0051 — SML, SHARED STRING TABLE: CHARSET VALUE DUPLICATE**

Remove "HANGUEL\_CHARSET". Closed.

The solution to this DR should be published in an Amendment.

**09-0053 — PML, PRESENTATION: ATTRIBUTE NAME PITCHFAMILY IS MISLEADING**

A prose change explaining this attribute is preferred to changing the name of the attribute. Will propose wording.

**09-0054 — DML, RUN FORMATTING: ATTRIBUTE NAME PITCHFAMILY IS MISLEADING**

A prose change explaining this attribute is preferred to changing the name of the attribute. Will propose wording.

**09-0055 — PML, PRESENTATION: TYPE OF THE ATTRIBUTE PITCHFAMILY IS TOO LOOSE**

Understood; more work needed.

**09-0056 — DML, MAIN: TYPE OF THE ATTRIBUTE PITCHFAMILY IS TOO LOOSE**

Understood; more work needed.

**09-0057 — PML, PRESENTATION: ALLOW ALIASES AS VALUES FOR ATTRIBUTE TYPEFACE**

Understood; more work needed.

**09-0058 — DML, MAIN: POSSIBLE VALUES OF ATTRIBUTE SCRIPT ARE UNCLEAR**

Understood; more work needed.

**09-0059 — DML, MAIN: RELATIONSHIP BETWEEN THE SYMBOL FONT AND SYMBOL CHARACTER SET**

Understood; more work needed.

**09-0060 — WML, FONTS: NAMES SHOULD BE REGISTERED AT IANA**

Apparently, this is clean-up from the BRM where it was agreed that code pages names should be replaced.

**09-0061 — SHARED MLS, SHARED SIMPLE TYPES: CONSTRAIN ST\_PANOSE VALUE SET**

Can we still continue to use the xsd:hexBinary type and use the proposed regular expression?

**09-0062 — WML, SETTINGS: SEMANTICS OF SHORT FILE NAMES**

Adopted the proposed solution and added text saying that short names are not case-sensitive. Closed.

The solution to this DR should be published in a Technical Corrigenda.

**09-0063 — WML, FIELDS: FORM FIELD PROPERTIES LENGTH**

Still not sure of the units.

**09-0064 — WML, SIMPLE TYPES: ST\_FFHELPTXTVAL LENGTH**

Still not sure of the units.

**09-0065 — WML, SIMPLE TYPES: ST\_FFNAME LENGTH**

Still not sure of the units.

**09-0066 — WML, SIMPLE TYPES: ST\_MACRONAME LENGTH**

Still not sure of the units.

**09-0067 — SML, WORKBOOK: SEMANTICS OF SHORT FILE NAMES**

Adopted the proposed solution and added text saying that short names are not case-sensitive. Closed.

The solution to this DR should be published in a Technical Corrigenda.

**09-0068 — SML, STYLES: NAME ATTRIBUTE LENGTH**

62 octets.

**09-0069 — SML, PIVOT TABLES: LONGTEXT ATTRIBUTE LENGTH**

510 octets

**09-0070 — PML, PRESENTATION: MODIFYVERIFIER PASSWORD LENGTH**

Adopted the proposed solution. Closed.

The solution to this DR should be published in a Technical Corrigenda.

**09-0071 — WML, SIMPLE TYPES: KATAKANA ENUMERATION EXAMPLES**

It appears that after one pass through the syllabary, the characters are used again from the start rather than appending a duplicate character.

**09-0072 — WML, SIMPLE TYPES: ST\_BRCLEAR TERMINOLOGY USAGE**

Agreed with the proposed solution. Editor to show exact wording changes. Closed.

The solution to this DR should be published in a Technical Corrigenda.

**09-0073 — WML, SIMPLE TYPES: ST\_BRCLEAR EXTRANEIOUS TEXT**

Agreed with the proposed solution. Closed.

The solution to this DR should be published in a Technical Corrigenda.

**09-0092 — WML: IDENTICAL DEFINITIONS FOR ST\_NUMBERFORMAT ENUMERATION VALUES**

If they truly are equivalent, can we move decimalFullWidth2 to transitional only? If so, this becomes a technical DR with a schema change to Parts 1 and 4.

**09-0099 — SML: NO NORMATIVE REFERENCES OR DEFINITIONS FOR “MDX” AND “OLAP”**

Is MDX covered by the OSP?

**Action:** Doug to investigate.

**09-0100 — PART 1: UNNECESSARY ANNEX**

Confirmed. Remove annex and do *not* move it to Part 4.

**09-0103 — WML: ERROR IN WML SCHEMA**

Will be considered along with DR 08-0001 through 0008.

**09-0104 — DML: CONTRADICTION BETWEEN TEXT AND DML-WORDPROCESSINGDRAWING SCHEMA**

Discussed; change the schema or the prose?

**09-0105 — WML: ERRORS IN EXAMPLES**

Discussed; no resolution

**09-0106 — PML: ERRORS IN EXAMPLES**

Discussed; no resolution

**09-0159 — GENERAL: UNINTENDED INCOMPATIBILITIES BETWEEN TRANSITIONAL SCHEMA AND ECMA-376**

There were concerns that resolving this would overturn a vote of the BRM. Various members spoke for/against doing that. It was decided to cover this on an up-coming teleconference.

## **7. Comment collection form**

At the Okinawa meeting, Doug Mahugh agreed to “look at implementing the suggested improvements” made at that meeting. (See Doug’s report in mail on 2009-03-18 and subsequent postings by others.)

On Tuesday, Jesper ask to add to this topic a discussion of moving to a more sophisticated system for tracking the status of DRs and proposed amendments. On Wednesday, this topic was revisited, and after some discussion, no decision was made.

There were concerns that the current approach might not scale well as the number of DRs increased. In response, the editor pointed out that the size of the DR log will not necessarily grow much; as DR solutions were rolled into DCORs and (F)PDAMs, they would be removed from the DR log.

## **8. Extension proposals from member bodies and liaisons**

There was a short discussion on the paper submitted by Japan: WG4 N 0027, “An OOXML extension proposal for checking and normalizing characters”, after which WG4 invited Japan to submit a detailed proposal on this topic.

The convener encouraged members to submit new proposals.

Several Ecma delegates indicated that Ecma expects to submit some proposals for consideration at the December 2009 meeting, and possibly even at the September 2009 meeting.

## 9. Conformance Testing

Doug Mahugh mentioned the document validity program being driven by Fraunhofer FOKUS. (See [http://www.fokus.fraunhofer.de/en/elan/projekte/international/laufende\\_projekte/Document-Interop\\_Lab/index.html](http://www.fokus.fraunhofer.de/en/elan/projekte/international/laufende_projekte/Document-Interop_Lab/index.html) for details.)

WG4 members are encouraged to participate in this work. There will be workshops in London and Berlin later this year, the primary purpose of which will be to refine the plans for the document test suite and validator.

WG4 members discussed the general topic and spoke of their experiences in other standards groups.

- “It is OK for WG4 representatives to develop tests, but not to be involved in determining if any implementation conforms.”
- “Right now, our primary focus is on maintenance, so let’s concentrate on that.”
- “Does WG4’s scope allow us to work on testing?”

## 10. Future meetings

### Face-to-Face Meetings:

The schedule is as follows:

- a. 2009-06-22/24 (3<sup>rd</sup> day in parallel with WG5, which meets 24/26), Copenhagen, DK
- b. 2009-09-13/16, Seattle, Washington, US, (in conjunction with the SC 34 plenary)
- c. 2009-12-07/11 or 2009-12-14/18 (exact dates to be decided), Paris, FR
- d. 2010-03-22/25, Stockholm, SE (in conjunction with the SC 34 plenary)
- e. 2010-06-14/18 (proposed; exact dates to be decided), Helsinki, FI
- f. 2010-09-??/??, <city?>, ZA (in conjunction with the SC 34 plenary)
- g. 2009-12-06/10 or 2009-12-13/17 (exact dates to be decided), tentative offer from CN

### Teleconferences:

The schedule is as follows:

- a. 2009-04-16, 13:00 GMT (See <http://www.timeanddate.com/worldclock/meeting.html> for translation of GMT to your time zone.) [see WG4 document N 0021 for call-in details]
- b. 2009-04-30, 13:00 GMT
- c. 2009-05-14, 13:00 GMT
- d. 2009-05-28, 13:00 GMT
- e. 2009-06-11, 13:00 GMT

**Action:** Murata-san will produce a document announcing the four teleconferences to be held on 2009-04-30 and later.

## 11. Any other business

- a. Review of action items: Rex read out the action items assigned during the meeting.

- b. Host facilities and support: By acclamation, WG4 expressed its appreciation to Jirka Kosek and UNMZ for hosting this meeting of WG4.
- c. By acclamation, WG4 expressed its appreciation to Microsoft for the dinner on Wednesday and to Sursen for lunch on Thursday.
- d. Summary of the issues to be brought to the SC 34 Plenary:
  - i. Having a public archive of WG email.
  - ii. Criteria for determining if a defect solution should go into a COR or and AMD.
  - iii. Resolution to create projects for three Amendments (and get approval for project editors).

## **12. Closing**

Adjourned by unanimous consent at 16:15, Thursday, March 26.