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TECHNICAL CORRIGENDUM 1

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

Part 1: Fundamentals and Markup Language Reference

TECHNICAL CORRIGENDUM 1

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

Partie 1: Principes essentiels et référence de langage de balisage

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO/IEC 29500-1:2008 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 29500-1:2008.

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 29500-1:2008, each such change has its own entry below.

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

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 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 directly 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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Changes

1. §3, “Normative References”, p. 8

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

2. §3, “Normative References”, p. 10

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/unicodestandard/standard.html>.

3. §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, 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. Implementers should be aware that a further correction of the normative reference to XML to refer to the 5th Edition will be necessary when the related Reference Specifications to which this International Standard also makes normative reference and which also depend upon XML, such as XSLT, XML Namespaces and XML Base, are all aligned with the 5th Edition.

4. §3, “Normative References”, p. 11

XML Namespaces, [Tim](#) Bray, ~~Tim~~, Dave Hollander, Andrew Layman, and Richard Tobin (editors). *Namespaces in XML 1.0* ~~(Third Edition)~~, 8 December 2009. World Wide Web Consortium. ~~2004.~~
<http://www.w3.org/TR/2004/REC-xml-names11-20040204/>
<http://www.w3.org/TR/2009/REC-xml-names-20091208/>

5. §4, “Terms and Definitions”, p. 12

[Note: This ~~p~~[Part](#) uses OPC-related terms, which are defined in ISO/IEC 29500-2. *end note*]

6. §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.

7. §5, “Notational Conventions”, p. 14

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

1. 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*]

2. 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*]
3. 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*]
4. The name of an XML attribute is written using an Attribute style, ~~as in "id"~~. [Example: The **dropCap** attribute specifies ... *end example*]
5. 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*]
6. 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*]

8. §7, “General Description”, p. 16

{Numbered list item 4: The numbers in “clauses 17–23” are not actual hyperlinked forward references, and should be.}

9. §8.1, “Packages and Parts”, p. 17

(Packages are discussed further in ISO/IEC 29500-2.)

10. §9.2, “Relationships in Office Open XML”, p. 23

All other relationships are implicit. [Note: ... end note].

11. §10.1.2, “Office Open XML Native Extensibility Constructs”, p. 28

See the reference material in §17–23 ...

12. §11.3.1, “Alternative Format Import Part”, p. 32

Content Type:	<p>One of the following formats:</p> <ul style="list-style-type: none"> • Text = application/text/plain • HTML = application/text/html • WordprocessingML = application/vnd.openxmlformats-officedocument.wordprocessingml.document • XHTML = application/xhtml+xml
---------------	---

13. §11.3.11, “Numbering Definitions Part”, p. 55

```
<w:lvl w:ilvl="0" w:tplc="151C4798">
...
<w:lvlJc w:val="startleft" />
```

```
...
</w:lvl>
```

14. §11.3.11, “Numbering Definitions Part”, p. 55

```
<w:pPr>
  <w:tabs>
    <w:tab w:val="list" w:pos="720"/>
  </w:tabs>
  <w:ind w:startleft="720" w:hanging="360"/>
</w:pPr>
```

15. §11.3.11, “Numbering Definitions Part”, p. 55

```
<w:pPr>
  <w:tabs>
    <w:tab w:val="numlist" w:pos="720"/>
  </w:tabs>
  <w:ind w:left="720" w:hanging="360"/>
</w:pPr>
```

16. §11.3.12, “Style Definitions Part”, p. 55

```
<w:styles xmlns:wx="..." xmlns:w="..." ... xml:space="preserve">
...
</w:styles>
```

17. §11.3.12, “Style Definitions Part”, p. 56

```
<w:pPr>
  <w:pStyle w:val="ListBullet"/>
...
  <w:ind w:startleft="648"/>
</w:pPr>
```

18. §11.6, “Master Documents and Subdocuments”, p. 59

```
<w:document xmlns:r="..." xmlns:w="..." ...>
...
</w:document>
```

19. §12.3.7, “Dialogsheet Part”, p. 76

```
<sheets>
...
<sheet name="Dialog1" tabId="4" type="dialog" r:id="rId2"/>
</sheets>
```

20. §12.3.7, “Dialogsheet Part”, p. 76

```
<sheets>
...
<sheet name="Dialog1" tabsheetId="4" type="dialog" r:id="rId2"/>
</sheets>
```

21. §12.3.9, “External Workbook References Part”, p. 79

```
<sheets>
<sheet name="Sheet1" tabsheetId="1" r:id="rId1"/>
<sheet name="Sheet2" tabsheetId="2" r:id="rId2"/>
<sheet name="Sheet3" tabsheetId="3" r:id="rId3"/>
</sheets>
```

22. §12.3.10, “Metadata Part”, pp. 82–83

```
<pivotCacheDefinition ... saveData="0" refreshedBy="..."
refreshedDateIso="2005-11-28T16:55:44" backgroundQuery="1" createdVersion="3"
refreshedVersion="3" recordCount="0">
...
</pivotCacheDefinition>
```

23. §12.3.12, “Pivot Table Cache Definition Part”, p. 85

```
<pivotCacheDefinition ... r:id="rId1" refreshedBy="John Jones"
refreshedDateIso="2005-11-18T16:47:49" createdVersion="3"
refreshedVersion="3" recordCount="11">
...
</pivotCacheDefinition>
```

24. §12.3.20, “Styles Part”, p. 94

Root Namespace:	http://schemas.openxmlformats.org/spreadsheetml/2006/main s
-----------------	--

25. §12.3.23, “Workbook Part”, p. 98

```
<sheets>
  <sheet name="January" tabsheetId="1" r:id="rId1"/>
  <sheet name="February" tabsheetId="2" r:id="rId2"/>
  <sheet name="March" tabsheetId="3" r:id="rId3"/>
</sheets>
```

26. §12.3.24, “Worksheet Part”, p. 101

A Worksheet part is permitted to have implicit relationships to the following parts defined by ISO/IEC 29500:

- Comments (§12.3.3)
- Pivot Table Definitions (§12.3.11)
- Printer Settings (§15.2.15)
- [Query Table Part \(§12.3.14\)](#)
- Single Cell Table Definitions (§12.3.19)
- Table Definition (§12.3.21)

27. §15.2.15, “Printer Settings Part”, p. 162

[Example: ... here: http://... end example]

28. §17.2.1, “background (Document Background)”, p. 193, attribute color

Change “... end example]. RGB ...” to “... end example]. RGB ...”

29. §17.3.1.12, “ind (Paragraph Indentation)”, p. 226

```
<w:pPr>
  <w:ind w:startleft="1440" w:endright="1440" w:hanging="1080" />
</w:pPr>
```

30. §17.3.1.13, “jc (Paragraph Alignment)”, p. 231

```
<w:pPr>
  <w:jc w:val="endright" />
</w:pPr>
```

31. §17.3.1.27, “pStyle (Referenced Paragraph Style)”, p. 253

[Example: Consider the following WordprocessingML fragment:

```
<w:pPr>
  <w:pStyle w:val="TestParagraphStyle" />
```

```
<w:ind w:startleft="1440" />
</w:pPr>
```

This paragraph specifies that it inherits all of the paragraph properties specified by the paragraph style with a styleId of TestParagraphStyle, which then has any indentation properties overridden with a startleft indentation of 1440 twentieths of a point, and no indentation for any other value. *end example*]

32. §17.3.1.27, “pStyle (Referenced Paragraph Style)”, p. 253, attribute val

Attributes	Description
val (String Value)	... [Example: Consider the following WordprocessingML fragment: <w:pPr> <w:pStyle w:val="Heading1heading1" /> </w:pPr> ...]

33. §17.3.1.30, “rPr (Previous Run Properties for the Paragraph Mark)”, p. 258

```
<w:lang w:val="en-CAca" />
```

34. §17.3.1.37, “tab (Custom Tab Stop)”, p. 269

```
<w:tab w:val="startleft" w:pos="2160" />
```

35. §17.3.1.37, “tab (Custom Tab Stop)”, p. 270, attribute pos

```
<w:tab w:val="startleft" w:pos="2160" />
```

36. §17.3.1.37, “tab (Custom Tab Stop)”, p. 270, attribute val

```
<w:tab w:val="startleft" w:pos="2160" />
```

37. §17.3.1.38, “tabs (Set of Custom Tab Stops)”, p. 271

```
<w:pPr>
  <w:tabs>
    <w:tab w:val="startleft" w:pos="2160" />
    <w:tab w:val="startleft" w:pos="5040" />
  </w:tabs>
</w:pPr>
```

38. §17.3.1.39, “textAlignment (Vertical Character Alignment on Line)”, p. 272, attribute val

```
<w:pPr>
  <w:textAlignment w:val="baseLine" />
</w:pPr>
```

39. §17.3.1.40, “textboxTightWrap (Allow Surrounding Paragraphs to Tight Wrap to Text Box Contents)”, p. 273

```
<w:pPr>
  <w:textboxTightWrap w:val="allLines" />
</w:pPr>
```

40. §17.3.1.41, “textDirection (Paragraph Text Flow Direction)”, p. 275

[Example: Consider a document with a paragraph in which text must be oriented vertically, flowing from left to right horizontally on the page. ~~should flow bottom to top vertically, and left to right horizontally.~~ This setting would be specified with the following WordprocessingML:

```
<w:pPr>
  <w:textDirectionFlow w:val="lrbtLr" />
</w:pPr>
```

The textDirectionFlow element specifies via the lrbtLr value in the val attribute that the text flow must be oriented vertically, with subsequent lines stacked from left to right. ~~should go bottom to top, and left to right.~~ end example]

41. §17.3.1.41, “textDirection (Paragraph Text Flow Direction)”, p. 275, attribute val

[Example: Consider a document with a section in which text must be oriented vertically, flowing from left to right horizontally on the page. ~~should flow bottom to top vertically, and left to right horizontally.~~ This setting requires the following WordprocessingML:

```
<w:sectPr>
  ...
  <w:textDirection w:val="lrbtLr" />
</w:sectPr>
```

The textDirection element specifies via the lrbtLr value in the val attribute that the text flow must be oriented vertically, with subsequent lines stacked from left to right. ~~should go bottom to top, and left to right.~~ end example]

42. §17.3.2.5, “caps (Display All Characters As Capital Letters)”, p. 285

[Example: Consider the words Hello, World, which must be displayed in all capital letters in a document. This constraint is specified as follows in the WordprocessingML:

```
<w:r>
  <w:rPr>
    <w:caps w:val="true" />
  </w:rPr>
  <w:t>Hello, World</w:t>
</w:r>
```

This run displays as HELLO, WORLD, even though the lowercase characters are used in the run contents due to the use of the caps element. If this property is removed, the original character forms is displayed (they are not lost). *end example*

43. §17.3.2.26, “rFonts (Run Fonts)”, p. 317, attribute cs

If the cs~~T~~heme attribute is also specified, then this attribute shall be ignored and that value shall be used instead.

44. §17.3.2.26, “rFonts (Run Fonts)”, p. 318, attribute cstheme

[Example: Consider a run of Arabic text that~~which~~ must be displayed using the majorBidi theme font. This requirement would be specified as follows in the resulting WordprocessingML:

```
<w:rPr>
  <w:rFonts w:csTheme="majorBidi" />
</w:rPr>
```

The cs~~T~~heme attribute specifies that the run must use the majorBidi theme font as defined in the document's themes part for all text in a complex script range. *end example*

45. §17.3.2.27, “rPr (Previous Run Properties)”, p. 321

```
<w:lang w:val="en-CAea" />
```

46. §17.3.2.28, “rPr (Run Properties)”, p. 323

```
<w:lang w:val="en-CAea" />
```

47. §17.3.2.29, “rStyle (Referenced Character Style)”, p. 326, attribute val

Attributes	Description
val (String Value)	<p>...</p> <p>[Example: Consider the following WordprocessingML fragment:</p> <pre><w:pPr> <w:pStyle w:val="Heading1heading1" /> </w:pPr></pre> <p>...</p>

48. §17.3.2.33, “smallCaps (Small Caps)”, p. 330

[Example: Consider the words Hello, World, which must be displayed in small capital letters in a document. This constraint is specified as follows in the WordprocessingML:

```
<w:r>
  <w:rPr>
    <w:smallCaps w:val="true" />
    <w:sz w:val="24" />
  </w:rPr>
  <w:t>Hello, World</w:t>
</w:r>
```

... end example]

49. §17.3.3.18, “noBreakHyphen (Non Breaking Hyphen Character)”, pp. 363–364

This element specifies that a non-breaking hyphen character shall be placed at the current location in the run content. ~~A non-breaking hyphen is the equivalent of Unicode character 002D (the hyphen-minus); however, it shall not be used as a line-breaking character for the current line of text when displaying this WordprocessingML content.~~

The behavior of a non-breaking hyphen in run content shall be to display using the same glyph as the hyphen-minus character (U+002D), however, without that hyphen being a line breaking position (unlike the hyphen-minus character, which does allow line breaking).

[Example: Consider the following sentence in a WordprocessingML document: ‘Each citizen has a unique Social Security Number of the form “999-99-9999”, where each 9 represents a decimal digit.’ The fragment of this sentence involving the string literal might be represented in WordprocessingML, as follows:

```
<w:r>  
  <w:t>Number of the form “999-99-9999”, where</w:t>  
</w:r>
```

However, consider the case in which, on rendering, the right margin was such that the quoted string is broken across multiple lines with the hyphens being used as possible line breaking points; for example:

Each citizen has a unique Social Security Number of the form “999-99-9999”, where ...

If such line breaks are undesirable, those hyphens can be marked as non-breaking, as follows:

```
<w:r>  
  <w:t>Number of the form “999</w:t>  
</w:r>  
<w:r>  
  <w:noBreakHyphen />  
  <w:t>99</w:t>  
</w:r>  
<w:r>  
  <w:noBreakHyphen />  
  <w:t>9999”, where</w:t>  
</w:r>
```

in which case, for the same margin settings, the rendered result might be like the following:

Each citizen has a unique Social Security Number of the form
“999-99-9999”, where ...

end example]

[Example: Consider the following sentence in a WordprocessingML document:

~~This makes a very very very wordy and deliberately overcomplicated sentence.~~

Normally, just as shown above, this sentence not would be displayed on a single line as it is long enough to require line breaking (given the width of the current page). However, if a hyphen-minus were inserted after the letter s in sentence, as follows:

```
<w:r>  
  <w:t>This makes a very very very wordy and deliberately overcomplicated s-  
  entence.</w:t>  
</w:r>
```

This would allow a break at that position, and break the word after that character:

~~This makes a very very very wordy and deliberately overcomplicated s entence.~~

If this was not desired, the non-breaking hyphen character could be specified as follows:

```
<w:r>
—<w:t>This makes a very very very wordy and deliberately overcomplicated
s</w:t>
—<w:nonBreakHyphen/>
—<w:t>entence.</w:t>
</w:r>
```

This would display a hyphen character, but would not allow the text to break at that location:

~~This makes a very very very wordy and deliberately overcomplicated s entence.~~

end example]

50. §17.3.3.20, “objectEmbed (Embedded Object Properties)”, p. 366, attribute fieldCodes

Attributes	Description
fieldCodes (Field Switches)	<p>This element specifies the WordprocessingML field switches which shall be stored with an embedded object, using the set of field switches defined by the LINK field, as specified in §17.16.5.32. This element shall specify the exact field switches for the field which represents the object.</p> <p>...</p> <p>[Example:</p> <pre><w:objectEmbed ... fieldCodes="\f 0"/></pre> <p>This embedded object specifies additional LINK field code values of \f 0, which specifies that the embedded object must retain its source formatting (as defined in §17.16.5.32).</p> <p><i>end example]</i></p> <p>...</p>

51. §17.3.3.21, “objectLink (Linked Object Properties)”, p. 368, attribute fieldCodes

Attributes	Description
fieldCodes (Field Switches)	<p>This element specifies the WordprocessingML field switches which shall be stored with an embedded object, using the set of field switches defined by the LINK field, as specified in §17.16.5.32. This element shall specify the exact field switches for the field which represents the object.</p> <p>...</p> <p>[Example:</p> <pre><w:objectEmbed ... fieldCodes="\f 0"/></pre> <p>This embedded object specifies additional LINK field code values of \f 0, which specifies that the embedded object must retain its source formatting (as defined in §17.16.5.32).</p> <p>end example]</p> <p>...</p>

52. §17.3.3.23, “ptab (Absolute Position Tab Character)”, p. 371

```
<w:pPr>
  <w:tabs>
    <w:tab w:val="startleft" w:pos="2160" />
    <w:tab w:val="startleft" w:pos="5040" />
  </w:tabs>
</w:pPr>
```

53. §17.3.3.32, “tab (Tab Character)”, p. 383

```
<w:pPr>
  <w:tabs>
    <w:tab w:val="startleft" w:pos="2160" />
    <w:tab w:val="startleft" w:pos="5040" />
  </w:tabs>
</w:pPr>
```

54. §17.3.4, “Border Properties (CT_Border)”, p. 388, attribute themeShade

Change “... instance. If the ...” to “... instance. If the ...”

55. §17.4, “Tables”, p. 399

```
<w:tblBorders>
  ...
  <w: startleft w:val="single" w:sz="4" w:space="0" w:color="auto"/>
```

```

...
<w:underline w:val="single" w:sz="4" w:space="0" w:color="auto"/>
</w:tblBorders>

```

56. §17.4.18, “header (Header Cell Reference)”, p. 431, attribute val

Attributes	Description
val (String Value)	<p>...</p> <p>[Example: Consider the following WordprocessingML fragment:</p> <pre> <w:pPr> <w:pStyle w:val="Heading1heading1" /> </w:pPr> </pre> <p>...</p>

57. §17.4.22, “hMerge (Horizontally Merged Cell)”, p. 436

```

<w:tc>
  <w:tcPr>
    <w:hMerge w:val="restart"/>
  </w:tcPr>
  ...
</w:tc>
<w:tc>
  <w:tcPr>
    <w:hMerge/>
  </w:tcPr>
  ...
</w:tc>
...

```

The `hMerge` element defines the cells `thatwhich` are horizontally merged, and how each group is merged together. *end example*

58. §17.4.22, “hMerge (Horizontally Merged Cell)”, p. 436, attribute val

```

<w:tcPr>
  <w:hMerge w:val="restart"/>
</w:tcPr>

```

59. §17.4.27, “jc (Table Alignment Exception)”, p. 441

```
<w:tblPrEx>
  <w:jc w:val="startleft"/>
</w:tblPrEx>
```

60. §17.4.28, “jc (Table Row Alignment)”, p. 442

```
<w:trPr>
  <w:jc w:val="startleft"/>
</w:trPr>
```

61. §17.4.29, “jc (Table Alignment)”, p. 443

```
<w:tblPr>
  <w:jc w:val="endright"/>
</w:tblPr>
```

62. §17.4.31, “shd (Table Shading Exception)”, p. 446

```
<w:tblPrEx>
  <w:jc w:val="startleft" />
  <w:shd w:val="clear" w:color="auto" w:fill="EEEECE1" w:themeFill="background2"
  />
</w:tblPrEx>
```

63. §17.4.38, “tbl (Table)”, p. 453

```
<w:tblBorders>
  ...
  <w:startleft w:val="single" w:sz="4" w:space="0" w:color="auto"/>
  ...
  <w:endright w:val="single" w:sz="4" w:space="0" w:color="auto"/>
</w:tblBorders>
```

64. §17.4.39, “tblBorders (Table Borders)”, p. 455

```
<w:tblBorders>
  ...
  <w:startleft w:val="single" w:sz="4" w:space="0" w:color="000000"
  w:themeColor="text1"/>
  ...
  <w:endright w:val="single" w:sz="4" w:space="0" w:color="000000"
  w:themeColor="text1"/>
```

```
...
<w:tblBorders>
```

65. §17.4.40, “tblBorders (Table Borders Exceptions)”, p. 457

```
<w:tblBorders>
...
<w:startleft w:val="single" w:sz="24" w:space="0" w:color="000000"
  w:themeColor="text1"/>
...
<w:endright w:val="single" w:sz="24" w:space="0" w:color="000000"
  w:themeColor="text1"/>
...
</w:tblBorders>
```

66. §17.4.41, “tblCaption (Table Caption)”, p. 458, attribute val

Attributes	Description
val (String Value)	<p>...</p> <p>[Example: Consider the following WordprocessingML fragment:</p> <pre><w:pPr> <w:pStyle w:val="Heading1heading1" /> </w:pPr></pre> <p>...</p>

67. §17.4.42, “tblCellMar (Table Cell Margin Exceptions)”, p. 459

```
<w:tblCellMar>
...
<w:startleft w:w="144" w:type="dxa"/>
...
<w:endright w:w="144" w:type="dxa"/>
</w:tblCellMar>
```

68. §17.4.43, “tblCellMar (Table Cell Margin Defaults)”, p. 460

```
<w:tblCellMar>
...
<w:startleft w:w="144" w:type="dxa"/>
...
<w:endright w:w="144" w:type="dxa"/>
</w:tblCellMar>
```

69. §17.4.47, “tblDescription (Table Description)”, p. 465, attribute val

Attributes	Description
val (String Value)	... [Example: Consider the following WordprocessingML fragment: <w:pPr> <w:pStyle w:val="Heading1heading1" /> </w:pPr> ...]

70. §17.4.51, “tblInd (Table Indent from Leading Margin)”, p. 469

```
<w:tblPr>  
  <w:jc w:val="startleft"/>  
  <w:tblInd w:w="1440" w:type="dxa"/>  
</w:tblPr>
```

...

```
<w:tblPr>  
  <w:jc w:val="endright"/>  
  <w:tblInd w:w="1440" w:type="dxa"/>  
</w:tblPr>
```

71. §17.4.59, “tblPr (Previous Table Properties)”, p. 483

```
<w:tblPr>  
  ...  
  <w:tblLook w:val="04A0" w:firstRow="true" w:firstColumn="true"  
    w:noVBand="true" />  
  <w:tblPrChange w:id="0" ... >  
  <w:tblPr>  
    ...  
    <w:tblLook w:val="04A0" w:firstRow="true" w:firstColumn="true"  
      w:noVBand="true" />  
  </w:tblPr>  
</w:tblPrChange>  
</w:tblPr>
```

72. §17.4.60, “tblPr (Table Properties)”, p. 485

```
<w:tblBorders>  
  ...
```

```

<w:startleft w:val="single" w:sz="4" w:space="0" w:color="auto"/>
...
<w:enderight w:val="single" w:sz="4" w:space="0" w:color="auto"/>
...
</w:tblBorders>

```

73. §17.4.61, “tblPrEx (Table-Level Property Exceptions)”, p. 487

```

<w:tblBorders>
...
<w:startleft w:val="thinThickThinMediumGap" w:sz="24" w:space="0"
  w:color="auto"/>
...
<w:enderight w:val="thinThickThinMediumGap" w:sz="24" w:space="0"
  w:color="auto"/>
...
</w:tblBorders>

```

74. §17.4.62, “tblPrEx (Previous Table-Level Property Exceptions)”, p. 489

```

<w:tr>
  <w:tblPrEx>
    <w:tblBorders>
      ...
      <w:startleft w:val="thinThickThinMediumGap" w:sz="24" w:space="0"
        w:color="auto"/>
      ...
      <w:enderight w:val="thinThickThinMediumGap" w:sz="24" w:space="0"
        w:color="auto"/>
      ...
    </w:tblBorders>
    <w:tblPrExChange w:id="9" ... >
      <w:tblPrEx>
        <w:tblBorders>
          ...
          <w:startleft w:val="thinThickThinSmallGap" w:sz="24" w:space="0"
            w:color="FF0000"/>
          ...
          <w:enderight w:val="thinThickThinSmallGap" w:sz="24" w:space="0"
            w:color="FF0000"/>
          ...
        </w:tblBorders>
      ...
    </w:tblPrExChange>
  </w:tblPrEx>
</w:tr>

```

75. §17.4.63, “tblStyle (Referenced Table Style)”, p. 491, attribute val

Attributes	Description
val (String Value)	... [Example: Consider the following WordprocessingML fragment: <w:pPr> <w:pStyle w:val="Heading1heading1" /> </w:pPr> ...]

76. §17.4.65, “tblW (Preferred Table Width Exception)”, p. 493

```
<w:tblPrEx>  
  <w:tblW w:type="autofixed" w:w="1440"/>  
</w:tblPrEx>
```

77. §17.4.66, “tc (Table Cell)”, pp. 494–495

[Example: Consider a table consisting of a single table cell, which contains the text Hello, World:

Hello, <u>W</u> orld

This table cell's content is represented by the following WordprocessingML:

```
<w:tc>  
  <w:tcPr>  
    <w:tcW w:w="0" w:type="auto"/>  
  </w:tcPr>  
  <w:p>  
    <w:r>  
      <w:t>Hello, World</w:t>  
    </w:r>  
  </w:p>  
</w:tc>
```

... end example]

78. §17.4.67, “tcBorders (Table Cell Borders)”, p. 499

```
<w:tcPr>  
  <w:tcBorders>  
  
  ...
```

```

<w:startleft w:val="double" w:sz="24" w:space="0" w:color="FF0000"/>
...
<w:endright w:val="double" w:sz="24" w:space="0" w:color="FF0000"/>
</w:tcBorders>
</w:tcPr>

```

79. §17.4.69, “tcMar (Single Table Cell Margins)”, p. 501

```

<w:tcMar>
  <w:top w:w="720" w:type="dxa"/>
  <w:startleft w:w="720" w:type="dxa"/>
  <w:bottom w:w="720" w:type="dxa"/>
  <w:endright w:w="720" w:type="dxa"/>
</w:tcMar>

```

80. §17.4.70, “tcPr (Table Cell Properties)”, p. 502

```

<w:tbl>
  <w:tblPr>
    <w:tblCellMar>
      <w:startleft w:w="0" w:type="dxa"/>
    </w:tblCellMar>
  </w:tblPr>
  ...
  <w:tr>
    <w:tc>
      <w:tcPr>
        <w:tcMar>
          <w:startleft w:w="720" w:type="dxa"/>
        </w:tcMar>
      </w:tcPr>
      ...
    </w:tc>
  </w:tr>
</w:tbl>

```

81. §17.4.73, “textDirection (Table Cell Text Flow Direction)”, p. 507

[Example: Consider a table with one cell in which all the table cell's text flow is [oriented vertically, flowing from right to left horizontally within that cell](#)~~top to bottom – right to left~~:

Text in this table cell

This table cell would specify this text flow using the following WordprocessingML:

```
<w:tc>
  <w:tcPr>
    ...
    <w:textDirection w:val="r1tbR1" />
  </w:tcPr>
  ...
</w:tc>
```

The textDirection element specifies via the r1tbR1 value in the val attribute that the text flow is to be oriented vertically, with subsequent lines stacked from right to left.~~should go top to bottom, then right to left.~~ end example]

82. §17.4.73, “textDirection (Table Cell Text Flow Direction)”, p. 508, attribute val

[Example: Consider a document with a section in which text must be oriented vertically, flowing from left to right horizontally on the page.~~should flow bottom to top vertically, and left to right horizontally.~~ This setting requires the following WordprocessingML:

```
<w:sectPr>
  ...
  <w:textDirection w:val="lrbtLr" />
</w:sectPr>
```

The textDirection element specifies via the lrbtLr value in the val attribute that the text flow must be oriented vertically, with subsequent lines stacked from left to right.~~go bottom to top, and left to right.~~ end example]

83. §17.4.79, “tr (Table Row)”, pp. 512–513

[Example: Consider a table consisting of a single table cell, which contains the text Hello, World:

Hello World

This table row's content is represented by the following WordprocessingML:

```
<w:tr>
  <w:tc>
    <w:tcPr>
      <w:tcW w:w="0" w:type="auto"/>
    </w:tcPr>
    <w:p>
      <w:r>
        <w:t>Hello, Wworld</w:t>
      </w:r>
    </w:p>
  </w:tc>
</w:tr>
```

... end example]

84. §17.4.85, “vMerge (Vertically Merged Cell)”, pp. 523–524

```
<w:tc>
  <w:tcPr>
    <w:vMerge w:val="restart"/>
  </w:tcPr>
  ...
</w:tc>
...
<w:tc>
  <w:tcPr>
    <w:vMerge w:val="continue"/>
  </w:tcPr>
  ...
</w:tc>
...
<w:tc>
  <w:tcPr>
    <w:vMerge w:val="continue"/>
  </w:tcPr>
  ...
</w:tc>
...
```

The v~~M~~erge element defines the cells ~~that~~which are vertically merged, and how each cell is merged together.
end example]

85. §17.4.85, “vMerge (Vertically Merged Cell)”, pp. 523–524, attribute val

```
<w:tcPr>  
  <w:vMerge w:val="restart"/>  
</w:tcPr>
```

86. §17.4.88, “Table Measurement (CT_TblWidth)”, p. 527

Attributes	Description
type (Table Width Type)	... [Example: ... end example] <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> ...

87. §17.5, “Custom Markup”, p. 528

For these scenarios, multiple facilities are provided for the ~~insertion and round-tripping~~inclusion of customer-defined semantics within a WordprocessingML document.

88. §17.5.1, “Custom XML and Smart Tags”, p. 529

The next ~~form~~example of customer-defined semantics ~~that~~which can be embedded in a WordprocessingML document is custom XML markup.

89. §17.5.1, “Custom XML and Smart Tags”, p. 529

Custom XML markup allows the application of the XML elements defined in any schema syntax (XML Schema, NVDL, etc.) to be applied to the contents of a WordprocessingML document in ~~one of~~ two types of locations:

90. §17.5.1, “Custom XML and Smart Tags”, p. 530

~~Similar to the smart tag example above, a~~A custom XML element in a document has two required attributes:

91. §17.5.1.1, “attr (Custom XML Attribute)”, p. 531

The attributes on this element shall be used to specify ~~the contents~~the Namespace URI, name, and content of the custom XML attribute.

92. §17.5.1.1, “attr (Custom XML Attribute)”, p. 531

This ~~property bag~~ [set of custom XML properties](#) specifies that the parent custom XML element must have two attributes associated with it, the first with a name of `companyName`, and the second with a name of `companySymbol`. *end example*]

93. §17.5.1.3, “customXml, Inline-Level Custom XML Element”, p. 534

Parent Elements
bdo (§17.3.2.3); customXml (§17.5.1.3); deg (§22.1.2.26) ; del (§17.13.5.14); den (§22.1.2.28) ; dir (§17.3.2.8); e (§22.1.2.32) ; fldSimple (§17.16.19); fName (§22.1.2.37) ; hyperlink (§17.16.22); ins (§17.13.5.18); lim (§22.1.2.52) ; moveFrom (§17.13.5.22); moveTo (§17.13.5.25); num (§22.1.2.75) ; oMath (§22.1.2.77); p (§17.3.1.22); sdtContent (§17.5.2.36); smartTag (§17.5.1.9); sub (§22.1.2.112) ; sup (§22.1.2.114)

94. §17.5.1.8, “placeholder (Custom XML Element Placeholder Text)”, p. 545–546, attribute val

Attributes	Description
val (String Value)	... [Example: Consider the following WordprocessingML fragment: <pre><w:pPr> <w:pStyle w:val="Heading1heading1" /> </w:pPr></pre> ...

95. §17.5.1.9, “SmartTag, Inline-Level Smart Tag”, p. 547

Parent Elements
bdo (§17.3.2.3); customXml (§17.5.1.3); deg (§22.1.2.26) ; del (§17.13.5.14); den (§22.1.2.28) ; dir (§17.3.2.8); e (§22.1.2.32) ; fldSimple (§17.16.19); fName (§22.1.2.37) ; hyperlink (§17.16.22); ins (§17.13.5.18); lim (§22.1.2.52) ; moveFrom (§17.13.5.22); moveTo (§17.13.5.25); num (§22.1.2.75) ; oMath (§22.1.2.77); p (§17.3.1.22); sdtContent (§17.5.2.36); smartTag (§17.5.1.9); sub (§22.1.2.112) ; sup (§22.1.2.114)

96. §17.5.2.1, “alias (Friendly Name)”, p. 551, attribute val

Attributes	Description
val (String Value)	... [Example: Consider the following WordprocessingML fragment: <w:pPr> <w:pStyle w:val="Heading1heading1" /> </w:pPr> ...]

97. §17.5.2.5, “comboBox (Combo Box Structured Document Tag)”, p. 554

- The child elements of this element specify choices which shall be presented to the user
~~displayed in a standard drop-down list format~~

98. §17.5.2.5, “comboBox (Combo Box Structured Document Tag)”, pp. 555–556

[Example: Consider a combo box structured document tag defined as follows:

```
<w:sdt>
  <w:sdtPr>
    <w:dataBinding ... />
    <w:comboBox w:lastValue="2"/>
  </w:sdtPr>
  <w:sdtContent>
    <w:r>
      <w:t>Hello_ world</w:t>
    </w:r>
  </w:sdtContent>
</w:sdt>
```

The current run content of the structured document tag reads Hello_ world. When this document is opened, if the current value of the associated custom XML data is 2, the matching lastValue attribute specifies that the contents of the combo box must continue to be the current display text of the combo box_ even though there is no listItem whose value is 2 (and normally, the content of the structured document tag would be set to 2. Essentially, this attribute specifies a listItem whose value is 2 and whose displayText is Hello_ world (the current structured document tag contents). *end example*]

99. §17.5.2.8, “dateFormat (Date Display Mask)”, p. 562, attribute val

Attributes	Description
val (String Value)	<p>...</p> <p>[Example: Consider the following WordprocessingML fragment:</p> <pre><w:pPr> <w:pStyle w:val="Heading1heading1" /> </w:pPr></pre> <p>...</p>

100. §17.5.2.9, “docPart (Document Part Reference)”, p. 563, attribute val

Attributes	Description
val (String Value)	<p>...</p> <p>[Example: Consider the following WordprocessingML fragment:</p> <pre><w:pPr> <w:pStyle w:val="Heading1heading1" /> </w:pPr></pre> <p>...</p>

101. §17.5.2.10, “docPartCategory (Document Part Category Filter)”, p. 564–565, attribute val

Attributes	Description
val (String Value)	<p>...</p> <p>[Example: Consider the following WordprocessingML fragment:</p> <pre><w:pPr> <w:pStyle w:val="Heading1heading1" /> </w:pPr></pre> <p>...</p>

102. §17.5.2.11, “docPartGallery (Document Part Gallery Filter)”, p. 566, attribute val

Attributes	Description
val (String Value)	... [Example: Consider the following WordprocessingML fragment: <w:pPr> <w:pStyle w:val="Heading1heading1" /> </w:pPr> ...]

103. §17.5.2.15, “dropDownList (Drop-Down List Structured Document Tag)”, p. 570

[Example: Consider a drop-down list structured document tag defined as follows:

```
<w:sdt>
  <w:sdtPr>
    <w:dataBinding ... />
    <w:dropDownList w:lastValue="2"/>
  </w:sdtPr>
  <w:sdtContent>
    <w:r>
      <w:t>Hello_ world</w:t>
    </w:r>
  </w:sdtContent>
</w:sdt>
```

The current run content of the structured document tag reads Hello_ world. When this document is opened, if the current value of the associated custom XML data is 2, the matching lastValue attribute specifies that the contents of the combo box must continue to be the current display text of the combo box_ even though there is no listItem whose value is 2 (and normally, the content of the structured document tag would be set to 2. Essentially, this attribute specifies a listItem whose value is 2 and whose displayText is Hello_ world (the current structured document tag contents). end example]

104. §17.5.2.31, “sdt, Inline-Level Structured Document Tag”, p. 590

Parent Elements
bdo (§17.3.2.3); customXml (§17.5.1.3); deg (§22.1.2.26) ; del (§17.13.5.14); den (§22.1.2.28) ; dir (§17.3.2.8); e (§22.1.2.32) ; fldSimple (§17.16.19); fName (§22.1.2.37) ; hyperlink (§17.16.22); ins (§17.13.5.18); lim (§22.1.2.52) ; moveFrom (§17.13.5.22); moveTo (§17.13.5.25); num (§22.1.2.75) ; oMath (§22.1.2.77) ; p (§17.3.1.22); sdtContent (§17.5.2.36); smartTag (§17.5.1.9); sub (§22.1.2.112) ; sup (§22.1.2.114)