[Draft] Minutes of the Teleconference of

ISO/IEC JTC 1/SC 34/WG4, 2017-04-12

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2017-04-14

1. Opening remarks

The meeting started at 21:05 UTC. The convener, Murata-san, welcomed everyone to the 78th teleconference meeting of WG4.

2. Roll call of delegates

The following members were present during part or all of the meeting:

Name	Affiliation	Employer/Sponsor
Makoto Murata	WG4 Convener, JP	International University of Japan
Rex Jaeschke	Ecma, Project Editor	Consultant
Caroline Arms	Ecma	Library of Congress
Aarti Nankani	Ecma	Microsoft
Francis Cave	GB	Francis Cave Digital Publishing

Present were 5 people, from 2 NBs and 1 liaison.

3. Adoption of the agenda [SC 34 N 2376, also SC 34/WG4 N 0376]

The agenda was adopted, as distributed.

4. Administration

Approval of Previous Meeting Minutes [WG4 N 0375]

The draft minutes were approved, as circulated.

Outstanding Action Items

- Murata-san to address the editorial issues raised by ITTF re the DIS 30114-2 specification. **Pending**

Report from the WG4 Secretariat

Various NBs and liaisons have registered delegates to WG4. All requests for additions, deletions, and changes to the delegate list should be done via LiveLink, with mail to the WG4 Secretariat (rex@RexJaeschke.com), so the corresponding changes can be made to the WG4 email list.

The WG4 email list is e-SC34-WG4@ecma-international.org. The document repository is now at http://isotc.iso.org/livelink/livelink?func=ll&objid=8912947&objaction=ndocslist.

5. Defect Reports

The public, online DR log is at

https://onedrive.live.com/?cid=c8ba0861dc5e4adc&sc=documents&id=C8BA0861DC5E4ADC%21105. Access individual DRs via the hyperlinks contained within the spreadsheet's left-most column.

DR 14-0013 "SML: definedName attribute localSheetId"

Adopted MS's revised proposal from 2017-04-11 with the following changes:

1. Change "… within the CT_Sheets element …" to "… within the sheets element …".
2. Change "[Note: Although not a typical use case, a name scoped to one particular sheet may refer to a cell reference in another. End note]" to [*Note*: Although the example above is not a typical use case, a name scoped to one particular sheet may refer to a cell reference in another. *end note*]
3. Change "0-based" to "zero-based".

Have Charlie review this before we close it in COR4.

The revised proposal then is, as follows:

Part 1: §18.2.5, "definedName (Defined Name)", pp. 1,555–1,556, attribute localSheetId

Attributes	Description
localSheetId (Local Name Sheet Id)	Specifies that this defined name is a sheet-scoped reference, and specifies the a parent sheet index in this workbook where data from an external reference is displayed. The localSheetId specifies the zero-based index of the parent sheet within the sheets

Attributes	Description

	element. The combination of localSheetId and name attributes shall be unique among all defined names.
	
	[*Example*: ~~In the following example, the~~A defined name, ~~local~~ scoped to the sheet ~~with sheetIdID 1 equal to 2~~upon which it resides, with its accompanying sheet definition~~, refers to a range whose data source is an external database called "Northwind_Database"~~:
	
	   `<definedName name="Northwind_Data`~~`base`~~`"`
	    `localSheetId="2">Sheet5!$A$1:$T$47</definedName>`
	…
	
	  `<sheets>`
	   `<sheet name="Sheet1" sheetId="2" r:id="rId1"/>`
	   `<sheet name="Sheet4" sheetId="0" r:id="rId2"/>`
	   `<sheet name="Sheet5" sheetId="1" r:id="rId3"/>`
	  `</sheets>`
	
	end example]
	
	[*Note*: Although the example above is not a typical use case, a name scoped to one particular sheet may refer to a cell reference in another. *end note*]
	
	For further information on local defined names, see §L.2.2.11.
	
	The possible values for this attribute are defined by the W3C XML Schema unsignedInt datatype.

DR 15-0023 "SML: Comments"

Here are the initial questions, and our responses:

Question 1: Is it essential to use a VML file in order to do this? If so, shouldn't this be explained in the specification?

Response 1: Excel only supports this through VML. The committee declined to consider adding support for comment drawings in Strict mode.

Question 2: The comment element has an attribute guid which the narrative says is "Unique identifier for this comment. The attribute is required and shall be unique across all comments in shared workbooks."

Response 2: The commenter correctly interprets the spec and MS's behavior. In non-shared workbooks, the value is not required. We agreed to state this clearly by making the following change:

Part 1: §18.7.3, "comment (Comment)", attribute guid, p. 1747

Attributes	Description
guid (Unique Identifier for Comment)	Unique identifier for this comment. In shared workbooks, ~~T~~the attribute is required and its value shall be unique across all comments ~~in shared workbooks~~. The possible values for this attribute are defined by the ST_Guid simple type (§22.9.2.4).

Question 3: "The narrative specification also mentions the uiObject attribute: "Specifies whether the object is a UI Object." This attribute is missing entirely from the schema.

Response 3: The commenter has correctly identified a gap in the standard. Here are the corrections:

Part 1: §A.2, "SpreadsheetML", p. 3876, Lines 291–307

```
<xsd:complexType name="CT_CommentPr">
  …
  <xsd:attribute name="autoScale" type="xsd:boolean" use="optional"
    default="false"/>
  <xsd:attribute name="uiObject" type="xsd:boolean" use="optional"
    default="false"/>
</xsd:complexType>
```

Part 1: §B.2, "SpreadsheetML", p. 4183, Lines 246–281

```
sml_CT_CommentPr =
…
## default value: false
attribute autoScale { xsd:boolean }?,
## default value: false
attribute uiObject { xsd:boolean }?,
```

```
element anchor { sml_CT_ObjectAnchor }
```

Part 4: §A.2, "SpreadsheetML", p. 940, Lines 299–314

```
<xsd:complexType name="CT_CommentPr">
  …
  <xsd:attribute name="autoScale" type="xsd:boolean" use="optional"
    default="false"/>
  <xsd:attribute name="uiObject" type="xsd:boolean" use="optional"
    default="false"/>
</xsd:complexType>
```

Part 4: §B.2, "SpreadsheetML", pp. 1279–1280, Lines 248–283

```
sml_CT_CommentPr =
…
## default value: false
attribute autoScale { xsd:boolean }?,
## default value: false
attribute uiObject { xsd:boolean }?,


element anchor { sml_CT_ObjectAnchor }
```

Closed in COR4.

DR 16-0003 "SML: Compatibility of extended properties"

After some discussion, we agreed to close this DR without action.

DR 16-0012 "WML: Examples containing Arabic"

Re the example on p. 300, as it stands, it is incorrect. If the example is worth keeping, we need to fix it; otherwise, we can get rid of it. There was general agreement that the other examples are sufficient, and that this one should be omitted. Aarti will ask her experts if we can safely remove this example without losing any intent.

DR 16-0013 "SML: colBreaks and rowBreaks Examples"

We agreed with the proposal from 2017-04-11, which is formalized below:

Part 1, §18.3.1.3, "brk (Break)", p. 1592

A row or column break to use when paginating a worksheet. [*Note*: See §18.18.69 for more information on worksheet views. *end note*]

Row breaks (§18.3.1.74) can occur at specific rows, and column breaks (§18.3.1.14) can occur at specific columns. These two constructs are independent of each other.

Part 1, §18.3.1.14, "colBreaks (Vertical Page Breaks)", p. 1602

[*Example*:

In this example, a page break has been inserted at column C~~C3~~ (the break occurs left of column C~~and above C3~~).

```
<colBreaks count="1" manualBreakCount="1">
  <brk id="2" max="1048575" man="1"/>
</colBreaks>
```
end example]

Part 1, §18.3.1.74, "rowBreaks (Horizontal Page Breaks (Row))", p. 1681

[*Example*: This example shows a break inserted at row 25~~cell B25~~ (the break occurs above row 25):

```
<rowBreaks count="1" manualBreakCount="1">
  <brk id="24" max="16383" man="1"/>
</rowBreaks>
```
end example]

Closed in COR4.

DR 16-0014 "WML: RSID Issues"

A new question for the MS experts: Are the rsid elements within an rsids element assumed to be chronological?

DR 16-0016 "SML: Named Styles"

Improved Rex's proposed words, as follows:

Every CellStyle shall have an xfId connecting it to a CellStyleXfs. [*Note*: CellStyles and CellStyleXfs need not have a 1:1 relationship. *end note*]

Closed in COR4.

 DR 16-0023 "SML: CT_FileSharing attribute userName"

Agreed to make it explicit that the attribute is optional.

Closed in COR4.

Part 1: §A.2, "SpreadsheetML", p. 3953, lines 4379–4386

```
<xsd:complexType name="CT_FileSharing">

   …

   <xsd:attribute name="userName" type="s:ST_Xstring" use="optional"/>

   …

</xsd:complexType>
```

Part 4: §A.2, "SpreadsheetML", p. 1017, lines 4407–4415

```
<xsd:complexType name="CT_FileSharing">

   …

   <xsd:attribute name="userName" type="s:ST_Xstring" use="optional"/>

   …

</xsd:complexType>
```

No changes needed for the RelaxNG schema.

DR 17-0006 "SML: various attributes missing from the schema"

Commit #1: Agreed to adopt Murata-san's schema edits, but perhaps with a better name [CT_HFText agreed to on 2017-04-13] for the new complex type; he'll also write up some prose.

Part 1: §A.2, "SpreadsheetML", p. 3925, lines 2878–2891

```
<xsd:complexType name="CT_HeaderFooter">
  <xsd:sequence>
    <xsd:element name="oddHeader" type="s:ST_XstringCT_HFText" minOccurs="0"
maxOccurs="1"/>
    <xsd:element name="oddFooter" type="s:ST_XstringCT_HFText" minOccurs="0"
maxOccurs="1"/>
    <xsd:element name="evenHeader" type="s:ST_XstringCT_HFText" minOccurs="0"
maxOccurs="1"/>
    <xsd:element name="evenFooter" type="s:ST_XstringCT_HFText" minOccurs="0"
maxOccurs="1"/>
    <xsd:element name="firstHeader" type="s:ST_XstringCT_HFText" minOccurs="0"
maxOccurs="1"/>
    <xsd:element name="firstFooter" type="s:ST_XstringCT_HFText" minOccurs="0"
maxOccurs="1"/>
  </xsd:sequence>
  …
</xsd:complexType>
<xsd:complexType name="CT_HFText">
  <xsd:simpleContent>
    <xsd:extension base="s:ST_String">
      <xsd:attribute ref="xml:space" use="optional"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
<xsd:simpleType name="ST_PrintError">
```

Part 1: §B.2, "SpreadsheetML", p. 4238, lines 3166–3184

```
sml_CT_HeaderFooter =
…
## default value: true
```

```
attribute alignWithMargins { xsd:boolean }?,

element oddHeader { s_ST_Xstringsml_CT_HFText }?,

element oddFooter { s_ST_Xstringsml_CT_HFText }?,

element evenHeader { s_ST_Xstringsml_CT_HFText }?,

element evenFooter { s_ST_Xstringsml_CT_HFText }?,

element firstHeader { s_ST_Xstringsml_CT_HFText }?,

element firstFooter { s_ST_Xstringsml_CT_HFText }?

sml_CT_HFText =

  s_ST_String,

  xml_space?

sml_ST_PrintError =
```

Part 4: §A.2, "SpreadsheetML", p. 989, lines 2898–2911

```
<xsd:complexType name="CT_HeaderFooter">

  <xsd:sequence>

    <xsd:element name="oddHeader" type="s:ST_XstringCT_HFText" minOccurs="0"
maxOccurs="1"/>

    <xsd:element name="oddFooter" type="s:ST_XstringCT_HFText" minOccurs="0"
maxOccurs="1"/>

    <xsd:element name="evenHeader" type="s:ST_XstringCT_HFText" minOccurs="0"
maxOccurs="1"/>

    <xsd:element name="evenFooter" type="s:ST_XstringCT_HFText" minOccurs="0"
maxOccurs="1"/>

    <xsd:element name="firstHeader" type="s:ST_XstringCT_HFText" minOccurs="0"
maxOccurs="1"/>

    <xsd:element name="firstFooter" type="s:ST_XstringCT_HFText" minOccurs="0"
maxOccurs="1"/>

  </xsd:sequence>

  …

</xsd:complexType>

<xsd:complexType name="CT_HFText">
```

```
  <xsd:simpleContent>
    <xsd:extension base="s:ST_String">
      <xsd:attribute ref="xml:space" use="optional"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
<xsd:simpleType name="ST_PrintError">
```

Part 4: §B.2, "SpreadsheetML", pp. 1334–1335, lines 3182–3200

```
sml_CT_HeaderFooter =

…

## default value: true

attribute alignWithMargins { xsd:boolean }?,

element oddHeader { s_ST_Xstringsml_CT_HeaderOrFooter }?,

element oddFooter { s_ST_Xstringsml_CT_HeaderOrFooter }?,

element evenHeader { s_ST_Xstringsml_CT_HeaderOrFooter }?,

element evenFooter { s_ST_Xstringsml_CT_HeaderOrFooter }?,

element firstHeader { s_ST_Xstringsml_CT_HeaderOrFooter }?,

element firstFooter { s_ST_Xstringsml_CT_HeaderOrFooter }?

sml_CT_HeaderOrFooter =

  s_ST_String,

  xml_space?

sml_ST_PrintError =
```

Commit #2: Murata-san has a proposal, but ==MS experts need to look at the addition of the XML:space attribute== as the type is shared by another element, totalsRowFormula, in §18.5.1.6. Must this attribute be added there?

Part 1: §A.2, "SpreadsheetML", p. 3925, lines 2878–2891

```
<xsd:complexType name="CT_TableFormula">

  <xsd:simpleContent>

    <xsd:extension base="ST_Formula">
```

```
      <xsd:attribute name="array" type="xsd:boolean" default="false"/>

       <xsd:attribute ref="xml:space" use="optional"/>

     </xsd:extension>

  </xsd:simpleContent>

</xsd:complexType>
```

[Ed. Other 3 schema edits to be added later.]

Commit #3: We believe that xml:space is optional, as other occurrences of this attributes are optional.

Part 1: §A.2, "SpreadsheetML", p. 3923, lines 2778–2789

```
<xsd:complexType name="CT_CellFormula">

  <xsd:simpleContent>

    <xsd:extension base="ST_Formula">

      …

      <xsd:attribute name="bx" type="xsd:boolean" use="optional" default="false"/>

       <xsd:attribute ref="xml:space" use="optional"/>

    </xsd:extension>

  </xsd:simpleContent>

</xsd:complexType>
```

[Ed. Other 3 schema edits to be added later.]

Commit #4: We believe that xml:space is optional, as other occurrences of this attributes are optional.

Part 1: §A.2, "SpreadsheetML", p. 3917, lines 2454–2464

```
<xsd:complexType name="CT_DataConsolidate">

  …

  <xsd:attribute name="link" type="xsd:boolean" use="optional" default="false"/>

   <xsd:attribute ref="xml:space" use="optional"/>

</xsd:complexType>
```

[Ed. Other 3 schema edits to be added later.]

Commit #5: Need MS experts' review: Is this attribute optional, and the default value is 0?

Part 1: §A.2, "SpreadsheetML", p. 3875, lines 230–237

```
<xsd:complexType name="CT_ObjectAnchor">

  …

  <xsd:attribute name="sizeWithCells" type="xsd:boolean" use="optional"
default="false"/>

  <xsd:attribute name="z-order" type="xsd:unsignedInt" use="optional" default="0"/>

</xsd:complexType>
```

[Ed. Other 3 schema edits to be added later.]

Commit #6: xml:space is optional

Part 1: §A.2, "SpreadsheetML", pp. 3952–3953, lines 4335–4357

```
<xsd:complexType name="CT_DefinedName">

  <xsd:simpleContent>

    <xsd:extension base="ST_Formula">

      …

      <xsd:attribute name="workbookParameter" type="xsd:boolean" use="optional"
default="false"/>

      <xsd:attribute ref="xml:space" use="optional"/>

    </xsd:extension>

  </xsd:simpleContent>

</xsd:complexType>
```

[Ed. Other 3 schema edits to be added later.]

Commit #7: Need MS experts' review: Are @rowHidden and @colHidden optional, and with a default value of false.

Part 1: §A.2, "SpreadsheetML", p. 3876, lines 291–307

```
<xsd:complexType name="CT_CommentPr">

  …
```

```
  <xsd:attribute name="autoScale" type="xsd:boolean" use="optional"
default="false"/>
  <xsd:attribute name="colHidden" type="xsd:boolean" use="optional"
default="false"/>
  <xsd:attribute name="rowHidden" type="xsd:boolean" use="optional"
default="false"/>
  <xsd:attribute name="uiObject" type="xsd:boolean" use="optional"
default="false"/>
</xsd:complexType>
```

[Ed. Other 3 schema edits to be added later.]

Commit #8: [originally from DR 15-0023] See Commit #7.

DR 17-0011 "Shared ML: Problem with ST_OnOff"

Assigned to Murata-san to write up the proposed resolution based on his and Francis' input.

6. Other Business

Thanks

We thanked Aarti Nankani and Microsoft for hosting this teleconference.

7. Future meetings

Face-to-Face Meetings:

- 2017-06-19/23 Tokyo, JP (with other WGs, and Opening/Closing Plenaries)
  See SC 34 N 2368, "Logistics", and N 2369, "Plenary Meeting Announcement and Agenda"
  In Tokyo, we'll decide whether to have 2 or 3 F2F meetings in 2018
- 2017-11-14/16, Geneva, CH (WG4, possibly other WGs)
- 2018-03-5/9 tentative, in Europe (WG4, possibly with other WGs)
- 2018-06-4/8 tentative, in Europe (WG4, possibly with other WGs)
- 2018-09-10/14 Seattle, US (with other WGs, and Opening/Closing Plenaries)

Teleconferences:

- 2017-05-17 (Wed/Thu), 21:00 GMT (US/PT 14:00, GB 22:00, DE/DK/FR/CZ 23:00, JP 06:00)

8. Adjournment

Adjourned by unanimous consent at 22:35.