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Draft 2, 2009-07-16

Information technology — Document description and processing languages — Office Open XML File Formats —

Part 4: Transitional Migration Features

TECHNICAL CORRIGENDUM 1

Technologies de l'information — Description des documents et langages de traitement — Formats de fichier "Office Open XML" —

Partie 4: ...

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO/IEC 29500-4:2008 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 34, *Document description and processing languages*.

It contains corrections that resolve various Defect Reports submitted against ISO/IEC 29500-4:2008.

A correction can involve changes to one or more clauses or subclauses; it can even apply to multiple Parts of ISO/IEC 29500. For changes to ISO/IEC 29500-4:2008, each such change has its own entry below.

Changes are presented in ascending clause, subclause, and page number order.

ISO/IEC 29500-4:2008/Cor.1:2009(E)**Notational conventions**

The title of each change is the complete reference to the clause or subclause being corrected. In all cases, the title begins with the clause or subclause number, the clause or subclause name, and the page number. In those cases containing changes to a particular row of a table, the value in that row's first column is appended to the title. As the lines in each XML schema subclause are numbered starting at 1 and going to the end of a schema, corrections to schemas also contain the numbers of the lines being corrected.

A change can contain any one or more of the following kinds of edits:

1. Addition of text: New text is displayed in blue and is underlined, as demonstrated here.
2. Deletion of text: ~~Deleted text is displayed in red and is struck-through, as demonstrated here.~~
3. Change of format of text: Text whose format (but not its content) has changed is displayed in green and is double-underlined, as demonstrated here.

Many changes involve edits to large paragraphs, tables, and/or XML fragments. In such cases, the changes contain only as much unchanged content as is necessary to establish the correct context of each change. Omitted content is identified via the use of ellipses (...).

Within a change, intent that cannot be represented visually as an edit is written as an instruction in italic and delimited by curly brackets; for example: *{In paragraph 2, item 4, and in paragraph 4, make the numbers in the text "17–23" hyperlinked forward references to Clauses 17 and 23.}*

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Introduction (For WG4 use only; will be removed from the final COR)

This Technical Corrigendum contains corrections that resolve various Defect Reports submitted against ISO/IEC 29500-4:2008.

A correction can involve changes to one or more clause or subclauses; it can even apply to multiple Parts of ISO/IEC 29500. For changes to Part 4, each such change has its own entry below, and the number of the Defect Report that lead to any particular change is written immediately following that change's title, in the form "[DR 99-9999]". (This information is for the use of committee ISO/IEC SC 34/WG4 only, and will be removed from the final COR. However, a committee-private version containing the DR numbers will be made available for tracking purposes.)

Changes are presented in ascending clause, subclause, and page number order.

Changes

1. §1, “Scope”, p. 1

[DR 09-0225]

In general, this Part augments Part 1, and inherits the provisions of that Part. Exceptions to this are indicated explicitly.

2. §1, “Scope”, p. 1

...

[DR 09-0192]

The features described in this Part shall only be used by documents of conformance class WML Transitional (§2.1), SML Transitional (§2.1), or PML Transitional (§2.1). These features are sometimes needed for high-quality migration of existing binary documents to ISO/IEC 29500.

The intent of this Part is to enable a transitional period during which existing binary documents being migrated to ISO/IEC 29500 can make use of legacy features to preserve their fidelity, while noting that new documents should not use them. Part 1, §2.4, “Document Conformance”, states that WML Strict, SML Strict and PML Strict documents shall not use any of the features defined in Part 4.

This Part is normative for the current edition of ISO/IEC 29500, but is not guaranteed to be included in future revisions of that Standard. The intent is to enable the group responsible for maintenance of ISO/IEC 29500 to choose, at a later date, to remove this set of features from a revised version of that Standard.

3. §3, “Normative References”, p. 4

[DR 09-0031]

ISO/IEC 10646:~~2003~~, *Information technology — Universal Multiple-Octet Coded Character Set (UCS)*.

4. §3, “Normative References”, p. 5

[DR 09-0225]

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

5. §3, “Normative References”, p. 6

[DR 09-0031]

The Unicode Consortium. *The Unicode Standard, Version 5.0, defined by: The Unicode Standard, Version xx5.0 (Reading, MA, Addison-Wesley, 2006. ISBN 0-321-48091-0)*, <http://www.unicode.org/unicode/standard>.

6. §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.¹ World Wide Web Consortium. 2006. <http://www.w3.org/TR/2006/REC-xml-20060816/>

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

7. §3, “Normative References”, p. 7

[DR 09-0170]

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>

8. §5, “Notational Conventions”, p. 10

[DR 09-0082]

The following typographical conventions are used in ISO/IEC 29500:

- The first occurrence of a new term is written in italics, ~~as in “normative”~~. [\[Example: The text in ISO/IEC 29500 is divided into normative and informative categories. end example\]](#)
- In each definition of a term in §4 (Terms and Definitions), the term is written in bold, ~~as in “behavior”~~. [\[Example: behavior — External appearance or action. end example\]](#)
- The tag name of an XML element is written using an Element style, ~~as in “document”~~. [\[Example: The bookmarkStart and bookmarkEnd elements specify ... end example\]](#)
- The name of an XML attribute is written using an Attribute style, ~~as in “id”~~. [\[Example: The dropCap attribute specifies ... end example\]](#)
- The value of an XML attribute is written using a constant-width style, ~~as in “CommentReference”~~. [\[Example: The attribute value of auto specifies ... end example\]](#)
- The qualified or unqualified name of a simple type, complex type, or base datatype is written using a Type style, ~~as in “xsd:anyURI”~~. [\[Example: The possible values for this attribute are defined by the ST HexColor simple type. end example\]](#)

9. §9.9.4.8, “QUOTE”, p. 165, new subclause

[DR 09-0087]

[9.9.4.8 QUOTE](#)

This field retrieves the text specified by *text* in *field-argument*. In strict conformance mode, this text may include any other fields except SYMBOL. However, in transitional conformance mode, this text may include any other fields except AUTONUM, AUTONUMLGL, AUTONUMOUT, and SYMBOL.

10. §9.10.9, “Additional enumeration values for ST_NumberFormat (Part 1, §17.18.59), new subclause

[DR 09-0092]

Enumeration Value	Description
decimalFullWidth2 (Full Width Arabic Numerals Alternate)	<p>Specifies that the sequence shall consist of a set of full-width Arabic numbering.</p> <p>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.</p> <p>The set of characters used by this numbering format for values 0–9 is U+FF10–U+FF19, respectively.</p> <p>For values greater than the size of the set, the number is constructed by following these steps:</p> <ol style="list-style-type: none"> 1. Divide the value by 10 and write the symbol which represents the remainder. 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. 3. Repeat step 2 until the remaining value is equal to zero. <p>[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]</p>

11. §9.10.10, “Additional member types for the union in ST_TextScale (Part 1, §17.18.95)”, new subclause

[DR 09-0202]

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- [The ST_TextScaleDecimal simple type \(§9.10.11\).](#)

12. §9.10.11, “ST_TextScaleDecimal (Text Expansion/Compression Percentage)”, new subclause

[DR 09-0202]

This simple type specifies that the percentage by which the contents of a run shall be expanded or compressed with respect to its normal (100%) character width, with a minimum width of 1% and maximum width of 600%.

[Example: Consider a run of text which must be expanded to 300% when displaying each character within the contents of the run. This constraint is specified using the following WordprocessingML:

```
<w:rPr>
  <w:w w:val="300"/>
</w:rPr>
```

This run explicitly declares that the w value is 300, so the contents of this run appear at 300% of their normal character width by expanding the width of each character. end example]

This simple type's contents are a restriction of the W3C XML Schema integer datatype.

This simple type also specifies the following restrictions:

- This simple type has a minimum value of greater than or equal to 0.
- This simple type has a maximum value of less than or equal to 600.

Referenced By
ST TextScale (§17.18.95)

13. §10.3.2, “Additional attributes for dynamicFilter element (Part 1, §18.3.2.5)”, p. 183–184

[DR 09-0233]

10.3.2 ~~Additional attributes~~ Attributes with modified descriptions for dynamicFilter element (Part 1, §18.3.2.5)

The following ~~additional~~ attributes have modified descriptions when can be specified for a document of a transitional conformance class:

Attributes	Description
maxVal (Max Value)	... These types of dynamic filters shall use val/ valIso and shall not use maxVal/maxValIso: aboveAverage and belowAverage. ...

Attributes	Description
val (Value)	<p>A minimum numeric or serial date value for dynamic filter. (See description of valIso to understand when val is required.)</p> <p>If valIso and val are both present, valIso shall take precedence.</p> <p>The possible values for this attribute are defined by the W3C XML Schema double datatype.</p>
valIso (ISO Value)	<p>A minimum date value for dynamic filter. (See description of maxVal/maxValIso to understand when val/valIso is required.)</p> <p>The possible values for this attribute are defined by the W3C XML Schema dateTime datatype.</p>

14. §10.7, “Additional representation for dates and times (Part 1, Section 18.17.4)”

[DR 09-0274]

[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.](#)

15. §10.8, “Formulas”, p. 186, new subclause

[DR 09-0016]

16. §10.8.1, “Attribute synonym for c element (Part 1, §18.6.1)”, new subclause

[DR 09-0016]

[The following additional attribute can be specified for a document of a transitional conformance class:](#)

<u>Attributes</u>	<u>Description</u>
ref (Cell Reference)	<p>An A-1 style reference to a cell.</p> <p>The possible values for this attribute are defined by the ST_CellRef simple type (Part 1, §18.18.7).</p>

[This attribute is semantically equivalent to r \(Part 1, §18.6.1\).](#)

[Only one or the other of r and ref can be defined in any given instance.](#)

17. §12.1.2.2, “Additional member types for the union in ST_Percentage (Part 1, §20.1.10.40)”, pp. 199–200

[DR 08-0001]

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST_PercentageDecimal simple type (~~Part 1, §20.1.10.41~~[Part 4, §12.1.2.12](#)).

18. §12.1.2.12, “ST_PercentageDecimal (Percentage as Decimal Number)”, new subclause

[DR 08-0001]

[This simple type represents a percentage in 1000ths of a percent, e.g., a value of 1 represents 0.001% == 0.00001; a value of 100000 is equal to 100%. Percentages have no intrinsic units, but are used to scale other values with units.](#)

[This simple type's contents are a restriction of the W3C XML Schema int datatype.](#)

<u>Referenced By</u>
<u>ST_Percentage (Part 1, §20.1.10.40)</u>

[\[Note: The W3C XML Schema definition of this simple type’s content model \(ST_PercentageDecimal\) is located in §A.4.1. end note\]](#)

19. §12.1.2.13, “Additional member types for the union in ST_PrSetCustVal (Part 1, §21.4.7.66)”, new subclause

[DR 08-0004]

[The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.](#)

- [The W3C XML Schema int datatype.](#)

20. §12.1.2.14, “ST_TextBulletSizeDecimal (Bullet Size Percentage)”, new subclause

[DR 08-0007]

This simple type specifies the range that the bullet percent can be. A bullet percent is the size of the bullet with respect to the text that should follow it. 25000 = 25%, 400000 = 400%

This simple type's contents are a restriction of the ST_PercentageDecimal datatype (Part 4, §12.1.2.12).

This simple type also specifies the following restrictions:

- This simple type has a minimum value of greater than or equal to 25000.
- This simple type has a maximum value of less than or equal to 400000.

<u>Referenced By</u>
ST_TextBulletSize (Part 1, §20.1.10.86)

[Note: The W3C XML Schema definition of this simple type's content model (ST_TextBulletSizeDecimal) is located in §A.4.1. end note]

21. §12.1.2.15, “Additional member types for the union in ST_TextBulletSize (Part 1, §20.1.10.86)”, new subclause

[DR 08-0007]

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST_TextBulletSizeDecimal simple type (Part 4, §12.1.2.14).

22. §13.1.3, “Simple Types”, new subclause

[DR 09-0033]

23. §13.1.3.1, “Additional member types for union in ST_DepthPercent”, new subclause

[DR 09-0033]

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST_DepthPercentUShort simple type (§13.1.3.2).

24. §13.1.3.2, “ST_DepthPercentUShort (Depth Percent UnsignedShort) (Part 1, §21.2.3.9)”, new subclause

[DR 09-0033]

[This simple type specifies that its contents contain a whole number between 20 and 2000, whose contents are a percentage.](#)

[This simple type's contents are a restriction of the W3C XML Schema unsignedShort datatype.](#)

[This simple type also specifies the following restrictions:](#)

- [This simple type has a minimum value of greater than or equal to 20.](#)
- [This simple type has a maximum value of less than or equal to 2000.](#)

Referenced By
ST_DepthPercent (Part 1, §21.2.3.9)

25. §13.1.3.3, “Additional member types for union in ST_HPercent (Part 1, §21.2.3.19)”, new subclause

[DR 09-0033]

[The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.](#)

- [The ST_HPercentUShort simple type \(§13.1.3.4\).](#)

26. §13.1.3.4, “ST_HPercentUShort (Depth Percent UnsignedShort)”, new subclause

[DR 09-0033]

[This simple type specifies that its contents contain a whole number between 5 and 500, whose contents are a percentage.](#)

[This simple type's contents are a restriction of the W3C XML Schema unsignedShort datatype.](#)

[This simple type also specifies the following restrictions:](#)

- [This simple type has a minimum value of greater than or equal to 5.](#)
- [This simple type has a maximum value of less than or equal to 500.](#)

Referenced By
ST_HPercent (Part 1, §21.2.3.19)

27. §13.1.3.5, “Additional member types for union in ST_GapAmount (Part 1, §21.2.3.16)”, new subclause

[DR 09-0203]

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST_GapAmountUShort simple type (§13.1.3.6).

28. §13.1.3.6, “ST_GapAmountUShort (Gap Amount UnsignedShort)”, new subclause

[DR 09-0203]

This simple type specifies that its contents contain a whole number between 0 and 500, whose contents are a percentage.

This simple type's contents are a restriction of the W3C XML Schema unsignedShort datatype.

This simple type also specifies the following restrictions:

- This simple type has a minimum value of greater than or equal to 0.
- This simple type has a maximum value of less than or equal to 500.

<u>Referenced By</u>
ST_GapAmount (Part 1, §21.2.3.16)

29. §13.1.3.7, “Additional member types for union in ST_Perspective (Part 1, §21.2.3.34)”, new subclause

[DR 09-0203]

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST_PerspectiveUByte simple type (§13.1.3.8).

30. §13.1.3.8, “ST_PerspectiveUByte (Perspective UnsignedByte)”, new subclause

[DR 09-0203]

This simple type specifies that its contents contain a whole number between 0 and 240, whose contents are a percentage.

This simple type's contents are a restriction of the W3C XML Schema unsignedByte datatype.

This simple type also specifies the following restrictions:

- This simple type has a minimum value of greater than or equal to 0.
- This simple type has a maximum value of less than or equal to 240.

<u>Referenced By</u>
ST Perspective (Part 1, §21.2.3.34)

31. §13.1.3.9, “Additional member types for union in ST_SecondPieSize (Part 1, §21.2.3.41)”, new subclause

[DR 09-0203]

[The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.](#)

- [The ST_SecondPieSizeUShort simple type \(§13.1.3.10\).](#)

32. §13.1.3.10, “ST_SecondPieSizeUShort (Second Pie Size UnsignedShort)”, new subclause

[DR 09-0203]

[This simple type specifies that its contents contain a whole number between 5 and 200, whose contents are a percentage.](#)

[This simple type's contents are a restriction of the W3C XML Schema unsignedShort datatype.](#)

[This simple type also specifies the following restrictions:](#)

- [This simple type has a minimum value of greater than or equal to 5.](#)
- [This simple type has a maximum value of less than or equal to 200.](#)

<u>Referenced By</u>
ST_SecondPieSize (Part 1, §21.2.3.41)

33. §13.1.3.11, “Additional member types for union in ST_HoleSize (Part 1, §21.2.3.18)”, new subclause

[DR 09-0203]

[The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.](#)

- [The ST_HoleSizeUByte simple type \(§13.1.3.12\).](#)

34. §13.1.3.12, “ST_HoleSizeUByte (Hole Size UnsignedByte)”, new subclause

[DR 09-0203]

[This simple type specifies that its contents contain a whole number between 10 and 90, whose contents are a percentage.](#)

[This simple type's contents are a restriction of the W3C XML Schema unsignedByte datatype.](#)

[This simple type also specifies the following restrictions:](#)

- [This simple type has a minimum value of greater than or equal to 10.](#)
- [This simple type has a maximum value of less than or equal to 90.](#)

Referenced By
ST HoleSize (Part 1, §21.2.3.18)

35. §13.1.3.13, “Additional member types for union in ST_LblOffset (Part 1, §21.2.3.23)”, new subclause

[DR 09-0203]

[The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.](#)

- [The ST_LblOffsetUShort simple type \(§13.1.3.14\).](#)

36. §13.1.3.14, “ST_LblOffsetUShort (Label Offset UnsignedShort)”, new subclause

[DR 09-0203]

[This simple type specifies that its contents contain a whole number between 0 and 1000, whose contents are a percentage.](#)

[This simple type's contents are a restriction of the W3C XML Schema unsignedShort datatype.](#)

[This simple type also specifies the following restrictions:](#)

- [This simple type has a minimum value of greater than or equal to 0.](#)
- [This simple type has a maximum value of less than or equal to 1000.](#)

Referenced By
ST_LblOffset (Part 1, §21.2.3.23)

37. §13.1.3.15, “Additional member types for union in ST_Overlap (Part 1, §21.2.3.31)”, new subclause

[DR 09-0203]

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST_OverlapByte simple type (§13.1.3.16).

38. §13.1.3.16, “ST_OverlapByte (Overlap Byte)”, new subclause

[DR 09-0203]

This simple type specifies that its contents contain a whole number between -100 and 100, whose contents are a percentage.

This simple type's contents are a restriction of the W3C XML Schema byte datatype.

This simple type also specifies the following restrictions:

- This simple type has a minimum value of greater than or equal to -100.
- This simple type has a maximum value of less than or equal to 100.

<u>Referenced By</u>
<u>ST_Overlap (Part 1, §21.2.3.31)</u>

39. §13.1.3.17, “Additional member types for union in ST_BubbleScale (Part 1, §21.2.3.5)”, new subclause

[DR 09-0203]

The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.

- The ST_BubbleScaleUInt simple type (§13.1.3.18).

40. §13.1.3.18, “ST_BubbleScaleUInt (Bubble Scale UnsignedInt)”, new subclause

[DR 09-0203]

This simple type specifies that its contents contain a whole number between 0 and 300, whose contents are a percentage.

This simple type's contents are a restriction of the W3C XML Schema unsignedInt datatype.

This simple type also specifies the following restrictions:

- This simple type has a minimum value of greater than or equal to 0.
- This simple type has a maximum value of less than or equal to 300.

Referenced By[ST BubbleScale \(Part 1, §21.2.3.5\)](#)**41. §13.1.3.19, “Additional member types for union in ST_Thickness (Part 1, §21.2.3.206)”, new subclause**

[DR 09-0203]

[The value space of the following additional member types can be used within the context of this simple type for a document of a transitional conformance class.](#)

- [The W3C XML Schema unsignedInt datatype.](#)

42. §A.1, “WordprocessingML”, p. 811

[DR 09-0276]

[This schema is available in the file wml.xsd.](#)

43. §A.1, “WordprocessingML”, p. 813, lines 112–117

[DR 09-0202]

```

<xsd:simpleType name="ST_TextScale">
  <xsd:union memberTypes="ST_TextScalePercent ST_TextScaleDecimal"/>
  <del><xsd:restriction base="xsd:integer">
    <xsd:minInclusive value="0"/>
    <xsd:maxInclusive value="600"/>
  </del></xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="ST_TextScalePercent">
  <xsd:pattern value="0*(600|([0-5]?[0-9]?[0-9]))%"/>
</xsd:simpleType>
<xsd:simpleType name="ST_TextScaleDecimal">
  <xsd:restriction base="xsd:integer">
    <xsd:minInclusive value="0"/>
    <xsd:maxInclusive value="600"/>
  </xsd:restriction>
</xsd:simpleType>

```

44. §A.1, “WordprocessingML”, p. 846, lines 1851–1857

[DR 09-0017, DR 09-0018]

```

<xsd:group name="EG_RPrMath">
  <xsd:choice>
    <xsd:group ref="EG_RPr"/>
    <xsd:element name="ins" type="CT_RPrChangeCT_MathCtrlIns"/>
    <xsd:element name="del" type="CT_RPrChangeCT_MathCtrlDel"/>
  </xsd:choice>
</xsd:group>
<xsd:complexType name="CT_MathCtrlIns">
  <xsd:complexContent>
    <xsd:extension base="CT_TrackChange">
      <xsd:choice minOccurs="0">
        <xsd:element name="del" type="CT_RPrChange" minOccurs="1"/>
        <xsd:element name="rPr" type="CT_RPr" minOccurs="1"/>
      </xsd:choice>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
<xsd:complexType name="CT_MathCtrlDel">
  <xsd:complexContent>
    <xsd:extension base="CT_TrackChange">
      <xsd:choice minOccurs="0">
        <xsd:element name="rPr" type="CT_RPr" minOccurs="1"/>
      </xsd:choice>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```

45. §A.1, “WordprocessingML”, p. 853, lines 2214–2217

[DR 09-0246]

```

<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>

```

46. §A.1, “WordprocessingML”, new type

[DR 09-0011]


```

<xsd:group name="EG_PContentMath">
  <xsd:choice>
    <xsd:group ref="EG_PContentBase" minOccurs="0" maxOccurs="unbounded" />
    <xsd:group ref="EG_ContentRunContentBase" minOccurs="0"
      maxOccurs="unbounded" />
  </xsd:choice>
</xsd:group>
<xsd:group name="EG_PContentBase">
  <xsd:choice>
    <xsd:element name="customXml" type="CT_CustomXmlRun"/>
    <xsd:element name="fldSimple" type="CT_SimpleField" minOccurs="0"
      maxOccurs="unbounded"/>
    <xsd:element name="hyperlink" type="CT_Hyperlink"/>
  </xsd:choice>
</xsd:group>
<xsd:group name="EG_ContentRunContentBase">
  <xsd:choice>
    <xsd:element name="smartTag" type="CT_SmartTagRun"/>
    <xsd:element name="sdt" type="CT_SdtRun"/>
    <xsd:group ref="EG_RunLevelElts" minOccurs="0" maxOccurs="unbounded" />
  </xsd:choice>
</xsd:group>

```

47. §A.2, “SpreadsheetML”, p. xx, lines xx-xx

[DR 09-0233]

<<W3C schema change description goes here>>

48. §A.2, “SpreadsheetML”, p. 879

[DR 09-0276]

[This schema is available in the file sml.xsd.](#)

49. §A.2, “SpreadsheetML”, p. 884, lines 264-271

[DR 09-0016]

```

<xsd:complexType name="CT_CalcCell">
  <xsd:attribute name="r" type="ST_CellRef" use="optionalrequired"/>
  <xsd:attribute name="ref" type="ST_CellRef" use="optional"/>
  ...
</xsd:complexType>

```

50. §A.2, “SpreadsheetML”, p. 951–952, lines 3849–3857

[DR 09-0010]

```

<xsd:complexType name="CT_ExternalLink">
  <xsd:choice>
    ...
    <xsd:element name="oleLink" type="CT_OleLink" minOccurs="0" maxOccurs="1"/>
    <del><xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/></del>
  </xsd:choice>
  <xsd:element name="extLst" minOccurs="0" type="CT_ExtensionList"/>
</xsd:complexType>

```

51. §A.3, “PresentationML”, p. 963

[DR 09-0276]

[This schema is available in the file pml.xsd.](#)

52. §A.3, “PresentationML”, p. 988, lines 1336–1344

[DR 09-0242]

```

<xsd:complexType name="CT_GraphicalObjectFrame">
  <xsd:sequence>
    ...
  </xsd:sequence>
  <xsd:attribute name="bwMode" type="ST_BlackWhiteMode" use="optional"/>
</xsd:complexType>

```

53. §A.4.1, “DrawingML – Main”, p. 996

[DR 09-0276]

[This schema is available in the file dml-main.xsd.](#)

54. §A.4.1, “DrawingML – Main”, p. 1000, lines 240–242

[DR 08-0001]

```

<xsd:simpleType name="ST_PercentageDecimal">
  <xsd:restriction base="xsd:int"/>
</xsd:simpleType>

```

55. §A.4.1, "DrawingML - Main", p. 1048, lines 2765–2770

[DR 08-0007]

```

<xsd:simpleType name="ST_TextBulletSize">
  <xsd:union memberTypes="ST_TextBulletSizePercent
  ST_TextBulletSizeDecimal"/>
</xsd:simpleType>
<xsd:simpleType name="ST_TextBulletSizePercent">
  <xsd:restriction base="ST_PercentageDecimal">
    <xsd:minInclusive value="25000"/>
    <xsd:maxInclusive value="400000"/>
  </xsd:restriction>
  <xsd:pattern value="0*((2[5-9])|([3-9][0-9])|([1-3][0-9][0-9])|400)%"/>
</xsd:simpleType>
<xsd:simpleType name="ST_TextBulletSizeDecimal">
  <xsd:restriction base="ST_PercentageDecimal">
    <xsd:minInclusive value="25000"/>
    <xsd:maxInclusive value="400000"/>
  </xsd:restriction>
</xsd:simpleType>

```

56. §A.4.1, "DrawingML - Main", p. 1049, lines 2837–2842

[DR 09-0240]

```

<xsd:complexType name="CT_TextFont">
  <xsd:attribute name="typeface" type="ST_TextTypeface" use="required"/>
  ...
</xsd:complexType>

```

57. §A.4.2, "DrawingML - Picture", p. 1054

[DR 09-0276]

[This schema is available in the file dml-picture.xsd.](#)

58. §A.4.3, "DrawingML - Locked Canvas", p. 1054

[DR 09-0276]

[This schema is available in the file dml-lockedCanvas.xsd.](#)

59. §A.4.4, “DrawingML - WordprocessingML Drawing”, p. 1054

[DR 09-0276]

[This schema is available in the file dml-spreadsheetDrawing.xsd.](#)

60. §A.4.5, “DrawingML - SpreadsheetML Drawing”, p. 1055

[DR 09-0276]

[This schema is available in the file dml-wordprocessingDrawing.xsd.](#)

61. §A.5.1 - DrawingML – Charts”, p. 1062

[DR 09-0276]

[This schema is available in the file dml-chart.xsd.](#)

62. §A.5.1, “DrawingML - Charts”, p. 1066, lines 198–206

[DR 09-0033]

```

<xsd:simpleType name="ST_HPercent">
—<xsd:restriction base="xsd:unsignedShort">
—<xsd:minInclusive value="5"/>
—<xsd:maxInclusive value="500"/>
—</xsd:restriction>
  <xsd:union memberTypes="ST_HPercentWithSymbol ST_HPercentUShort"/>
</xsd:simpleType>

<xsd:simpleType name="ST_HPercentWithSymbol">
  <xsd:pattern value="0*(([5-9]|([1-9][0-9])|([1-4][0-9][0-9])|500)%"/>
</xsd:simpleType>

<xsd:simpleType name="ST_HPercentUShort">
  <xsd:restriction base="xsd:unsignedShort">
    <xsd:minInclusive value="5"/>
    <xsd:maxInclusive value="500"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="CT_HPercent">
  <xsd:attribute name="val" type="ST_HPercent" default="100%"/>
</xsd:complexType>

```

63. §A.5.1, “DrawingML - Charts”, p. 1066, lines 216–224

[DR 09-0033]

```

<xsd:simpleType name="ST_DepthPercent">
  <xsd:restriction base="xsd:unsignedShort">
    <xsd:minInclusive value="20"/>
    <xsd:maxInclusive value="2000"/>
  </xsd:restriction>
  <xsd:union memberTypes="ST_DepthPercentWithSymbol ST_DepthPercentUShort"/>
</xsd:simpleType>

<xsd:simpleType name="ST_DepthPercentWithSymbol">
  <xsd:pattern value="0*(([2-9][0-9])|([1-9][0-9][0-9])|(1[0-9][0-9][0-9])|2000)%
  "/>
</xsd:simpleType>

<xsd:simpleType name="ST_DepthPercentUShort">
  <xsd:restriction base="xsd:unsignedShort">
    <xsd:minInclusive value="20"/>
    <xsd:maxInclusive value="2000"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="CT_DepthPercent">
  <xsd:attribute name="val" type="ST_DepthPercent" default="100%"/>
</xsd:complexType>

```

64. §A.5.1, "DrawingML - Charts", p. 1066, lines 225–233

[DR 09-0203]

```

<xsd:simpleType name="ST_Perspective">
<xsd:restriction base="xsd:unsignedByte">
<xsd:minInclusive value="0"/>
<xsd:maxInclusive value="240"/>
</xsd:restriction>
  <xsd:union memberTypes="ST_PerspectivePercent ST_PerspectiveUByte"/>
</xsd:simpleType>

<xsd:simpleType name="ST_PerspectivePercent">
  <xsd:pattern value="0*(([0-9])|([1-9][0-9])|(1[0-9][0-9])|(2|[0-3][0-9])|240)%"/>
</xsd:simpleType>

<xsd:simpleType name="ST_PerspectiveUByte">
  <xsd:restriction base="xsd:unsignedByte">
    <xsd:minInclusive value="0"/>
    <xsd:maxInclusive value="240"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="CT_Perspective">
  <xsd:attribute name="val" type="ST_Perspective" default="30%"/>
</xsd:complexType>

```

<<Relax NG schema change description goes here>>

65. §A.5.1, "DrawingML - Charts", pp. 1066–1067, lines 245–252

[DR 09-0203]

```

<xsd:complexType name="CT_Surface">
  <xsd:sequence>
    <xsd:element name="thickness" type="CT UnsignedIntThickness "
      minOccurs="0" maxOccurs="1"/>
    <xsd:element name="spPr" type="a:CT_ShapeProperties" minOccurs="0"
      maxOccurs="1"/>
    <xsd:element name="pictureOptions" type="CT_PictureOptions" minOccurs="0"
      maxOccurs="1"/>
    <xsd:element name="extLst" type="CT_ExtensionList" minOccurs="0"
      maxOccurs="1"/>
  </xsd:sequence>
</xsd:complexType>

```

```

<xsd:simpleType name="ST_Thickness">
  <xsd:union memberTypes="ST_ThicknessPercent unsignedInt"/>
</xsd:simpleType>

<xsd:simpleType name="ST_ThicknessPercent">
  <xsd:pattern value="([0-9]+)%"/>
</xsd:simpleType>

<xsd:complexType name="CT_Thickness">
  <xsd:attribute name="val" type="ST_Thickness" use="required"/>
</xsd:complexType>

```

66. §A.5.1, "DrawingML - Charts", p. 1067, lines 264–272

[DR 09-0203]


```

<xsd:simpleType name="ST_GapAmount">
<xsd:restriction base="xsd:unsignedShort">
<xsd:minInclusive value="0"/>
<xsd:maxInclusive value="500"/>
</xsd:restriction>
  <xsd:union memberTypes="ST_GapAmountPercent ST_GapAmountUShort"/>
</xsd:simpleType>

<xsd:simpleType name="ST_GapAmountPercent">
  <xsd:pattern value="0*(([0-9]|([1-9][0-9])|([1-4][0-9][0-9])|500)%"/>
</xsd:simpleType>

<xsd:simpleType name="ST_GapAmountUShort">
  <xsd:restriction base="xsd:unsignedShort">
    <xsd:minInclusive value="0"/>
    <xsd:maxInclusive value="500"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="CT_GapAmount">
  <xsd:attribute name="val" type="ST_GapAmount" default="150%"/>
</xsd:complexType>

```

67. §A.5.1, "DrawingML - Charts", p. 1067, lines 282–290

[DR 09-0203]

```

<xsd:simpleType name="ST_BubbleScale">
<xsd:restriction base="xsd:unsignedInt">
<xsd:minInclusive value="0"/>
<xsd:maxInclusive value="300"/>
</xsd:restriction>
  <xsd:union memberTypes="ST_BubbleScalePercent ST_BubbleScaleUInt"/>
</xsd:simpleType>
<xsd:simpleType name="ST_BubbleScalePercent">
  <xsd:pattern value="0*(([0-9])|([1-9][0-9])|([1-2][0-9][0-9])|300)%"/>
</xsd:simpleType>
<xsd:simpleType name="ST_BubbleScaleUInt">
  <xsd:restriction base="xsd:unsignedInt">
    <xsd:minInclusive value="0"/>
    <xsd:maxInclusive value="300"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:complexType name="CT_BubbleScale">
  <xsd:attribute name="val" type="ST_BubbleScale" default="100%"/>
</xsd:complexType>

```

68. §A.5.1, "DrawingML - Charts", p. 1067, lines 273–281

[DR 09-0203]

```

<xsd:simpleType name="ST_Overlap">
  <del>xsd:restriction base="xsd:byte">
    <del>xsd:minInclusive value="-100"/>
    <del>xsd:maxInclusive value="100"/>
  </del>
  <xsd:union memberTypes="ST_OverlapPercent ST_OverlapByte"/>
</xsd:simpleType>

<xsd:simpleType name="ST_OverlapPercent">
  <xsd:pattern value="(-?0*(([0-9])|([1-9][0-9])|100))%"/>
</xsd:simpleType>

<xsd:simpleType name="ST_OverlapByte">
  <xsd:restriction base="xsd:byte">
    <xsd:minInclusive value="-100"/>
    <xsd:maxInclusive value="100"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="CT_Overlap">
  <xsd:attribute name="val" type="ST_Overlap" default="0%"/>
</xsd:complexType>

```

69. §A.5.1, "Drawing ML - Charts", p. 1068, lines 309–314

[DR 09-0002]

```

<xsd:simpleType name="ST_HoleSize">
  <xsd:restriction base="xsd:unsignedByte">
    <xsd:minInclusive value="10"/>
    <xsd:maxInclusive value="90"/>
  </xsd:restriction>
</xsd:simpleType>

```

70. §A.5.1, "Drawing ML - Charts", p. 1068, lines 309–317

[DR 09-0203]

```

<xsd:simpleType name="ST_HoleSize">
  <del>xsd:restriction base="xsd:unsignedByte">
    <del>xsd:minInclusive value="10"/>
    <del>xsd:maxInclusive value="90"/>
  </del>
  <xsd:union memberTypes="ST_HoleSizePercent ST_HoleSizeUByte"/>
</xsd:simpleType>

<xsd:simpleType name="ST_HoleSizePercent">
  <xsd:pattern value="0*(([1-8][0-9])|90)% "/>
</xsd:simpleType>

<xsd:simpleType name="ST_HoleSizeUByte">
  <xsd:restriction base="xsd:unsignedByte">
    <xsd:minInclusive value="10"/>
    <xsd:maxInclusive value="90"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="CT_HoleSize">
  <xsd:attribute name="val" type="ST_HoleSize" default="10%"/>
</xsd:complexType>

```

71. §A.5.1, “DrawingML - Charts”, p. 1068, lines 336–344

[DR 09-0203]

```

<xsd:simpleType name="ST_SecondPieSize">
<xsd:restriction base="xsd:unsignedShort">
<xsd:minInclusive value="5"/>
<xsd:maxInclusive value="200"/>
</xsd:restriction>
  <xsd:union memberTypes="ST_SecondPieSizePercent ST_SecondPieSizeUShort"/>
</xsd:simpleType>

<xsd:simpleType name="ST_SecondPieSizePercent">
  <xsd:pattern value="0*(([5-9]|([1-9][0-9])|(1[0-9][0-9])|200)%"/>
</xsd:simpleType>

<xsd:simpleType name="ST_SecondPieSizeUShort">
  <xsd:restriction base="xsd:unsignedShort">
    <xsd:minInclusive value="5"/>
    <xsd:maxInclusive value="200"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:complexType name="CT_SecondPieSize">
  <xsd:attribute name="val" type="ST_SecondPieSize" default="75%"/>
</xsd:complexType>

```

72. §A.5.1, "Drawing ML - Charts", p. 1070, lines 424–438

[DR 09-0004]

```

<xsd:simpleType name="ST_MarkerStyle">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="circle"/>
    ...
    <xsd:enumeration value="x"/>
    <xsd:enumeration value="auto"/>
  </xsd:restriction>
</xsd:simpleType>

```

73. §A.5.1, "Drawing ML - Charts", p. 1071, lines 493–498

[DR 09-0003]

```

<xsd:simpleType name="ST_Period">
  <xsd:restriction base="xsd:unsignedBytexsd:unsignedInt ">
    <xsd:minInclusive value="2"/>
    <xsd:maxInclusive value="255unbounded "/>
  </xsd:restriction>
</xsd:simpleType>

```

74. §A.5.1, “Drawing ML - Charts”, p. 1081, lines 1024–1028

[DR 09-0006]

```

<xsd:simpleType name="ST_Skip">
  <xsd:restriction base="xsd:unsignedIntShort">
    <xsd:minInclusive value="1"/>
  </xsd:restriction>
</xsd:simpleType>

```

75. §A.5.1, “DrawingML - Charts”, p. 1083, lines 1139–1147

[DR 09-0203]

```

<xsd:simpleType name="ST_LblOffset">
  <xsd:restriction base="xsd:unsignedShort">
    <xsd:minInclusive value="0"/>
    <xsd:maxInclusive value="1000"/>
  </xsd:restriction>
  <xsd:union memberTypes="ST_LblOffsetPercent ST_LblOffsetUShort"/>
</xsd:simpleType>

<xsd:simpleType name="ST_LblOffsetPercent">
  <xsd:pattern value="0*(([0-9])|([1-9][0-9])|([1-9][0-9][0-9])|1000)%"/>
</xsd:simpleType>

<xsd:simpleType name="ST_LblOffsetUShort">
  <xsd:restriction base="xsd:unsignedShort">
    <xsd:minInclusive value="0"/>
    <xsd:maxInclusive value="1000"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="CT_LblOffset">
  <xsd:attribute name="val" type="ST_LblOffset" default="100%"/>
</xsd:complexType>

```

76. §A.5.2, "DrawingML - Chart Drawing", p. 1089

[DR 09-0276]

[This schema is available in the file dml-chartDrawing.xsd.](#)

77. §A.5.3, "DrawingML - Diagrams", p. 1092

[DR 09-0276]

[This schema is available in the file dml-diagram.xsd.](#)

78. §A.5.3, "DrawingML - Diagrams", p. 1100, lines 427-430

[DR 08-0004]

```

<xsd:simpleType name="ST_ModelId">
  <xsd:union memberTypes="xsd:int s:ST_Guid"/>
</xsd:simpleType>
<xsd:simpleType name="ST_PrSetCustVal">
  <xsd:union memberTypes="s:ST_Percentage xsd:int"/>
</xsd:simpleType>

```

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

79. §A.5.3, “DrawingML - Diagrams”, p. 1100, lines 455–463

[DR 08-0004]

```
<xsd:attribute name="custScaleX" type="xsd:intST PrSetCustVal"
use="optional">
</xsd:attribute>
<xsd:attribute name="custScaleY" type="<del>xsd:intST PrSetCustVal</del>"
use="optional">
</xsd:attribute>
<xsd:attribute name="custT" type="xsd:boolean" use="optional">
</xsd:attribute>
<xsd:attribute name="custLinFactX" type="<del>xsd:intST PrSetCustVal</del>"
use="optional">
</xsd:attribute>
<xsd:attribute name="custLinFactY" type="<del>xsd:intST PrSetCustVal</del>"
use="optional">
</xsd:attribute>
<xsd:attribute name="custLinFactNeighborX" type="<del>xsd:intST PrSetCustVal</del>"
use="optional">
</xsd:attribute>
<xsd:attribute name="custLinFactNeighborY" type="<del>xsd:intST PrSetCustVal</del>"
use="optional">
</xsd:attribute>
<xsd:attribute name="custRadScaleRad" type="<del>xsd:intST PrSetCustVal</del>"
use="optional">
</xsd:attribute>
<xsd:attribute name="custRadScaleInc" type="<del>xsd:intST PrSetCustVal</del>"
use="optional">
</xsd:attribute>
```

80. §A.6.1, “VML”, p. 1113

[DR 09-0276]

[This schema is available in the file vml-main.xsd.](#)

81. §A.6.1, “Math”, p. 1147, lines 488–493

[DR 09-0011]


```

<xsd:group name="EG_OMathElements">
  <xsd:choice>
    <xsd:group ref="EG_OMathMathElements"/>
    <xsd:group ref="w:EG_RunLevelEltsw:EG_PContentMath"/>
  </xsd:choice>
</xsd:group>

```

82. §A.6.2 VML, “Office Drawing”, p. 1123

[DR 09-0276]

[This schema is available in the file vml-officeDrawing.xsd.](#)

83. §A.6.3 VML, “WordprocessingML Drawing”, p. 1133

[DR 09-0276]

[This schema is available in the file vml-wordprocessingDrawing.xsd.](#)

84. §A.6.4 VML, “SpreadsheetML Drawing”, p. 1135

[DR 09-0276]

[This schema is available in the file vml-spreadsheetDrawing.xsd.](#)

85. §A.6.5 VML, “PresentationML Drawing”, p. 1137

[DR 09-0276]

[This schema is available in the file vml-presentationDrawing.xsd.](#)

86. §A.7.1, “Math”, p. 1137

[DR 09-0276]

[This schema is available in the file shared-math.xsd.](#)

87. §A.7.2, “Extended Properties”, p. 1148

[DR 09-0276]

[This schema is available in the file shared-documentPropertiesExtended.xsd.](#)

88. §A.7.3, “Custom Properties”, p. 1149

[DR 09-0276]

[This schema is available in the file shared-documentPropertiesCustom.xsd.](#)

89. §A.7.4, “Variant Types”, p. 1151

[DR 09-0276]

[This schema is available in the file shared-documentPropertiesVariantTypes.xsd.](#)

90. §A.7.5, “Custom XML Data Properties”, p. 1154

[DR 09-0276]

[This schema is available in the file shared-customXmlDataProperties.xsd.](#)

91. §A.7.6, “Bibliography”, p. 1155

[DR 09-0276]

[This schema is available in the file shared-bibliography.xsd.](#)

92. §A.7.7, “Additional Characteristics”, p. 1158

[DR 09-0276]

[This schema is available in the file shared-additionalCharacteristics.xsd.](#)

93. §A.7.8, “Office Document Relationships”, p. 1158

[DR 09-0276]

[This schema is available in the file shared-relationshipReference.xsd.](#)

94. §A.7.9, “Shared Simple Types”, p. 1159

[DR 09-0276]

[This schema is available in the file shared-commonSimpleTypes.xsd.](#)

95. §A.8, “Custom XML Schema References”, p. 1162

[DR 09-0276]

[This schema is available in the file shared-customXmlSchemaProperties.xsd.](#)

96. §B.1, “WordprocessingML”, p. 1163

[DR 09-0276]

[This schema is available in the file wml.rnc.](#)

97. §B.1, “WordprocessingML”, p. 1162, line 52

[DR 09-0202]

<<Relax NG schema change description goes here>>

98. §B.1, “WordprocessingML”, p. 1185, lines 1185–1188

[DR 09-0017]

<<Relax NG schema change description goes here>>

99. §B.1, “WordprocessingML”, p. 1185, lines 1185–1188

[DR 09-0018]

<<Relax NG schema change description goes here>>

100. §B.1, “WordprocessingML”, p. 1189, lines 1389–1391

[DR 09-0246]

<<Relax NG schema change description goes here>>

101. §B.1, “WordprocessingML”, new type

[DR 09-0011]

<<Relax NG schema change description goes here>>

102. §B.1.1.1, “Comments Part”, p. 1207

[DR 09-0276]

[This schema is available in the file WordprocessingML_Comments.rnc.](#)

103. §B.1.1.2, “Document Settings Part”, p. 1207

[DR 09-0276]

[This schema is available in the file WordprocessingML_Document_Settings.rnc.](#)

104. §B.1.1.3, “Endnotes Part”, p. 1208

[DR 09-0276]

[This schema is available in the file WordprocessingML_Endnotes.rnc.](#)

105. §B.1.1.4, “Font Table Part”, p. 1208

[DR 09-0276]

[This schema is available in the file WordprocessingML_Font_Table.rnc.](#)

106. §B.1.1.5, “Footer Part”, p. 1209

[DR 09-0276]

[This schema is available in the file WordprocessingML_Footer.rnc.](#)

107. §B.1.1.6, “Footnotes Part”, p. 1209

[DR 09-0276]

[This schema is available in the file WordprocessingML_Footnotes.rnc.](#)

108. §B.1.1.7, “Glossary Document Part”, p. 1210

[DR 09-0276]

[This schema is available in the file WordprocessingML_Glossary_Document.rnc.](#)

109. §B.1.1.8, “Header Part”, p. 1210

[DR 09-0276]

[This schema is available in the file WordprocessingML_Header.rnc.](#)

110. §B.1.1.9, “Mail Merge Recipient Data Part”, p. 1211

[DR 09-0276]

[This schema is available in the file WordprocessingML_Mail_Merge_Recipient_Data.rnc.](#)

111. §B.1.1.10, “Main Document Part”, p. 1211

[DR 09-0276]

[This schema is available in the file WordprocessingML_Main_Document.rnc.](#)

112. §B.1.1.11, “Numbering Definitions Part”, p. 1211

[DR 09-0276]

[This schema is available in the file WordprocessingML_Numbering_Definitions.rnc.](#)

113. §B.1.1.12, “Style Definitions Part”, p. 1212

[DR 09-0276]

[This schema is available in the file WordprocessingML_Style_Definitions.rnc.](#)

114. §B.1.1.13, “Web Settings Part”, p. 1212

[DR 09-0276]

[This schema is available in the file WordprocessingML_Web_Settings.rnc.](#)

115. §B.2, “SpreadsheetML”, p. 1213

[DR 09-0276]

[This schema is available in the file sml.rnc.](#)

116. §B.2, “SpreadsheetML”, p. xx, lines xx-xx

[DR 09-0233]

<<Relax NG schema change description goes here>>

117. §B.2, “SpreadsheetML”, p. 1216, lines 218-219

[DR 09-0016]

<<Relax NG schema change description goes here>>

118. §B.2, “SpreadsheetML”, p. 1290, lines 4082-4086

[DR 09-0010]

<<Relax NG schema change description goes here>>

119. §B.2.1, “Part Schemas”, p. 1301

[DR 09-0078]

```

include "wml.rnc"
include "shared-relationshipReference.rnc"
include "dml-wordprocessingDrawing.rnc"
include "dml-main.rnc"
include "dml-diagram.rnc"
include "shared-commonSimpleTypes.rnc"
include "dml-lockedCanvas.rnc"
include "any.rnc"
include "dml-chart.rnc"
include "dml-chartDrawing.rnc"
include "dml-picture.rnc"
include "dml-compatibility.rnc"
include "vml-presentationDrawing.rnc"
include "xml.rnc"
include "shared-customXmlSchemaProperties.rnc"
include "vml-officeDrawing.rnc"
include "vml-main.rnc"
include "vml-spreadsheetDrawing.rnc"
include "vml-wordprocessingDrawing.rnc"
include "shared-math.rnc"
start = element xml {(vml-main | vml-officeDrawing | vml-spreadsheetDrawing | vml-
presentationDrawing)* }

vml-main =
  v_shape
  | v_shapetype
  | v_group
  | v_background
  | v_fill
  | v_formulas
  | v_handles
  | v_imagedata
  | v_path
  | v_textbox
  | v_shadow
  | v_stroke
  | v_textpath
  | v_arc
  | v_curve
  | v_image
  | v_line
  | v_oval
  | v_polyline

```

```

| v_rect
| v_roundrect

vml-officeDrawing =
  o_shapedefaults
  | o_shapelayout
  | o_signatureline
  | o_ink
  | o_diagram
  | o_equationxml
  | o_skew
  | o_extrusion
  | o_callout
  | o_lock
  | o_OLEObject
  | o_complex
  | o_left
  | o_top
  | o_right
  | o_bottom
  | o_column
  | o_clippath
  | o_fill

vml-wordprocessingDrawing =
  w10_bordertop
  | w10_borderleft
  | w10_borderright
  | w10_borderbottom
  | w10_wrap
  | w10_anchorlock

vml-spreadsheetDrawing = x_ClientData

vml-presentationDrawing = pvml_iscomment | pvml_textdata

```

120. §B.2.1.1, “Calculation Chain Part”, p. 1301

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Calculation_Chain.rnc.](#)

121. §B.2.1.2, “Chartsheet Part”, p. 1301

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Chartsheet.rnc.](#)

122. §B.2.1.3, “Comments Part”, p. 1302

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Comments.rnc.](#)

123. §B.2.1.4, “Connections Part”, p. 1302

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Connections.rnc.](#)

124. §B.2.1.5, “Custom XML Mappings Part”, p. 1302

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Custom_XML_Mappings.rnc.](#)

125. §B.2.1.6, “Dialogsheet Part”, p. 1303

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Dialogsheet.rnc.](#)

126. §B.2.1.7, “Drawing Part”, p. 1303

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Drawing.rnc.](#)

127. §B.2.1.8, “External Workbook References Part”, p. 1303

[DR 09-0276]

[This schema is available in the file SpreadsheetML_External_Workbook_References.rnc.](#)

128. §B.2.1.9, “Metadata Part”, p. 1303

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Metadata.rnc.](#)

129. §B.2.1.10, “Pivot Table Part”, p. 1304

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Pivot_Table.rnc.](#)

130. §B.2.1.11, “Pivot Table Cache Definition Part”, p. 1304

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Pivot_Table_Cache_Definition.rnc.](#)

131. §B.2.1.12, “Pivot Table Cache Records Part”, p. 1304

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Pivot_Table_Cache_Records.rnc.](#)

132. §B.2.1.13, “Query Table Part”, p. 1305

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Query_Table.rnc.](#)

133. §B.2.1.14, “Shared String Table Part”, p. 1305

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Shared_String_Table.rnc.](#)

134. §B.2.1.15, “Shared Workbook Revision Headers Part”, p. 1305

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Shared_Workbook_Revision_Headers.rnc.](#)

135. §B.2.1.16, “Shared Workbook Revision Log Part”, p. 1306

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Shared_Workbook_Revision_Log.rnc.](#)

136. §B.2.1.17, “Shared Workbook User Data Part”, p. 1306

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Shared_Workbook_User_Data.rnc.](#)

137. §B.2.1.18, “Single Cell Table Definitions Part”, p. 1306

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Single_Cell_Table_Definitions.rnc.](#)

138. §B.2.1.19, “Styles Part”, p. 1306

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Styles.rnc.](#)

139. §B.2.1.20, “Table Definitions Part”, p. 1307

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Table_Definitions.rnc.](#)

140. §B.2.1.21, “Volatile Dependencies Part”, p. 1307

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Volatile_Dependencies.rnc.](#)

141. §B.2.1.22, “Workbook Part”, p. 1307

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Workbook.rnc.](#)

142. §B.2.1.23, “Worksheet Part”, p. 1308

[DR 09-0276]

[This schema is available in the file SpreadsheetML_Worksheet.rnc.](#)

143. §B.3, “PresentationML”, p. 1308

[DR 09-0276]

[This schema is available in the file pml.rnc.](#)

144. §B.3, “PresentationML”, pp. 1325, lines 940–944

[DR 09-0242]

```
p_CT_GraphicalObjectFrame =
...
  attribute bwMode { a ST BlackWhiteMode }?
```

145. §B.3, “PresentationML”, p. 1319, line 621

[DR 09-0079]

```
p_ST_SlideSizeCoordinate =
  xsd:int {
  minInclusive = "0"
    minInclusive = "914400"
    maxInclusive = "51206400"
  }
```

146. §B.3.1.1, “Comment Authors Part”, p. 1331

[DR 09-0276]

[This schema is available in the file PresentationML_Comments.rnc.](#)

147. §B.3.1.2, “Comments Part”, p. 1331

[DR 09-0276]

[This schema is available in the file PresentationML_Comment_Authors.rnc.](#)

148. §B.3.1.3, “Handout Master Part”, p. 1331

[DR 09-0276]

[This schema is available in the file PresentationML_Handout_Master.rnc.](#)

149. §B.3.1.4, “Notes Master Part”, p. 1331

[DR 09-0276]

[This schema is available in the file PresentationML_Notes_Master.rnc.](#)

150. §B.3.1.5, “Notes Slide Part”, p. 1332

[DR 09-0276]

[This schema is available in the file PresentationML_Notes_Slide.rnc.](#)

151. §B.3.1.6, “Presentation Part”, p. 1332

[DR 09-0276]

[This schema is available in the file PresentationML_Presentation.rnc.](#)

152. §B.3.1.7, “Presentation Properties Part”, p. 1332

[DR 09-0276]

[This schema is available in the file PresentationML_Presentation_Properties.rnc.](#)

153. §B.3.1.8, “Slide Part”, p. 1333

[DR 09-0276]

[This schema is available in the file PresentationML_Slide.rnc.](#)

154. §B.3.1.9, “Slide Layout Part”, p. 1333

[DR 09-0276]

[This schema is available in the file PresentationML_Slide_Layout.rnc.](#)

155. §B.3.1.10, “Slide Master Part”, p. 1333

[DR 09-0276]

[This schema is available in the file PresentationML_Slide_Master.rnc.](#)

156. §B.3.1.11, “Slide Synchronization Data Part”, p. 1333

[DR 09-0276]

[This schema is available in the file PresentationML_Slide_Synchronization_Data.rnc.](#)

157. §B.3.1.12, “User Defined Tags Part”, p. 1334

[DR 09-0276]

[This schema is available in the file PresentationML_Presentation.rnc.](#)

158. §B.3.1.13, “View Properties Part”, p. 1334

[DR 09-0276]

[This schema is available in the file PresentationML_Presentation_Properties.rnc.](#)

159. §B.4.1, “DrawingML - Main”, p. 1334

[DR 09-0276]

[This schema is available in the file dml-main.rnc.](#)

160. §B.4.1, “DrawingML – Main”, p. 1336, line 134

[DR 08-0001]

~~a_ST_PercentageDecimal = xsd:int~~

161. §B.4.1, “DrawingML - Main”, p. 1374, lines 2126–2127

[DR 08-0007]

```

a ST TextBulletSize =
  a ST TextBulletSizePercent | a ST TextBulletSizeDecimal
a_ST_TextBulletSizePercent =
xsd:int { minInclusive = "25000" maxInclusive = "400000" }
  xsd:string {
    pattern = "((2[5-9])|([3-9][0-9])|([1-3][0-9][0-9])|400)%"/>
  }
a ST TextBulletSizeDecimal =
  xsd:int { minInclusive = "25000" maxInclusive = "400000" }

```

162. §B.4.1, “DrawingML - Main”, p. 1375, lines 2161–2169

[DR 09-0240]

```

a_CT_TextFont =
  attribute typeface { a_ST_TextTypeface }?,
  ...
  attribute charset { xsd:byte }?

```

163. §B.4.1.1.1, “Table Styles Part”, p. 1378

[DR 09-0276]

[This schema is available in the file DrawingML Table Styles.rnc.](#)

164. §B.4.1.1.2, “Theme Part”, p. 1378

[DR 09-0276]

[This schema is available in the file DrawingML Theme.rnc.](#)

165. §B.4.1.1.3, “Theme Override Part”, p. 1378

[DR 09-0276]

[This schema is available in the file DrawingML Theme Override.rnc.](#)

166. §B.4.1.1.3, “Theme Override Part”, p. 1379, line 11

[DR 09-0077]

start = a_themeOverride

167. §B.4.2, “DrawingML - Picture”, p. 1379

[DR 09-0276]

[This schema is available in the file dml-picture.rnc.](#)

168. §B.4.3, “DrawingML - Locked Canvas”, p. 1379

[DR 09-0276]

[This schema is available in the file dml-lockedCanvas.rnc.](#)

169. §B.4.4, “DrawingML - WordprocessingML Drawing”, p. 1380

[DR 09-0276]

[This schema is available in the file dml-wordprocessingDrawing.rnc.](#)

170. §B.4.5, “DrawingML - SpreadsheetML Drawing”, p. 4882

[DR 09-0276]

[This schema is available in the file dml-spreadsheetDrawing.rnc.](#)

171. §B.5.1, “DrawingML - Charts”, p. 1384

[DR 09-0276]

[This schema is available in the file dml-chart.rnc.](#)

172. §B.5.1, “DrawingML - Charts”, pp. 1386–1387, lines 118–123

[DR 09-0033]

<<Relax NG schema change description goes here>>

173. §B.5.1, “DrawingML - Charts”, p. 1387, lines 130–135

[DR 09-0033]

<<Relax NG schema change description goes here>>

174. §B.5.1, “DrawingML - Charts”, p. 1387, lines 136–141

[DR 09-0203]

<<Relax NG schema change description goes here>>

175. §B.5.1, “DrawingML - Charts”, pp. 1387, lines 150–154

[DR 09-0203]

<<Relax NG schema change description goes here>>

176. §B.5.1, “DrawingML - Charts”, p. 1387, lines 163–168

[DR 09-0203]

<<Relax NG schema change description goes here>>

177. §B.5.1, “DrawingML - Charts”, p. 1387, lines 169–174

[DR 09-0203]

<<Relax NG schema change description goes here>>

178. §B.5.1, “DrawingML - Charts”, p. 1388, lines 175–180

[DR 09-0203]

<<Relax NG schema change description goes here>>

179. §B.5.1, “Drawing ML - Charts”, p. 1388, lines 192–193

[DR 09-0002]

```
dchrt_ST_HoleSize =  
  xsd:unsignedByte { minInclusive = "10" maxInclusive = "90" }
```

180. §B.5.1, “DrawingML - Charts”, p. 1388, lines 192–197

[DR 09-0203]

<<Relax NG schema change description goes here>>

181. §B.5.1, “DrawingML - Charts”, p. 1388, lines 209–214

[DR 09-0203]

<<Relax NG schema change description goes here>>

182. §B.5.1, “Drawing ML - Charts”, pp. 1389, lines 261–272

[DR 09-0004]

```
dchrt_ST_MarkerStyle =
  string "circle"
  ...
  | string "x"
  | string "auto"
```

183. §B.5.1, “Drawing ML - Charts”, p. 1390, lines 311–312

[DR 09-0003]

<<Relax NG schema change description goes here>>

184. §B.5.1, “Drawing ML - Charts”, p. 1397, lines 652

[DR 09-0006]

```
dchrt_ST_Skip = xsd:unsignedIntShort { minInclusive = "1" }
```

185. §B.5.1, “DrawingML - Charts”, p. 1398, lines 710–715

[DR 09-0203]

<<Relax NG schema change description goes here>>

186. §B.5.1.1.1, “Chart Part”, p. 1402

[DR 09-0276]

[This schema is available in the file DrawingML_Chart.rnc.](#)**187. §B.5.1.1.2, “Chart Drawing Part”, p. 1402**

[DR 09-0276]

[This schema is available in the file DrawingML_Chart_Drawing.rnc.](#)**188. §B.5.2, “DrawingML - Chart Drawing”, p. 1402**

[DR 09-0276]

[This schema is available in the file dml-chartDrawing.rnc.](#)

189. §B.5.3, “DrawingML - Diagrams”, p. 1404

[DR 09-0276]

[This schema is available in the file dml-diagram.rnc.](#)

190. §B.5.3, “DrawingML - Diagrams”, p. 1411, lines 373–374

[DR 08-0004]

```
ddgrm_ST_ModelId = xsd:int | s_ST_Guid
ddgrm_ST_PrSetCustVal = s_ST_Percentage | xsd:int
ddgrm_CT_ElemPropSet =
```

191. §B.5.3, “DrawingML - Diagrams”, p. 1412, lines 394–402

[DR 08-0004]

```
attribute custScaleX { xsd:intddgrm_ST_PrSetCustVal }?,
attribute custScaleY { xsd:intddgrm_ST_PrSetCustVal }?,
attribute custT { xsd:boolean }?,
attribute custLinFactX { xsd:intddgrm_ST_PrSetCustVal }?,
attribute custLinFactY { xsd:intddgrm_ST_PrSetCustVal }?,
attribute custLinFactNeighborX { xsd:intddgrm_ST_PrSetCustVal }?,
attribute custLinFactNeighborY { xsd:intddgrm_ST_PrSetCustVal }?,
attribute custRadScaleRad { xsd:intddgrm_ST_PrSetCustVal }?,
attribute custRadScaleInc { xsd:intddgrm_ST_PrSetCustVal }?,
```

192. §B.5.3.1.1, “Diagram Colors Part”, p. 1419

[DR 09-0276]

[This schema is available in the file DrawingML_Diagram_Colors.rnc.](#)

193. §B.5.3.1.2, “Diagram Data Part”, p. 1419

[DR 09-0276]

[This schema is available in the file DrawingML_Diagram_Data.rnc.](#)

194. §B.5.3.1.3, “Diagram Layout Definitions Part”, p. 1419

[DR 09-0276]

[This schema is available in the file DrawingML_Diagram_Layout_Definition.rnc.](#)

195. §B.5.3.1.4, “Diagram Style Part”, p. 1419

[DR 09-0276]

[This schema is available in the file DrawingML_Diagram_Style.rnc.](#)

196. §B.6.1, “VML - Main”, p. 1420

[DR 09-0276]

[This schema is available in the file vml-main.rnc.](#)

197. §B.6.1, “Math”, p. 1443, line 240

<code>m_EG_OMathElements = m_EG_OMathMathElements w_EG_RunLevelElts w_EG_PContentMath</code>

198. §B.6.2, “VML - Office Drawing”, p. 1427

[DR 09-0276]

[This schema is available in the file vml-officeDrawing.rnc.](#)

199. §B.6.3, “VML - Wordprocessing Drawing”, p. 1435

[DR 09-0276]

[This schema is available in the file vml-wordprocessingDrawing.rnc.](#)

200. §B.6.4, “VML - Spreadsheet Drawing”, p. 1436

[DR 09-0276]

[This schema is available in the file vml-spreadsheetDrawing.rnc.](#)

201. §B.6.5, “VML - Presentation Drawing”, p. 1438

[DR 09-0276]

[This schema is available in the file vml-presentationDrawing.rnc.](#)

202. §B.7.1, “Math”, p. 1439

[DR 09-0276]

[This schema is available in the file shared-math.rnc.](#)

203. §B.7.2, “Extended Properties”, p. 1440

[DR 09-0276]

[This schema is available in the file shared-documentPropertiesExtended.rnc.](#)

204. §B.7.2.1.1, “Extended File Properties Part”, p. 1445

[DR 09-0276]

[This schema is available in the file Shared_Extended_File_Properties.rnc.](#)

205. §B.7.3, “Custom Properties”, p. 1445

[DR 09-0276]

[This schema is available in the file shared-documentPropertiesCustom.rnc.](#)

206. §B.7.3.1.1, “Custom File Properties Part”, p. 1446

[DR 09-0276]

[This schema is available in the file Shared_Custom_File_Properties.rnc.](#)

207. §B.7.4, “Variant Types”, p. 1446

[DR 09-0276]

[This schema is available in the file shared-documentPropertiesVariantTypes.rnc.](#)

208. §B.7.5, “Custom XML Data Properties”, p. 1450

[DR 09-0276]

[This schema is available in the file shared-customXmlDataProperties.rnc.](#)

209. §B.7.5.1.1, “Custom XML Data Properties Part”, p. 1450

[DR 09-0276]

[This schema is available in the file Shared_Custom_XML_Data_Storage_Properties.rnc.](#)

210. §B.7.6, “Bibliography”, p. 1450

[DR 09-0276]

[This schema is available in the file shared-bibliography.rnc.](#)

211. §B.7.6.1.1, “Bibliography Part”, p. 1452

[DR 09-0276]

[This schema is available in the file Shared_Bibliography.rnc.](#)

212. §B.7.7, “Additional Characteristics”, p. 1452

[DR 09-0276]

[This schema is available in the file shared-additionalCharacteristics.rnc.](#)

213. §B.7.7.1.1, “Additional Characteristics Part”, p. 1453

[DR 09-0276]

[This schema is available in the file Shared_Additional_Characteristics.rnc.](#)

214. §B.7.8, “Office Document Relationships”, p. 1453

[DR 09-0276]

[This schema is available in the file shared-relationshipReference.rnc.](#)

215. §B.7.9, “Shared Simple Types”, p. 1453

[DR 09-0276]

[This schema is available in the file shared-commonSimpleTypes.rnc.](#)

216. §B.8, “Custom XML Schema References”, p. 1455

[DR 09-0276]

[This schema is available in the file shared-customXmlSchemaProperties.rnc.](#)

217. §B.9.1, “Any”, p. 1456

[DR 09-0276]

[This schema is available in the file any.rnc.](#)

218. §B.9.2, “XML”, p. 1456

[DR 09-0276]

[This schema is available in the file xml.rnc.](#)