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# Minutes of the Copenhagen Meeting of ISO/IEC JTC 1/SC 34/WG4, 2009-06-22/24

Rex Jaeschke ([rex@RexJaeschke.com](mailto:rex@RexJaeschke.com))

2009-06-30

## 1. Opening remarks

The meeting started at 10:00 on Monday. The convener, Murata-san, welcomed everyone to Copenhagen for the third meeting of WG4.

## 2. Roll call of delegates

The following members were present:

Name	Affiliation	Employer/Sponsor
Pia Lange	Host	Dansk Standard
Makoto Murata	WG4 Convener	International University of Japan
Sam Oh	SC 34 Chair	Sungkyunkwan University
Mario Wendt	DE HoD	Microsoft
Klaus-Peter Eckert	DE	Frauenhofer Fokus
Jesper Lund Stocholm	DK HoD	Ciber
Rex Jaeschke	Ecma HoD, Project Editor	Consultant
Doug Mahugh	Ecma	Microsoft
Shawn Villaron	Ecma	Microsoft
Kimmo Bergius	FI HoD	Microsoft
Alex Brown	GB HoD	Griffin Brown Digital Publishing Ltd.
Gareth Horton	GB	Datawatch
Jaeho Lee	KR HoD	University of Seoul
Jung-Jin Yang	KR	The Catholic University of Korea

Name	Affiliation	Employer/Sponsor
Keld Jørn Simonsen	NO HoD	RAP
Dave Welsh	US HoD	Microsoft

### 3. Adoption of the agenda

Using the revised agenda from Murata-san’s mail of 2009-06-18 as a starting point, the following items were added:

- Conformance Testing and Methodology
- The relationship between "transitional" and "strict"
- Demonstration of the Assembla Issue tracking and schema maintenance
- The request from SC 24 regarding support for X3D in ODF
- Implementation of the email archive
- Review of the schedule for DCOR1 and FPDAM1 set processing

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

### 4. Administration

#### Approval of Previous Meeting Minutes

WG4 N 0056: The minutes from the teleconference on 2009-06-11 were adopted with the following changes:

- a. Under Point 4 of Item 7, “Any Other Business”, make the following change: “Alex will ~~not~~ present some principles on the relationship between Transitional and Strict as a basis for our ongoing decision making.”

It was requested that future minutes contain more technical details, for those not attending meetings. The Secretary replied that he’d be happy to add them provided someone attending submitted them to him for inclusion.

#### Outstanding Action Items

1. Project Editor will contact ITTF again to clarify the use of reprints with respect to the plan WG4 has at the end of the Prague meeting regarding having multiple CORs and AMDs.  
Rex received a reply, the essence of which is as follows: A reprint can include one or more TCs; however, it *cannot* include any amendments. A reprint against a base standard can be issued once, but not more times. That is, a reprinted standard cannot later be reprinted again with further changes. So, the reprint mechanism doesn’t suit the frequency and kind of documents we plan on producing (e.g., regular CORs, and regular amendments to resolve DRs). Rex outlined the revision process and pointed out that he was not in a hurry to go that route especially since a revision would have to fold-in all TCs and amendments

published at that point, and we were expecting to start work on a non-trivial amendment later this year.

**Done**

2. Jesper and Gareth will work on a proposal for transitional/date issues, to decide on a DR to be submitted to address this matter. Jesper will submit a DR for this. **Open**
3. DR 08-0012: Shawn will produce the set of text edits needed for Parts 1 and 4 regarding the namespace change. **Open**
4. DR 08-0012: Jesper and Shawn will write a proposal for a new “version” attribute to facilitate future versioning of the specification, and to remove the “conformanceClass” attribute. **Done**
5. DR 09-006x: Shawn, Murata-san, Rex, and Mohamed will look at the correct “character” term to be used. Murata-san posted proposed words on 2009-06-20. **Done**
6. DR 09-0053 and 09-0054 (pitchFamily): Murata-san will provide some text improvements. Murata-san posted proposed words on 2009-06-21. **Done.**

### Report from the WG4 Secretariat

The following NBs and liaisons have registered delegates to WG4: CI, CN, CZ, DE, DK, Ecma, FI, FR, GB, IN, IT, JP, KR, NL, NO, PL, and ZA. 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/>.

## 5. Defect reports

The latest version of the DR log was circulated as WG4 N 0055. The status of DRs at that time was as follows:

Status	Count
Open	55
Further Consideration Required	58
Last Call	14
Closed, to be incorporated in COR1	128
Closed, to be incorporated in AMD1	3
Closed without action	6
<b>Total</b>	<b>264</b>

It was requested that future status reports distinguish between editorial and technical DRs.

**Action:** Each time he publishes a new DR log, the Project Editor will distribute his DR tracking spreadsheet as a committee-private document.

**All DRs closed at the Copenhagen meeting will have their status moved directly to “Closed” without first going to “Last Call”. (However, any problems found in these DR resolutions can be addressed during the 2009-07-23 phone meeting.)**

**Unless stated explicitly otherwise, all closed DR resolutions involving changes will go into a Technical Corrigendum rather than an Amendment.**

### **Defect Reports not affected by the transitional/strict relationship**

#### **DR-08-0012 — Schemas: Supposedly incorrect schema namespace names**

Jesper presented his paper (distributed via email on 2009-06-21).

The use of Part 3 for extensions was discussed at length. Some people wanted to be sure that the proposed version attribute does not interfere with Part 3.

The final resolution for this DR was as follows:

- We’ll change some of the namespace names in Part 1 (with corresponding narrative changes in Part 4). (Many of these changes have been circulated, and the rest will be distributed in the coming week.)
- We will *not* change the conformance attribute.
- We will *not* add a versioning attribute.

Closed. All changes made to implement this resolution will go in to AMD1.

It is clear that more work needs to be done in this area; however, we’ll defer that until we have more experience working with Part 3. (It was noted that DR 09-0168, “OPC: No mechanism to distinguish ECMA-376:2006 from IS 29500” deals with a related issue.)

**Action:** Rex will communicate to Switzerland WG4’s decision on this DR.

#### **DR-09-0012 — Parts, Font Part: Incomplete definition for Font Part**

After some discussion, it was agreed that this would not be closed at this meeting.

#### **DR-09-0013 — SML: Incorrect restriction on externalData**

Accepted as proposed and Closed.

**The following changes will be made:**

**Part 1, §21.2.2.63, “externalData (External Data Relationship)”, p. 3790**

Attributes	Description
id (Relationship Reference)  Namespace: .../officeDocument/2006/relationships	Specifies the relationship ID for the relationship for this chart. The relationship explicitly targeted by this attribute shall <a href="#">either</a> be of type <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/package-">http://schemas.openxmlformats.org/officeDocument/2006/relationships/package-</a> <a href="#">_or</a> <a href="http://schemas.openxmlformats.org/officeDocument/2006/relationships/oleObject">http://schemas.openxmlformats.org/officeDocument/2006/relationships/oleObject</a> .  The possible values for this attribute are defined by the ST_RelationshipId simple type (\$xx).

**DR-09-0026 — SML: xml:space attribute note declared in SpreadsheetML**

Accepted as proposed (see below) and Closed.

The following changes will be made:

**Part 1, §18.2.5, “definedName (Defined Name)”, p. 1719**

<u>Attributes</u>	<u>Description</u>
<a href="#">xml:space (Content Contains Significant Whitespace)</a>  Namespace: <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>	<a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a>  <a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a>

**Part 1, §18.3.1.29, “dataConsolidate (Data Consolidate)”, p. 1790**

<u>Attributes</u>	<u>Description</u>
<a href="#">xml:space (Content Contains Significant Whitespace)</a>  Namespace: <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>	<a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a>  <a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a>

**Part 1, §18.3.1.38, “evenFooter (Even Page Footer)”, p. 1802**

Attributes	Description
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace:  <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

**Part 1, §18.3.1.40, “f (Formula)”, p. 1808**

Attributes	Description
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace:  <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

**Part 1, §18.3.1.41, “firstFooter (First Page Footer)”, p. 1808**

Attributes	Description
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace:  <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

**Part 1, §18.3.1.42, “firstHeader (First Page Header)”, p. 1809**

Attributes	Description
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace:  <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

**Part 1, §18.3.1.43, “formula (Formula)”, p. 1809**

<u>Attributes</u>	<u>Description</u>
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace: <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

**Part 1, §18.3.1.44, “formula1 (Formula 1)”, p. 1809**

<u>Attributes</u>	<u>Description</u>
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace: <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

**Part 1, §18.3.1.45, “formula2 (Formula 2)”, p. 1810**

<u>Attributes</u>	<u>Description</u>
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace: <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

**Part 1, §18.3.1.57, “oddFooter (Odd Page Footer)”, p. 1823**



<u>Attributes</u>	<u>Description</u>
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace:  <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

**Part 1, §18.3.1.58, “oddHeader (Odd Header)”, p. 1823**

<u>Attributes</u>	<u>Description</u>
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace:  <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

**Part 1, §18.3.1.96, “v (Cell Value)”, p. 1884**

<u>Attributes</u>	<u>Description</u>
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace:  <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

**Part 1, §18.4.12, “t (Text)”, p. 1906**

<u>Attributes</u>	<u>Description</u>
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace:  <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

**Part 1, §18.5.1.1, “calculatedColumnFormula (Calculated Column Formula)”, p. 1909**

<u>Attributes</u>	<u>Description</u>
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace:  <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

**Part 1, §18.7.1, “author (Author)”, p. 1929**

<u>Attributes</u>	<u>Description</u>
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace:  <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

**Part 1, §21.2.2.59, “evenFooter (Even Footer)”, p. 3789**

<u>Attributes</u>	<u>Description</u>
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace:  <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

**Part 1, §21.2.2.60, “evenHeader (Even Header)”, p. 3789**

<u>Attributes</u>	<u>Description</u>
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace:  <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

**Part 1, §21.2.2.66, “firstFooter (First Footer)”, p. 3792**

<u>Attributes</u>	<u>Description</u>
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace:  <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

**Part 1, §21.2.2.67, “firstHeader (First Header)”, p. 3792**

<u>Attributes</u>	<u>Description</u>
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace:  <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

**Part 1, §21.2.2.124, “oddFooter (Odd Footer)”, p. 3818**

<u>Attributes</u>	<u>Description</u>
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace:  <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

Part 1, §21.2.2.125, “oddHeader (Odd Header)”, p. 3818

<u>Attributes</u>	<u>Description</u>
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace:  <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

Part 1, §22.6.2.5, “Author (Author)”, p. 4269

<u>Attributes</u>	<u>Description</u>
<p><a href="#">xml:space (Content Contains Significant Whitespace)</a></p> <p>Namespace:  <a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a></p>	<p><a href="#">Specifies how white space should be handled for the contents of this element using the W3C space preservation rules.</a></p> <p><a href="#">The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.</a></p>

**DR-09-0029 — WML, Custom XML and Smart Tags: Specification for Validation Lacking**

Regarding the 3 points raised by Shawn Villaron on 2009-06-07:

1. Why we have doNotValidateAgainstSchema? Shawn explained that in his response. It was agreed that no change to the standard was needed.
2. The differences between WML and SML: It was agreed that no change to the standard was needed. Murata-san will consider submitting a new DR.
3. The requirements of the schemaLocation attribute: It was agreed that no change to the standard was needed. Murata-san will consider logging a new DR.

Agreed to adopt the final wording from Shawn’s mail. Closed.

**DR-09-0053 — PML, Presentation: Attribute name pitchFamily is misleading**

Agreed to add the note proposed by Murata-san in email of 2009-06-21. Also change “a byte variable” to “an octet value”. Closed.

**DR-09-0054 — DML, run formatting: Attribute name pitchFamily is misleading**

Agreed to add the note proposed by Murata-san in email of 2009-06-21. Also change “a byte variable” to “an octet value”. Closed.

The following DRs were discussed as a group:

**DR 09-0063 — WML, Fields: Form Field Properties length**

**DR 09-0064 — WML, Simple Types: ST\_FFHelpTextVal length**

**DR 09-0065 — WML, Simple Types: ST\_FFName length**

**DR 09-0066 — WML, Simple Types: ST\_MacroName length**

**DR 09-0068 — SML, Styles: name attribute length**

**DR 09-0069 — SML, Pivot Tables: longText attribute length**

Agreed to use the Unicode 5 term “Unicode Scalar Value”, as proposed in Murata-san’s mail of 2009-06-20. Closed.

**DR-09-0070 — PML, Presentation: modifyVerifier password length**

Previously, this DR was kept open just in case the resolution to DR’s 09-0063, 64, 65, 66, 68, and 69 affected the resolution of DR 09-0070. As that resolution does not have any impact, we agreed to move this one to Closed.

**DR-09-0092 — WML: Identical definitions for ST\_NumberFormat enumeration values**

Accepted as proposed (see below) and Closed.

The following changes will be made:

**Part 1, §17.18.59, “ST\_NumberFormat (Numbering Format)”, p. 1584**

<p><del>decimalFullWidth2 (Full Width Arabic Numerals Alternate)</del></p>	<p><del>Specifies that the sequence shall consist of a set of full-width Arabic numbering.</del></p> <p><del>To determine the text that is displayed for any value, this sequence specifies a set of characters that represent positions 1–9 and then those same characters are combined with each other and 0 (represents the number zero) to construct the remaining values.</del></p> <p><del>The set of characters used by this numbering format for values 0–9 is U+FF10–U+FF19, respectively.</del></p> <p><del>For values greater than the size of the set, the number is constructed by following these steps:</del></p> <ol style="list-style-type: none"> <li><del>4.—Divide the value by 10 and write the symbol which represents the remainder.</del></li> <li><del>5.—Divide the quotient of the previous division by 10 and write the symbol, which represents the remainder, to the left of the existing position.</del></li> <li><del>6.—Repeat step 2 until the remaining value is equal to zero.</del></li> </ol> <p><del>{Example: The numbering for the items should be represented by the following pattern: 1, 2, 3, ..., 8, 9, 1 0, 1 1, 1 2, ..., 1 8, 1 9, 2 0, 2 1, ... end example}</del></p>
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The following changes will be made:

**Part 4, §17.x.x, “ST\_NumberFormat (Numbering Format)”, new subclause**

<p><u>decimalFullWidth2 (Full Width Arabic Numerals Alternate)</u></p>	<p><u>Specifies that the sequence shall consist of a set of full-width Arabic numbering.</u></p> <p><u>To determine the text that is displayed for any value, this sequence specifies a set of characters that represent positions 1–9 and then those same characters are combined with each other and 0 (represents the number zero) to construct the remaining values.</u></p> <p><u>The set of characters used by this numbering format for values 0–9 is U+FF10–U+FF19, respectively.</u></p> <p><u>For values greater than the size of the set, the number is constructed by following these steps:</u></p> <ol style="list-style-type: none"> <li><u>1. Divide the value by 10 and write the symbol which represents the remainder.</u></li> <li><u>2. Divide the quotient of the previous division by 10 and write the symbol, which represents the remainder, to the left of the existing position.</u></li> <li><u>3. Repeat step 2 until the remaining value is equal to zero.</u></li> </ol> <p><u>[Example: The numbering for the items should be represented by the following pattern: 1, 2, 3, ..., 8, 9, 10, 11, 12, ..., 18, 19, 20, 21, ... end example]</u></p>
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**DR-09-0099 — SML: No Normative References or Definitions for “MDX” and “OLAP”**

Shawn reported that there is no MDX information actually recorded in a file. He does not think a normative reference is necessary. To avoid a breaking change, he spoke against changing the faux-MDX tag names to something else. In “Terms and Definitions”, perhaps we can define MDX and OLAP in a generic way (much like we handle OLE).

More work needed. Will not be resolved at this meeting.

**DR-09-0107 — WML: Errors in examples**

Closed without Action.

**DR-09-0144 — SML, Formulas: Various functions, iterative search technique**

Closed as proposed.

**DR-09-0146 — SML, Formulas: MATCH, inconsistent use of return value #NUM!**

Closed as proposed.

**DR-09-0156 — WML: XSLT Transformation error in Example**

Closed as proposed.

**DR-09-0157 — WML: restriction on ordering of run properties**

The definition of the types EG\_RPrContent and EG\_RPrBase in the schema should be changed so they use xs:all instead of xs:sequence. (exact words needed.)

Closed as proposed.

**DR-09-0159 — General: Unintended incompatibilities between Transitional schema and Ecma-376**

We discussed at length the implications of overriding a decision of the BRM. In the end, it was felt that the incompatibilities were indeed unintended, and that the proposed resolution for this DR was appropriate.

Closed as proposed below. To go in AMD1.

The detailed changes that were accepted are, as follows:

The content model of ST\_OnOff defined in Part 1, §22.9.2.7 shall be changed in the relevant Transitional schemas (shared-commonSimpleTypes) adding the values On and Off to the existing values of 0,1,True and False.

In addition, the schema in the Strict version of shared-commonSimpleTypes.xsd should be updated with a revised definition using the union construct.

The schema in the Transitional version of shared-commonSimpleTypes.xsd should be updated with the following definition.

```
<xsd:simpleType name="ST_OnOff">
  <xs:union memberTypes="xsd:boolean ST_OnOff1"/> </xsd:simpleType>

<xsd:simpleType name="ST_OnOff1">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="on"/>
    <xsd:enumeration value="off"/>
  </xsd:restriction>
</xsd:simpleType>
```

The schema in the Transitional version of shared-commonSimpleTypes.rnc should be updated with the following definition:

```
s_ST_OnOff = xsd:boolean | s_ST_OnOff1
```



```
s_ST_OnOff1 = string "on" | string "off"
```

The schema in the Strict version of shared-commonSimpleTypes.xsd should be updated with the following definition:

```
<xsd:simpleType name="ST_OnOff">  
  <xs:union memberTypes="xsd:boolean"/>  
</xsd:simpleType>
```

### Prose Changes

Part 1, §A.6.9, “Shared Simple Types”, p. 4661, lines 41–43

Action: The text representation of the ST\_OnOff simple type (XSD) must be updated with the new allowed values.

Part 4, §A.7.9, “Shared Simple Types”, p. 1160, lines 63–64

Action: The text representation of the ST\_OnOff simple type (XSD) must be updated with the new allowed values.

Part 4, §B.7.9, “Shared Simple Types”, p. 1454, line 35

Action: The text representation of the ST\_OnOff simple type (RNG) must be updated with the new allowed values.

The exact changes are as follows:

#### Part 1, §A.6.9, “Shared Simple Types”, p. 4662, lines 41–43

```
<xsd:simpleType name="ST_OnOff">  
<xsd:restriction base="xsd:boolean"/>  
<xs:union memberTypes="xsd:boolean"/>  
</xsd:simpleType>
```

#### Part 4, §A.7.9, “Shared Simple Types”, p. 1160

```
<xsd:simpleType name="ST_OnOff">  
<xsd:restriction base="xsd:boolean"/>  
<xs:union memberTypes="xsd:boolean ST OnOff1"/>  
</xsd:simpleType>  
<xsd:simpleType name="ST OnOff1">  
<xsd:restriction base="xsd:string">  
<xsd:enumeration value="on"/>  
<xsd:enumeration value="off"/>  
</xsd:restriction>
```

[</xsd:simpleType>](#)

**Part 4, §B.7.9, “Shared Simple Types”, p. 1454**

[s\\_ST\\_OnOff = xsd:boolean | s\\_ST\\_OnOff1](#)  
[s\\_ST\\_OnOff1 = string "on" | string "off"](#)

**DR-09-0169 — Normative Reference to XML 1.1**

Debated at length. The two possible outcomes seem to be:

- Have an undated reference to 1.0, thereby providing support for the 5<sup>th</sup> edition (and all subsequent editions).
- Have a dated reference to 1.0, 4<sup>th</sup> edition.

In any event, it was agreed that the current Normative Reference entry is wrong; there is no such thing as 1.1, Third Edition.

Agreed to refer to V1.0, Fourth Edition, and to recognize WG1’s recommendation at the Prague Plenary: “XML shall be referred to in its 1.0 fourth edition form, until the 1.0 fifth edition specification family is mature.”

The 4<sup>th</sup> edition reference will have the following footnote: “In the future, this reference may be replaced by the 5<sup>th</sup> edition once that has received broad acceptance.”

Closed.

The exact changes are as follows:

**Part 1, §3, “Normative References”, p. 10**

~~XML, Tim Bray, Eve Maler, Jean Paoli, C. M. Sperberg-McQueen, John Cowan, and François Yergeau (editors). *Extensible Markup Language (XML) 1.1*, Third Edition. World Wide Web Consortium. 2004. <http://www.w3.org/TR/2004/REC-xml11-20040204/>~~  
[XML, Tim Bray, Jean Paoli, Eve Maler, C. M. Sperberg-McQueen, Eve Maler, and François Yergeau \(editors\). \*Extensible Markup Language \(XML\) 1.0\*, Fourth Edition.<sup>1</sup> World Wide Web Consortium. 2006. <http://www.w3.org/TR/2006/REC-xml-20060816/>](http://www.w3.org/TR/2006/REC-xml-20060816/)

<sup>1</sup>[In the future, this reference may be replaced by the 5<sup>th</sup> edition once that has received broad acceptance.](#)

**Part 2, §3, “Normative References”, p. 3**

[XML, Tim Bray, Jean Paoli, Eve Maler, C. M. Sperberg-McQueen, Eve Maler, and François Yergeau \(editors\). \*Extensible Markup Language \(XML\) 1.0\*, Fourth Edition.<sup>1</sup> World Wide Web Consortium. 2006. <http://www.w3.org/TR/2006/REC-xml-20060816/>](http://www.w3.org/TR/2006/REC-xml-20060816/)

<sup>1</sup>[In the future, this reference may be replaced by the 5<sup>th</sup> edition once that has received broad acceptance.](#)

**Part 3, §3, “Normative References”, p. 3**

~~XML, Tim Bray, Eve Maler, Jean Paoli, C. M. Sperberg-McQueen, John Cowan, and François Yergeau (editors). *Extensible Markup Language (XML) 1.1*, Third Edition. World Wide Web Consortium. 2004. <http://www.w3.org/TR/2004/REC-xml11-20040204/>~~XML, Tim Bray, Jean Paoli, Eve Maler, C. M. Sperberg-McQueen, Eve Maler, and François Yergeau (editors). *Extensible Markup Language (XML) 1.0*, Fourth Edition.<sup>1</sup> World Wide Web Consortium. 2006. <http://www.w3.org/TR/2006/REC-xml-20060816/>

<sup>1</sup> In the future, this reference may be replaced by the 5<sup>th</sup> edition once that has received broad acceptance.

#### Part 4, §3, “Normative References”, p. 6

~~XML, Tim Bray, Eve Maler, Jean Paoli, C. M. Sperberg-McQueen, John Cowan, and François Yergeau (editors). *Extensible Markup Language (XML) 1.1*, Third Edition. World Wide Web Consortium. 2004. <http://www.w3.org/TR/2004/REC-xml11-20040204/>~~XML, Tim Bray, Jean Paoli, Eve Maler, C. M. Sperberg-McQueen, Eve Maler, and François Yergeau (editors). *Extensible Markup Language (XML) 1.0*, Fourth Edition.<sup>1</sup> World Wide Web Consortium. 2006. <http://www.w3.org/TR/2006/REC-xml-20060816/>

<sup>1</sup> In the future, this reference may be replaced by the 5<sup>th</sup> edition once that has received broad acceptance.

#### DR-09-0170 — Normative Reference to Namespaces in XML 1.1

Agreed to refer to V1.0. Closed.

The exact changes are as follows:

#### Part 1, §3, “Normative References”, p. 11

XML Namespaces, Bray, Tim, Dave Hollander, Andrew Layman, and Richard Tobin (editors). *Namespaces in XML 1.0*. World Wide Web Consortium. 2006~~4~~. ~~<http://www.w3.org/TR/2004/REC-xml-names11-20040204/>~~ <http://www.w3.org/TR/2006/REC-xml-names-20060816>

#### Part 2, §3, “Normative References”, p. 3

~~XML Namespaces, Bray, Tim, Dave Hollander, Andrew Layman, and Richard Tobin (editors). *Namespaces in XML 1.0*. World Wide Web Consortium. 2006. <http://www.w3.org/TR/2006/REC-xml-names-20060816>~~

#### Part 3, §3, “Normative References”, p. 3

XML Namespaces, Bray, Tim, Dave Hollander, Andrew Layman, and Richard Tobin (editors). *Namespaces in XML 1.0*. World Wide Web Consortium. 2006~~4~~. ~~<http://www.w3.org/TR/2004/REC-xml-names11-20040204/>~~ <http://www.w3.org/TR/2006/REC-xml-names-20060816>

#### Part 4, §3, “Normative References”, p. 7

XML Namespaces, Bray, Tim, Dave Hollander, Andrew Layman, and Richard Tobin (editors). *Namespaces in XML 1.0*. World Wide Web Consortium. 2006~~4~~. ~~<http://www.w3.org/TR/2004/REC-xml-names11-20040204/>~~ <http://www.w3.org/TR/2006/REC-xml-names-20060816>

**DR-09-0200 — WML: mirrorMargins**

The proposed solution is incorrect as it fails to consider that in WordprocessingML, you can set page numbering arbitrarily and thus the flip might not always be on the even-numbered pages.

We will add a note to this effect.

Moved to Closed.

The exact changes are as follows:

**Part 1: §17.15.1.57, “mirrorMargins (Mirror Page Margins)”, p. 1170**

This element specifies that the left and right margins defined in the section properties shall be swapped on facing pages. [\[Note: Page numbering can be set arbitrarily, so the flip might not always be on the even-numbered pages. end note\]](#)

**DR-09-0225 — Part 4 should normatively reference Part 1**

Agreed with the proposal. Closed.

The exact changes are:

**Part 4: §1, “Scope”, p. 1**

[In general, this Part augments Part 1, and inherits the provisions of that Part. Exceptions to this are indicated explicitly.](#)

**Part 4: §3, “Normative References”, p. 5**

[ISO/IEC 29500-1:2008, Information technology — Document description and processing languages — Office Open XML File Formats, Part 1: Fundamentals and Markup Language Reference.](#)

**DR-09-0231 — SML, core: Raw value range**

Closed as proposed with the minus sign changed to “minus” to make it more readable.

The exact changes are:

**Part 1, §18.17.5.4, “Interpretation”, p. 2297**

Strings that are permitted according to the lexical definition in §18.17.5.3 shall be interpreted as values in the value space as follows:

4. If the [rawabsolute](#) value is larger than the largest value in the value space ( ~~$2^{1023}$  minus  $12^{971}$ , by default~~), or smaller than the smallest value in the value space ( ~~$-2^{1023} + 1$ , by default~~), then a consuming application shall treat this as equivalent to the error value #NUM! (\$xx). Otherwise, the value

in the value space that is closest to the raw value is chosen as the interpretation. In the case that two values are equally close, the one with the smaller absolute value is chosen.

**DR-09-0233 — SML, core: Shortcoming with Vallso**

After some discussion, it was agreed this wasn't ready for closure.

**DR-09-0236 — DML, effects: CT\_EffectReference's ref attribute should be required**

Closed as proposed. Put into AMD1.

**DR-09-0237 — DML, extensibility: CT\_OfficeArtExtension is defined incorrectly**

Closed as proposed. Put into AMD1.

**DR-09-0238 — DML, graphical objects: CT\_GraphicalObjectData's uri attribute should be required**

Closed as proposed. Put into AMD1.

**DR-09-0240 — DML, text: CT\_TextFont's typeface attribute should be required**

Closed as proposed.

**DR-09-0241 — PML, extensibility: CT\_Extension's uri attribute of should be required**

Closed as proposed. Put into AMD1.

**Action:** Project editor to correct the proposed schema changes shown in the DR log by pointing to the (correct) PresentationML subclauses instead of the (incorrect) SpreadsheetML subclauses.

**DR-09-0243 — PML, OLE Objects: CT\_OleObject description needs to be clarified**

The exact changes are as follows:

**Part 1, §19.3.2.4, "oleObj (Global Element for Embedded objects and Controls)", p. 2859:**

This element specifies a global element to be used for an Embedded object and Control.

[When the oleObject element contains a pic child element, the identifier specified by the pic/nvPicPr/cNvPr@id attribute shall be ignored and the identifier specified by the graphicFrame/nvGraphicFramePr/cNvPr@id attribute shall be used when deciding which identifier to use for the OLE object.](#)

Closed.

**DR-09-0245 — PML, extensibility: CT\_StringTag's name and val attributes should be required**

Closed as proposed. Put into AMD1.

**DR-09-0246 — WML, Tables: Definition of CT\_TblWidth does not allow absolute measurements**

Accepted as proposed (see below) and Closed.

The following changes will be made:

**Part 1, §17.4.88, “Table Measurement (CT\_TblWidth)”, p. 527:**

Attributes	Description
w (Table Width Value)	... The possible values for this attribute are defined by the <del>ST_DecimalNumberOrPercent</del> <a href="#">ST_MeasurementOrPercent</a> simple type (§17.18. <del>11</del> <a href="#">xx</a> ).

**Part 1, §17.18.xx, “ST\_MeasurementOrPercent (Measurement or Percentage Value)”, new subclause**

[This simple type specifies the possible values for a table measurement, which can be percentage-based or absolute. See the union’s member types for details.](#)

[This simple type is a union of the following types:](#)

[The ST\\_DecimalNumberOrPercent simple type \(§17.18.11\).](#)

[The ST\\_UniversalMeasure simple type \(§22.9.2.15\).](#)

**Referenced By**

[CT\\_TblWidth \(§17.4.88\)](#)

[\[Note: The W3C XML Schema definition of this simple type’s content model \(ST\\_MeasurementOrPercent\) is located in §xx. end note\]](#)

**Part 1, §A.1, “WordprocessingML”, p. 4385, lines 2143–2146:**

```
<xsd:simpleType name="ST_MeasurementOrPercent">
  <xsd:union memberTypes="ST_DecimalNumberOrPercent
s:ST_UniversalMeasure"/>
</xsd:simpleType>
<xsd:complexType name="CT_TblWidth">
  <xsd:attribute name="w"
type="ST_DecimalNumberOrPercentST_MeasurementOrPercent"/>
  <xsd:attribute name="type" type="ST_TblWidth"/>
</xsd:complexType>
```

**Part 1, §B.1, “WordprocessingML”, p. 4692, lines 1338–1340:**

<<Relax NG schema change description goes here>>

Part 4, §A.1, “WordprocessingML”, p. 853, lines 2214–2217:

```
<xsd:simpleType name="ST_MeasurementOrPercent">
  <xsd:union memberTypes="ST_DecimalNumberOrPercent
s:ST_UniversalMeasure"/>
</xsd:simpleType>
<xsd:complexType name="CT_TblWidth">
  <xsd:attribute name="w"
type="ST_DecimalNumberOrPercentST_MeasurementOrPercent"/>
  <xsd:attribute name="type" type="ST_TblWidth"/>
</xsd:complexType>
```

Part 4, §B.1, “WordprocessingML”, p. 1189, lines 1389–1391:

<<Relax NG schema change description goes here>>

**DR-09-0247 — WML, Tables: CT\_TblWidth does not specify how to handle conflicting properties**

Closed as proposed with the change of “incompatible” to “contradictory”. Put into AMD1.

The exact changes are as follows:

Part 1, §17.4.88, “Table Measurement (CT\_TblWidth)”, p. 527:

Attributes	Description
type (Table Width Type)	<p>...</p> <p><i>[Example: ... end example]</i></p> <p><u>If the value of the type attribute and the actual measurement specified by the w attribute are contradictory, the type specified by the type attribute shall be ignored.</u></p> <p>The possible values for this attribute are defined by the ST_TblWidth simple type (§xx).</p>

The following DRs were discussed as a group:

- DR-09-0250 — DML: alphaOff, val attribute
- DR-09-0251 — DML: green, val attribute
- DR-09-0252 — DML: greenMod, val attribute
- DR-09-0253 — DML: greenOff, val attribute
- DR-09-0254 — DML: lum, val attribute
- DR-09-0255 — DML: lumMod, val attribute
- DR-09-0256 — DML: lumOff, val attribute

DR-09-0257 — DML: red, val attribute  
DR-09-0258 — DML: redMod, val attribute  
DR-09-0259 — DML: redOff, val attribute  
DR-09-0260 — DML: sat, val attribute  
DR-09-0261 — DML: satMod, val attribute  
DR-09-0262 — DML: satOff, val attribute  
DR-09-0263 — DML: tint, val attribute  
DR-09-0264 — DML: blueMod, val attribute  
DR-09-0265 — DML: blueOff, val attribute  
DR-09-0266 — DML: shade, val attribute

Closed as proposed.

DR-09-0267 — General: Definition of OLE missing

Closed as proposed.

The exact changes are as follows:

**Part 1, §4, “Terms and Definitions”, p. 13:**

[OLE – OLE in this context does not refer to any specific technology; instead, it refers to the generalized abstraction of embedding and linking objects within a document.](#)

DR-09-0268 — Part 2 should normatively reference Part 3

Closed as proposed.

The exact changes are as follows:

**Part 2, §3, “Normative References”, p. 3**

[ISO/IEC 29500-3:2008, Information technology — Document description and processing languages — Office Open XML File Formats, Part 3: Markup Compatibility and Extensibility.](#)

**Defect Reports affected by the transitional/strict relationship**

DR-09-0248 — General: Removing the need for qualifiers on attributes in Strict

There was broad support for adopting the proposed solution. After some discussion, it was agreed that the solution involved changes to narrative, examples and schemas covering at least 800 pages spread through Parts 1 and 4. And qualified versions of some examples from Part 1 will need to be added to Part 4. The Project Editor estimated that the effort needed to implement this solution was on the order of that for all the other DR resolutions combined. Given the time available before the planned start of the ballots, members saw no way that such a big editing task and WG4 review can be accomplished. As such, resolution of this DR will be considered after the closure of the COR1 and AMD1 sets.



**DR-09-0274 — Part 4 support for serial values**

We discussed the following proposed text for clarifying serialized values for representing dates and times in SpreadsheetML in the transitional conformance class.

**[Part 4, §10.7, “Additional representation for dates and times \(Part 1, Section 18.17.4\)”](#)**

[For a document of a transitional conformance class, each unique instant in SpreadsheetML time shall be stored as an ISO 8601-formatted string or as a serial value.](#)

Initially, there was a move to adopt this solution. However, after further discussion, we agreed to leave this DR open, and to schedule an extra phone call (on 2009-07-16) to address this issue. **All submissions must be in writing and made no later than 72 hours before that call.**

## **6. Review of the schedule for DCOR1 and FPDAM1 set processing**

The proposed schedule for processing the COR1 set is as follows:

1. 2009-06-24: (End of the Copenhagen meeting) WG4 identifies the DRs to go into the COR1 set (with some members taking action items to provide final text to the editor for decisions made in Copenhagen).
2. 2009-07-03: WG4 members deliver to the editor all the text promised at the Copenhagen meeting.
3. 2009-07-12: Editor distributes the final text of the COR1 set to WG4 for review.
4. 2009-07-23: WG4 has a 2-hour phone meeting to report corrections and, hopefully, to approve the final text of the COR1 set. (If 2 hours is insufficient, see next item below.)
5. 2009-07-30: **[OPTIONAL]** WG4 has a 2-hour phone meeting to handle the overflow from the previous phone meeting.
6. 2009-08-01 (or 2009-08-08): A 3-month SC 34 letter ballot on each member of the COR1 set begins.
7. 2009-11-01 (or 2009-11-08): The 3-month SC 34 letter ballots on the COR1 set ends, with the results being issued within 24 hours.
8. 2009-11-03 (or 2009-11-10): For each COR in the COR1 set, if there are no NO votes and no comments, COR1 goes to ITTF for publication. If the general results of the ballot were positive, but some comments were received, the editor considers those comments making changes as appropriate, and COR1 goes to ITTF for publication. If the results of the ballot were not positive, the Secretariat instructs the WG4 Convener or Secretariat to distribute the results to WG4 for its consideration and the preparation of a recommendation on further action to be taken.
9. 2010-02-01: ITTF publishes all COR1 set members that were approved by letter ballot.

The proposed schedule for processing the AMD1 set is as follows:

1. 2009-06-24: (End of the Copenhagen meeting) WG4 identifies the DRs to go into the AMD1 set (with some members taking action items to provide final text to the editor for decisions made in Copenhagen).
2. 2009-07-03: WG4 members deliver to the editor all the text promised at the Copenhagen meeting.

3. 2009-07-12: Editor distributes the final text of the AMD1 set to WG4 for review.
4. 2009-07-23: WG4 has a 2-hour phone meeting to report corrections and, hopefully, to approve the final text of the AMD1 set. (If 2 hours is insufficient, see next item below.)
5. 2009-07-30: **[OPTIONAL]** WG4 has a 2-hour phone meeting to handle the overflow from the previous phone meeting.
6. 2009-08-01 (or 2009-08-08): A 4-month SC 34 letter ballot on each member of the AMD1 set begins.
7. 2009-12-01 (or 2009-12-08): The 4-month SC 34 letter ballots on the AMD1 set ends, with the results being issued within 24 hours.
8. 2009-12-01 through 2009-12-31: The comments from the FPDAM ballot are processed.
9. 2010-01-05: A 2-month joint ISO and IEC letter ballot on each member of the AMD1 set begins.
10. 2010-03-05: The 2-month joint ISO and IEC letter ballot on each member of the AMD1 set ends.
11. Only editorial corrections can be submitted with approval votes on the FDAM. No technical comments are processed in case of approval. (The FDAM is a confirmation ballot and there is no Ballot Resolution Meeting).
12. The final text of the amendment (now called an AMD) is published by ITTF.

## 7. Future meetings

### Face-to-Face Meetings:

The schedule is as follows:

1. 2009-09-13/16, Seattle, Washington, US, (in conjunction with the SC 34 plenary)
2. Week of 2009-11-30 to 2009-12-04 (probably 12/1–3), Paris, FR (in conjunction with WG1, WG5, and, possibly, Ad Hoc 3.)
3. 2010-03-22/25, Stockholm, SE (in conjunction with the SC 34 plenary)
4. 2010-06-14/18 (proposed; exact dates to be decided), Helsinki, FI
5. 2010-09-??/??, <city?>, ZA (in conjunction with the SC 34 plenary)
6. 2009-12-06/10 or 2009-12-13/17 (exact dates to be decided), tentative offer from CN

### Teleconferences:

The schedule is as follows:

1. 2009-07-16, 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]  
The purpose of this call is to discuss the DR regarding restoring support for serial dates to Part 4, submitted on the website as 08-00147. **All submissions must be in writing and made no later than 72 hours before that call.**
2. 2009-07-23, 13:00 GMT (vote out the Draft COR1 and AMD1 sets for ballot)
3. 2009-07-30, 13:00 GMT (optional overflow call if the previous call does not vote out the Draft COR1 and AMD1 sets for ballot)
4. 2009-08-13, 13:00 GMT
5. 2009-08-27, 13:00 GMT

**Action:** Murata-san will produce a document announcing these teleconferences.

## 8. Any other business

- a. Request from SC 24 regarding support for X3D: See the mail titled "SC 24 Standards in ODF Format" forwarded by Murata-san on 2009-06-16. This liaison statement came from SC 24 and has been distributed as SC34 N 1228. It is intended for ODF and will be considered by AHG3 (and OASIS). After some discussion of how 3D support could be accommodated in 29500, it was agreed that we not act on this, but, rather, wait to see if SC 24 actually asks us the same question with respect to 29500. If they do, we are ready to tell them how such support can be provided using the existing content part machinery (which was designed to provide implementers the ability to introduce new ML, like X3D, into conforming applications).
- b. Implementation of the email archive: SC 34 N 1208 reported that the letter ballot on requiring WGs to provide an email archive, passed. The resolution intentionally allows each WG to implement this as they see fit and are able. A number of members thought that the archive needed to be in real-time or close to that, but definitely not delayed by days. Members viewed the archive facility (provided by Ecma) currently available to committee members, and agreed a public version of that would be sufficient.  
**Action:** Rex will ask Ecma if it can provide public read-only access to the current mail archive.
- c. Demonstration of Assembla Issue tracking and schema maintenance: Murata-san demonstrated this system.  
**Action:** Dave will get legal review regarding our use of this site with respect to who owns the data, and so forth.  
**Action:** Rex and Murata-san will see if this system can be used to track schema changes.  
**Action:** Jesper will explore this system further as to its suitability for our work.
- d. Conformance Testing and Methodology: Alex presented some slides on this and answered questions. There was general support for his proposal, and he was encouraged to have GB submit a proposal for a new work item.  
**Action:** Alex will produce a final version of his presentation, which will be made a WG4 document.
- e. The relationship between "transitional" and "strict": Alex presented WG4 N 0057 on this and answered questions.  
Shawn gave a presentation regarding MS's Office 14 support for 29500.
- f. Review of action items: Rex read out the action items assigned during the meeting.
- g. Host facilities and support: By acclamation, WG4 expressed its appreciation to Pia, Maria, and DS for hosting this meeting of WG4.

## 9. Adjournment

Adjourned by unanimous consent at 16:50, Wednesday, June 24.