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## Revision Summary

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</table>
Table of Contents

1 Introduction ................................................................................................................. 9
  1.1 Glossary .................................................................................................................. 9
  1.2 References ............................................................................................................. 9
    1.2.1 Normative References .................................................................................... 10
    1.2.2 Informative References .................................................................................. 10
  1.3 Structure Overview (Synopsis) ............................................................................... 11
  1.4 Relationship to Protocols and Other Structures .................................................... 11
  1.5 Applicability Statement ......................................................................................... 12
  1.6 Versioning and Localization ................................................................................. 12
  1.7 Vendor-Extensible Fields ....................................................................................... 12

2 Structures ................................................................................................................. 13
  2.1 Part Enumerations ................................................................................................. 13
    2.1.1 stylesWithEffects ............................................................................................ 13
    2.1.2 commentsExtended ......................................................................................... 13
    2.1.3 people ............................................................................................................. 13
    2.1.4 commentsIds .................................................................................................. 13
    2.1.5 commentsExtensible ....................................................................................... 13
  2.2 Extensions ............................................................................................................. 13
    2.2.1 rPr Extensions ................................................................................................. 13
    2.2.2 Settings Extensions ......................................................................................... 13
    2.2.3 sdtPr Extensions .............................................................................................. 14
    2.2.4 p and tr Extensions ......................................................................................... 14
    2.2.5 Conflict Extensions ......................................................................................... 14
    2.2.6 Pict and Object Extensions .............................................................................. 14
    2.2.7 Calendar Type Extensions .............................................................................. 14
    2.2.8 sectPr Extensions ............................................................................................ 15
    2.2.9 pPr Extensions ................................................................................................ 15
    2.2.10 Numbering Definition Extensions ................................................................ 15
    2.2.11 r Extensions .................................................................................................. 15
    2.2.12 dataBinding Extensions ................................................................................ 15
  2.3 compatSetting elements ......................................................................................... 15
    2.3.1 overrideTableStyleFontSizeAndJustification .................................................. 15
    2.3.2 doNotFlipMirrorIndents ................................................................................. 16
    2.3.3 enableOpenTypeFeatures .............................................................................. 16
    2.3.4 differentiateMultirowTableHeaders ............................................................... 17
    2.3.5 compatibilityMode .......................................................................................... 17
    2.3.6 allowTextAfterFloatingTableBreak ............................................................... 18
    2.3.7 allowHyphenationAtTrackBottom ................................................................. 18
    2.3.8 useWord2013TrackBottomHyphenation ......................................................... 19
  2.4 numFmt Extensions ............................................................................................... 19
  2.5 http://schemas.microsoft.com/office/word/2012/wordml .................................... 26
  2.5.1 Elements .......................................................................................................... 26
    2.5.1.1 appearance ................................................................................................. 26
    2.5.1.2 chartTrackingRefBased ............................................................................. 26
    2.5.1.3 collapsed ...................................................................................................... 27
    2.5.1.4 color ............................................................................................................. 27
    2.5.1.5 commentsEx ................................................................................................ 28
    2.5.1.6 dataBinding .................................................................................................. 28
    2.5.1.7 docId ............................................................................................................. 28
    2.5.1.8 footnoteColumns ......................................................................................... 29
    2.5.1.9 people .......................................................................................................... 29
    2.5.1.10 repeatingSection ........................................................................................ 29
    2.5.1.11 repeatingSectionItem ................................................................................ 30
    2.5.1.12 webExtensionCreated ............................................................................... 30
2.5.1.13 webExtensionLinked .......................................................... 30
2.5.2 Attributes ........................................................................... 31
2.5.2.1 restartNumberingAfterBreak ............................................. 31
2.5.3 Complex Types ................................................................. 31
2.5.3.1 CT_CommentEx ................................................................. 31
2.5.3.2 CT_CommentsEx ................................................................. 32
2.5.3.3 CT_Guid .............................................................................. 32
2.5.3.4 CT_People ........................................................................... 33
2.5.3.5 CT_Person ......................................................................... 33
2.5.3.6 CT_PresenceInfo ............................................................... 34
2.5.3.7 CT_SdtAppearance ........................................................... 34
2.5.3.8 CT_SdtRepeatedSection .................................................... 35
2.5.4 Simple Types ................................................................. 35
2.5.4.1 ST_Guid ............................................................................. 35
2.5.4.2 ST_SdtAppearance ........................................................... 36
2.6 http://schemas.microsoft.com/office/word/2010/wordml .................... 36
2.6.1 Elements ........................................................................... 36
2.6.1.1 checkbox ................................................................. 36
2.6.1.2 cntxtAlts ................................................................. 37
2.6.1.3 conflictDel ................................................................. 37
2.6.1.4 conflictDel ................................................................. 37
2.6.1.5 conflictIns ................................................................. 38
2.6.1.6 conflictIns ................................................................. 38
2.6.1.7 conflictMode ................................................................. 38
2.6.1.8 customXmlConflictDelRangeEnd ........................................ 39
2.6.1.9 customXmlConflictDelRangeStart .................................... 39
2.6.1.10 customXmlConflictInsRangeEnd ..................................... 39
2.6.1.11 customXmlConflictInsRangeStart ................................... 39
2.6.1.12 defaultImageDpi .......................................................... 40
2.6.1.13 discardImageEditingData .............................................. 40
2.6.1.14 docId .............................................................................. 40
2.6.1.15 entityPicker ................................................................. 41
2.6.1.16 glow ................................................................................. 42
2.6.1.17 ligatures ................................................................. 42
2.6.1.18 numForm ................................................................. 43
2.6.1.19 numSpacing ................................................................. 43
2.6.1.20 props3d ................................................................. 43
2.6.1.21 reflection ................................................................. 43
2.6.1.22 scene3d ................................................................. 44
2.6.1.23 shadow ................................................................. 44
2.6.1.24 stylisticSets ............................................................... 44
2.6.1.25 textFill ................................................................. 45
2.6.1.26 textOutline ............................................................... 45
2.6.2 Attributes ........................................................................... 45
2.6.2.1 anchorId ................................................................. 45
2.6.2.2 noSpellErr ................................................................. 45
2.6.2.3 parId ................................................................. 46
2.6.2.4 textId ................................................................. 46
2.6.3 Complex Types ............................................................. 46
2.6.3.1 CT_Bevel ................................................................. 46
2.6.3.2 CT_Camera ................................................................. 47
2.6.3.3 CT_Color ................................................................. 47
2.6.3.4 CT_DefaultImageDpi ...................................................... 48
2.6.3.5 CT_FillTextEffect ......................................................... 48
2.6.3.6 CT_Glow ................................................................. 49
2.6.3.7 CT_GradientFillProperties ........................................... 49
2.6.3.8 CT_GradientStop ......................................................... 50
2.6.3.9 CT_GradientStopList .................................................... 51
2.6.3.10 CT_Ligatures ................................................................. 51
2.6.3.11 CT_LightRig ................................................................. 51
2.6.3.12 CT_LinearShadeProperties ........................................ 52
2.6.3.13 CT_LineJoinMiterProperties ....................................... 52
2.6.3.14 CT_LongHexNumber ................................................... 53
2.6.3.15 CT_NumForm ............................................................... 53
2.6.3.16 CT_NumSpacing ........................................................... 54
2.6.3.17 CT_OnOff ................................................................. 54
2.6.3.18 CT_PathShadeProperties ............................................ 54
2.6.3.19 CT_Percentage ........................................................ 54
2.6.3.20 CT_PostiveFixedPercentage ...................................... 55
2.6.3.21 CT_PositivePercentage ............................................. 56
2.6.3.22 CT_PresetLineDashProperties .................................... 56
2.6.3.23 CT_Props3D ............................................................... 57
2.6.3.24 CT_Reflection ............................................................ 57
2.6.3.25 CT_RelativeRect ....................................................... 59
2.6.3.26 CT_Scene3D .............................................................. 59
2.6.3.27 CT_SchemeColor ........................................................ 60
2.6.3.28 CT_SdtCheckbox ....................................................... 61
2.6.3.29 CT_SdtCheckboxSymbol .............................................. 61
2.6.3.30 CT_Shadow ............................................................... 62
2.6.3.31 CT_SolidColorFillProperties ....................................... 63
2.6.3.32 CT_SphereCoords ..................................................... 63
2.6.3.33 CT_SrgbColor ........................................................... 64
2.6.3.34 CT_StyleSet ............................................................. 65
2.6.3.35 CT_StylisticSets ....................................................... 65
2.6.3.36 CT_TextOutlineEffect ............................................... 66

2.6.4 Simple Types .................................................................. 67
2.6.4.1 ST_BevelPresetType ..................................................... 67
2.6.4.2 ST_CompoundLine ....................................................... 68
2.6.4.3 ST_Ligatures ............................................................... 69
2.6.4.4 ST_LightRigDirection .................................................. 70
2.6.4.5 ST_LightRigType .......................................................... 71
2.6.4.6 ST_LineCap ................................................................. 73
2.6.4.7 ST_NumForm ............................................................... 73
2.6.4.8 ST_NumSpacing ........................................................... 74
2.6.4.9 ST_OnOff ................................................................. 74
2.6.4.10 ST_PathShadeType ..................................................... 75
2.6.4.11 ST_PenAlignment ...................................................... 75
2.6.4.12 ST_PresetCameraType ............................................... 76
2.6.4.13 ST_PresetLineDashVal ............................................... 79
2.6.4.14 ST_PresetMaterialType .............................................. 80
2.6.4.15 ST_RectAlignment ..................................................... 81
2.6.4.16 ST_SchemeColorVal .................................................. 82

2.7 http://schemas.microsoft.com/office/word/2015/wordml/symex ............................................................... 84
2.7.1 Elements .................................................................... 84
2.7.1.1 symEx ..................................................................... 84
2.7.2 Attributes .................................................................. 84
2.7.3 Complex Types ........................................................... 84
2.7.3.1 CT_SymEx ................................................................. 84

2.8 http://schemas.microsoft.com/office/word/2016/wordml/cid ................................................................................. 85
2.8.1 Elements .................................................................... 85
2.8.1.1 commentsIds ............................................................ 85
2.8.2 Attributes .................................................................. 85
2.8.3 Complex Types ........................................................... 85
2.8.3.1 CT_CommentId .......................................................... 85
2.8.3.2 CT_CommentsIds ....................................................... 86
### 2.8.4 Simple Types ............................................. 86

2.9 http://schemas.microsoft.com/office/word/2018/wordml ............................................. 86

2.9.1 Elements .................................................. 86

2.9.2 Attributes .................................................. 86

2.9.3 Complex Types ............................................ 86

2.9.3.1 CT_Extension ............................................. 86

2.9.3.2 CT_ExtensionList ....................................... 87

2.9.4 Simple Types ............................................. 87

2.10 http://schemas.microsoft.com/office/word/2018/wordml/cex ............................................ 87

2.10.1 Elements .................................................. 87

2.10.1.1 commentsExtensible ..................................... 87

2.10.2 Attributes .................................................. 88

2.10.3 Complex Types ............................................ 88

2.10.3.1 CT_CommentExtensible .................................. 88

2.10.3.2 CT_CommentsExtensible .................................. 88

2.10.4 Simple Types ............................................. 89

2.11 http://schemas.microsoft.com/office/word/2020/wordml/sdtdatahash ...................................... 89

2.11.1 Elements .................................................. 89

2.11.2 Attributes .................................................. 89

2.11.2.1 storeItemChecksum ....................................... 89

2.11.3 Complex Types ............................................ 89

2.11.4 Simple Types ............................................. 90

### 3 Structure Examples ................................................. 91

3.1 Glowing Text ................................................. 91

3.2 Stylistic Sets ............................................... 91

### 4 Security Considerations .................................................. 93

4.1 Security Considerations for Implementers .......................................................... 93

4.2 Index of Security Fields .......................................... 93

### 5 Appendix A: Full XML Schemas ................................................. 94


5.2 http://schemas.microsoft.com/office/word/2012/wordml Schema ....................................... 102

5.3 http://schemas.microsoft.com/office/word/2015/wordml/synex Schema ................................... 103

5.4 http://schemas.microsoft.com/office/word/2016/wordml/cid Schema ........................................ 104

5.5 http://schemas.microsoft.com/office/word/2018/wordml Schema ........................................... 104

5.6 http://schemas.microsoft.com/office/word/2018/wordml/cex Schema ....................................... 104

5.7 http://schemas.microsoft.com/office/word/2020/wordml/sdtdatahash Schema .......................... 105

### 6 Appendix B: Product Behavior ............................................. 106

### 7 Change Tracking .................................................... 109

### 8 Index ............................................................. 110
1 Introduction

This document specifies elements and attributes that extend the XML vocabulary for representing word processing documents specified in the ISO/IEC-29500 specification. The new elements and attributes are presented using the extensibility mechanisms provided by the ISO/IEC-29500 specification.

Sections 1.7 and 2 of this specification are normative. All other sections and examples in this specification are informative.

1.1 Glossary

This document uses the following terms:

- **base64 encoding**: A binary-to-text encoding scheme whereby an arbitrary sequence of bytes is converted to a sequence of printable ASCII characters, as described in [RFC4648].

- **cyclic redundancy check (CRC)**: An algorithm used to produce a checksum (a small, fixed number of bits) against a block of data, such as a packet of network traffic or a block of a computer file. The CRC is a broad class of functions used to detect errors after transmission or storage. A CRC is designed to catch random errors, as opposed to intentional errors. If errors might be introduced by a motivated and intelligent adversary, a cryptographic hash function should be used instead.

- **entity**: An instance of an Entity_Type element that has a unique identity and an independent existence. An entity is an operational unit of consistency.

- **Entity_Instance**: A set of Field values that have a unique identity that represents a specific instance of an Entity, and are stored in a line-of-business (LOB) system.

- **Entity_Instance_ID**: A set of Field values of an Entity_Instance that collectively and uniquely identify an Entity_Instance in a line-of-business (LOB) system.

- **external content type**: A type of DataClass object that is stored in a line-of-business (LOB) system and whose instances have a persistent Entity_Instance_ID. Also referred to as Entity.

- **field**: An element or attribute in a data source that can contain data.

- **follow-up**: A note that a user leaves for further review later. Follow-ups can be used by an app to display in a special visual format, to provide navigation, or to provide special behaviors such as reminders.

- **LobSystem_Instance**: A type of MetadataObject that represents a specific deployed instance of a line-of-business (LOB) system, as represented by a LobSystem. LobSystemInstances are contained by LobSystems. LobSystemInstance Properties describe how to connect to an instance of the LobSystem that contains them by providing information such as the server name, connection string, and authentication mode.

- **Unicode**: A character encoding standard developed by the Unicode Consortium that represents almost all of the written languages of the world. The Unicode standard [UNICODE5.0.0/2007] provides three forms (UTF-8, UTF-16, and UTF-32) and seven schemes (UTF-8, UTF-16, UTF-16 BE, UTF-16 LE, UTF-32, UTF-32 LE, and UTF-32 BE).

**MAY, SHOULD, MUST, SHOULD NOT, MUST NOT**: These terms (in all caps) are used as defined in [RFC2119]. All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.
1.2 References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the Errata.

1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. We will assist you in finding the relevant information.


[MS-DTYP] Microsoft Corporation, "Windows Data Types".

[MS-ODRAWXML] Microsoft Corporation, "Office Drawing Extensions to Office Open XML Structure".

[MS-OSHARED] Microsoft Corporation, "Office Common Data Types and Objects Structures".


1.2.2 Informative References

None.

1.3 Structure Overview (Synopsis)

The structures specified in this format provide an extended XML vocabulary for a word processing document. The extended elements and attributes allow the format to indicate further information about a document, or to indicate content and formatting of parts of the document beyond the elements and attributes specified in the Office Open XML File Formats specification. Because these elements and attributes are meant as extensions, their intent and usage varies.

The new elements and attributes specified in this format come in six groups. The first group extends the vocabulary for describing formatting properties of text by adding elements for specifying text effects such as shadow, glow, reflection, and also by adding elements for specifying typographical properties such as ligatures or how numeral spacing is displayed. See section 2.2.1 for more information.

The second group extends the settings that are applied to a word processing document by adding two settings to govern how images are saved, and two settings used when the document is authored by multiple authors. See section 2.2.2 for more information.

The third group of extensions provides for specifying four more kinds of structured document tags and altering the appearance of structured document tags. See section 2.2.3 for more information.

The fourth group of extensions specifies three additional attributes to appear on paragraph, section, or table rows. These attributes provide for uniquely identifying paragraphs or table rows within a document part, or provide information about presence of spelling mistakes within a paragraph, or provide formatting information for the layout of footnotes in a section. See section 2.2.4 for more information.

The fifth group specifies eight new elements that can be used when conflicting edits are present in a document that is authored by multiple authors. See section 2.2.5 for more information.

The sixth group specifies a new attribute to appear on picture and embedded objects to provide an identifier for those objects. See section 2.2.6 for more information.

Section 2.2.7 specifies a new value that extends the types of calendars that can be used in a word processing document.

Section 2.2.8 specifies a new element for specifying formatting information for the layout of footnotes in a document section. See section 2.5.1.12 for more information.

Section 2.3 specifies an extension of the set of values to be used when specifying compatibility settings of the document. Section 2.4 specifies an extension of the set of values to be used when specifying numbering formats.

The extensions specified in this format are integrated into ISO/IEC-29500 by means of the Markup Compatibility and Extensibility features as specified by ISO/IEC-29500. Specifically, the Ignorable attribute and the AlternateContent element are used to maintain compatibility with ISO/IEC-29500 implementations when integrating the extensions from this format. Using these extensions as specified in this document will result in a word processing document conformant to ISO/IEC-29500.

1.4 Relationship to Protocols and Other Structures

The structures described here are incorporated into word processing documents as described in [ISO/IEC29500-1:2016] using the Markup Compatibility and Extensibility features as described in [ISO/IEC29500-3:2015]. The global elements specified in this format appear as optional child
elements of certain elements described in [ISO/IEC29500-1:2016] as described in section 2.2 of this document.

The global attributes specified in this format appear as optional attributes on certain elements described in [ISO/IEC29500-1:2016] as described in section 2.2 of this document.

Some of the elements, attributes, simple types and complex types here also refer to complex or simple types described in [ISO/IEC29500-1:2016].

1.5 Applicability Statement

This document specifies a set of structures to extend the XML vocabulary of ISO/IEC-29500 word-processing documents. The extensions specified in this document allow for expressing additional document content and properties, and are not applicable as a stand-alone file format. Each structure specified in this document is integrated with ISO/IEC-29500 word-processing documents in a particular way, as specified at the description of that structure. All structures are integrated into word processing documents in a way that maintains compatibility with ISO/IEC-29500 implementations.

The extensions specified in this document do not require any other extensions to be used, and do not prohibit any other extensions from being used in the same document.

1.6 Versioning and Localization

None.

1.7 Vendor-Extensible Fields

None.
2 Structures

2.1 Part Enumerations

2.1.1 stylesWithEffects

This part <1> stores a copy of the styles part <2>. As with the styles part, a package MUST NOT contain more than two stylesWithEffects parts. See [ISO/IEC29500-1:2016] section 11.3.12 for details on the styles part.

2.1.2 commentsExtended

This part <3> contains additional information about each comment in the document described by the comments part. See [ISO/IEC29500-1:2016] section 11.3.2 for details on the comments part.

2.1.3 people

This part <4> contains contact information about each person who has authored a comment or revision in the current document.

2.1.4 commentsIds

This part <5> contains additional identification information about each comment in the document described by the comments part. See [ISO/IEC29500-1:2016] section 11.3.2 for details on the comments part.

2.1.5 commentsExtensible

This part <6> contains additional information about each comment in the document described by the comments part. See [ISO/IEC29500-1:2016] section 11.3.2 for details on the comments part.

2.2 Extensions


2.2.1 rPr Extensions

Any rPr element specified in [ISO/IEC29500-1:2016] section 17.3.2.28 is extended by the addition of one or more of the following elements: glow, shadow, reflection, textOutline, textFill, scene3d, props3d, ligatures, numForm, numSpacing, stylisticSets, cntxtAlts. To maintain compatibility with ISO/IEC-29500 implementations, the element's namespace prefix MUST be specified in an Ignorable attribute ([ISO/IEC29500-3:2015] section 7.2).

2.2.2 Settings Extensions

The Settings element ([ISO/IEC29500-1:2016] section 17.15.1.78) is extended by the addition of one or more of the following elements: chartTrackingRefBased (section 2.5.1.2), docId (section 2.6.1.14), docId (section 2.5.1.7), conflictMode (section 2.6.1.7), discardImageEditingData (section 2.6.1.13), defaultImageDpi (section 2.6.1.12). To maintain compatibility with ISO/IEC-
29500 implementations, the element’s namespace prefix MUST be specified in an **Ignorable** attribute ([ISO/IEC29500-3:2015] section 7.2).

### 2.2.3 sdtPr Extensions


### 2.2.4 p and tr Extensions

Any p element (as specified in [ISO/IEC29500-1:2016] section 17.4.22) or tr element (specified in [ISO/IEC29500-1:2016] section 17.4.78) is extended by the addition of any of the following attributes: **paraId**, **textId**. Any p element (as specified in [ISO/IEC29500-1:2016] section 17.4.22) is extended by the addition of the following attribute: **noSpellErr**. To maintain compatibility with ISO/IEC-29500 implementations, the element’s namespace prefix MUST be specified in an **Ignorable** attribute ([ISO/IEC29500-3:2015] section 7.2).

### 2.2.5 Conflict Extensions

Any element specified in [ISO/IEC29500-1:2016] that can contain an ins element (as specified in [ISO/IEC29500-1:2016] section 17.13.5.18) or a del element (as specified in [ISO/IEC29500-1:2016] section 17.13.5.14) is extended by the addition of one or more of each of the following elements: **conflictIns**, **conflictDel**. To maintain compatibility with ISO/IEC-29500 implementations, the element’s namespace prefix MUST be specified in an **Ignorable** attribute ([ISO/IEC29500-3:2015] section 7.2).

Any element specified in [ISO/IEC29500-1:2016] as a parent of an ins element (as specified in [ISO/IEC29500-1:2016] section 17.13.5.16, section 17.13.5.17, or section 17.13.5.20) or as a parent of a del element (as specified in [ISO/IEC29500-1:2016] section 17.13.5.12, section 17.13.5.13, or section 17.5.15) is extended by the addition of one or more of each of the following elements: **conflictIns**, **conflictDel**. To maintain compatibility with ISO/IEC-29500 implementations, the element’s namespace prefix MUST be specified in an **Ignorable** attribute ([ISO/IEC29500-3:2015] section 7.2).

Any element specified in [ISO/IEC29500-1:2016] as a parent of a customXmlDelRangeEnd element, or a parent of a customXmlInsRangeEnd, or a parent of a customXmlInsRangeStart, or a parent of a customXmlDelRangeStart is extended by the addition of one or more of each of the following elements: **customXmlConflictInsRangeStart**, **customXmlConflictInsRangeEnd**, **customXmlConflictDelRangeStart**, or **customXmlConflictDelRangeEnd**. To maintain compatibility with ISO/IEC-29500 implementations, the element’s namespace prefix MUST be specified in an **Ignorable** attribute ([ISO/IEC29500-3:2015] section 7.2).

### 2.2.6 Pict and Object Extensions

2.2.7 Calendar Type Extensions

The simple type `ST_CalendarType` specified in [ISO/IEC29500-1:2016] section 22.9.2.1 is extended by the addition of the "umalqura" value to the enumeration. This value specifies that the Um Al-Qura lunar calendar as described by the Kingdom of Saudi Arabia, King Abdulaziz City for Science and Technology (KACST) MUST be used. To maintain compatibility with ISO/IEC-29500, the value MUST be specified in an AlternateContent element ([ISO/IEC29500-3:2015] section 7.5) with a fallback to the "hijri" calendar type.

2.2.8 sectPr Extensions

Any `sectPr` element specified in [ISO/IEC29500-1:2016] section 17.6.18 is extended by the addition of the `footnoteColumns` element (section 2.5.1.8).<7> To maintain compatibility with ISO/IEC-29500 implementations, the element's namespace prefix MUST be specified in an `Ignorable` attribute ([ISO/IEC29500-3:2015] section 7.2).

2.2.9 pPr Extensions

Any `pPr` element specified in [ISO/IEC29500-1:2016] section 17.7.5.2 is extended by the addition of the following element; `collapsed`.<8> To maintain compatibility with ISO/IEC-29500 implementations, the element's namespace prefix MUST be specified in an `Ignorable` attribute ([ISO/IEC29500-3:2015] section 7.2).

2.2.10 Numbering Definition Extensions

The `abstractNum` element specified in [ISO/IEC29500-1:2016] section 11.3.11 is extended by the addition of the `restartNumberingAfterBreak` attribute (section 2.5.2.1).<9> To maintain compatibility with ISO/IEC-29500 implementations, the prefix of the attribute namespace MUST be specified in an `Ignorable` attribute ([ISO/IEC29500-3:2015] section 7.2).

2.2.11 r Extensions

The `r` element specified in [ISO/IEC29500-1:2016] section 17.3.2.25 is extended by the addition of the `symEx` element (section 2.7.1.1).<10> To maintain compatibility with ISO/IEC-29500 implementations, the prefix of the element namespace MUST be specified in an `Ignorable` attribute ([ISO/IEC29500-3:2015] section 7.2).

2.2.12 dataBinding Extensions

The `databinding` element specified in [ISO/IEC29500-1:2016] section 17.5.2.6 is extended by the addition of the `storeItemChecksum` attribute (section 2.11.2.1).<11> To maintain compatibility with ISO/IEC-29500 implementations, the prefix of the attribute namespace MUST be specified in an `Ignorable` attribute ([ISO/IEC29500-3:2015] section 7.2).

2.3 compatSetting elements

This section specifies compatibility settings that use the `compatSetting` element, as specified in [ISO/IEC29500-1:2016] section 17.15.3.4.

2.3.1 overrideTableStyleFontSizeAndJustification

A `compatSetting` element whose `name` attribute has the value "overrideTableStyleFontSizeAndJustification" and whose `uri` attribute has the value "http://schemas.microsoft.com.office/word" specifies how the style hierarchy of the document is evaluated.
If this value is true, then the style hierarchy of the document is evaluated as specified in

If this value is false, which is the default, then the following additional rules apply:

- If the default paragraph style (as specified in [ISO/IEC29500-1:2016] section 17.7.4.17) specifies
  a font size of 11pt or 12pt, then that setting will not override the font size specified by the table
  style for paragraphs in tables.

- If the default paragraph style (as specified in [ISO/IEC29500-1:2016] section 17.7.4.17) specifies
  a justification of left, then that setting will not override the justification specified by the table
  style for paragraphs in tables.

Attributes and corresponding values for this element are listed in the following table.

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>overrideTableStyleFontSizeAndJustification</td>
</tr>
<tr>
<td>uri</td>
<td><a href="http://schemas.microsoft.com/office/word">http://schemas.microsoft.com/office/word</a></td>
</tr>
<tr>
<td>val</td>
<td>An ST_OnOff attribute that specifies whether to apply the additional preceding rules when determining the font size and justification of text within tables.</td>
</tr>
</tbody>
</table>

### 2.3.2 doNotFlipMirrorIndents

A compatSetting element whose name attribute has the value "doNotFlipMirrorIndents" and whose
uri attribute has the value "http://schemas.microsoft.com/office/word" specifies whether the values of
the inside attributes (start, startChars, left, and leftChars) and outside attributes (end, endChars,
right, and rightChars) of the ind element (as specified in [ISO/IEC29500-1:2016] section 17.3.1.12)
are swapped when displaying paragraphs containing a mirrorIndents element (as specified in
[ISO/IEC29500-1:2016] section 17.3.1.18). By default, these values are not swapped.

Attributes and corresponding values for this element are listed in the following table.

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>doNotFlipMirrorIndents</td>
</tr>
<tr>
<td>uri</td>
<td><a href="http://schemas.microsoft.com/office/word">http://schemas.microsoft.com/office/word</a></td>
</tr>
<tr>
<td>val</td>
<td>An ST_OnOff attribute that specifies whether to swap indentation values when displaying paragraphs.</td>
</tr>
</tbody>
</table>

### 2.3.3 enableOpenTypeFeatures

A compatSetting element whose name attribute has the value "enableOpenTypeFeatures" and whose
uri attribute has the value "http://schemas.microsoft.com/office/word" specifies whether
[ISO/IEC-14496-22] features such as kerning (see [ISO/IEC29500-1:2016] section 17.3.2.19),
ligatures, contextual alternates, stylistic sets, number spacing, and number formatting are to be used
when displaying the font. By default, these features are disabled.

Attributes and corresponding values for this element are listed in the following table.
### 2.3.4 `differentiateMultirowTableHeaders`

A `compatSetting` element `<12>` whose `name` attribute has the value "differentiateMultirowTableHeaders" and whose `uri` attribute has the value "http://schemas.microsoft.com/office/word" specifies formatting information for the layout and display of multi-row table headers.

If the value of `val` is false, then conditional formatting of table rows does not apply to multi-row table headers (as specified in [ISO/IEC29500-1:2016] sections 17.4.7, 17.4.8, 17.4.50, and 17.7.6).

If the value of `val` is true, then the conditional formatting of table row headers does apply separately to multi-row table headers (as specified in [ISO/IEC29500-1:2016] sections 17.4.7, 17.4.8, 17.4.50, and 17.7.6).

The value of `val` is false by default.

Attributes and corresponding values for this element are listed in the following table.

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>differentiateMultirowTableHeaders</td>
</tr>
<tr>
<td>uri</td>
<td><a href="http://schemas.microsoft.com/office/word">http://schemas.microsoft.com/office/word</a></td>
</tr>
<tr>
<td>val</td>
<td>An <code>ST_OnOff</code> attribute that specifies the formatting method to use as specified above.</td>
</tr>
</tbody>
</table>

### 2.3.5 `compatibilityMode`

A `compatSetting` element whose `name` attribute has the value "compatibilityMode" and whose `uri` attribute has the value "http://schemas.microsoft.com/office/word" specifies the feature set in use when the document was last saved.

Attributes and corresponding values for this element are listed in the following table.

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>compatibilityMode</td>
</tr>
<tr>
<td>uri</td>
<td><a href="http://schemas.microsoft.com/office/word">http://schemas.microsoft.com/office/word</a></td>
</tr>
<tr>
<td>val</td>
<td>An <code>ST_UnsignedDecimalNumber</code> (as specified in [ISO/IEC29500-1:2016] section 22.9.2.16) that specifies the feature set to use when editing the document. Valid values and their meanings are:</td>
</tr>
<tr>
<td></td>
<td>11: Use features specified in [MS-DOC].</td>
</tr>
<tr>
<td>Attribute</td>
<td>Value</td>
</tr>
<tr>
<td>-----------</td>
<td>-------</td>
</tr>
<tr>
<td>12: Use word processing features specified in [ECMA-376]. This is the default.</td>
<td></td>
</tr>
<tr>
<td>14: Use word processing features specified in [ISO/IEC29500-1:2016] and [ISO/IEC29500-4:2016] as well as those specified in this document with the exception of the features defined by the following elements and/or parts: commentsExtended (section 2.1.2), people (enumeration) (section 2.1.3), collapsed (section 2.5.1.3), docId (section 2.5.1.7), repeatingSection (section 2.5.1.10), repeatingSectionItem (section 2.5.1.11), chartTrackingRefBased (section 2.5.1.2), commentsEx (section 2.5.1.5), people (element) (section 2.5.1.9), color (section 2.5.1.4), dataBinding (section 2.5.1.6), appearance (section 2.5.1.1), webExtensionLinked (section 2.5.1.13), webExtensionCreated (section 2.5.1.12).</td>
<td></td>
</tr>
</tbody>
</table>

An application MAY<13> ignore a compatSetting with a val attribute whose value is 15.

### 2.3.6 allowTextAfterFloatingTableBreak

A compatSetting element<14> whose name attribute has the value "allowTextAfterFloatingTableBreak" and whose uri attribute has the value "http://schemas.microsoft.com/office/word" specifies information about the layout of document content which follows a floating table that breaks across pages.

If the value of val is false, which is the default, then the document content that follows the floating table is added after the end of the table.

If the value of val is true, then the document content that follows the floating table can be added to the same pages as the table. The content follows the usual page breaking rules and can flow around the table.

Attributes and corresponding values for this element are listed in the following table.

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>allowTextAfterFloatingTableBreak</td>
</tr>
<tr>
<td>uri</td>
<td><a href="http://schemas.microsoft.com/office/word">http://schemas.microsoft.com/office/word</a></td>
</tr>
<tr>
<td>val</td>
<td>An ST_OnOff attribute that specifies the formatting method to use as specified above.</td>
</tr>
</tbody>
</table>

### 2.3.7 allowHyphenationAtTrackBottom

A compatSetting element<15> whose name attribute has the value "allowHyphenationAtTrackBottom" and whose uri attribute has the value "http://schemas.microsoft.com/office/word" specifies information about the layout of documents in which a hyphenated word ends a page or column.

If the value of val is false, which is the default, then useWord2013TrackBottomHyphenation (section 2.3.8) controls the layout of the document.
If the value of `val` is true, then a line that ends with a hyphenated word is allowed to be the last line in a page or column.

Attributes and corresponding values for this element are listed in the following table.

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>allowHyphenationAtTrackBottom</td>
</tr>
<tr>
<td>uri</td>
<td>http://schemas.microsoft.com_office/word</td>
</tr>
<tr>
<td>val</td>
<td>An <code>ST_OnOff</code> attribute that specifies whether a hyphenated word is allowed to end a page or column.</td>
</tr>
</tbody>
</table>

### 2.3.8 `useWord2013TrackBottomHyphenation`<br/>

A `compatSetting` element whose name attribute has the value "useWord2013TrackBottomHyphenation" and whose `uri` attribute has the value "http://schemas.microsoft.com/office/word" specifies information about the layout of documents in which a hyphenated word ends a page or column.

If the value of `val` is false, which is the default, then such a hyphenated word is displayed on the following page or column but the rest of the line that contained it is displayed on the previous page.

If the value of `val` is true, then the line containing such a hyphenated word is displayed on the following page or column.

If `useWord2013TrackBottomHyphenation` is not present, then the line containing such a hyphenated word is displayed on the following page or column as though `useWord2013TrackBottomHyphenation` were present with `val` set to true.

If `allowHyphenationAtTrackBottom` (section 2.3.7) is set to true, `useWord2013TrackBottomHyphenation` MUST be ignored.

Attributes and corresponding values for this element are listed in the following table.

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>useWord2013TrackBottomHyphenation</td>
</tr>
<tr>
<td>uri</td>
<td>http://schemas.microsoft.com_office/word</td>
</tr>
<tr>
<td>val</td>
<td>An <code>ST_OnOff</code> attribute that specifies whether the method to use to avoid having hyphenated word at the bottom of page or column.</td>
</tr>
</tbody>
</table>

### 2.4 `numFmt` Extensions

This section specifies additional values to be used for the `format` attribute of the `numFmt` element, as specified in [ISO/IEC29500-1:2016] section 17.9.17. The following two tables specify the strings used for the `format` attribute.

Each row in the first table specifies a string, along with a corresponding value from the simple type `ST_NumberFormat`, as specified in [ISO/IEC29500-1:2016] section 17.18.59. If the value of the
**format** attribute is equal to the string in the left column, the numbering format applied is specified by the value in the right column, as specified in [ISO/IEC29500-1:2016] section 17.18.59.

<table>
<thead>
<tr>
<th>String</th>
<th>Attribute value</th>
</tr>
</thead>
<tbody>
<tr>
<td>U+FF71, U+FF72, U+FF73, ...</td>
<td>aiueo</td>
</tr>
<tr>
<td>U+30A2, U+30A4, U+30A6, ...</td>
<td>aiueoFullWidth</td>
</tr>
<tr>
<td>U+0623, U+0628, U+062C, ...</td>
<td>arabicAbjad</td>
</tr>
<tr>
<td>U+0623, U+0628, U+062A, ...</td>
<td>arabicAlpha</td>
</tr>
<tr>
<td>One, Two, Three, ...</td>
<td>cardinalText</td>
</tr>
<tr>
<td>U+002A, U+2020, U+2021, ...</td>
<td>chicago</td>
</tr>
<tr>
<td>U+4E00, U+S341, U+4E00U+25CB+25CB(U+S780), ...</td>
<td>chineseCounting</td>
</tr>
<tr>
<td>U+4E00, U+S341, U+4E00U+767E(U+S780), ...</td>
<td>chineseCountingThousand</td>
</tr>
<tr>
<td>U+58F9, U+8D30, U+S3C1, ...</td>
<td>chineseLegalSimplified</td>
</tr>
<tr>
<td>U+3131, U+3134, U+3137, ...</td>
<td>chosung</td>
</tr>
<tr>
<td>U+0031</td>
<td>decimal</td>
</tr>
<tr>
<td>U+2460, U+2461, U+2462, ...</td>
<td>decimalEnclosedCircle</td>
</tr>
<tr>
<td>U+2488, U+2489, U+248A, ...</td>
<td>decimalEnclosedFullstop</td>
</tr>
<tr>
<td>U+2474, U+2475, U+2476, ...</td>
<td>decimalEnclosedParen</td>
</tr>
<tr>
<td>U+FF11, U+FF12, U+FF13, ...</td>
<td>decimalFullWidth</td>
</tr>
<tr>
<td>U+0030U+0031, U+0030U+0032, U+0030U+0033, ...</td>
<td>decimalZero</td>
</tr>
<tr>
<td>U+AC00, U+B098, U+B2E4, ...</td>
<td>ganada</td>
</tr>
<tr>
<td>U+05D0, U+05D9, U+05E7, ...</td>
<td>hebrew1</td>
</tr>
<tr>
<td>U+05D0, U+05D1, U+05D2, ...</td>
<td>hebrew2</td>
</tr>
<tr>
<td>U+0031, U+0041, U+0042, ...</td>
<td>hex</td>
</tr>
<tr>
<td>U+0905, U+0906, U+0907, ...</td>
<td>hindiConsonants</td>
</tr>
<tr>
<td>U+090FU+0915, U+0926U+094B, U+0924U+0940U+0928, ...</td>
<td>hindiCounting</td>
</tr>
<tr>
<td>U+0967, U+0968, U+0969, ...</td>
<td>hindiNumbers</td>
</tr>
<tr>
<td>U+0915, U+0916, U+0917, ...</td>
<td>hindiVowels</td>
</tr>
<tr>
<td>U+4E00, U+4E00U+3007, U+4E00U+3007U+3007, ...</td>
<td>ideographDigital</td>
</tr>
<tr>
<td>U+3220, U+3221, U+3222, ...</td>
<td>ideographEnclosedCircle</td>
</tr>
<tr>
<td>U+58F9, U+S8CB, U+S3C3, ...</td>
<td>ideographLegalTraditional</td>
</tr>
<tr>
<td>U+7532, U+4E59, U+4E19, ...</td>
<td>ideographTraditional</td>
</tr>
<tr>
<td>U+S550, U+S511, U+S5C5, ...</td>
<td>ideographZodiac</td>
</tr>
<tr>
<td>U+7532U+S550, U+4E59U+4E11, U+4E19U+S5C5, ...</td>
<td>ideographZodiacTraditional</td>
</tr>
</tbody>
</table>
Furthermore, the following table specifies the sequence for additional values of the `format` attribute.

<table>
<thead>
<tr>
<th>String</th>
<th>Attribute value</th>
</tr>
</thead>
<tbody>
<tr>
<td>U+FF72, U+FF9B, U+FF8A, ...</td>
<td>iroha</td>
</tr>
<tr>
<td>U+30A4, U+30ED, U+30CF, ...</td>
<td>irohaFullWidth</td>
</tr>
<tr>
<td>U+4E00, U+4E8C, U+4E09, ...</td>
<td>japaneseCounting</td>
</tr>
<tr>
<td>U+4E00, U+4E8C, U+4E09, U+4E07, ...</td>
<td>japaneseDigitalTenThousand</td>
</tr>
<tr>
<td>U+58F1, U+5F10, U+53C2, ...</td>
<td>japaneseLegal</td>
</tr>
<tr>
<td>U+C77C, U+C774, U+C0BC, ...</td>
<td>koreanCounting</td>
</tr>
<tr>
<td>U+C77C, U+C77CU+C601, U+C77CU+C601U+C601, ...</td>
<td>koreanDigital</td>
</tr>
<tr>
<td>U+4E00, U+4E00U+96F6, U+4E00U+96F6U+96F6, ...</td>
<td>koreanDigital2</td>
</tr>
<tr>
<td>U+D558U+B098, U+B458, U+C14B, ...</td>
<td>koreanLegal</td>
</tr>
<tr>
<td>U+0061</td>
<td>lowerLetter</td>
</tr>
<tr>
<td>U+0069</td>
<td>lowerRoman</td>
</tr>
<tr>
<td>[Empty string]</td>
<td>none</td>
</tr>
<tr>
<td>- 1 -, - 2 -, - 3 -, ...</td>
<td>numberInDash</td>
</tr>
<tr>
<td>1st, 2nd, 3rd, ...</td>
<td>ordinal</td>
</tr>
<tr>
<td>First, Second, Third, ...</td>
<td>ordinalText</td>
</tr>
<tr>
<td>U+0430, U+0431, U+0432, ...</td>
<td>russianLower</td>
</tr>
<tr>
<td>U+0410, U+0411, U+0412, ...</td>
<td>russianUpper</td>
</tr>
<tr>
<td>U+4E00, U+5341, U+4E00U+25CBU+25CB(U+7E41), ...</td>
<td>taiwaneseCounting</td>
</tr>
<tr>
<td>U+4E00, U+5341, U+4E00U+767E(U+7E41), ...</td>
<td>taiwaneseCountingThousand</td>
</tr>
<tr>
<td>U+4E00, U+4E00U+25CB, U+4E00U+25CBU+25CB(U+7E41), ...</td>
<td>taiwaneseDigital</td>
</tr>
<tr>
<td>U+0E2BU+0E19U+0E36U+0E48U+0E07, U+0E2AU+0E2DU+0E07, U+0E2AU+0E32U+0E21, ...</td>
<td>thaiCounting</td>
</tr>
<tr>
<td>U+0E01, U+0E02, U+0E04, ...</td>
<td>thaiLetters</td>
</tr>
<tr>
<td>U+0E51, U+0E52, U+0E53, ...</td>
<td>thaiNumbers</td>
</tr>
<tr>
<td>U+0041</td>
<td>upperLetter</td>
</tr>
<tr>
<td>U+0049</td>
<td>upperRoman</td>
</tr>
<tr>
<td>U+006DU+00F4U+0323U+0074, U+0068U+0061U+0069, U+0062U+0061, ...</td>
<td>vietnameseCounting</td>
</tr>
</tbody>
</table>
alphabet.

To determine the text that is displayed for any value, this sequence specifies a set of characters that represent positions 1–29 and then those same characters are combined with each other to construct the remaining values.

The set of characters used by this numbering format for values 1–29 is U+0041–U+0043, U+00C7, U+0044–U+0047, U+011E, U+0048, U+0049, U+0130, U+004A–U+004F, U+00D6, U+0050, U+0052, U+0053, U+015E, U+0054, U+0055, U+00DC, U+0056, U+0059, U+005A, respectively.

For values greater than 29, the text displayed MUST be constructed as follows:

1. Repeatedly subtract the size of the set (29) from the value until the result is equal to or less than the size of the set.
2. The remainder determines which character to use from the preceding set, and that character is written once and then repeated the number of times the size of the set was subtracted from the original value.

U+0061, U+00E7, U+011D, ...

Specifies that the sequence MUST consist of lowercase Turkish alphabet.

To determine the text that is displayed for any value, this sequence specifies a set of characters that represent positions 1–29 and then those same characters are combined with each other to construct the remaining values.

The set of characters used by this numbering format for values 1–29 is U+0061–U+0063, U+00E7, U+0064–U+0067, U+011F, U+0068, U+0131, U+0069–U+006F, U+0066, U+0070, U+0072, U+0073, U+015F, U+0074, U+0075, U+00FC, U+0076, U+0079, U+007A, respectively.

For values greater than 29, the text displayed MUST be constructed as follows:

1. Repeatedly subtract the size of the set (29) from the value until the result is equal to or less than the size of the set.
2. The remainder determines which character to use from the preceding set, and that character is written once and then repeated the number of times the size of the set was subtracted from the original value.
<table>
<thead>
<tr>
<th>Character Set</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>U+0410, U+0419, U+041A, ...</td>
<td>Specifies that the sequence MUST consist of uppercase Bulgarian alphabet.</td>
</tr>
<tr>
<td></td>
<td>To determine the text that is displayed for any value, this sequence specifies a set of characters that represent positions 1–29 and then those same characters are combined with each other to construct the remaining values.</td>
</tr>
<tr>
<td></td>
<td>The set of characters used by this numbering format for values 1–29 is U+0410-U+042A, U+042E, U+042F, respectively.</td>
</tr>
<tr>
<td></td>
<td>For values greater than 29, the text displayed MUST be constructed as follows:</td>
</tr>
<tr>
<td></td>
<td>1. Repeatedly subtract the size of the set (29) from the value until the result is equal to or less than the size of the set.</td>
</tr>
<tr>
<td></td>
<td>2. The remainder determines which character to use from the preceding set, and that character is written once and then repeated the number of times the size of the set was subtracted from the original value.</td>
</tr>
<tr>
<td>U+0430, U+0439, U+043A, ...</td>
<td>Specifies that the sequence MUST consist of lowercase Bulgarian alphabet.</td>
</tr>
<tr>
<td></td>
<td>To determine the text that is displayed for any value, this sequence specifies a set of characters that represent positions 1–29 and then those same characters are combined with each other to construct the remaining values.</td>
</tr>
<tr>
<td></td>
<td>The set of characters used by this numbering format for values 1–29 is U+0430-U+044A, U+044E, U+044F, respectively.</td>
</tr>
<tr>
<td></td>
<td>For values greater than 29, the text displayed MUST be constructed as follows:</td>
</tr>
<tr>
<td></td>
<td>1. Repeatedly subtract the size of the set (29) from the value until the result is equal to or less than the size of the set.</td>
</tr>
<tr>
<td></td>
<td>2. The remainder determines which character to use from the preceding set, and that character is written once and then repeated the number of times the size of the set was subtracted from the original value.</td>
</tr>
<tr>
<td>U+0391, U+0392, U+0393, ...</td>
<td>Specifies that the sequence MUST consist of uppercase Greek alphabet.</td>
</tr>
<tr>
<td>----------------------------</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>This sequence specifies a set of characters that represent positions 1-9 (U+0391-U+0395, U+03A3U+03A4, U+0396-U+0398), a set of characters that represent 10, 20, 30, ..., 90 (U+0399-U+0340, U+03DE), and a set of characters that represent 100, 200, 300, ..., 900 (U+03A1, U+03A3-U+03A9, U+03E0).</td>
</tr>
<tr>
<td></td>
<td>To determine the text that is displayed for values between 1 and 999, choose the appropriate character from the preceding sets for the units, the tens, and the hundreds position of the value. Write the hundreds character (if present), then the tens (if present) to the right of the hundreds character, and finally the units (if present) to the right of the tens character.</td>
</tr>
<tr>
<td></td>
<td>To determine the text that is displayed for values between 1000 and 9999, write the character U+002C, followed to the right by the appropriate character from the units set (U+0391-U+0395, U+03A3U+03A4, U+0396-U+0398) for the thousands position. Then use the preceding paragraphs to determine the hundreds, tens, and units. Position those characters to the right of the thousands position.</td>
</tr>
<tr>
<td></td>
<td>For values larger than 9999, repeatedly subtract 9999 until the value is smaller than 9999. Use the preceding paragraphs to determine the text corresponding to the resulting value.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>U+03B1, U+03B2, U+03B3, ...</th>
<th>Specifies that the sequence MUST consist of lowercase Greek alphabet.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This sequence specifies a set of characters that represent positions 1-9 (U+03B1-U+03B5, U+03C3U+03C4, U+03B6-U+03B8), a set of characters that represent 10, 20, 30, ..., 90 (U+03B9-U+03C0, U+03DF), and a set of characters that represent 100, 200, 300, ..., 900 (U+03C1, U+03C3-U+03C9, U+03E1).</td>
</tr>
<tr>
<td></td>
<td>To determine the text that is displayed for values between 1 and 999, choose the appropriate character from the preceding sets for the units, the tens, and the hundreds position of the value. Write the hundreds character (if present), then the tens (if present) to the right of the hundreds character, and finally the units (if present) to the right of the tens character.</td>
</tr>
</tbody>
</table>
|                             | To determine the text that is displayed for values between 1000 and 9999, write the character U+002C, followed by the appropriate character from the units set (U+0391-U+0395, U+03A3U+03A4, U+0396-U+0398) for the thousands position. Then use the
| **001, 002, 003, ...** | Specifies that the sequence MUST consist of Arabic numbering with up to two zeros added to numbers 1 through 99. To determine the text that is displayed for any value, this sequence specifies a set of paired characters (zero followed by one or two additional symbols) that represent positions 1–99, and then those same characters are combined with each other to construct the remaining values. The set of characters used by this numbering format for values 0–9 is U+0030–U+0039. For values greater than the size of the set, the number MUST be constructed by following these steps:
  1. Divide the value by 10 and write the symbol that 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. |
| **0001, 0002, 0003, ...** | Specifies that the sequence MUST consist of Arabic numbering with up to three zeros added to numbers 1 through 999. To determine the text that is displayed for any value, this sequence specifies a set of paired characters (zero followed by up to three additional symbols) that represent positions 1–999, and then those same characters are combined with each other to construct the remaining values. The set of characters used by this numbering format for values 0–9 is U+0030–U+0039. For values greater than the size of the set, the number MUST be constructed by following these steps:
  1. Divide the value by 10 and write the symbol that 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. |
00001, 00002, 00003, ...

Specifies that the sequence MUST consist of Arabic numbering with up to four zeros added to numbers 1 through 9999.

To determine the text that is displayed for any value, this sequence specifies a set of paired characters (zero followed by up to three additional symbols) that represent positions 1–9999, and then those same characters are combined with each other to construct the remaining values.

The set of characters used by this numbering format for values 0–9 is U+0030–U+0039. For values greater than the size of the set, the number MUST be constructed by following these steps:

1. Divide the value by 10 and write the symbol that 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.

2.5 http://schemas.microsoft.com/office/word/2012/wordml

2.5.1 Elements

2.5.1.1 appearance

Target namespace: http://schemas.microsoft.com/office/word/2012/wordml

The appearance global element <appearance> is a CT_SdtAppearance (section 2.5.3.7) element that specifies the appearance of a structured document tag (as specified in [ISO/IEC29500-1:2016] section 17.5.2).

See section 2.2.3 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="appearance" type="CT_SdtAppearance"/>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.5.1.2 chartTrackingRefBased

Target namespace: http://schemas.microsoft.com/office/word/2012/wordml

The chartTrackingRefBased global element <chartTrackingRefBased> is a CT_OnOff (as specified in [ISO/IEC29500-1:2016] section A.1) element that specifies how the datapoint properties ([MS-ODRAWXML] section 2.8.3.1) and data labels ([MS-ODRAWXML] section 2.2.1.2) in all charts ([ISO/IEC29500-1:2016] section 21.2) in this document behave.
<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>True</td>
<td>Datapoint properties ([MS-ODRAWXML] section 2.8.3.1) and datalabels ([MS-ODRAWXML] section 2.2.1.2) in all charts ([ISO/IEC29500-1:2016] section 21.2) in this document follow their reference.</td>
</tr>
<tr>
<td>False</td>
<td>Datapoint properties ([MS-ODRAWXML] section 2.8.3.1) and datalabels ([MS-ODRAWXML] section 2.2.1.2) in all charts ([ISO/IEC29500-1:2016] section 21.2) in this document follow their position in the chart.</td>
</tr>
</tbody>
</table>

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="chartTrackingRefBased" type="w12:CT_OnOff"/>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.5.1.3 collapsed

**Target namespace:** http://schemas.microsoft.com/office/word/2012/wordml

The `collapsed` global element `<19>` is a `CT_OnOff` (as specified in [ISO/IEC29500-1:2016] section A.1) element that, when added to a paragraph (`pPr` element as specified in [ISO/IEC29500-1:2016] section 17.7.5.2), specifies the appearance of subsequent paragraphs.

When a `collapsed` element is added to a paragraph (`pPr` element as specified in [ISO/IEC29500-1:2016] section 17.7.5.2) of a particular heading level and its value is "true", "on", or "1", immediately subsequent paragraphs with a higher heading level number appear collapsed when the document is opened.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="collapsed" type="w12:CT_OnOff"/>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.5.1.4 color

**Target namespace:** http://schemas.microsoft.com/office/word/2012/wordml

The `color` global element `<20>` is a `CT_Color` (as specified in [ISO/IEC29500-1:2016] section A.1) element that specifies the color on which to base the visual elements of a structured document tag (as specified in [ISO/IEC29500-1:2016] section 17.5.2).

See section 2.2.3 for how this element integrates with [ISO/IEC29500-1:2016].

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="color" type="w12:CT_Color"/>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).
2.5.1.5 commentsEx

Target namespace: http://schemas.microsoft.com/office/word/2012/wordml

The commentsEx global element is a CT_CommentsEx (section 2.5.3.2) element that specifies the additional information for all of the comments defined in the current document. It is the root element of the commentsExtended part of a WordprocessingML document.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="commentsEx" type="CT_CommentsEx"/>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.5.1.6 dataBinding

Target namespace: http://schemas.microsoft.com/office/word/2012/wordml

The dataBinding global element is a CT_DataBinding (as specified in [ISO/IEC29500-1:2016] section A.1) element that specifies the information used to establish a mapping between the parent structured document tag (as specified in [ISO/IEC29500-1:2016] section 17.5.2) and an XML element stored within a Custom XML Data part in the current WordprocessingML document.

If the parent structured document tag is not of type rich text (as specified in [ISO/IEC29500-1:2016] section 17.5.2.26) then this behaves like a dataBinding (as specified in [ISO/IEC29500-1:2016] section 17.5.2.6) element, otherwise the data stored in the XML element will be an escaped string comprised of a flattened WordprocessingML document representing the formatted data in the structured document tag range.

See section 2.2.3 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="dataBinding" type="w12:CT_DataBinding"/>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.5.1.7 docId

Target namespace: http://schemas.microsoft.com/office/word/2012/wordml

The docId global element is a CT_Guid (as specified in section 2.5.3.3) element that specifies a unique identifier for a set of documents derived from a common source. The possible values for this attribute are defined by the ST_Guid simple type (as specified in section 2.5.4.1). See section 2.2.2 for how this element integrates with [ISO/IEC29500-1:2016].

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="docId" type="CT_Guid"/>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).
2.5.1.8 footnoteColumns

Target namespace: http://schemas.microsoft.com/office/word/2012/wordml

The footnoteColumns global element<24> is a CT_DecimalNumber (as specified by [ISO/IEC29500-1:2016] section A.1) element that, when added to a document section (sectPR element, as specified in [ISO/IEC29500-1:2016] section 17.6.18), specifies the formatting of the footnotes area of the page containing that section. If the element exists and is non-zero, then the footnotes area is formatted with the number of columns specified. If the element does not exist, or is zero, then the footnotes area of the page is formatted with a number of columns based on the number of columns on the displayed page.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

    <xsd:element name="footnoteColumns" type="w12:CT_DecimalNumber"/>

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.5.1.9 people

Target namespace: http://schemas.microsoft.com/office/word/2012/wordml

The people global element<25> is a CT_People (section 2.5.3.4) element that specifies contact information for each person who is the author of at least one comment or revision in the current document. It is the root element of the people part (section 2.1.3).

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

    <xsd:element name="people" type="CT_People"/>

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.5.1.10 repeatingSection

Target namespace: http://schemas.microsoft.com/office/word/2012/wordml

The repeatingSection global element<26> is a CT_SdtRepeatedSection (section 2.5.3.8) element that specifies that the parent structured document tag (as specified in [ISO/IEC29500-1:2016] section 17.5.2) is a container for repeated items. The parent structured document tag MUST contain only repeatingSectionItem (section 2.5.1.11) structured document tags.

If dataBinding (as specified in [ISO/IEC29500-1:2016] section 17.5.2.6) is specified and the binding results in finding XML elements, the numerical relation between the number of elements matched and the number of repeatingSectionItems (section 2.5.1.11) contained MUST be maintained.

See section 2.2.3 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

    <xsd:element name="repeatingSection" type="CT_SdtRepeatedSection"/>

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).
2.5.1.11 repeatingSectionItem

Target namespace: http://schemas.microsoft.com/office/word/2012/wordml

The repeatingSectionItem global element<27> is a CT_EMPTY (as specified in [ISO/IEC29500-1:2016] section A.1) element that specifies that the parent structured document tag (as specified in [ISO/IEC29500-1:2016] section 17.5.2) is a repeated item. The parent structured document tag MUST be contained within a repeatingSection (section 2.5.1.10) structured document tag and MUST be either Block-Level (as specified in [ISO/IEC29500-1:2016] section 17.5.2.29), Row-Level (as specified in [ISO/IEC29500-1:2016] section 17.5.2.30), or Cell-Level (as specified in [ISO/IEC29500-1:2016] section 17.5.2.32).

See section 2.2.3 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```
<xsd:element name="repeatingSectionItem" type="w12:CT_Empty"/>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.5.1.12 webExtensionCreated

Target namespace: http://schemas.microsoft.com/office/word/2012/wordml

The webExtensionCreated global element<28> is a CT_OnOff (as specified in [ISO/IEC29500-1:2016] section A.1) element that specifies a property of a structured document tag (as specified in [ISO/IEC29500-1:2016] section 17.5.2) and whose presence indicates a relationship between the structured document tag and an Office Web Extension (webExtension) (as specified in [MS-OXEXML] section 2.1.1).

If a webExtensionCreated element exists in the property set of a structured document tag (as specified in [ISO/IEC29500-1:2016] section 17.5.2.38) and its value is "true", "on", or "1", then the structured document tag was created by, and is bound to, at least one webExtension. By default, structured document tags are neither created by, nor bound to webExtensions.

If the property set of a structured document tag also contains a webExtensionLinked element, then that webExtensionLinked element is ignored and this webExtensionCreated element takes precedence.

See section 2.2.3 for how this element integrates with ISO/IEC-29500-1:2016.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```
<xsd:element name="webExtensionCreated" type="w12:CT_OnOff"/>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.5.1.13 webExtensionLinked

Target namespace: http://schemas.microsoft.com/office/word/2012/wordml

The webExtensionLinked global element<29> is a CT_OnOff (as specified in [ISO/IEC29500-1:2016] section A.1) element that specifies a property of a structured document tag (as specified in [ISO/IEC29500-1:2016] section 17.5.2) and whose presence indicates a relationship between the
structured document tag and an Office Web Extension (webExtension) (as specified in [MS-OWEXML] section 2.1.1).

If a **webExtensionLinked** element exists in the property set of a structured document tag (as specified in [ISO/IEC29500-1:2016] section 17.5.2.38) and its value is "true", "on", or "1", then the structured document tag is bound to at least one webExtension. By default, structured document tags are not bound to webExtensions.

If the property set of a structured document tag also contains a **webExtensionCreated** element, then this **webExtensionLinked** element is ignored.

See section 2.2.3 for how this element integrates with [ISO/IEC29500-1:2016].

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="webExtensionLinked" type="w12:CT_OnOff"/>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.5.2 Attributes

**2.5.2.1 restartNumberingAfterBreak**

*Target namespace:* http://schemas.microsoft.com/office/word/2012/wordml

The **restartNumberingAfterBreak** attribute is an **ST_OnOff** (as specified in [ISO/IEC29500-1:2016] section 22.9.2.7) attribute which, when applied to a Numbering Definition part, specifies that numbering will restart in the next section.

See section 2.2.10 for how this element integrates with [ISO/IEC29500-1:2016].

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this attribute.

```xml
<xsd:attribute name="restartNumberingAfterBreak" type="w12:ST_OnOff"/>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.5.3 Complex Types

**2.5.3.1 CT_CommentEx**

*Target namespace:* http://schemas.microsoft.com/office/word/2012/wordml

*Referenced by:* CT_CommentsEx

The **CT_CommentEx** complex type specifies additional information for a single comment in the current document.

**Attributes:**

**paraId:** An **ST_LongHexNumber** (as specified by [ISO/IEC29500-1:2016] section 17.18.50) attribute that specifies the paraId (section 2.6.2.3) of the last paragraph in the associated comment.
**paraIdParent:** An *ST_LongHexNumber* (as specified by [ISO/IEC29500-1:2016] section 17.18.50) attribute that specifies the *paraId* (section 2.6.2.3) of the last paragraph in the comment to which the associated comment is a reply.

**done:** An *ST_OnOff* (as specified in [ISO/IEC29500-1:2016] section 22.9.2.7) attribute that specifies whether the associated comment is marked as done. A value of 1 specifies that a user has indicated that this comment is done. A value of 0 specifies that a user has not indicated that this comment is done. The default value for this attribute is 0.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_CommentEx">
  <xsd:attribute name="paraId" type="w12:ST_LongHexNumber" use="required"/>
  <xsd:attribute name="paraIdParent" type="w12:ST_LongHexNumber" use="optional"/>
  <xsd:attribute name="done" type="w12:ST_OnOff" use="optional"/>
</xsd:complexType>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.5.3.2 CT_CommentsEx

**Target namespace:** http://schemas.microsoft.com/office/word/2012/wordml

**Referenced by:** commentsEx

The CT_CommentsEx complex type specifies additional information for all of the comments defined in the current document.

**Child Elements:**

- **commentEx:** A CT_CommentEx (section 2.5.3.1) element that specifies additional information for a single comment in the current document.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_CommentsEx">
  <xsd:sequence>
    <xsd:element name="commentEx" type="CT_CommentEx" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.5.3.3 CT_Guid

**Target namespace:** http://schemas.microsoft.com/office/word/2012/wordml

**Referenced by:** docId

A complex type that specifies a GUID (globally unique identifier).

**Attributes:**

- **val:** An *ST_Guid* (section 2.5.4.1) attribute that specifies the value of this complex type.
The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_Guid">
  <xsd:attribute name="val" type="ST_Guid"/>
</xsd:complexType>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.5.3.4 CT_People

**Target namespace:** http://schemas.microsoft.com/office/word/2012/wordml

**Referenced by:** people

The CT_People complex type specifies contact information for each person who is the author of at least one comment or revision in the current document.

**Child Elements:**

- **person:** A CT_Person (section 2.5.3.5) element that specifies contact information for an author of at least one comment or revision in the current document.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_People">
  <xsd:sequence>
    <xsd:element name="person" type="CT_Person" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.5.3.5 CT_Person

**Target namespace:** http://schemas.microsoft.com/office/word/2012/wordml

**Referenced by:** CT_People

The CT_Person complex type specifies contact information for an author of at least one comment or revision in the current document.

**Child Elements:**

- **presenceInfo:** A CT_PresenceInfo element (section 2.5.3.6) that specifies uniquely identifying contact information for the person whose name matches the value of the author attribute of this complex type.

**Attributes:**

- **author:** An ST_String (as specified in [ISO/IEC29500-1:2016] section 22.9.2.13) attribute that specifies the author name to which this person is associated. The value of this attribute MUST match the Annotation Author (as specified in [ISO/IEC29500-1:2016] sections 17.13.4.2 and 17.13.5) value of at least one comment or revision in the current document.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.
<xsd:complexType name="CT_Person">
  <xsd:sequence>
    <xsd:element name="presenceInfo" type="CT_PresenceInfo" minOccurs="0" maxOccurs="1"/>
  </xsd:sequence>
  <xsd:attribute name="author" type="w12:ST_String" use="required"/>
</xsd:complexType>

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.5.3.6 CT_PresenceInfo

Target namespace: http://schemas.microsoft.com/office/word/2012/wordml

Referenced by: CT_Person

The CT_PresenceInfo complex type specifies uniquely identifying contact information for a person.

Attributes:

providerId: An xsd:string attribute ([XMLSCHEMA2/2] section 3.2.1) that specifies the identity provider that produced the subsequent userId attribute.

userId: An xsd:string attribute ([XMLSCHEMA2/2] section 3.2.1) that specifies a unique user id for a person.

This table lists the allowed values of the providerId attribute and the corresponding meanings of the userId attribute.

<table>
<thead>
<tr>
<th>Identity Provider</th>
<th>providerId value</th>
<th>userId value</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Provider</td>
<td>&quot;None&quot;</td>
<td>Author's name</td>
</tr>
<tr>
<td>Active Directory</td>
<td>&quot;AD&quot;</td>
<td>Active Directory Security Identifier (as specified in [MS-DTYP] section 2.4.2)</td>
</tr>
<tr>
<td>Windows Live ID</td>
<td>&quot;Windows Live&quot;</td>
<td>A 64-bit signed decimal that uniquely identifies a user on Windows Live.</td>
</tr>
<tr>
<td>Office 365&lt;sup&gt;36&lt;/sup&gt;</td>
<td>&quot;AD&quot;</td>
<td>A string that uniquely identifies a user. It SHOULD&lt;sup&gt;37&lt;/sup&gt; be comprised of three individual values separated by a &quot;:&quot; character delimiter.</td>
</tr>
</tbody>
</table>

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_PresenceInfo">
  <xsd:attribute name="providerId" type="xsd:string" use="required"/>
  <xsd:attribute name="userId" type="xsd:string" use="required"/>
</xsd:complexType>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.5.3.7 CT_SdtAppearance

Target namespace: http://schemas.microsoft.com/office/word/2012/wordml

Referenced by: appearance
The **CT_SdtAppearance** complex type (section 2.5.4.2) specifies the appearance of a structured document tag (as specified in [ISO/IEC29500-1:2016] section 17.5.2).

**Attributes:**

**val:** An **ST_SdtAppearance** (section 2.5.4.2) attribute that specifies the appearance of a structured document tag (as specified in [ISO/IEC29500-1:2016] section 17.5.2).

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_SdtAppearance">
  <xsd:attribute name="val" type="ST_SdtAppearance"/>
</xsd:complexType>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.5.3.8 CT_SdtRepeatedSection

**Target namespace:** http://schemas.microsoft.com/office/word/2012/wordml

**Referenced by:** repeatingSection

The **CT_SdtRepeatedSection** complex type (section 2.5.3.8) specifies the properties of a structured document tag (as specified in [ISO/IEC29500-1:2016] section 17.5.2) in the form of a repeated section.

**Child Elements:**

- **sectionTitle:** An optional **CT_String** (as specified in [ISO/IEC29500-1:2016] section A.1) element that specifies the display name of the repeated section.

- **doNotAllowInsertDeleteSection:** A **CT_OnOff** (as specified in [ISO/IEC29500-1:2016] section A.1) element that specifies whether to allow the insertion of new or deletion of old **repeatingSectionItems** (section 2.5.1.11) contained within the structured document tag except when needed to maintain the numerical relation between the number of elements matched through data binding and the number of **repeatingSectionItems** (section 2.5.1.11) contained.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_SdtRepeatedSection">
  <xsd:sequence>
    <xsd:element name="sectionTitle" type="w12:CT_String" minOccurs="0"/>
    <xsd:element name="doNotAllowInsertDeleteSection" type="w12:CT_OnOff" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.5.4 Simple Types

#### 2.5.4.1 ST_Guid

**Target namespace:** http://schemas.microsoft.com/office/word/2012/wordml

**Referenced by:** CT_Guid
The **ST_Guid** simple type specifies a GUID, or globally unique identifier ([ISO/IEC29500-4:2016] section A.7.9).

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this simple type.

```xml
<xsd:simpleType name="ST_Guid">
    <xsd:restriction base="xsd:token">
        <xsd:pattern value="\{[0-9A-F]{8}\}-[0-9A-F]{4}-[0-9A-F]{4}-[0-9A-F]{4}-[0-9A-F]{12}\}"/>
    </xsd:restriction>
</xsd:simpleType>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.5.4.2 ST_SdtAppearance

**Target namespace:** http://schemas.microsoft.com/office/word/2012/wordml  
**Referenced by:** CT_SdtAppearance

The **ST_SdtAppearance** simple type `<40>` specifies the appearance of a structured document tag (as specified in [ISO/IEC29500-1:2016] section 17.5.2)

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>boundingBox</td>
<td>Specifies that the region encompassed by a structured document is outlined or shaded when visual indication of the structured document tag is needed. Any UI specific to a particular structured document tag is visible when needed.</td>
</tr>
<tr>
<td>tags</td>
<td>Specifies that the physical characters that delimit the start and end of the structured document tag are visible as well as any UI specific to a particular structured document tag.</td>
</tr>
<tr>
<td>hidden</td>
<td>Specifies that there is no visual indication of the structured document tag.</td>
</tr>
</tbody>
</table>

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this simple type.

```xml
<xsd:simpleType name="ST_SdtAppearance">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="boundingBox"/>
        <xsd:enumeration value="tags"/>
        <xsd:enumeration value="hidden"/>
    </xsd:restriction>
</xsd:simpleType>
```

See section 5.2 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6 http://schemas.microsoft.com/office/word/2010/wordml

#### 2.6.1 Elements

##### 2.6.1.1 checkbox

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml
A **CT_SdtCheckbox** element that specifies that the parent structured document tag (as specified in [ISO/IEC29500-1:2016] section 17.5.2) is a checkbox when displayed in the document. The parent structured document tag contents MUST contain a single character and optionally an additional character in a deleted run (as specified in [ISO/IEC29500-1:2016] section 17.13.5.14). See section 2.2.3 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="checkbox" type="CT_SdtCheckbox"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.1.2 cnttxtAlts

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

A **CT_OnOff** element that specifies whether to display the characters using contextual alternates. (For more information about contextual alternates, see [ISO/IEC-14496-22].) By default, text is not displayed using contextual alternates. See section 2.2.1 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="cntxtAlts" minOccurs="0" type="CT_OnOff"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.1.3 conflictDel

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

A **CT_RunTrackChange** element as specified in [ISO/IEC29500-1:2016] that specifies inline-level content that has been deleted in conflict with edits made by other users. An application MAY treat the content as a tracked deletion. See section 2.2.5 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="conflictDel" type="w:CT_RunTrackChange" minOccurs="0"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.1.4 conflictDel

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

A **CT_TrackChange** element as specified in [ISO/IEC29500-1:2016] that specifies that the parent object has been deleted in conflict with edits made by other users. An application MAY treat the parent as a tracked deletion. See section 2.2.5 for how this element integrates with ISO/IEC-29500-1.
The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="conflictDel" type="w:CT_TrackChange" minOccurs="0"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.1.5 conflictIns

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

A **CT_TrackChange** element as specified in [ISO/IEC29500-1:2016] that specifies that the parent object has been inserted in conflict with edits made by other users. An application MAY treat the parent as a tracked insertion. See section 2.2.5 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="conflictIns" type="w:CT_TrackChange" minOccurs="0"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.1.6 conflictIns

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

A **CT_RunTrackChange** element as specified in [ISO/IEC29500-1:2016] that specifies inline-level content that has been inserted in conflict with edits made by other users. An application MAY treat the content as a tracked insertion. See section 2.2.5 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="conflictIns" type="w:CT_RunTrackChange" minOccurs="0"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.1.7 conflictMode

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

A **CT_OnOff** element that, when true, specifies that the user was resolving conflicting edits when the document was saved. See section 2.2.2 for how this element integrates with [ISO/IEC29500-1:2016].

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="conflictMode" type="CT_OnOff"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).
2.6.1.8 customXmlConflictDelRangeEnd

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

A CT_Markup (as specified in [ISO/IEC29500-1:2016]) element that specifies the end of a region in which all custom XML markup has been deleted in conflict with edits made by other users. An application MAY<45> ignore this element. See section 2.2.5 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="customXmlConflictDelRangeEnd" type="w:CT_Markup"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.1.9 customXmlConflictDelRangeStart

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

A CT_TrackChange (as specified in [ISO/IEC29500-1:2016]) element that specifies the beginning of a region in which all custom XML markup has been deleted in conflict with edits made by other users. An application MAY<46> ignore this element. See section 2.2.5 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="customXmlConflictDelRangeStart" type="w:CT_TrackChange"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.1.10 customXmlConflictInsRangeEnd

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

A CT_Markup (as specified in [ISO/IEC29500-1:2016]) element that specifies the end of a region in which all custom XML markup has been inserted in conflict with edits made by other users. An application MAY<47> ignore this element. See section 2.2.5 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="customXmlConflictInsRangeEnd" type="w:CT_Markup"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.1.11 customXmlConflictInsRangeStart

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

A CT_TrackChange (as specified in [ISO/IEC29500-1:2016]) element that specifies the beginning of a region in which all custom XML markup has been inserted in conflict with edits made by other users.
An application MAY <48> ignore this element. See section 2.2.5 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

   <xsd:element name="customXmlConflictInsRangeStart" type="w:CT_TrackChange"/>

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.1.12  defaultImageDpi

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

This setting is ignored by images that have dots per inch (DPI) specified by useLocalDpi (as specified in [MS-ODRAWXML] section 2.3.1.13). This setting is also ignored when doNotAutoCompressPictures (as specified in [ISO/IEC29500-1:2016] section 17.15.1.33) is set to "true".

A CT_DefaultImageDpi element that specifies the resolution in dots per inch (DPI) at which images in the document will be saved. See section 2.2.2 for how this element integrates with ISO/IEC-29500-1. §

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

   <xsd:element name="defaultImageDpi" type="CT_DefaultImageDpi"/>

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.1.13  discardImageEditingData

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

A CT_OnOff element that specifies that when true, the cropped-out areas of the images are not to be saved. Rather, the images saved are the results of applying imgProps (as specified in [MS-ODRAWXML] section 2.3.1.9) on the original images. See section 2.2.2 for how this element integrates with ISO/IEC-29500-1.

If this element is absent or if it has a value of "false", the cropped-out areas of images are saved.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

   <xsd:element name="discardImageEditingData" type="CT_OnOff"/>

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.1.14  docId

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

A CT_LongHexNumber element that specifies an arbitrary identifier for the context of the paragraph identifiers in the document. Values MUST be greater than 0 and less than 0x80000000. See section 2.2.2 for how this element integrates with [ISO/IEC29500-1:2016].
The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="docId" type="CT_LongHexNumber"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.1.15 entityPicker

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

A **CT_EMPTY** element (as specified in [ISO/IEC29500-1:2016] section A.1) that specifies that the parent structured document tag (as specified in [ISO/IEC29500-1:2016] section 17.5.2) allows the user to select an instance of an external content type when displayed in the document. See section 2.2.3 for how the entityPicker element integrates with ISO/IEC-29500-1.

The parent structured document tag MUST contain content that is valid within a **text** element (as specified in [ISO/IEC29500-1:2016] section 17.5.2.44), and MUST contain a **dataBinding** element (as specified in [ISO/IEC29500-1:2016] section 17.5.2.6).

The WordprocessingML document MUST contain a custom XML data part whose root namespace is "http://schemas.microsoft.com_office/2006/metadata/properties", and whose identifier (as specified by [ISO/IEC29500-1:2016] section 22.5.2.1) matches the value specified by the **storeItemID** attribute on the **dataBinding** element of the structured document tag containing the entityPicker element. The **xpath** attribute on the **dataBinding** element MUST specify the path to an element within that custom XML data part.

The document MUST also contain a custom XML data part whose root namespace is "http://schemas.microsoft.com_office/2006/metadata/contentType". This custom XML data part contains a **schema** element (in the "http://www.w3.org/2001/XMLSchema" namespace) that specifies an XML Schema for the element specified by the **xpath** attribute of the **dataBinding** element of the entityPicker. The rest of this section refers to this schema as the **element schema**.

The **element schema** specifies four attributes, each with a fixed value:

- **SystemInstanceId**: Specifies the LobSystemInstance name.
- **EntityNamespace**: Specifies the Entity namespace.
- **EntityName**: Specifies the Entity name.
- **BdcField**: Specifies the name of the Field within the EntityInstance.

Together with the location of the document, these values specify the external content type that the user is selecting one or more instances of.

The result of the user choosing an instance of an external content type is an **EntityInstanceId**, and values of one or more Fields within the **EntityInstance**.

The **element schema** further specifies three more attributes, each with a fixed value, which collectively specify where to place the EntityInstanceId, and the Field values resulting from the user’s selection:

- **RelatedFieldWssStaticName**: Specifies a sibling of the XML element specified by the **xpath** attribute of the **dataBinding** element mentioned earlier. The text of this element MUST be set to the EntityInstanceId Identifier obtained from user choosing an instance of the external content type.
- **SecondaryFieldBdcNames**: Specifies a list of names of Fields within the EntityInstance (the fields whose values resulted from user’s choice). The list MUST contain the same number of names as the **SecondaryFieldsWssStaticNames** attribute.
- **SecondaryFieldsWssStaticNames**: Specifies a corresponding list of names of XML elements that are siblings of the XML element specified by the **xpath** attribute of the **dataBinding** element.
mentioned earlier. The list MUST contain the same number of names as the
SecondaryFieldBdcNames attribute.

The value (resulting from the user’s choice) of each one of the Fields within the EntityInstance
specified by SecondaryFieldBdcNames MUST be set as the text of the XML element whose name
appears at the same index in SecondaryFieldsWssStaticNames.

The list of names specified by SecondaryFieldBdcNames and SecondaryFieldsWssStaticNames
MUST be encoded as follows:

1. Start with an empty string.
2. For each name, append the length of the name, plus one, as a base-10 integer, each value
   followed by a single space character.
3. The names are then appended to the string, in the same order in which their lengths were added
   in step 2, followed by a single space character.
4. The zero-based character position of where the first name begins in the string is then appended to
   the string.
5. Finally, the resulting string is escaped as specified by [RFC3986].

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this
element.

```xml
<xsd:element name="entityPicker" type="w:CT_Empty"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.1.16 glow

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

A CT_Glow element that specifies the glow effect, a colored, blurred outline that is added outside the
edges of text. By default, text does not have glow. See section 2.2.1 for how this element integrates
with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this
element.

```xml
<xsd:element name="glow" minOccurs="0" type="CT_Glow"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.1.17 ligatures

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

A CT_Ligatures element that specifies which kinds of ligatures to use when displaying the text. (For
more information about ligatures, see [ISO/IEC-14496-22](https://example.com)). By default, no ligatures are used. See
section 2.2.1 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this
element.

```xml
```
See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

**2.6.1.18 numForm**

*Target namespace:* http://schemas.microsoft.com/office/word/2010/wordml

A `CT_NumForm` element that specifies the form in which numerals are displayed. (For more information about number forms, see [ISO/IEC-14496-22].) By default, numerals are displayed in the font's default form. See section 2.2.1 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="numForm" minOccurs="0" type="CT_NumForm"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

**2.6.1.19 numSpacing**

*Target namespace:* http://schemas.microsoft.com/office/word/2010/wordml

A `CT_NumSpacing` element that specifies which spacing form of the numeral is displayed. (For more information about numeral spacing, see [ISO/IEC-14496-22].) By default, the font's default form is used. See section 2.2.1 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="numSpacing" minOccurs="0" type="CT_NumSpacing"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

**2.6.1.20 props3d**

*Target namespace:* http://schemas.microsoft.com/office/word/2010/wordml

A `CT_Props3D` element that specifies the 3-D properties of text, including bevel, extrusion, contour, and material. By default, text does not have 3-D properties. See section 2.2.1 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="props3d" minOccurs="0" type="CT_Props3D"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

**2.6.1.21 reflection**

*Target namespace:* http://schemas.microsoft.com/office/word/2010/wordml
A **CT_Reflection** element that specifies the reflection effect. By default, text does not have reflection. See section 2.2.1 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="reflection" minOccurs="0" type="CT_Reflection"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.1.22 scene3d

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

A **CT_Scene2.6.3.26D** element that specifies 3-D scene properties of text, including camera and lighting. By default, text does not have 3-D scene properties. See section 2.2.1 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="scene3d" minOccurs="0" type="CT_Scene3D"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.1.23 shadow

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

A **CT_Shadow** element that specifies the shadow effect. By default, text does not have shadow. See section 2.2.1 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="shadow" minOccurs="0" type="CT_Shadow"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.1.24 stylisticSets

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

A **CT_StylisticSets** element that specifies a list of stylistic sets that modify the display of OpenType fonts. (For more information about stylistic sets, see [ISO/IEC-14496-22].) By default, there are no stylistic sets enabled. See section 2.2.1 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="stylisticSets" minOccurs="0" type="CT_StylisticSets"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).
2.6.1.25  **textFill**

*Target namespace:* http://schemas.microsoft.com/office/word/2010/wordml

A **CT_FillTextEffect** element that specifies the fill for text. By default, this element is absent. When this element is absent, the color of text is determined by the **color** element (as specified in [ISO/IEC29500-1:2016] section 17.3.2.6). See section 2.2.1 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="textFill" minOccurs="0" type="CT_FillTextEffect"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.1.26  **textOutline**

*Target namespace:* http://schemas.microsoft.com/office/word/2010/wordml

A **CT_TextOutlineEffect** element that specifies the outline style to be applied to text. By default, text does not have outline. See section 2.2.1 for how this element integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="textOutline" minOccurs="0" type="CT_TextOutlineEffect"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.2  **Attributes**

2.6.2.1  **anchorId**

*Target namespace:* http://schemas.microsoft.com/office/word/2010/wordml

An **ST_LongHexNumber** (as specified by [ISO/IEC29500-1:2016] section 17.18.50) attribute that specifies an identifier for the element this attribute is applied to. Values MUST be greater than 0 and less than 0x80000000. See section 2.2.6 for how this attribute integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this attribute.

```xml
<xsd:attribute name="anchorId" type="w:ST_LongHexNumber"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.2.2  **noSpellErr**

*Target namespace:* http://schemas.microsoft.com/office/word/2010/wordml

An **ST_OnOff** (as specified in [ISO/IEC29500-1:2016] section 22.9.2.7) attribute that when applied to a paragraph specifies whether the text of that paragraph is free of detected spelling errors. A value of 1 specifies that no spelling errors were detected in this paragraph. A value of 0 specifies that no
information is available about spelling errors in the text of the paragraph. The default value for this
attribute is 0. See section 2.2.4 for how this attribute integrates with [ISO/IEC29500-1:2016].

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this
attribute.

```xml
<xsd:attribute name="noSpellErr" type="w:ST_OnOff"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.2.3 paraId

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

An ST_LongHexNumber (as specified by [ISO/IEC29500-1:2016] section 17.18.50) attribute that
specifies an identifier for a paragraph that is unique within the document part (as specified by
[ISO/IEC29500-1:2016] section 11.3), with the exception that it need not be unique across the
choices or fallback of an Alternate Content block (as specified by [ISO/IEC29500-1:2016] section
17.17.3). Values MUST be greater than 0 and less than 0x80000000. See section 2.2.4 for how this
attribute integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this
attribute.

```xml
<xsd:attribute name="paraId" type="w:ST_LongHexNumber"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.2.4 textId

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

An ST_LongHexNumber (as specified by [ISO/IEC29500-1:2016] section 17.18.50) attribute that
specifies a version identifier for a paragraph. Values MUST be greater than 0 and less than
0x80000000. Any element having this attribute MUST also have the paraId attribute.

If two documents have the same docId, then if two paragraphs within the same respective document
part (as specified by [ISO/IEC29500-1:2016] section 11.3) that have the same paraId and textId
SHOULD contain identical text, although formatting could differ. See section 2.2.4 for how this
attribute integrates with ISO/IEC-29500-1.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this
attribute.

```xml
<xsd:attribute name="textId" type="w:ST_LongHexNumber"/>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.3 Complex Types

#### 2.6.3.1 CT_Bevel

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml
Referenced by: `CT_Props3D`

A complex type that specifies the bevel properties.

**Attributes:**

- **w**: An optional `ST_PositiveCoordinate` (as specified in [ISO/IEC29500-1:2016] section 20.1.10.42) attribute that specifies the width of the bevel. This attribute MAY be limited further in the application. The default value for this attribute is 0.

- **h**: An optional `ST_PositiveCoordinate` (as specified in [ISO/IEC29500-1:2016] section 20.1.10.42) attribute that specifies the height of the bevel. This attribute MAY be limited further in the application. The default value for this attribute is 0.

- **prst**: An optional `ST_BevelPresetType` attribute that specifies the preset bevel type that defines the appearance of the bevel. The default value for this attribute is the circle preset type.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_Bevel">
  <xsd:attribute name="w" type="a:ST_PositiveCoordinate" use="optional"/>
  <xsd:attribute name="h" type="a:ST_PositiveCoordinate" use="optional"/>
  <xsd:attribute name="prst" type="ST_BevelPresetType" use="optional"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.3.2 CT_Camera

**Target namespace**: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by: `CT_Scene3D`

A complex type that specifies the placement of the camera in the 3D scene.

**Attributes:**

- **prst**: An `ST_PresetCameraType` attribute that specifies the presets that define the position of the camera in space. Applications MAY restrict the values of this attribute.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_Camera">
  <xsd:attribute name="prst" use="required" type="ST_PresetCameraType"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.3.3 CT_Color

**Target namespace**: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by: `CT_Props3D`

A complex type that specifies the color.
Child Elements:

**srgbClr:** A **CT_SRgbColor** element that specifies the color in the RGB color model.

**schemeClr:** A **CT_SchemeColor** element that specifies a color from a theme. Color changes if theme bindings change.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_Color">
  <xsd:sequence>
    <xsd:group ref="EG_ColorChoice"/>
  </xsd:sequence>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.3.4 CT_DefaultImageDpi

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by:** defaultImageDpi

A complex type that specifies that default dots per inch (DPI) to be used to save each image in the document.

**Attributes:**

**val:** An **ST_DecimalNumber** (as specified in [ISO/IEC29500-1:2016] section 17.18.10) attribute that specifies the DPI at which the images in the document will be saved.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_DefaultImageDpi">
  <xsd:attribute name="val" type="w:ST_DecimalNumber" use="required"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.3.5 CT_FillTextEffect

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by:** textFill

A complex type that specifies a fill. If this element has no child elements, a default of solid black fill is applied.

**Child Elements:**

**noFill:** A **CT_Empty** (as specified in [ISO/IEC29500-1:2016] section A.1) element that specifies that no fill is applied to text.

**solidFill:** A **CT_SolidColorFillProperties** element that specifies a solid color fill. The text is filled entirely with the specified color.
gradFill: A **CT_GradientFillProperties** element that specifies the gradient fill. A gradient fill is a fill that is characterized by a smooth gradual transition from one color to the next.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT_FillTextEffect">
  <xsd:sequence>
    <xsd:group ref="EG_FillProperties" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.3.6 CT_Glow

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml  
**Referenced by:** glow  

A complex type that specifies the color and radius of glow.

**Child Elements:**

- **srgbClr:** A **CT_SRgbColor** element that specifies the color in the RGB color model.

- **schemeClr:** A **CT_SchemeColor** element that specifies a color from a theme. Color changes if theme bindings change.

**Attributes:**

- **rad:** An optional **ST_PositiveCoordinate** (as specified in [ISO/IEC29500-1:2016] section 20.1.10.42) attribute that specifies the radius of glow. This attribute MAY<52> be limited further in the application. The default value for this attribute is 0.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT_Glow">
  <xsd:sequence>
    <xsd:group ref="EG_ColorChoice"/>
  </xsd:sequence>
  <xsd:attribute name="rad" use="optional" type="a:ST_PositiveCoordinate"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.3.7 CT_GradientFillProperties

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml  
**Referenced by:** **CT_TextOutlineEffect**, **CT_FillTextEffect**

A complex type that specifies a gradient fill. A gradient fill is a fill that is characterized by a smooth gradual transition from one color to the next.
The desired transition colors and locations are specified in the gradient stop list (gsLst) child element. When this element has neither lin nor path child elements, a default lin element with ang = 0 and scaled = false is assumed.

Child Elements:

- **gsLst**: A CT_GradientStopList element that specifies gradient colors and their relative positions in the color band. Black solid fill is used as a default when this element is absent.
- **lin**: A CT_LinearShadeProperties element that specifies a linear gradient.
- **path**: A CT_PathShadeProperties element that specifies that the gradient fill follows a path versus a linear line.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_GradientFillProperties">
  <xsd:sequence>
    <xsd:element name="gsLst" type="CT_GradientStopList" minOccurs="0"/>
    <xsd:group ref="EG_ShadeProperties" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.3.8 CT_GradientStop

**Target namespace**: http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by**: CT_GradientStopList

A complex type that specifies a gradient stop. A gradient stop consists of a position where the stop appears in the color band.

Child Elements:

- **srgbClr**: A CT_SRgbColor element that specifies the color in the RGB color model.
- **schemeClr**: A CT_SchemeColor element that specifies a color from a theme. Color changes if theme bindings change.

Attributes:


The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_GradientStop">
  <xsd:sequence>
    <xsd:group ref="EG_ColorChoice"/>
  </xsd:sequence>
  <xsd:attribute name="pos" type="a:ST_PositiveFixedPercentage" use="required"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).
2.6.3.9 CT_GradientStopList

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by: CT_GradientFillProperties

A complex type that contains a list of gradient stops. These gradient stops specify the gradient colors and their relative positions in the color band.

Child Elements:

**gs**: A CT_GradientStop element that specifies gradient stops.

The following W3C XML Schema ([XMLSCHMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_GradientStopList">
  <xsd:sequence>
    <xsd:element name="gs" type="CT_GradientStop" minOccurs="2" maxOccurs="10"/>
  </xsd:sequence>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHMA1/2] section 2.1).

2.6.3.10 CT_Ligatures

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by: ligatures

A complex type that specifies which kinds of ligatures to use when displaying the text.

Attributes:

**val**: An ST_Ligatures attribute that specifies which kinds of ligatures to use when displaying the text.

The following W3C XML Schema ([XMLSCHMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_Ligatures">
  <xsd:attribute name="val" type="ST_Ligatures" use="required"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHMA1/2] section 2.1).

2.6.3.11 CT_LightRig

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by: CT_Scene3D

A complex type that specifies the lighting properties associated with the scene.

Child Elements:

**rot**: A CT_SphereCoords element that specifies the rotation in 3-D space. By default the light rig is not rotated.
Attributes:

rig: An **ST_LightRigType** attribute that specifies the preset type of light rig that is to be applied to the scene.

dir: An **ST_LightRigDirection** attribute that specifies the direction from which the light rig is oriented in relation to the scene.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_LightRig">
  <xsd:sequence>
    <xsd:element name="rot" type="CT_SphereCoords" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="rig" type="ST_LightRigType" use="required"/>
  <xsd:attribute name="dir" type="ST_LightRigDirection" use="required"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.3.12 CT_LinearShadeProperties

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by:** CT_GradientFillProperties

A complex type that specifies linear gradient.

**Attributes:**

ang: An optional **ST_PositiveFixedAngle** (as specified in [ISO/IEC29500-1:2016] section 20.1.10.44) attribute that specifies the direction of color change for the gradient. To define this angle, let its value be x measured clockwise. Then (-sin x, cos x) is a vector parallel to the line of constant color in the gradient fill. Default value for this attribute is 0.

scaled: An optional **ST_OnOff** attribute that specifies whether the gradient angle scales with the fill area. Mathematically, if this flag is true, then the gradient vector (cos x, sin x) is scaled by the width(w) and height(h) of the fill area, so that the vector becomes (w cos x, h sin x) (before normalization). Observe that now if the gradient angle is 45 degrees, the gradient vector is (w,h), which goes from top-left to bottom-right of the fill area. If this flag is false, the gradient angle is independent of the fill area and is not scaled using the manipulation described earlier. So a 45-degree gradient angle gives a gradient band whose line of constant color is parallel to the vector (1, -1). By default, linear shade is not scaled.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_LinearShadeProperties">
  <xsd:attribute name="ang" type="a:ST_PositiveFixedAngle" use="optional"/>
  <xsd:attribute name="scaled" type="ST_OnOff" use="optional"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.3.13 CT_LineJoinMiterProperties

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml
A complex type that specifies that a line join is mitered (as specified in [ISO/IEC29500-1:2016] §20.1.8.43).

**Attributes:**

- **lim:** An optional **ST_PositivePercentage** as specified in [ISO/IEC29500-4:2016] section 12.1.2.4 and [ISO/IEC29500-1:2016] section 20.1.10.46 that specifies the amount by which lines are extended to form a miter join – otherwise miter joins can extend infinitely far (for lines which are almost parallel). The default value for this attribute is 0.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_LineJoinMiterProperties">
  <xsd:attribute name="lim" type="a:ST_PositivePercentage" use="optional"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.3.14 CT_LongHexNumber

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by:** docId

A complex type that represents a 32-bit integer. Value ranges from 0 to 0xFFFFFFFF.

**Attributes:**

- **val:** An **ST_LongHexNumber** (as specified by [ISO/IEC29500-1:2016] section 17.18.50) attribute that specifies the value of the property.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_LongHexNumber">
  <xsd:attribute name="val" type="w:ST_LongHexNumber" use="required"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.3.15 CT_NumForm

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by:** numForm

A complex type that specifies the form in which numerals are displayed.

**Attributes:**

- **val:** A required **ST_NumForm** attribute that specifies the form in which numerals are displayed.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.
<xsd:complexType name="CT_NumForm">
    <xsd:attribute name="val" type="ST_NumForm" use="required"/>
</xsd:complexType>

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.3.16 CT_NumSpacing

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml  
**Referenced by:** numSpacing  

A complex type that specifies the form in which numerals are displayed.

**Attributes:**  
**val:** An **ST_NumSpacing** attribute that specifies the form in which numerals are displayed.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_NumSpacing">
    <xsd:attribute name="val" type="ST_NumSpacing" use="required"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.3.17 CT_OnOff

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml  
**Referenced by:** CT_SdtCheckbox, conflictMode, discardImageEditingData, cntxtAlts  

A complex type that specifies a value for a Boolean (true or false) property.

**Attributes:**  
**val:** An optional **ST_OnOff** attribute that specifies the value of the property. By default, the value is true.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_OnOff">
    <xsd:attribute name="val" type="ST_OnOff"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.3.18 CT_PathShadeProperties

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml  
**Referenced by:** CT_GradientFillProperties  

A complex type that specifies that a gradient fill follows a path versus a linear line.
**Child Elements:**

**fillToRect:** A **CT_RelativeRect** element that specifies the focus rectangle for center shade (as specified in [ISO/IEC29500-1:2016] section 20.1.8.31). Center shade fills the entire shape except the margins specified by each attribute of this element. Each edge of the center shade rectangle is specified by a percentage offset from the corresponding edge of the container. A positive percentage specifies an inset and a negative percentage specifies an outset. By default, center shade fills the entire shape.

**Attributes:**

**path:** An optional **ST_PathShadeType** attribute that specifies the shape of the path to follow. By default, gradient fill will follow a rectangular path.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT_PathShadeProperties">
  <xsd:sequence>
    <xsd:element name="fillToRect" type="CT_RelativeRect" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="path" type="ST_PathShadeType" use="optional"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

**2.6.3.19 CT_Percentage**

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by:** CT_SRgbColor, CT_SchemeColor

A complex type that specifies a percentage in thousandths of a percent. For example, the value of 1 represents 0.001%.

**Attributes:**


The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT_Percentage">
  <xsd:attribute name="val" type="a:ST_Percentage" use="required"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

**2.6.3.20 CT_PositiveFixedPercentage**

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by:** CT_SRgbColor, CT_SchemeColor

A complex type that specifies a percentage in thousandths of a percent. Its value ranges from 0% to 100%.
Attributes:


The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_PositiveFixedPercentage">
   <xsd:attribute name="val" type="a:ST_PositiveFixedPercentage" use="required"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.3.21  CT_PositivePercentage

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by: CT_SRgbColor, CT_SchemeColor

A complex type that specifies a positive percentage in thousandths of a percent.

Attributes:


The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_PositivePercentage">
   <xsd:attribute name="val" type="a:ST_PositivePercentage" use="required"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.3.22  CT_PresetLineDashProperties

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by: CT_TextOutlineEffect

A complex type that specifies the type of line dashing scheme to use.

Attributes:

val: An optional ST_PresetLineDashVal attribute that specifies the type of preset dashing scheme to be used. By default, a solid line is used.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_PresetLineDashProperties">
   <xsd:attribute name="val" type="ST_PresetLineDashVal" use="optional"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).
2.6.3.23 CT_Props3D

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by: props3d

A complex type that specifies 3-D properties associated with text.

Child Elements:

bevelT: A CT_Bevel element that specifies the top bevel of text.

bevelB: A CT_Bevel element that specifies the bottom bevel of text.

extrusionClr: A CT_Color element that specifies the extrusion color. In absence of this element, black is used as default.

contourClr: A CT_Color element that specifies the contour color. In absence of this element, black is used as default.

Attributes:

extrusionH: An ST_PositiveCoordinate (as specified in [ISO/IEC29500-1:2016] section 20.1.10.42) attribute that specifies height of extrusion. This attribute MAY be limited further in the application. The default value for this attribute is 0.

contourW: An ST_PositiveCoordinate (as specified in [ISO/IEC29500-1:2016] section 20.1.10.42) attribute that specifies width of contour. This attribute MAY be limited further in the application. The default value for this attribute is 0.

prstMaterial: An ST_PresetMaterialType attribute that specifies preset material type. The default value for this attribute is warm matte.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_Props3D">
    <xsd:sequence>
        <xsd:element name="bevelT" type="CT_Bevel" minOccurs="0"/>
        <xsd:element name="bevelB" type="CT_Bevel" minOccurs="0"/>
        <xsd:element name="extrusionClr" type="CT_Color" minOccurs="0"/>
        <xsd:element name="contourClr" type="CT_Color" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="extrusionH" type="a:ST_PositiveCoordinate" use="optional"/>
    <xsd:attribute name="contourW" type="a:ST_PositiveCoordinate" use="optional"/>
    <xsd:attribute name="prstMaterial" type="ST_PresetMaterialType" use="optional"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.3.24 CT_Reflection

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by: reflection

A complex type that specifies the reflection effect.

Attributes:
blurRad: An optional **ST_PositiveCoordinate** (as specified in [ISO/IEC29500-1:2016] section 20.1.10.42) attribute that specifies the blur radius. This attribute MAY be limited further in the application[^55]. The default value for this attribute is 0.


stPos: An optional **ST_PositiveFixedPercentage** (as specified in [ISO/IEC29500-4:2016] section 12.1.2.3 and [ISO/IEC29500-1:2016] section 20.1.10.45) that specifies the start position along the gradient ramp of the start alpha value. The default value for this attribute is 0.

dist: An optional **ST_PositiveCoordinate** (as specified in [ISO/IEC29500-1:2016] section 20.1.10.42) attribute that specifies how far to offset the reflection from the text. This attribute MAY be limited further in the application[^56]. The default value for this attribute is 0.

dir: An optional **ST_PositiveFixedAngle** (as specified in [ISO/IEC29500-1:2016] section 20.1.10.44) attribute that specifies the direction to offset the reflection. The default value for this attribute is 0.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT_Reflection">
    <xsd:attribute name="blurRad" use="optional" type="a:ST_PositiveCoordinate"/>
    <xsd:attribute name="stA" use="optional" type="a:ST_PositiveFixedPercentage"/>
    <xsd:attribute name="stPos" use="optional" type="a:ST_PositiveFixedPercentage"/>
    <xsd:attribute name="endA" use="optional" type="a:ST_PositiveFixedPercentage"/>
    <xsd:attribute name="endPos" use="optional" type="a:ST_PositiveFixedPercentage"/>
    <xsd:attribute name="dist" use="optional" type="a:ST_PositiveCoordinate"/>
    <xsd:attribute name="dir" use="optional" type="a:ST_PositiveFixedAngle"/>
    <xsd:attribute name="fadeDir" use="optional" type="a:ST_PositiveFixedAngle"/>
    <xsd:attribute name="sx" use="optional" type="a:ST_Percentage"/>
    <xsd:attribute name="sy" use="optional" type="a:ST_Percentage"/>
    <xsd:attribute name="kx" use="optional" type="a:ST_FixedAngle"/>
    <xsd:attribute name="ky" use="optional" type="a:ST_FixedAngle"/>
    <xsd:attribute name="algn" use="optional" type="a:ST_RectAlignment"/>
</xsd:complexType>
```
2.6.3.25  CT_RelativeRect

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by:  CT_PathShadeProperties

A complex type that specifies a rectangle relative to its parent. Each edge of this rectangle is defined by a percentage offset from the corresponding edge of the parent.

Attributes:

l: An optional ST_Percentage as specified in [ISO/IEC29500-4:2016] section 12.1.2.2 and [ISO/IEC29500-1:2016] section 20.1.10.40 that specifies the left edge of the rectangle. Default value for this attribute is 0.

t: An optional ST_Percentage as specified in [ISO/IEC29500-4:2016] section 12.1.2.2 and [ISO/IEC29500-1:2016] section 20.1.10.40 that specifies the top edge of the rectangle. Default value for this attribute is 0.

r: An optional ST_Percentage as specified in [ISO/IEC29500-4:2016] section 12.1.2.2 and [ISO/IEC29500-1:2016] section 20.1.10.40 that specifies the right edge of the rectangle. Default value for this attribute is 0.


The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT_RelativeRect">
  <xsd:attribute name="l" use="optional" type="a:ST_Percentage"/>
  <xsd:attribute name="t" use="optional" type="a:ST_Percentage"/>
  <xsd:attribute name="r" use="optional" type="a:ST_Percentage"/>
  <xsd:attribute name="b" use="optional" type="a:ST_Percentage"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.3.26  CT_Scene3D

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by:  scene3d

A complex type that specifies 3-D scene properties.

Child Elements:

camera: A CT_Camera element that specifies the placement of the camera.
lightRig: A CT_LightRig element that specifies the lighting properties associated with the scene.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_Scene3D">
  <xsd:sequence>
    <xsd:element name="camera" type="CT_Camera"/>
    <xsd:element name="lightRig" type="CT_LightRig"/>
  </xsd:sequence>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.3.27 CT_SchemeColor

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by: CT_Glow, CT_Shadow, CT_SolidColorFillProperties, CT_GradientStop, CT_Color

A complex type that specifies a color bound to the document’s theme (as specified in [ISO/IEC29500-1:2016] section 20.1.6.9), and an optional list of color transforms to apply to the base color.

Child Elements:

tint: A CT_PositiveFixedPercentage element that specifies a lighter version of its input color. 10% tint is 10% of input color combined with 90% white. By default, color does not have tint.

shade: A CT_PositiveFixedPercentage element that specifies darker version of its input color. 10% shade is 10% of input color combined with 90% black. By default, color does not have shade.

alpha: A CT_PositiveFixedPercentage element that specifies its input color with the specific opacity, but with its color unchanged. By default color does not have alpha.

hueMod: A CT_PositivePercentage element that specifies the input color with its hue modulated by the given percentage. A 50% hue modulate decreases the angular hue value by half. A 200% hue modulate doubles the angular hue value. By default, color does not have modulated hue.

sat: A CT_Percentage element that specifies input color with the specified saturation, but with its hue and luminance unchanged. By default, color does not have saturation.

satOff: A CT_Percentage element that specifies the input color with its saturation shifted, but with its hue and luminance unchanged. A 10% offset to 20% saturation yields 30% saturation. By default, color does not have saturation offset.

satMod: A CT_Percentage element that specifies the input color with its saturation modulated by the given percentage. A 50% saturation modulate reduces the saturation by half. A 200% saturation modulate doubles the saturation. By default, color does not have modulated saturation.

lum: A CT_Percentage element that specifies the input color with the specific luminance, but its hue and saturation unchanged. By default, color does not have luminance.

lumOff: A CT_Percentage element that specifies the input color with its luminance shifted, but with its hue and saturation unchanged. A 10% offset to 20% luminance yields 30% luminance. By default, color does not have luminance offset.

lumMod: A CT_Percentage element that specifies the input color with its luminance modulated by the given percentage. A 50% luminance modulate reduces the luminance by half. A 200% luminance modulate doubles the luminance. By default, color does not have modulated luminance.
Attributes:

val: An **ST_SchemeColorVal** attribute that specifies the desired scheme color.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_SchemeColor">
  <xsd:sequence>
    <xsd:group ref="EG_ColorTransform" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="val" type="ST_SchemeColorVal" use="required"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.3.28 CT_SdtCheckbox

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by:** checkbox

A complex type that specifies the properties of a structured document tag (as specified in [ISO/IEC29500-1:2016] section 17.5.2) in the form of a checkbox.

**Child Elements:**

- **checked:** An optional **CT_OnOff** element that specifies whether the checkbox is checked. By default, a checkbox is unchecked.
- **checkedState:** An optional **CT_SdtCheckboxSymbol** element that specifies the symbol used to represent the checked state of the checkbox. By default, the symbol used to represent a checked checkbox is the 0x2612 Unicode character in the "MS Gothic" font.
- **uncheckedState:** An optional **CT_SdtCheckboxSymbol** element that specifies the symbol used to represent the unchecked state of the checkbox. By default, the symbol used to represent an unchecked checkbox is the 0x2610 Unicode character in the "MS Gothic" font.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_SdtCheckbox">
  <xsd:sequence>
    <xsd:element name="checked" type="CT_OnOff" minOccurs="0"/>
    <xsd:element name="checkedState" type="CT_SdtCheckboxSymbol" minOccurs="0"/>
    <xsd:element name="uncheckedState" type="CT_SdtCheckboxSymbol" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.3.29 CT_SdtCheckboxSymbol

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by:** CT_SdtCheckbox

This complex type specifies a symbol to be used for a checkbox state.
Attributes:

- **font**: An optional **ST_String** attribute (as specified in [ISO/IEC29500-1:2016] section 22.9.2.13) that specifies the font that will be used to format this symbol. By default, the font is "MS Gothic"

- **val**: An optional **ST_ShortHexNumber** (as specified in [ISO/IEC29500-1:2016] section 17.18.79) attribute that specifies the hexadecimal code for the **Unicode** character value of the symbol. By default, the value is "0x2612" for checked states and "0x2610" for unchecked states.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_SdtCheckboxSymbol">  
  <xsd:attribute name="font" type="w:ST_String"/>  
  <xsd:attribute name="val" type="w:ST_ShortHexNumber"/>  
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.3.30 CT_Shadow

**Target namespace**: http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by**: shadow

A complex type that specifies the shadow effect.

**Child Elements**:

- **srgbClr**: A **CT_SRgbColor** element that specifies the color in the RGB color model.

- **schemeClr**: A **CT_SchemeColor** element that specifies a color from a theme. Color changes if theme bindings change.

**Attributes**:

- **blurRad**: An optional **ST_PositiveCoordinate** (as specified in [ISO/IEC29500-1:2016] section 20.1.10.42) attribute that specifies the blur radius of the shadow. This attribute MAY be limited further in the application. The default value for this attribute is 0.

- **dist**: An optional **ST_PositiveCoordinate** (as specified in [ISO/IEC29500-1:2016] section 20.1.10.42) attribute that specifies how far to offset the shadow. This attribute MAY be limited further in the application. The default value for this attribute is 0.

- **dir**: An optional **ST_PositiveFixedAngle** (as specified in [ISO/IEC29500-1:2016] section 20.1.10.44) attribute that specifies the direction to offset the shadow. The default value for this attribute is 0.

- **sx**: An optional **ST_Percentage** (as specified in [ISO/IEC29500-4:2016] section 12.1.2.2 and [ISO/IEC29500-1:2016] section 20.1.10.40) that specifies the horizontal scaling factor. Negative scaling causes a flip. The default value for this attribute is 0.

- **sy**: An optional **ST_Percentage** (as specified in [ISO/IEC29500-4:2016] section 12.1.2.2 and [ISO/IEC29500-1:2016] section 20.1.10.40) that specifies the vertical scaling factor. Negative scaling causes a flip. The default value for this attribute is 0.

- **kx**: An optional **ST_FixedAngle** (as specified in [ISO/IEC29500-1:2016] section 20.1.10.23) attribute that specifies the horizontal skew angle. The default value for this attribute is 0.

- **ky**: An optional **ST_FixedAngle** (as specified in [ISO/IEC29500-1:2016] section 20.1.10.23) attribute that specifies the vertical skew angle. The default value for this attribute is 0.
**algn:** An optional `ST_RectAlignment` attribute that specifies the alignment of the shadow. The default value for this attribute is "none".

The following W3C XML Schema ([XMSCHHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_Shadow">
  <xsd:sequence>
    <xsd:group ref="EG_ColorChoice"/>
  </xsd:sequence>
  <xsd:attribute name="blurRad" use="optional" type="a:ST_PositiveCoordinate"/>
  <xsd:attribute name="dist" use="optional" type="a:ST_PositiveCoordinate"/>
  <xsd:attribute name="dir" use="optional" type="a:ST_PositiveFixedAngle"/>
  <xsd:attribute name="sx" use="optional" type="a:ST_Percentage"/>
  <xsd:attribute name="sy" use="optional" type="a:ST_Percentage"/>
  <xsd:attribute name="kx" use="optional" type="a:ST_FixedAngle"/>
  <xsd:attribute name="ky" use="optional" type="a:ST_FixedAngle"/>
  <xsd:attribute name="algn" use="optional" type="ST_RectAlignment"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMSCHHEMA1/2] section 2.1).

### 2.6.3.31 CT_SolidColorFillProperties

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by:** [CT_TextOutlineEffect](#), [CT_FillTextEffect](#)

A complex type that specifies a solid color fill. If this element has no child elements, black is used as a default.

**Child Elements:**

- **srgbClr:** A `CT_SRgbColor` element that specifies the color in the RGB color model.
- **schemeClr:** A `CT_SchemeColor` element that specifies a color from a theme. Color changes if theme bindings change.

The following W3C XML Schema ([XMSCHHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_SolidColorFillProperties">
  <xsd:sequence>
    <xsd:group ref="EG_ColorChoice" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMSCHHEMA1/2] section 2.1).

### 2.6.3.32 CT_SphereCoords

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by:** [CT_LightRig](#)

A complex type that specifies sphere coordinates using a latitude coordinate, a longitude coordinate, and a revolution around the central axis.

**Attributes:**
lat: An **ST_PositiveFixedAngle** (as specified in [ISO/IEC29500-1:2016] section 20.1.10.44) attribute that specifies the latitude.


The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_SphereCoords">
  <xsd:attribute name="lat" type="a:ST_PositiveFixedAngle" use="required"/>
  <xsd:attribute name="lon" type="a:ST_PositiveFixedAngle" use="required"/>
  <xsd:attribute name="rev" type="a:ST_PositiveFixedAngle" use="required"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.3.33 **CT_SRgbColor**

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by:** CT_Glow, CT_Shadow, CT_SolidColorFillProperties, CT_GradientStop, CT_Color

A complex type that specifies a color using the RGB color model. Red, green, and blue are expressed as a sequence of hex digits, RRGGBB. This type optionally specifies a list of color transforms applied to the base color.

**Child Elements:**

- **tint:** A **CT_PositiveFixedPercentage** element that specifies a lighter version of its input color. 10% tint is 10% of input color combined with 90% white. By default, color does not have tint.

- **shade:** A **CT_PositiveFixedPercentage** element that specifies darker version of its input color. 10% shade is 10% of input color combined with 90% black. By default, color does not have shade.

- **alpha:** A **CT_PositiveFixedPercentage** element that specifies its input color with the specific opacity, but with its color unchanged. By default color does not have alpha.

- **hueMod:** A **CT_PositivePercentage** element that specifies the input color with its hue modulated by the given percentage. A 50% hue modulate decreases the angular hue value by half. A 200% hue modulate doubles the angular hue value. By default, color does not have modulated hue.

- **sat:** A **CT_Percentage** element that specifies input color with the specified saturation, but with its hue and luminance unchanged. By default, color does not have saturation.

- **satOff:** A **CT_Percentage** element that specifies the input color with its saturation shifted, but with its hue and luminance unchanged. A 10% offset to 20% saturation yields 30% saturation. By default, color does not have saturation offset.

- **satMod:** A **CT_Percentage** element that specifies the input color with its saturation modulated by the given percentage. A 50% saturation modulate reduces the saturation by half. A 200% saturation modulate doubles the saturation. By default, color does not have modulated saturation.

- **lum:** A **CT_Percentage** element that specifies the input color with the specific luminance, but its hue and saturation unchanged. By default, color does not have luminance.
**lumOff:** A CT_Percentage element that specifies the input color with its luminance shifted, but with its hue and saturation unchanged. A 10% offset to 20% luminance yields 30% luminance. By default, color does not have luminance offset.

**lumMod:** A CT_Percentage element that specifies the input color with its luminance modulated by the given percentage. A 50% luminance modulate reduces the luminance by half. A 200% luminance modulate doubles the luminance. By default, color does not have modulated luminance.

**Attributes:**

**val:** An ST_HexColorRGB (as specified in [ISO/IEC29500-1:2016] section 22.9.2.5) attribute that specifies color in the RGB color model. Red, green, and blue are expressed in hex digits, RRGGBB.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT_SRgbColor">
  <xsd:sequence>
    <xsd:group ref="EG_ColorTransform" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="val" type="w:ST_HexColorRGB" use="required"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.3.34 **CT_StyleSet**

*Target namespace:* http://schemas.microsoft.com/office/word/2010/wordml

*Referenced by:* CT_StylisticSets

A complex type that specifies a reference to a set of character forms defined within the font to be used as a stylistic set. For more information about stylistic sets, see [ISO/IEC-14496-22].

**Attributes:**

**id:** An ST_UnsignedDecimalNumber attribute (see [ISO/IEC29500-1:2016] section 22.9.2.16) that specifies the stylistic set that this element represents. MUST be greater than or equal to 1 and less than or equal to 20.

**val:** An optional ST_OnOff attribute that specifies if the stylistic set specified by id is enabled. If set to "false", this element MUST be ignored. By default, the stylistic set specified by id is enabled.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT_StyleSet">
  <xsd:attribute name="id" type="w:ST_UnsignedDecimalNumber" use="required"/>  
  <xsd:attribute name="val" type="ST_OnOff" use="optional"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.3.35 **CT_StylisticSets**

*Target namespace:* http://schemas.microsoft.com/office/word/2010/wordml

*Referenced by:* stylisticSets
A complex type that specifies a list of sets of character forms defined within the font, with each serving as a stylistic set. For more information about stylistic sets, see [ISO/IEC-14496-22]. This element can have any number of styleSet child elements.

Child Elements:

**styleSet**: A **CT_StyleSet** element that specifies a stylistic set.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_StylisticSets">
  <xsd:sequence minOccurs="0">
    <xsd:element name="styleSet" minOccurs="0" maxOccurs="unbounded" type="CT_StyleSet"/>
  </xsd:sequence>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.3.36 **CT_TextOutlineEffect**

*Target namespace:* http://schemas.microsoft.com/office/word/2010/wordml

*Referenced by:* textOutline

A complex type that specifies the outline style that can be applied to text. When this element is empty, **bevel** is used as default.

Child Elements:

**nofill**: A **CT_Empty** (as specified in [ISO/IEC29500-1:2016] section A.1) element that specifies that no fill is applied to text.

**solidfill**: A **CT_SolidColorFillProperties** element that specifies a solid color fill. The text is filled entirely with the specified color.

**gradfill**: A **CT_GradientFillProperties** element that specifies the gradient fill. A gradient fill is a fill that is characterized by a smooth gradual transition from one color to the next.

**prstDash**: A **CT_PresetLineDashProperties** element that specifies the type of line dashing scheme to use. By default, a solid line is used.

**round**: A **CT_Empty** (as specified in [ISO/IEC29500-1:2016] section A.1) element that specifies that lines are connected by round joints.

**bevel**: A **CT_Empty** (as specified in [ISO/IEC29500-1:2016] section A.1) element that specifies that lines are connected by angle joints.

**miter**: A **CT_LineJoinMiterProperties** element that specifies that the line joins are mitered.

Attributes:

**w**: An optional **ST_LineWidth** (as specified in [ISO/IEC29500-1:2016] section 20.1.10.35) attribute that specifies the width of the outline. By default, the outline has no width.

**cap**: An optional **ST_LineCap** attribute that specifies the ending caps for the lines. By default, lines end at endpoint.

**cmpd**: An optional **ST_CompoundLine** attribute that specifies the compound line type to be used. Normal width single line is used by default.
**align**: An optional **ST_PenAlignment** attribute that specifies the alignment. Center pen alignment is used by default.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_TextOutlineEffect">
  <xsd:sequence>
    <xsd:group ref="EG_FillProperties" minOccurs="0"/>
    <xsd:group ref="EG_LineDashProperties" minOccurs="0"/>
    <xsd:group ref="EG_LineJoinProperties" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="w" use="optional" type="a:ST_LineWidth"/>
  <xsd:attribute name="cap" use="optional" type="ST_LineCap"/>
  <xsd:attribute name="cmpd" use="optional" type="ST_CompoundLine"/>
  <xsd:attribute name="align" use="optional" type="ST_PenAlignment"/>
</xsd:complexType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.4 Simple Types

#### 2.6.4.1 **ST_BevelPresetType**

**Target namespace**: http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by**: **CT_Bevel**

A simple type that specifies the preset for a type of bevel. The bevel properties are applied differently depending on the type of bevel defined.

Possible values for this type are listed in the following table. See [ISO/IEC29500-1:2016] section 20.1.10.9 for details regarding the meaning of the listed values.

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>relaxedInset</td>
<td>Relaxed Inset type of bevel.</td>
</tr>
<tr>
<td>circle</td>
<td>Circle type of bevel.</td>
</tr>
<tr>
<td>slope</td>
<td>Slope type of bevel.</td>
</tr>
<tr>
<td>cross</td>
<td>Cross type of bevel.</td>
</tr>
<tr>
<td>angle</td>
<td>Angle type of bevel.</td>
</tr>
<tr>
<td>softRound</td>
<td>Soft Round type of bevel.</td>
</tr>
<tr>
<td>convex</td>
<td>Convex type of bevel.</td>
</tr>
<tr>
<td>coolSlant</td>
<td>Cool Slant type of bevel.</td>
</tr>
<tr>
<td>divot</td>
<td>Divot type of bevel.</td>
</tr>
<tr>
<td>riblet</td>
<td>Riblet type of bevel.</td>
</tr>
<tr>
<td>hardEdge</td>
<td>Hard Edge type of bevel.</td>
</tr>
<tr>
<td>artDeco</td>
<td>Art Deco type of bevel.</td>
</tr>
</tbody>
</table>
The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this simple type.

```xml
<xsd:simpleType name="ST_BevelPresetType">
    <xsd:restriction base="xsd:token">
        <xsd:enumeration value="relaxedInset"/>
        <xsd:enumeration value="circle"/>
        <xsd:enumeration value="slope"/>
        <xsd:enumeration value="cross"/>
        <xsd:enumeration value="angle"/>
        <xsd:enumeration value="softRound"/>
        <xsd:enumeration value="convex"/>
        <xsd:enumeration value="coolSlant"/>
        <xsd:enumeration value="divot"/>
        <xsd:enumeration value="riblet"/>
        <xsd:enumeration value="hardEdge"/>
        <xsd:enumeration value="artDeco"/>
    </xsd:restriction>
</xsd:simpleType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.4.2 ST_CompoundLine

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by:** [CT_TextOutlineEffect](#)

A simple type that specifies the compound line type.

Possible values for this type are listed in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>sng</code></td>
<td>Single line: one normal width.</td>
</tr>
<tr>
<td><code>dbl</code></td>
<td>Double lines of equal width.</td>
</tr>
<tr>
<td><code>thickThin</code></td>
<td>Double lines: one thick, one thin.</td>
</tr>
<tr>
<td><code>thinThick</code></td>
<td>Double lines: one thin, one thick.</td>
</tr>
<tr>
<td><code>tri</code></td>
<td>Three lines: thin, thick, thin.</td>
</tr>
</tbody>
</table>

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this simple type.

```xml
<xsd:simpleType name="ST_CompoundLine">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="sng"/>
        <xsd:enumeration value="dbl"/>
        <xsd:enumeration value="thickThin"/>
        <xsd:enumeration value="thinThick"/>
        <xsd:enumeration value="tri"/>
    </xsd:restriction>
</xsd:simpleType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).
2.6.4.3 ST_Ligatures

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by: CT_Ligatures

A simple type that specifies which types of ligatures are enabled for this run of text. For more information about ligatures, see [ISO/IEC-14496-22].

Possible values for this type are listed in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>none</td>
<td>Specifies that the text is not displayed using ligatures.</td>
</tr>
<tr>
<td>standard</td>
<td>Specifies that the text is displayed using standard ligatures if they are supported by the font.</td>
</tr>
<tr>
<td>contextual</td>
<td>Specifies that the text is displayed using contextual ligatures if they are supported by the font.</td>
</tr>
<tr>
<td>historical</td>
<td>Specifies that the text is displayed using historical ligatures if they are supported by the font.</td>
</tr>
<tr>
<td>discretional</td>
<td>Specifies that the text is displayed using discretional ligatures if they are supported by the font.</td>
</tr>
<tr>
<td>standardContextual</td>
<td>Specifies that the text is displayed using standard and contextual ligatures if they are supported by the font.</td>
</tr>
<tr>
<td>standardHistorical</td>
<td>Specifies that the text is displayed using standard and historical ligatures if they are supported by the font.</td>
</tr>
<tr>
<td>contextualHistorical</td>
<td>Specifies that the text is displayed using contextual and historical ligatures if they are supported by the font.</td>
</tr>
<tr>
<td>standardDiscretional</td>
<td>Specifies that the text is displayed using standard and discretional ligatures if they are supported by the font.</td>
</tr>
<tr>
<td>contextualDiscretional</td>
<td>Specifies that the text is displayed using contextual and discretional ligatures if they are supported by the font.</td>
</tr>
<tr>
<td>historicalDiscretional</td>
<td>Specifies that the text is displayed using historical and discretional ligatures if they are supported by the font.</td>
</tr>
<tr>
<td>standardContextualHistorical</td>
<td>Specifies that the text is displayed using standard, contextual, and historical ligatures if they are supported by the font.</td>
</tr>
<tr>
<td>standardContextualDiscretional</td>
<td>Specifies that the text is displayed using standard, contextual, and discretional ligatures if they are supported by the font.</td>
</tr>
<tr>
<td>standardHistoricalDiscretional</td>
<td>Specifies that the text is displayed using standard, historical, and discretional ligatures if they are supported by the font.</td>
</tr>
<tr>
<td>contextualHistoricalDiscretional</td>
<td>Specifies that the text is displayed using contextual, historical, and discretional ligatures if they are supported by the font.</td>
</tr>
<tr>
<td>all</td>
<td>Specifies that the text is displayed using standard, historical, discretional, and contextual ligatures if they are supported by the font.</td>
</tr>
</tbody>
</table>

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this simple type.
<xsd:simpleType name="ST_Ligatures">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="none"/>
    <xsd:enumeration value="standard"/>
    <xsd:enumeration value="contextual"/>
    <xsd:enumeration value="historical"/>
    <xsd:enumeration value="discretional"/>
    <xsd:enumeration value="standardContextual"/>
    <xsd:enumeration value="standardHistorical"/>
    <xsd:enumeration value="contextualHistorical"/>
    <xsd:enumeration value="standardDiscretional"/>
    <xsd:enumeration value="contextualDiscretional"/>
    <xsd:enumeration value="historicalDiscretional"/>
    <xsd:enumeration value="standardContextualHistorical"/>
    <xsd:enumeration value="standardContextualDiscretional"/>
    <xsd:enumeration value="standardHistoricalDiscretional"/>
    <xsd:enumeration value="contextualHistoricalDiscretional"/>
    <xsd:enumeration value="all"/>
  </xsd:restriction>
</xsd:simpleType>

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.4.4 ST_LightRigDirection

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by: CT_LightRig

A simple type that specifies the direction from which the light rig is positioned relative to the scene. The light rig itself can be made up of multiple lights in any orientation around the shape. This simple type specifies the orientation of the light rig as a whole, and not the individual lights within the rig. This means, for example, that if the direction of the light rig is specified as left, this does not guarantee the light is coming from the left side of the shape; rather, the orientation of the rig as a whole is rotated to the left.

Possible values for this type are listed in the following table. See [ISO/IEC29500-1:2016] section 20.1.10.29 for further details regarding the meaning of the listed values.

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>tl</td>
<td>Top Left: Light rig is positioned at the top-left of the scene.</td>
</tr>
<tr>
<td>t</td>
<td>Top: Light rig is positioned at the top of the scene.</td>
</tr>
<tr>
<td>tr</td>
<td>Top Right: Light rig is positioned at the top-right of the scene.</td>
</tr>
<tr>
<td>l</td>
<td>Left: Light rig is positioned to the left of the scene.</td>
</tr>
<tr>
<td>r</td>
<td>Right: Light rig is positioned to the right of the scene.</td>
</tr>
<tr>
<td>bl</td>
<td>Bottom Left: Light rig is positioned at the bottom left of the scene.</td>
</tr>
<tr>
<td>b</td>
<td>Bottom: Light rig is positioned at the bottom of the scene.</td>
</tr>
<tr>
<td>br</td>
<td>Bottom Right: Light rig is positioned at the bottom right of the scene.</td>
</tr>
</tbody>
</table>

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this simple type.
<xsd:simpleType name="ST_LightRigDirection">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="tl"/>
    <xsd:enumeration value="t"/>
    <xsd:enumeration value="tr"/>
    <xsd:enumeration value="l"/>
    <xsd:enumeration value="r"/>
    <xsd:enumeration value="bl"/>
    <xsd:enumeration value="b"/>
    <xsd:enumeration value="br"/>
  </xsd:restriction>
</xsd:simpleType>

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.4.5 ST_LightRigType

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by: CT_LightRig

A simple type that specifies a light rig preset to use. A light rig represents a group of lights oriented in a specific way relative to a 3-D scene.

Possible values for this type are listed in the following table. See [ISO/IEC29500-1:2016] section 20.1.10.30 for details regarding the meaning of the listed values.

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>legacyFlat1</td>
<td>Legacy Flat 1.</td>
</tr>
<tr>
<td>legacyFlat2</td>
<td>Legacy Flat 2.</td>
</tr>
<tr>
<td>legacyFlat3</td>
<td>Legacy Flat 3.</td>
</tr>
<tr>
<td>legacyFlat4</td>
<td>Legacy Flat 4.</td>
</tr>
<tr>
<td>legacyNormal1</td>
<td>Legacy Normal 1.</td>
</tr>
<tr>
<td>legacyNormal2</td>
<td>Legacy Normal 2.</td>
</tr>
<tr>
<td>legacyNormal3</td>
<td>Legacy Normal 3.</td>
</tr>
<tr>
<td>legacyNormal4</td>
<td>Legacy Normal 4.</td>
</tr>
<tr>
<td>legacyHarsh1</td>
<td>Legacy Harsh 1.</td>
</tr>
<tr>
<td>legacyHarsh2</td>
<td>Legacy Harsh 2.</td>
</tr>
<tr>
<td>legacyHarsh3</td>
<td>Legacy Harsh 3.</td>
</tr>
<tr>
<td>legacyHarsh4</td>
<td>Legacy Harsh 4.</td>
</tr>
<tr>
<td>threePt</td>
<td>Three Point.</td>
</tr>
<tr>
<td>balanced</td>
<td>Balanced.</td>
</tr>
<tr>
<td>soft</td>
<td>Soft.</td>
</tr>
<tr>
<td>harsh</td>
<td>Harsh.</td>
</tr>
<tr>
<td>flood</td>
<td>Flood.</td>
</tr>
<tr>
<td>Value</td>
<td>Meaning</td>
</tr>
<tr>
<td>-----------</td>
<td>---------------</td>
</tr>
<tr>
<td>contrasting</td>
<td>Contrasting.</td>
</tr>
<tr>
<td>morning</td>
<td>Morning.</td>
</tr>
<tr>
<td>sunrise</td>
<td>Sunrise.</td>
</tr>
<tr>
<td>sunset</td>
<td>Sunset.</td>
</tr>
<tr>
<td>chilly</td>
<td>Chilly.</td>
</tr>
<tr>
<td>freezing</td>
<td>Freezing.</td>
</tr>
<tr>
<td>flat</td>
<td>Flat.</td>
</tr>
<tr>
<td>twoPt</td>
<td>Two Point.</td>
</tr>
<tr>
<td>glow</td>
<td>Glow.</td>
</tr>
<tr>
<td>brightRoom</td>
<td>Bright Room.</td>
</tr>
</tbody>
</table>

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this simple type.

```xml
<xsd:simpleType name="ST_LightRigType">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="legacyFlat1"/>
    <xsd:enumeration value="legacyFlat2"/>
    <xsd:enumeration value="legacyFlat3"/>
    <xsd:enumeration value="legacyFlat4"/>
    <xsd:enumeration value="legacyNormal1"/>
    <xsd:enumeration value="legacyNormal2"/>
    <xsd:enumeration value="legacyNormal3"/>
    <xsd:enumeration value="legacyNormal4"/>
    <xsd:enumeration value="legacyHarsh1"/>
    <xsd:enumeration value="legacyHarsh2"/>
    <xsd:enumeration value="legacyHarsh3"/>
    <xsd:enumeration value="legacyHarsh4"/>
    <xsd:enumeration value="threePt"/>
    <xsd:enumeration value="balanced"/>
    <xsd:enumeration value="soft"/>
    <xsd:enumeration value="harsh"/>
    <xsd:enumeration value="flood"/>
    <xsd:enumeration value="contrasting"/>
    <xsd:enumeration value="morning"/>
    <xsd:enumeration value="sunrise"/>
    <xsd:enumeration value="sunset"/>
    <xsd:enumeration value="chilly"/>
    <xsd:enumeration value="freezing"/>
    <xsd:enumeration value="flat"/>
    <xsd:enumeration value="twoPt"/>
    <xsd:enumeration value="glow"/>
    <xsd:enumeration value="brightRoom"/>
  </xsd:restriction>
</xsd:simpleType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).
2.6.4.6 ST_LineCap

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by: CT_TextOutlineEffect

A simple type that specifies how to cap the ends of lines.

Possible values for this type are listed in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>rnd</td>
<td>Rounded ends. Semi-circle protrudes by half line width.</td>
</tr>
<tr>
<td>sq</td>
<td>Square protrudes by half line width.</td>
</tr>
<tr>
<td>flat</td>
<td>Line ends at endpoint.</td>
</tr>
</tbody>
</table>

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this simple type.

```xml
<xsd:simpleType name="ST_LineCap">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="rnd"/>
        <xsd:enumeration value="sq"/>
        <xsd:enumeration value="flat"/>
    </xsd:restriction>
</xsd:simpleType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.4.7 ST_NumForm

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by: CT_NumForm

A simple type that specifies the form in which to display numerals. Possible values for this type are listed in the following table. For more information about numeral forms, see [ISO/IEC-14496-22].

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>default</td>
<td>Numerals are displayed in the font's default form.</td>
</tr>
<tr>
<td>lining</td>
<td>Lining numerals are displayed if the font supports them.</td>
</tr>
<tr>
<td>oldStyle</td>
<td>Oldstyle numerals are displayed if the font supports them.</td>
</tr>
</tbody>
</table>

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this simple type.

```xml
<xsd:simpleType name="ST_NumForm">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="default"/>
        <xsd:enumeration value="lining"/>
        <xsd:enumeration value="oldStyle"/>
    </xsd:restriction>
</xsd:simpleType>
```
See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.4.8 ST_NumSpacing

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by: CT_NumSpacing

A simple type that specifies the form in which to display numeral spacing.

Possible values for this type are listed in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>default</td>
<td>Specifies that numerals are displayed in the font’s default form.</td>
</tr>
<tr>
<td>proportional</td>
<td>Specifies that the forms of the numerals designed as proportionally spaced are displayed if supported by the font.</td>
</tr>
<tr>
<td>tabular</td>
<td>Specifies that the forms of the numerals designed as tabular are displayed if supported by the font.</td>
</tr>
</tbody>
</table>

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this simple type.

```xml
<xsd:simpleType name="ST_NumSpacing">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="default"/>
    <xsd:enumeration value="proportional"/>
    <xsd:enumeration value="tabular"/>
  </xsd:restriction>
</xsd:simpleType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.4.9 ST_OnOff

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by: CT_LinearShadeProperties, CT_StyleSet, CT_OnOff

A simple type that specifies a value for a binary (true or false) property.

Possible values for this type are listed in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>true</td>
<td>Specifies the value is true.</td>
</tr>
<tr>
<td>false</td>
<td>Specifies the value is false.</td>
</tr>
<tr>
<td>0</td>
<td>Specifies the value is false.</td>
</tr>
<tr>
<td>1</td>
<td>Specifies the value is true.</td>
</tr>
</tbody>
</table>
The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this simple type.

```xml
<xsd:simpleType name="ST_OnOff">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="true"/>
    <xsd:enumeration value="false"/>
    <xsd:enumeration value="0"/>
    <xsd:enumeration value="1"/>
  </xsd:restriction>
</xsd:simpleType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.4.10 ST_PathShadeType

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by:** CT_PathShadeProperties

A simple type that specifies the shape to follow for a path gradient shade.

Possible values for this type are listed in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>shape</td>
<td>Gradient follows a shape path.</td>
</tr>
<tr>
<td>circle</td>
<td>Gradient follows a circular path.</td>
</tr>
<tr>
<td>rect</td>
<td>Gradient follows a rectangular path.</td>
</tr>
</tbody>
</table>

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this simple type.

```xml
<xsd:simpleType name="ST_PathShadeType">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="shape"/>
    <xsd:enumeration value="circle"/>
    <xsd:enumeration value="rect"/>
  </xsd:restriction>
</xsd:simpleType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.4.11 ST_PenAlignment

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by:** CT_TextOutlineEffect

A simple type that specifies the pen alignment type to be used.

Possible values for this type are listed in the following table.
<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>ctr</td>
<td>Center pen. The line is drawn at the center of the path stroke.</td>
</tr>
<tr>
<td>in</td>
<td>Inset pen. The pen is aligned along the inside of the path.</td>
</tr>
</tbody>
</table>

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this simple type.

```xml
<xsd:simpleType name="ST_PenAlignment">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="ctr"/>
    <xsd:enumeration value="in"/>
  </xsd:restriction>
</xsd:simpleType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.4.12 ST_PresetCameraType

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by:** CT_Camera

A simple type that specifies an algorithmic method for setting camera properties.

Possible values for this type are listed in the following table. See [ISO/IEC29500-1:2016] section 20.1.10.47 for details regarding the meaning of the listed values.

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>legacyObliqueTopLeft</td>
<td>Legacy Oblique Top Left.</td>
</tr>
<tr>
<td>legacyObliqueTop</td>
<td>Legacy Oblique Top.</td>
</tr>
<tr>
<td>legacyObliqueTopRight</td>
<td>Legacy Oblique Top Right.</td>
</tr>
<tr>
<td>legacyObliqueLeft</td>
<td>Legacy Oblique Left.</td>
</tr>
<tr>
<td>legacyObliqueFront</td>
<td>Legacy Oblique Front.</td>
</tr>
<tr>
<td>legacyObliqueRight</td>
<td>Legacy Oblique Right.</td>
</tr>
<tr>
<td>legacyObliqueBottomLeft</td>
<td>Legacy Oblique Bottom Left.</td>
</tr>
<tr>
<td>legacyObliqueBottom</td>
<td>Legacy Oblique Bottom.</td>
</tr>
<tr>
<td>legacyObliqueBottomRight</td>
<td>Legacy Oblique Bottom Right.</td>
</tr>
<tr>
<td>legacyPerspectiveTopLeft</td>
<td>Legacy Perspective Top Left.</td>
</tr>
<tr>
<td>legacyPerspectiveTop</td>
<td>Legacy Perspective Top.</td>
</tr>
<tr>
<td>legacyPerspectiveTopRight</td>
<td>Legacy Perspective Top Right.</td>
</tr>
<tr>
<td>legacyPerspectiveLeft</td>
<td>Legacy Perspective Left.</td>
</tr>
<tr>
<td>legacyPerspectiveFront</td>
<td>Legacy Perspective Front.</td>
</tr>
<tr>
<td>Value</td>
<td>Meaning</td>
</tr>
<tr>
<td>------------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>legacyPerspectiveRight</td>
<td>Legacy Perspective Right.</td>
</tr>
<tr>
<td>legacyPerspectiveBottomLeft</td>
<td>Legacy Perspective Bottom Left.</td>
</tr>
<tr>
<td>legacyPerspectiveBottom</td>
<td>Legacy Perspective Bottom.</td>
</tr>
<tr>
<td>legacyPerspectiveBottomRight</td>
<td>Legacy Perspective Bottom Right.</td>
</tr>
<tr>
<td>orthographicFront</td>
<td>Orthographic Front.</td>
</tr>
<tr>
<td>isometricTopUp</td>
<td>Isometric Top Up.</td>
</tr>
<tr>
<td>isometricTopDown</td>
<td>Isometric Top Down.</td>
</tr>
<tr>
<td>isometricBottomUp</td>
<td>Isometric Bottom Up.</td>
</tr>
<tr>
<td>isometricBottomDown</td>
<td>Isometric Bottom Down.</td>
</tr>
<tr>
<td>isometricLeftUp</td>
<td>Isometric Left Up.</td>
</tr>
<tr>
<td>isometricLeftDown</td>
<td>Isometric Left Down.</td>
</tr>
<tr>
<td>isometricRightUp</td>
<td>Isometric Right Up.</td>
</tr>
<tr>
<td>isometricRightDown</td>
<td>Isometric Right Down.</td>
</tr>
<tr>
<td>isometricOffAxis1Left</td>
<td>Isometric Off Axis 1 Left.</td>
</tr>
<tr>
<td>isometricOffAxis1Right</td>
<td>Isometric Off Axis 1 Right.</td>
</tr>
<tr>
<td>isometricOffAxis1Top</td>
<td>Isometric Off Axis 1 Top.</td>
</tr>
<tr>
<td>isometricOffAxis2Left</td>
<td>Isometric Off Axis 2 Left.</td>
</tr>
<tr>
<td>isometricOffAxis2Right</td>
<td>Isometric Off Axis 2 Right.</td>
</tr>
<tr>
<td>isometricOffAxis2Top</td>
<td>Isometric Off Axis 2 Top.</td>
</tr>
<tr>
<td>isometricOffAxis3Left</td>
<td>Isometric Off Axis 3 Left.</td>
</tr>
<tr>
<td>isometricOffAxis3Right</td>
<td>Isometric Off Axis 3 Right.</td>
</tr>
<tr>
<td>isometricOffAxis3Bottom</td>
<td>Isometric Off Axis 3 Bottom.</td>
</tr>
<tr>
<td>isometricOffAxis4Left</td>
<td>Isometric Off Axis 4 Left.</td>
</tr>
<tr>
<td>isometricOffAxis4Right</td>
<td>Isometric Off Axis 4 Right.</td>
</tr>
<tr>
<td>isometricOffAxis4Bottom</td>
<td>Isometric Off Axis 4 Bottom.</td>
</tr>
<tr>
<td>obliqueTopLeft</td>
<td>Oblique Top Left.</td>
</tr>
<tr>
<td>obliqueTop</td>
<td>Oblique Top.</td>
</tr>
<tr>
<td>obliqueTopRight</td>
<td>Oblique Top Right.</td>
</tr>
<tr>
<td>obliqueLeft</td>
<td>Oblique Left.</td>
</tr>
<tr>
<td>obliqueRight</td>
<td>Oblique Right.</td>
</tr>
<tr>
<td>obliqueBottomLeft</td>
<td>Oblique Bottom Left.</td>
</tr>
<tr>
<td>obliqueBottom</td>
<td>Oblique Bottom.</td>
</tr>
<tr>
<td>Value</td>
<td>Meaning</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>obliqueBottomRight</td>
<td>Oblique Bottom Right.</td>
</tr>
<tr>
<td>perspectiveFront</td>
<td>Perspective Front.</td>
</tr>
<tr>
<td>perspectiveLeft</td>
<td>Perspective Left.</td>
</tr>
<tr>
<td>perspectiveRight</td>
<td>Perspective Right.</td>
</tr>
<tr>
<td>perspectiveAbove</td>
<td>Perspective Above.</td>
</tr>
<tr>
<td>perspectiveBelow</td>
<td>Perspective Below.</td>
</tr>
<tr>
<td>perspectiveAboveLeftFacing</td>
<td>Perspective Above Left Facing.</td>
</tr>
<tr>
<td>perspectiveAboveRightFacing</td>
<td>Perspective Above Right Facing.</td>
</tr>
<tr>
<td>perspectiveContrastingLeftFacing</td>
<td>Perspective Contrasting Left Facing.</td>
</tr>
<tr>
<td>perspectiveContrastingRightFacing</td>
<td>Perspective Contrasting Right Facing.</td>
</tr>
<tr>
<td>perspectiveHeroicLeftFacing</td>
<td>Perspective Heroic Left Facing.</td>
</tr>
<tr>
<td>perspectiveHeroicRightFacing</td>
<td>Perspective Heroic Right Facing.</td>
</tr>
<tr>
<td>perspectiveHeroicExtremeLeftFacing</td>
<td>Perspective Heroic Extreme Left Facing.</td>
</tr>
<tr>
<td>perspectiveHeroicExtremeRightFacing</td>
<td>Perspective Heroic Extreme Right Facing.</td>
</tr>
<tr>
<td>perspectiveRelaxed</td>
<td>Perspective Relaxed.</td>
</tr>
<tr>
<td>perspectiveRelaxedModerately</td>
<td>Perspective Relaxed Moderately.</td>
</tr>
</tbody>
</table>

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this simple type.

```xml
<xsd:simpleType name="ST_PresetCameraType">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="legacyObliqueTopLeft"/>
    <xsd:enumeration value="legacyObliqueTopRight"/>
    <xsd:enumeration value="legacyObliqueLeft"/>
    <xsd:enumeration value="legacyObliqueFront"/>
    <xsd:enumeration value="legacyObliqueRight"/>
    <xsd:enumeration value="legacyObliqueBottomLeft"/>
    <xsd:enumeration value="legacyObliqueBottom"/>
    <xsd:enumeration value="legacyObliqueBottomRight"/>
    <xsd:enumeration value="legacyPerspectiveTopLeft"/>
    <xsd:enumeration value="legacyPerspectiveTop"/>
    <xsd:enumeration value="legacyPerspectiveTopRight"/>
    <xsd:enumeration value="legacyPerspectiveLeft"/>
    <xsd:enumeration value="legacyPerspectiveFront"/>
    <xsd:enumeration value="legacyPerspectiveRight"/>
    <xsd:enumeration value="legacyPerspectiveBottomLeft"/>
    <xsd:enumeration value="legacyPerspectiveBottom"/>
    <xsd:enumeration value="legacyPerspectiveBottomRight"/>
    <xsd:enumeration value="orthographicFront"/>
    <xsd:enumeration value="isometricTopUp"/>
    <xsd:enumeration value="isometricTopDown"/>
    <xsd:enumeration value="isometricBottomUp"/>
    <xsd:enumeration value="isometricBottomDown"/>
    <xsd:enumeration value="isometricLeftUp"/>
    <xsd:enumeration value="isometricLeftDown"/>
  </xsd:restriction>
</xsd:simpleType>
```
See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.4.13 **ST_PresetLineDashVal**

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by: [CT_PresetLineDashProperties](#)

A simple type that specifies preset line dash value.

Possible values for this type are listed in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>solid</td>
<td>-</td>
</tr>
<tr>
<td>dot</td>
<td>•</td>
</tr>
<tr>
<td>sysDot</td>
<td>**********</td>
</tr>
<tr>
<td>dash</td>
<td>---</td>
</tr>
<tr>
<td>sysDash</td>
<td>---------</td>
</tr>
</tbody>
</table>
The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this simple type.

```xml
<xsd:simpleType name="ST_PresetLineDashVal">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="solid"/>
    <xsd:enumeration value="dot"/>
    <xsd:enumeration value="sysDot"/>
    <xsd:enumeration value="dash"/>
    <xsd:enumeration value="sysDash"/>
    <xsd:enumeration value="lgDash"/>
    <xsd:enumeration value="dashDot"/>
    <xsd:enumeration value="sysDashDot"/>
    <xsd:enumeration value="lgDashDot"/>
    <xsd:enumeration value="lgDashDotDot"/>
    <xsd:enumeration value="sysDashDotDot"/>
  </xsd:restriction>
</xsd:simpleType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.6.4.14 ST_PresetMaterialType

Target namespace: http://schemas.microsoft.com/office/word/2010/wordml

Referenced by: CT_Props3D

A simple type that specifies the surface appearance. Possible values for this type are listed in the following table. See [ISO/IEC29500-1:2016] section 20.1.10.50 for details regarding the meaning of the listed values.

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>legacyMatte</td>
<td>Legacy matte.</td>
</tr>
<tr>
<td>legacyPlastic</td>
<td>Legacy plastic.</td>
</tr>
<tr>
<td>legacyMetal</td>
<td>Legacy metal.</td>
</tr>
<tr>
<td>legacyWireframe</td>
<td>Legacy wireframe.</td>
</tr>
<tr>
<td>matte</td>
<td>Matte.</td>
</tr>
<tr>
<td>plastic</td>
<td>Plastic.</td>
</tr>
</tbody>
</table>


Value | Meaning
--- | ---
metal | Metal.
warmMatte | Warm matte.
translucentPowder | Translucent powder.
powder | Powder.
dkEdge | Dark edge.
softEdge | Soft edge.
clear | Clear.
flat | Flat.
softmetal | Soft metal.

none | This value has the following characteristics:
Specular Color: white.
Specular Power value: 40.
Ambient Color: shape fill color.
Emissive Color: black.
Used when other attributes and elements of the parent are 0 to set the parent property to empty.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this simple type.

```xml
<xsd:simpleType name="ST_PresetMaterialType">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="legacyMatte"/>
    <xsd:enumeration value="legacyPlastic"/>
    <xsd:enumeration value="legacyMetal"/>
    <xsd:enumeration value="legacyWireframe"/>
    <xsd:enumeration value="matte"/>
    <xsd:enumeration value="plastic"/>
    <xsd:enumeration value="metal"/>
    <xsd:enumeration value="warmMatte"/>
    <xsd:enumeration value="translucentPowder"/>
    <xsd:enumeration value="powder"/>
    <xsd:enumeration value="dkEdge"/>
    <xsd:enumeration value="softEdge"/>
    <xsd:enumeration value="clear"/>
    <xsd:enumeration value="flat"/>
    <xsd:enumeration value="softmetal"/>
    <xsd:enumeration value="none"/>
  </xsd:restriction>
</xsd:simpleType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.4.15 ST_RectAlignment

**Target namespace:** http://schemas.microsoft.com.office/word/2010/wordml
A simple type that specifies how to position two rectangles relative to each other.

Possible values for this type are listed in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>none</td>
<td>When other attributes and elements of the parent are &quot;0&quot;, a value of &quot;none&quot; sets the parent property to empty. When other attributes are nonzero, a value of &quot;none&quot; is equivalent to &quot;ctr&quot;.</td>
</tr>
<tr>
<td>tl</td>
<td>Top Left.</td>
</tr>
<tr>
<td>t</td>
<td>Top.</td>
</tr>
<tr>
<td>tr</td>
<td>Top Right.</td>
</tr>
<tr>
<td>l</td>
<td>Left.</td>
</tr>
<tr>
<td>ctr</td>
<td>Center.</td>
</tr>
<tr>
<td>r</td>
<td>Right.</td>
</tr>
<tr>
<td>bl</td>
<td>Bottom Left.</td>
</tr>
<tr>
<td>b</td>
<td>Bottom.</td>
</tr>
<tr>
<td>br</td>
<td>Bottom Right.</td>
</tr>
</tbody>
</table>

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this simple type.

```xml
<xsd:simpleType name="ST_RectAlignment">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="none"/>
    <xsd:enumeration value="tl"/>
    <xsd:enumeration value="t"/>
    <xsd:enumeration value="tr"/>
    <xsd:enumeration value="l"/>
    <xsd:enumeration value="ctr"/>
    <xsd:enumeration value="r"/>
    <xsd:enumeration value="bl"/>
    <xsd:enumeration value="b"/>
    <xsd:enumeration value="br"/>
  </xsd:restriction>
</xsd:simpleType>
```

See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.6.4.16 ST_SchemeColorVal

**Target namespace:** http://schemas.microsoft.com/office/word/2010/wordml

**Referenced by:** CT_SchemeColor

A simple type that represents a scheme color value.
Possible values for this type are listed in the following table. See [ISO/IEC29500-1:2016] section 20.1.10.54 for details about the meaning of each value.

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>bg1</td>
<td>Semantic background color.</td>
</tr>
<tr>
<td>tx1</td>
<td>Semantic text color.</td>
</tr>
<tr>
<td>bg2</td>
<td>Semantic additional background color.</td>
</tr>
<tr>
<td>tx2</td>
<td>Semantic additional text color.</td>
</tr>
<tr>
<td>accent1</td>
<td>Extra scheme color 1.</td>
</tr>
<tr>
<td>accent2</td>
<td>Extra scheme color 2.</td>
</tr>
<tr>
<td>accent3</td>
<td>Extra scheme color 3.</td>
</tr>
<tr>
<td>accent4</td>
<td>Extra scheme color 4.</td>
</tr>
<tr>
<td>accent5</td>
<td>Extra scheme color 5.</td>
</tr>
<tr>
<td>accent6</td>
<td>Extra scheme color 6.</td>
</tr>
<tr>
<td>hlink</td>
<td>Regular hyperlink color.</td>
</tr>
<tr>
<td>folHlink</td>
<td>Followed hyperlink color.</td>
</tr>
<tr>
<td>dk1</td>
<td>Main dark color 1.</td>
</tr>
<tr>
<td>lt1</td>
<td>Main light color 1.</td>
</tr>
<tr>
<td>dk2</td>
<td>Main dark color 2.</td>
</tr>
<tr>
<td>lt2</td>
<td>Main light color 2.</td>
</tr>
<tr>
<td>phClr</td>
<td>Style Color. A color used in theme definitions that means to use the color of the style.</td>
</tr>
</tbody>
</table>

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this simple type.

```xml
<xsd:simpleType name="ST_SchemeColorVal">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="bg1"/>
    <xsd:enumeration value="tx1"/>
    <xsd:enumeration value="bg2"/>
    <xsd:enumeration value="tx2"/>
    <xsd:enumeration value="accent1"/>
    <xsd:enumeration value="accent2"/>
    <xsd:enumeration value="accent3"/>
    <xsd:enumeration value="accent4"/>
    <xsd:enumeration value="accent5"/>
    <xsd:enumeration value="accent6"/>
    <xsd:enumeration value="hlink"/>
    <xsd:enumeration value="folHlink"/>
    <xsd:enumeration value="dk1"/>
    <xsd:enumeration value="lt1"/>
    <xsd:enumeration value="dk2"/>
    <xsd:enumeration value="lt2"/>
    <xsd:enumeration value="phClr"/>
  </xsd:restriction>
</xsd:simpleType>
```
See section 5.1 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.7 http://schemas.microsoft.com/office/word/2015/wordml/symex

2.7.1 Elements

2.7.1.1 symEx

Target namespace: http://schemas.microsoft.com/office/word/2015/wordml/symex

A CT_SymEx (section 2.7.3.1) element that specifies the presence of a symbol character at the current location in the run's content. It is similar to the sym element (as specified in [ISO/IEC29500-1:2016] section 17.3.30) except that the char attribute is an ST_LongHexNumber (as specified by [ISO/IEC29500-1:2016] section 17.18.50) attribute instead of an ST_ShortHexNumber (as specified in [ISO/IEC29500-1:2016] section 17.18.79).

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="symEx" type="CT_SymEx"/>
```

See section 5.3 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.7.2 Attributes

None.

2.7.3 Complex Types

2.7.3.1 CT_SymEx

Target namespace: http://schemas.microsoft.com/office/word/2015/wordml/symex

Referenced by: symEx

The CT_SymEx complex type specifies the properties of an extended symbol character (as specified in section 2.7.1.1).

Attributes:

- **font**: An ST_String (as specified in [ISO/IEC29500-1:2016] section 22.9.2.13) attribute that specifies the name of the font with which the character is to be rendered.

- **char**: An ST_LongHexNumber (as specified by [ISO/IEC29500-1:2016] section 17.18.50) attribute that specifies the Unicode character code of the symbol character.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_SymEx">
  <xsd:attribute name="font" type="w12:ST_String"/>
  <xsd:attribute name="char" type="w12:ST_LongHexNumber"/>
</xsd:complexType>
```
See section 5.3 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.7.4 Simple Types
None.

2.8 http://schemas.microsoft.com_office/word/2016/wordml/cid

2.8.1 Elements

2.8.1.1 commentsIds

Target namespace: http://schemas.microsoft.com/office/word/2016/wordml/cid

The commentsIds global element is a CT_CommentsIds element that specifies additional identification information for all the comments in the document. It is the root element of the commentsIds (section 2.1.4) part of a WordprocessingML document.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.

```xml
<xsd:element name="commentsIds" type="CT_CommentsIds"/>
```

See section 5.4 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.8.2 Attributes
None.

2.8.3 Complex Types

2.8.3.1 CT_CommentId

Target namespace: http://schemas.microsoft.com/office/word/2016/wordml/cid

Referenced by: CT_CommentsIds

The CT_CommentId complex type specifies additional identification information for a single comment in the document.

Attributes:

- **paraId**: An ST_LongHexNumber (as specified by [ISO/IEC29500-1:2016] section 17.18.50) attribute that specifies the paraId (section 2.6.2.3) of the last paragraph of the associated comment.

- **durableId**: An ST_LongHexNumber (as specified by [ISO/IEC29500-1:2016] section 17.18.50) attribute that specifies the identifier for the associated comment. Values MUST be greater than 0 and less than 0x7FFFFFFF.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.
See section 5.4 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.8.3.2 CT_CommentsIds

Target namespace: http://schemas.microsoft.com/office/word/2016/wordml/cid

Referenced by: commentsIds

The CT_CommentsIds complex type <61> specifies additional identification information for all the comments defined in the document.

Child Elements:

commentId: A CT_CommentId element that specifies additional identification information for a single comment in the document.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_CommentsIds">
  <xsd:sequence>
    <xsd:element name="commentId" type="CT_CommentId" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

See section 5.4 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.8.4 Simple Types

None.

2.9 http://schemas.microsoft.com/office/word/2018/wordml

2.9.1 Elements

None.

2.9.2 Attributes

None.

2.9.3 Complex Types

2.9.3.1 CT_Extension

Target namespace: http://schemas.microsoft.com/office/word/2018/wordml

Referenced by: CT_ExtensionList

A complex type that specifies an extension.
Attributes:

uri: A token ([XMLSCHEMA2/2] section 3.3.2) attribute that specifies the identifier for the extension.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_Extension">
  <xsd:sequence>
    <xsd:any processContents="lax"/>
  </xsd:sequence>
  <xsd:attribute name="uri" type="xsd:token"/>
</xsd:complexType>
```

See section 5.5 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

## 2.9.3.2 CT_ExtensionList

Target namespace: http://schemas.microsoft.com/office/word/2018/wordml

Referenced by: CT_CommentExtensible, CT_CommentsExtensible

A complex type that specifies a list of extensions.

Child Elements:

ext: A CT_Extension element that specifies an extension.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_ExtensionList">
  <xsd:sequence>
    <xsd:element name="ext" type="CT_Extension" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

See section 5.5 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

## 2.9.4 Simple Types

None.

## 2.10 http://schemas.microsoft.com/office/word/2018/wordml/cex

### 2.10.1 Elements

#### 2.10.1.1 commentsExtensible

Target namespace: http://schemas.microsoft.com/office/word/2018/wordml/cex

A CT_CommentsExtensible element that specifies additional information about comments in the document. It is the root element of the commentsExtensible part (section 2.1.5).

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this element.
<xsd:element name="commentsExtensible" type="CT_CommentsExtensible"/>

See section 5.6 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.10.2 Attributes
None.

2.10.3 Complex Types

2.10.3.1 CT_CommentExtensible

Target namespace: http://schemas.microsoft.com/office/word/2018/wordml/cex

Referenced by: CT_CommentsExtensible

A complex type that specifies additional information for a single comment.

Child Elements:

extLst: A CT_ExtensionList element that specifies the list of extensions for the comment.

Attributes:

durableId: An ST_LongHexNumber ([ISO/IEC29500-1:2016] section 17.18.50) attribute that specifies the durableId (section 2.8.3.1) of the associated comment.

dateUtc: An ST_DateTime ([ISO/IEC29500-1:2016] section 17.18.9) attribute that specifies date information for the comment. Unlike the date attribute of a comment element ([ISO/IEC29500-1:2016] section 17.13.4.2), the dateUtc attribute is defined to be in the UTC time zone.

intelligentPlaceholder: An ST_OnOff ([ISO/IEC29500-1:2016] section 22.9.2.7) attribute that when true specifies that the comment is a follow-up. The default value is false. The attribute MUST NOT be present on comments that are replies as specified by the paraIdParent attribute of an associated element of type CT_CommentEx (section 2.5.3.1).

When intelligentPlaceholder is true, the content of the comment SHOULD be ignored. <62>

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xs:complexType name="CT_CommentExtensible">
  <xs:sequence>
    <xs:element name="extLst" type="w16:CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="durableId" type="w12:ST_LongHexNumber" use="required"/>
  <xs:attribute name="dateUtc" type="w12:ST_DateTime" use="optional"/>
  <xs:attribute name="intelligentPlaceholder" type="w12:ST_OnOff" use="optional"/>
</xs:complexType>
```

See section 5.6 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.10.3.2 CT_CommentsExtensible

Target namespace: http://schemas.microsoft.com/office/word/2018/wordml/cex

Referenced by: commentsExtensible
A complex type that specifies additional information about comments in the document.

**Child Elements:**

- **commentExtensible:** A `CT_CommentExtensible` element that specifies additional information about a single comment.
- **extLst:** A `CT_ExtensionList` element that specifies a list of extensions.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```xml
<xsd:complexType name="CT_CommentsExtensible">
  <xsd:sequence>
    <xsd:element name="commentExtensible" type="CT_CommentExtensible" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="extLst" type="w16:CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
  </xsd:sequence>
</xsd:complexType>
```

See section 5.6 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### 2.10.4 Simple Types

None.

### 2.11 `http://schemas.microsoft.com/office/word/2020/wordml/sdtdatahash`

#### 2.11.1 Elements

None.

#### 2.11.2 Attributes

##### 2.11.2.1 `storeItemChecksum`

**Target namespace:** `http://schemas.microsoft.com/office/word/2020/wordml/sdtdatahash`

An `ST_String` ([ISO/IEC29500-1:2016] section 22.9.2.13) attribute that specifies a base64 encoded cyclic redundancy check (CRC) checksum computed using the algorithm MsoCrc32Compute ([MS-OSHARED] section 2.4.3). The checksum is computed using the data stream of the corresponding uncompressed and unencrypted custom XML data part. This checksum is stored in base64 encoding.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this attribute.

```xml
<xsd:attribute name="storeItemChecksum" type="w12:ST_String"/>
```

See section 5.7 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### 2.11.3 Complex Types

None.
2.11.4 Simple Types

None.
3 Structure Examples

3.1 Glowing Text

This example shows a usage of an extended element to indicate glowing text. See section 2.2.1 for more information. Consider the following XML, showing the complete contents of the Main Document Part (see [ISO/IEC29500-1:2016] section 11.3.10) of a word processing document.

```xml
<w:document
 xmlns:wd="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
 xmlns:w14="http://schemas.microsoft.com/office/word/2010/wordml"
 mc:Ignorable="w14">
 <wd:body>
  <wd:p>
   <wd:r>
    <wd:rPr>
     <w14:glow w14:rad="228600">
      <w14:schemeClr w14:val="accent6">
       <w14:alpha w14:val="60000"/>
       <w14:satMod w14:val="17500"/>
      </w14:schemeClr>
     </w14:glow>
    </wd:rPr>
    <wd:t>glowing</wd:t>
   </wd:r>
   <wd:r>
    <wd:t> text.</wd:t>
   </wd:r>
  </wd:p>
 </wd:body>
</w:document>
```

The glowing text is specified by the glow element, as a child of the rPr element (see [ISO/IEC29500-1:2016] section 17.3.2.28). Also, the Ignorable attribute (see [ISO/IEC29500-3:2015] section 7.2) is used to maintain compatibility with ISO/IEC-29500 implementations. The prefix w14 is specified in the value of this attribute, which is the prefix used for the glow element.

3.2 Stylistic Sets

This example shows a usage of an extended element to indicate enabled stylistic sets and ligatures. See section 2.2.1 for more information. Consider the following XML, showing the complete contents of the Main Document Part (see [ISO/IEC29500-1:2016] section 11.3.10) of a word processing document.

```xml
<w:document
 xmlns:wd="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
 xmlns:w14="http://schemas.microsoft.com/office/word/2010/wordml"
 mc:Ignorable="w14">
 <wd:body>
  <wd:p>
   <wd:rPr>
    <w14:ligatures w14:val="standardContextual"/>
    <w14:stylisticSets>
     <w14:styleSet w14:id="1"/>
     <w14:styleSet w14:id="4"/>
    </w14:stylisticSets>
   </wd:rPr>
   <wd:t>Office</wd:t>
  </wd:p>
 </wd:body>
</w:document>
```
The `ligatures` child of the `rPr` element (see [ISO/IEC29500-1:2016] section 17.3.2.28) specifies that the font makes use of standard and contextual ligatures if they are supported by the font. Furthermore, the `stylisticSets` child specifies that stylistic sets 1 and 4 are enabled. Also, the `Ignorable` attribute (see [ISO/IEC29500-3:2015] section 7.2) is used to maintain compatibility with ISO/IEC-29500 implementations. The prefix `w14` is specified in the value of this attribute, which is the prefix used for the `ligatures` and `stylisticSets` elements.
4 Security Considerations

4.1 Security Considerations for Implementers

None.

4.2 Index of Security Fields

None.
Appendix A: Full XML Schemas

For ease of implementation, this section provides the full W3C XML Schemas for the new elements, attributes, complex types, and simple types specified in the preceding sections. Any schema references to namespaces included in ISO/IEC 29500:2008 refer specifically to the transitional schemas as specified in [ISO/IEC29500-4:2016].

<table>
<thead>
<tr>
<th>Schema name</th>
<th>Prefix</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>http://schemas.microsoft.com_office_word_2012/wordml Schema</td>
<td>None.</td>
<td>5.2</td>
</tr>
<tr>
<td>http://schemas.microsoft.com_office_word_2015/wordml/symex Schema</td>
<td>None.</td>
<td>5.3</td>
</tr>
<tr>
<td>http://schemas.microsoft.com_office_word_2020/wordml/sdtdatahash Schema</td>
<td>None.</td>
<td>5.7</td>
</tr>
<tr>
<td>http://schemas.microsoft.com_office_word_2010/wordml Schema</td>
<td>None.</td>
<td>5.1</td>
</tr>
<tr>
<td>http://schemas.microsoft.com_office_word_2018/wordml Schema</td>
<td>None.</td>
<td>5.5</td>
</tr>
<tr>
<td>http://schemas.microsoft.com_office_word_2018/wordml/ex Schema</td>
<td>None.</td>
<td>5.6</td>
</tr>
<tr>
<td>http://schemas.microsoft.com_office_word_2016/wordml/cid Schema</td>
<td>None.</td>
<td>5.4</td>
</tr>
</tbody>
</table>

5.1 http://schemas.microsoft.com_office_word_2010/wordml Schema

```xml
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    xmlns:w12="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
    elementFormDefault="qualified" attributeFormDefault="qualified" blockDefault="#all"
    xmlns:w="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
    xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"
    xmlns="http://schemas.microsoft.com/office/word/2010/wordml"
    targetNamespace="http://schemas.microsoft.com/office/word/2010/wordml">
    <xsd:import id="rel" namespace="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
        schemaLocation="orel.xsd"/>
    <xsd:import id="w" namespace="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
        schemaLocation="word12.xsd"/>
    <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/main"
        location="oartbasetypes.xsd"/>
    <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/main"
        location="oartbsplineproperties.xsd"/>
    <xsd:complexType name="CT_LongHexNumber">
        <xsd:attribute name="val" type="w:ST_LongHexNumber" use="required"/>
    </xsd:complexType>
    <xsd:simpleType name="ST_OnOff">
        <xsd:restriction base="xsd:string">
            <xsd:enumeration value="true"/>
            <xsd:enumeration value="false"/>
            <xsd:enumeration value="0"/>
            <xsd:enumeration value="1"/>
        </xsd:restriction>
    </xsd:simpleType>
    <xsd:element name="docId" type="CT_LongHexNumber"/>
    <xsd:element name="conflictMode" type="CT_OnOff"/>
    <xsd:attributeGroup name="AG_ParIds">
        <xsd:attribute name="paraId" type="w:ST_LongHexNumber"/>
        <xsd:attribute name="textId" type="w:ST_LongHexNumber"/>
    </xsd:attributeGroup>
```
<xsd:attribute name="anchorId" type="w:ST_LongHexNumber"/>
<xsd:attribute name="noSpellErr" type="w:ST_OnOff"/>
<xsd:element name="customXmlConflictInsRangeStart" type="w:CT_TrackChange"/>
<xsd:element name="customXmlConflictInsRangeEnd" type="w:CT_Markup"/>
<xsd:element name="customXmlConflictDelRangeStart" type="w:CT_TrackChange"/>
<xsd:element name="customXmlConflictDelRangeEnd" type="w:CT_Markup"/>
<xsd:group name="EG_RunLevelConflicts">
  <xsd:sequence>
    <xsd:element name="conflictIns" type="w:CT_RunTrackChange" minOccurs="0"/>
    <xsd:element name="conflictDel" type="w:CT_RunTrackChange" minOccurs="0"/>
  </xsd:sequence>
</xsd:group>
<xsd:group name="EG_Conflicts">
  <xsd:choice>
    <xsd:element name="conflictIns" type="w:CT_TrackChange" minOccurs="0"/>
    <xsd:element name="conflictDel" type="w:CT_TrackChange" minOccurs="0"/>
  </xsd:choice>
</xsd:group>
<xsd:complexType name="CT_Percentage">
  <xsd:attribute name="val" type="a:ST_Percentage" use="required"/>
</xsd:complexType>
<xsd:complexType name="CT_PositiveFixedPercentage">
  <xsd:attribute name="val" type="a:ST_PositiveFixedPercentage" use="required"/>
</xsd:complexType>
<xsd:complexType name="CT_PositivePercentage">
  <xsd:attribute name="val" type="a:ST_PositivePercentage" use="required"/>
</xsd:complexType>
<xsd:simpleType name="ST_SchemeColorVal">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="bg1"/>
    <xsd:enumeration value="bg2"/>
    <xsd:enumeration value="tx1"/>
    <xsd:enumeration value="tx2"/>
    <xsd:enumeration value="accent1"/>
    <xsd:enumeration value="accent2"/>
    <xsd:enumeration value="accent3"/>
    <xsd:enumeration value="accent4"/>
    <xsd:enumeration value="accent5"/>
    <xsd:enumeration value="accent6"/>
    <xsd:enumeration value="hlink"/>
    <xsd:enumeration value="folHlink"/>
    <xsd:enumeration value="dk1"/>
    <xsd:enumeration value="lt1"/>
    <xsd:enumeration value="dk2"/>
    <xsd:enumeration value="lt2"/>
    <xsd:enumeration value="phClr"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="ST RectAlignment">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="none"/>
    <xsd:enumeration value="tl"/>
    <xsd:enumeration value="t"/>
    <xsd:enumeration value="tr"/>
    <xsd:enumeration value="l"/>
    <xsd:enumeration value="ctr"/>
    <xsd:enumeration value="r"/>
    <xsd:enumeration value="bl"/>
    <xsd:enumeration value="b"/>
    <xsd:enumeration value="br"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="ST PathShadeType">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="shape"/>
    <xsd:enumeration value="circle"/>
    <xsd:enumeration value="rect"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="ST_LineCap">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="rnd"/>
        <xsd:enumeration value="sq"/>
        <xsd:enumeration value="flat"/>
    </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="ST_PresetLineDashVal">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="solid"/>
        <xsd:enumeration value="dot"/>
        <xsd:enumeration value="sysDot"/>
        <xsd:enumeration value="dash"/>
        <xsd:enumeration value="sysDash"/>
        <xsd:enumeration value="lgDash"/>
        <xsd:enumeration value="dashDot"/>
        <xsd:enumeration value="sysDashDot"/>
        <xsd:enumeration value="lgDashDot"/>
        <xsd:enumeration value="dashDotDot"/>
        <xsd:enumeration value="sysDashDotDot"/>
    </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="ST_PenAlignment">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="ctr"/>
        <xsd:enumeration value="in"/>
    </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="ST_CompoundLine">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="sng"/>
        <xsd:enumeration value="dbl"/>
        <xsd:enumeration value="thickThin"/>
        <xsd:enumeration value="thinThick"/>
        <xsd:enumeration value="tri"/>
    </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="CT_RelativeRect">
    <xsd:attribute name="l" use="optional" type="a:ST_Percentage"/>
    <xsd:attribute name="t" use="optional" type="a:ST_Percentage"/>
    <xsd:attribute name="r" use="optional" type="a:ST_Percentage"/>
    <xsd:attribute name="b" use="optional" type="a:ST_Percentage"/>
</xsd:complexType>

<xsd:group name="EG_ColorTransform">
    <xsd:choice>
        <xsd:element name="tint" type="CT_PositiveFixedPercentage"/>
        <xsd:element name="shade" type="CT_PositiveFixedPercentage"/>
        <xsd:element name="alpha" type="CT_PositivePercentage"/>
        <xsd:element name="hueMod" type="CT_PositivePercentage"/>
        <xsd:element name="sat" type="CT_Percentage"/>
        <xsd:element name="satOff" type="CT_Percentage"/>
        <xsd:element name="satMod" type="CT_Percentage"/>
        <xsd:element name="lum" type="CT_Percentage"/>
        <xsd:element name="lumOff" type="CT_Percentage"/>
        <xsd:element name="lumMod" type="CT_Percentage"/>
    </xsd:choice>
</xsd:group>

<xsd:complexType name="CT_SRgbColor">
    <xsd:sequence>
        <xsd:group ref="EG_ColorTransform" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
    <xsd:attribute name="val" type="w:ST_HexColorRGB" use="required"/>
</xsd:complexType>

<xsd:complexType name="CT_SchemeColor">
    <xsd:sequence>
        <xsd:group ref="EG_ColorTransform" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
    <xsd:attribute name="val" type="ST_SchemeColorVal" use="required"/>
</xsd:complexType>
<xsd:group name="EG_ColorChoice">
  <xsd:choice>
    <xsd:element name="srgbClr" type="CT_SRgbColor"/>
    <xsd:element name="schemeClr" type="CT.SchemeColor"/>
  </xsd:choice>
</xsd:group>
<xsd:complexType name="CT_Color">
  <xsd:sequence>
    <xsd:group ref="EG_ColorChoice"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="CT_GradientStop">
  <xsd:sequence>
    <xsd:group ref="EG_ColorChoice"/>
  </xsd:sequence>
  <xsd:attribute name="pos" type="a:ST_PositiveFixedPercentage" use="required"/>
</xsd:complexType>
<xsd:complexType name="CT_GradientStopList">
  <xsd:sequence>
    <xsd:element name="gs" type="CT_GradientStop" minOccurs="2" maxOccurs="10"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="CT_LinearShadeProperties">
  <xsd:attribute name="ang" type="a:ST_PositiveFixedAngle" use="optional"/>
  <xsd:attribute name="scaled" type="ST_OnOff" use="optional"/>
</xsd:complexType>
<xsd:complexType name="CT_PathShadeProperties">
  <xsd:sequence>
    <xsd:element name="fillToRect" type="CT_RelativeRect" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="path" type="ST_PathShadeType" use="optional"/>
</xsd:complexType>
<xsd:complexType name="CT_SolidColorFillProperties">
  <xsd:sequence>
    <xsd:group ref="EG_ColorChoice" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="CT_GradientFillProperties">
  <xsd:sequence>
    <xsd:element name="gsLst" type="CT_GradientStopList" minOccurs="0"/>
    <xsd:group ref="EG_ShadeProperties" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:group name="EG_FillProperties">
  <xsd:choice>
    <xsd:element name="noFill" type="w:CT_Empty"/>
    <xsd:element name="solidFill" type="CT_SolidColorFillProperties"/>
    <xsd:element name="gradFill" type="CT_GradientFillProperties"/>
  </xsd:choice>
</xsd:group>
<xsd:complexType name="CT_PresetLineDashProperties">
  <xsd:attribute name="val" type="ST_PresetLineDashVal" use="optional"/>
</xsd:complexType>
<xsd:group name="EG_LineDashProperties">
  <xsd:choice>
    <xsd:element name="prstDash" type="CT_PresetLineDashProperties"/>
  </xsd:choice>
</xsd:group>
<xsd:complexType name="CT_LineJoinMiterProperties">
  <xsd:attribute name="lim" type="a:ST_PositivePercentage" use="optional"/>
</xsd:complexType>
<xsd:group name="EG_LineJoinProperties">
  <xsd:choice>
    <xsd:element name="lin" type="CT_LinearShadeProperties"/>
    <xsd:element name="path" type="CT_PathShadeProperties"/>
  </xsd:choice>
</xsd:group>
<xsd:element name="round" type="w:CT_Empty"/>
<xsd:element name="bevel" type="w:CT_Empty"/>
<xsd:element name="miter" type="CT_LineJoinMiterProperties"/>
</xsd:choice>
</xsd:group>
<xsd:simpleType name="ST_PresetCameraType">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="legacyObliqueTopLeft"/>
    <xsd:enumeration value="legacyObliqueTop"/>
    <xsd:enumeration value="legacyObliqueTopRight"/>
    <xsd:enumeration value="legacyObliqueLeft"/>
    <xsd:enumeration value="legacyObliqueFront"/>
    <xsd:enumeration value="legacyObliqueRight"/>
    <xsd:enumeration value="legacyObliqueBottomLeft"/>
    <xsd:enumeration value="legacyObliqueBottom"/>
    <xsd:enumeration value="legacyObliqueBottomRight"/>
    <xsd:enumeration value="legacyPerspectiveTopLeft"/>
    <xsd:enumeration value="legacyPerspectiveTop"/>
    <xsd:enumeration value="legacyPerspectiveTopRight"/>
    <xsd:enumeration value="legacyPerspectiveFront"/>
    <xsd:enumeration value="legacyPerspectiveRight"/>
    <xsd:enumeration value="legacyPerspectiveBottomLeft"/>
    <xsd:enumeration value="legacyPerspectiveBottom"/>
    <xsd:enumeration value="legacyPerspectiveBottomRight"/>
    <xsd:enumeration value="orthographicFront"/>
    <xsd:enumeration value="isometricTopUp"/>
    <xsd:enumeration value="isometricTopDown"/>
    <xsd:enumeration value="isometricOffAxis1Top"/>
    <xsd:enumeration value="isometricOffAxis1Right"/>
    <xsd:enumeration value="isometricOffAxis2Right"/>
    <xsd:enumeration value="isometricOffAxis3Right"/>
    <xsd:enumeration value="isometricOffAxis4Right"/>
    <xsd:enumeration value="obliqueTopLeft"/>
    <xsd:enumeration value="obliqueTop"/>
    <xsd:enumeration value="obliqueTopRight"/>
    <xsd:enumeration value="obliqueLeft"/>
    <xsd:enumeration value="obliqueRight"/>
    <xsd:enumeration value="obliqueBottomLeft"/>
    <xsd:enumeration value="obliqueBottom"/>
    <xsd:enumeration value="obliqueBottomRight"/>
    <xsd:enumeration value="perspectiveFront"/>
    <xsd:enumeration value="perspectiveLeft"/>
    <xsd:enumeration value="perspectiveRight"/>
    <xsd:enumeration value="perspectiveAbove"/>
    <xsd:enumeration value="perspectiveBelow"/>
    <xsd:enumeration value="perspectiveAboveRightFacing"/>
    <xsd:enumeration value="perspectiveContrastingLeftFacing"/>
    <xsd:enumeration value="perspectiveContrastingRightFacing"/>
    <xsd:enumeration value="perspectiveHeroicLeftFacing"/>
    <xsd:enumeration value="perspectiveHeroicRightFacing"/>
    <xsd:enumeration value="perspectiveHeroicExtremeLeftFacing"/>
    <xsd:enumeration value="perspectiveHeroicExtremeRightFacing"/>
    <xsd:enumeration value="perspectiveRelaxed"/>
    <xsd:enumeration value="perspectiveRelaxedModerately"/>
  </xsd:restriction>
</xsd:simpleType>
</xsd:restriction>
</xsd:simpleType>
<xsd:complexType name="CT_Camera">
  <xsd:attribute name="prst" use="required" type="ST_PresetCameraType"/>
</xsd:complexType>
<xsd:complexType name="CT_SphereCoords">
  <xsd:attribute name="lat" type="a:ST_PositiveFixedAngle" use="required"/>
  <xsd:attribute name="lon" type="a:ST_PositiveFixedAngle" use="required"/>
  <xsd:attribute name="rev" type="a:ST_PositiveFixedAngle" use="required"/>
</xsd:complexType>
<xsd:simpleType name="ST_LightRigType">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="legacyFlat1"/>
    <xsd:enumeration value="legacyFlat2"/>
    <xsd:enumeration value="legacyFlat3"/>
    <xsd:enumeration value="legacyNormal1"/>
    <xsd:enumeration value="legacyNormal2"/>
    <xsd:enumeration value="legacyNormal3"/>
    <xsd:enumeration value="legacyNormal4"/>
    <xsd:enumeration value="legacyHarsh1"/>
    <xsd:enumeration value="legacyHarsh2"/>
    <xsd:enumeration value="legacyHarsh3"/>
    <xsd:enumeration value="legacyHarsh4"/>
    <xsd:enumeration value="threePt"/>
    <xsd:enumeration value="balanced"/>
    <xsd:enumeration value="soft"/>
    <xsd:enumeration value="harsh"/>
    <xsd:enumeration value="flood"/>
    <xsd:enumeration value="contrasting"/>
    <xsd:enumeration value="morning"/>
    <xsd:enumeration value="sunrise"/>
    <xsd:enumeration value="sunset"/>
    <xsd:enumeration value="chilly"/>
    <xsd:enumeration value="freezing"/>
    <xsd:enumeration value="flat"/>
    <xsd:enumeration value="twoPt"/>
    <xsd:enumeration value="glow"/>
    <xsd:enumeration value="brightRoom"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="ST_LightRigDirection">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="tl"/>
    <xsd:enumeration value="t"/>
    <xsd:enumeration value="tr"/>
    <xsd:enumeration value="l"/>
    <xsd:enumeration value="r"/>
    <xsd:enumeration value="bl"/>
    <xsd:enumeration value="b"/>
    <xsd:enumeration value="br"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:complexType name="CT_LightRig">
  <xsd:sequence>
    <xsd:element name="rot" type="CT_SphereCoords" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="rig" type="ST_LightRigType" use="required"/>
  <xsd:attribute name="dir" type="ST_LightRigDirection" use="required"/>
</xsd:complexType>
<xsd:simpleType name="ST_BevelPresetType">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="relaxedInset"/>
    <xsd:enumeration value="circle"/>
    <xsd:enumeration value="slope"/>
    <xsd:enumeration value="cross"/>
    <xsd:enumeration value="angle"/>
    <xsd:enumeration value="softRound"/>
    <xsd:enumeration value="convex"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:enumeration value="coolSlant"/>
<xsd:enumeration value="divot"/>
<xsd:enumeration value="riblet"/>
<xsd:enumeration value="hardEdge"/>
<xsd:enumeration value="artDeco"/>
</xsd:restriction>
</xsd:simpleType>
</xsd:complexType>
<xsd:complexType name="CT_Bevel">
<xsd:attribute name="w" type="a:ST_PositiveCoordinate" use="optional"/>
<xsd:attribute name="h" type="a:ST_PositiveCoordinate" use="optional"/>
<xsd:attribute name="prst" type="ST_BevelPresetType" use="optional"/>
</xsd:complexType>
<xsd:simpleType name="ST_PresetMaterialType">
<xsd:restriction base="xsd:token">
<xsd:enumeration value="legacyMatte"/>
<xsd:enumeration value="legacyPlastic"/>
<xsd:enumeration value="legacyMetal"/>
<xsd:enumeration value="legacyWireframe"/>
<xsd:enumeration value="matte"/>
<xsd:enumeration value="plastic"/>
<xsd:enumeration value="metal"/>
<xsd:enumeration value="warmMatte"/>
<xsd:enumeration value="translucentPowder"/>
<xsd:enumeration value="powder"/>
<xsd:enumeration value="dkEdge"/>
<xsd:enumeration value="softEdge"/>
<xsd:enumeration value="clear"/>
<xsd:enumeration value="flat"/>
<xsd:enumeration value="softmetal"/>
<xsd:enumeration value="none"/>
</xsd:restriction>
</xsd:simpleType>
</xsd:complexType>
<xsd:complexType name="CT_Glow">
<xsd:sequence>
<xsd:group ref="EG_ColorChoice"/>
</xsd:sequence>
<xsd:attribute name="rad" use="optional" type="a:ST_PositiveCoordinate"/>
</xsd:complexType>
<xsd:complexType name="CT_Shadow">
<xsd:sequence>
<xsd:group ref="EG_ColorChoice"/>
<xsd:attribute name="blurRad" use="optional" type="a:ST_PositiveCoordinate"/>
<xsd:attribute name="dist" use="optional" type="a:ST_PositiveCoordinate"/>
<xsd:attribute name="dir" use="optional" type="a:ST_PositiveFixedAngle"/>
<xsd:attribute name="sx" use="optional" type="a:ST_Percentage"/>
<xsd:attribute name="sy" use="optional" type="a:ST_Percentage"/>
<xsd:attribute name="kx" use="optional" type="a:ST_FixedAngle"/>
<xsd:attribute name="ky" use="optional" type="a:ST_FixedAngle"/>
<xsd:attribute name="algn" use="optional" type="ST_RectAlignment"/>
</xsd:sequence>
</xsd:complexType>
<xsd:complexType name="CT_Reflection">
<xsd:attribute name="blurRad" use="optional" type="a:ST_PositiveCoordinate"/>
<xsd:attribute name="stA" use="optional" type="a:ST_PositiveFixedPercentage"/>
<xsd:attribute name="stPos" use="optional" type="a:ST_PositiveFixedPercentage"/>
<xsd:attribute name="endA" use="optional" type="a:ST_PositiveFixedPercentage"/>
<xsd:attribute name="endPos" use="optional" type="a:ST_PositiveFixedPercentage"/>
<xsd:attribute name="dist" use="optional" type="a:ST_PositiveCoordinate"/>
<xsd:attribute name="dir" use="optional" type="a:ST_PositiveFixedAngle"/>
<xsd:attribute name="kx" use="optional" type="a:ST_FixedAngle"/>
<xsd:attribute name="ky" use="optional" type="a:ST_FixedAngle"/>
<xsd:attribute name="algn" use="optional" type="ST_RectAlignment"/>
</xsd:attribute>
</xsd:complexType>
<xsd:complexType name="CT_FillTextEffect">
<xsd:sequence>
<xsd:group ref="EG_FillProperties" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>
5.2 http://schemas.microsoft.com_office/word/2012/wordml Schema

```xml
<xsd:element name="color" type="w12:CT_Color"/>
<xsd:simpleType name="ST_SdtAppearance">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="boundingBox"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:complexType name="CT_SdtCheckbox">
  <xsd:sequence>
    <xsd:element name="checked" type="CT_OnOff" minOccurs="0"/>
    <xsd:element name="checkedState" type="CT_SdtCheckboxSymbol" minOccurs="0"/>
    <xsd:element name="uncheckedState" type="CT_SdtCheckboxSymbol" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:element name="checkbox" type="CT_SdtCheckbox"/>
</xsd:complexType>
</xsd:schema>
```
<xsd:enumeration value="tags"/>
<xsd:enumeration value="hidden"/>
</xsd:restriction>
</xsd:simpleType>
<xsd:element name="dataBinding" type="w12:CT_DataBinding"/>
<xsd:complexType name="CT_SdtAppearance">
<xsd:attribute name="val" type="ST_SdtAppearance"/>
</xsd:complexType>
<xsd:element name="appearance" type="CT_SdtAppearance"/>
<xsd:complexType name="CT_CommentsEx">
<xsd:sequence>
<xsd:element name="commentEx" type="CT_CommentEx" minOccurs="0" maxOccurs="unbounded"/>
</xsd:sequence>
</xsd:complexType>
<xsd:complexType name="CT_CommentEx">
<xsd:attribute name="paraId" type="w12:ST_LongHexNumber" use="required"/>
<xsd:attribute name="paraIdParent" type="w12:ST_LongHexNumber" use="optional"/>
<xsd:attribute name="done" type="w12:ST_OnOff" use="optional"/>
</xsd:complexType>
<xsd:element name="commentsEx" type="CT_CommentsEx"/>
<xsd:complexType name="CT_People">
<xsd:sequence>
<xsd:element name="person" type="CT_Person" minOccurs="0" maxOccurs="unbounded"/>
</xsd:sequence>
</xsd:complexType>
<xsd:complexType name="CT_PresenceInfo">
<xsd:attribute name="providerId" type="xsd:string" use="required"/>
<xsd:attribute name="userId" type="xsd:string" use="required"/>
</xsd:complexType>
<xsd:complexType name="CT_Person">
<xsd:sequence>
<xsd:element name="presenceInfo" type="CT_PresenceInfo" minOccurs="0" maxOccurs="1"/>
</xsd:sequence>
<xsd:attribute name="author" type="w12:ST_String" use="required"/>
</xsd:complexType>
<xsd:element name="people" type="CT_People"/>
<xsd:complexType name="CT_SdtRepeatedSection">
<xsd:sequence>
<xsd:element name="sectionTitle" type="w12:CT_String" minOccurs="0" maxOccurs="0"/>
<xsd:element name="doNotAllowInsertDeleteSection" type="w12:CT_OnOff" minOccurs="0" maxOccurs="0"/>
</xsd:sequence>
</xsd:complexType>
<xsd:simpleType name="ST_Guid">
<xsd:restriction base="xsd:token">
<xsd:pattern value="^[0-9A-F]{8}-[0-9A-F]{4}-[0-9A-F]{4}-[0-9A-F]{4}-[0-9A-F]{12}$"/>
</xsd:restriction>
</xsd:simpleType>
<xsd:complexType name="CT_Guid">
<xsd:attribute name="val" type="ST_Guid"/>
</xsd:complexType>
<xsd:element name="repeatingSection" type="CT_SdtRepeatedSection"/>
<xsd:element name="repeatingSectionItem" type="w12:CT_Empty"/>
<xsd:element name="chartTrackingRefBased" type="w12:CT_OnOff"/>
<xsd:element name="collapsed" type="w12:CT_OnOff"/>
<xsd:element name="docId" type="CT_Guid"/>
<xsd:element name="footnoteColumns" type="w12:CT_DECIMALNUMBER"/>
<xsd:element name="webExtensionLinked" type="w12:CT_OnOff"/>
<xsd:element name="webExtensionCreated" type="w12:CT_OnOff"/>
<xsd:attribute name="restartNumberingAfterBreak" type="w12:ST_OnOff"/>
</xsd:schema>

5.3 http://schemas.microsoft.com/office/word/2015/wordml/symex Schema

<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:w12="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
  elementFormDefault="qualified" attributeFormDefault="qualified" blockDefault="#all"
5.4 http://schemas.microsoft.com/office/word/2016/wordml/cid Schema

5.5 http://schemas.microsoft.com/office/word/2018/wordml Schema

5.6 http://schemas.microsoft.com/office/word/2018/wordml/cex Schema
  targetNamespace="http://schemas.microsoft.com/office/word/2018/wordml/cex">
  <xsd:import id="w16" namespace="http://schemas.microsoft.com/office/word/2018/wordml"
    schemaLocation="word16.xsd"/>
  <xsd:import id="w12"
    namespace="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
    schemaLocation="word12.xsd"/>
  <xsd:complexType name="CT_CommentsExtensible">
    <xsd:sequence>
      <xsd:element name="commentExtensible" type="CT_CommentExtensible" minOccurs="0"
        maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:complexType name="CT_CommentExtensible">
    <xsd:sequence>
      <xsd:element name="extLst" type="w16:CT_ExtensionList" minOccurs="0"
        maxOccurs="1"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:element name="commentsExtensible" type="CT_CommentsExtensible"/>
</xsd:schema>

5.7 http://schemas.microsoft.com/office/word/2020/wordml/sdtdatahash Schema

<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:w12="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
  elementFormDefault="qualified" attributeFormDefault="qualified" blockDefault="#all"
  targetNamespace="http://schemas.microsoft.com/office/word/2020/wordml/sdtdatahash"
  namespace="http://schemas.microsoft.com/office/word/2020/wordml/sdtdatahash">
  <xsd:import id="w12"
    namespace="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
    schemaLocation="word12.xsd"/>
  <xsd:attribute name="storeItemChecksum" type="w12:ST_String"/>
</xsd:schema>
6 Appendix B: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include updates to those products.

- Microsoft Office Word 2007
- Microsoft Word 2010
- Microsoft Word 2013
- Microsoft Word 2016
- Microsoft Word 2019
- Microsoft Word 2021

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms "SHOULD" or "SHOULD NOT" implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term "MAY" implies that the product does not follow the prescription.


<2> Section 2.1.1: This part is written out only by Microsoft Word 2010. Word 2013 and later will not write out this part.

<3> Section 2.1.2: This part is not available in Word 2010 and earlier.

<4> Section 2.1.3: This part is not available in Word 2010 and earlier.

<5> Section 2.1.4: This part is not available in Word 2013 and earlier.

<6> Section 2.1.5: This part is not available in Word 2016 and earlier.

<7> Section 2.2.8: This extension is not available in Word 2010 and earlier.

<8> Section 2.2.9: This extension is not available in Word 2010 and earlier.

<9> Section 2.2.10: This extension is not available in Word 2010 and earlier.

<10> Section 2.2.11: This extension is not available in Word 2013 and earlier.

<11> Section 2.2.12: This extension is not available in Word 2019 and earlier.

<12> Section 2.3.4: This element is not available in Word 2010 and earlier.

<13> Section 2.3.5: Word 2010 ignores a compatSetting element with a val attribute whose value is 15.

<14> Section 2.3.6: This element is not available in Word 2010 and earlier.

<15> Section 2.3.7: This element is not available in Word 2013 and earlier

<16> Section 2.3.8: This element is not available in Word 2013 and earlier.
This element is not available in Word 2010 and earlier.

This element is not available in Word 2010 and earlier.

This element is not available in Word 2010 and earlier.

This element is not available in Word 2010 and earlier.

This element is not available in Word 2010 and earlier.

This element is not available in Word 2010 and earlier.

This element is not available in Word 2010 and earlier.

This element is not available in Word 2010 and earlier.

This element is not available in Word 2010 and earlier.

This element is not available in Word 2010 and earlier.

This element is not available in Word 2010 and earlier.

This element is not available in Word 2010 and earlier.

This element is not available in Word 2010 and earlier.

This attribute is not available in Word 2010 and earlier.

This type is not available in Word 2010 and earlier.

This type is not available in Word 2010 and earlier.

This type is not available in Word 2010 and earlier.

This type is not available in Word 2010 and earlier.

This type is not available in Word 2010 and earlier.

This value is only available when used with Microsoft Office 365.

Older versions of Microsoft Word Online on Office 365 emitted values consisting of a unique identifier followed by the constant text "@LIVE.COM".

This type is not available in Word 2010 and earlier.

This type is not available in Word 2010 and earlier.

This type is not available in Word 2010 and earlier.

Word 2010 and later treat the content as a tracked deletion.

Word 2010 and later treat the parent as a tracked deletion.

Word 2010 and later treat the parent as a tracked insertion.

Word 2010 and later treat the content as a tracked insertion.

Word 2010 and later ignore this element.

Word 2010 and later ignore this element.

Word 2010 and later ignore this element.
<48> Section 2.6.1.11: Word 2010 and later ignore this element.

<49> Section 2.6.3.1: Word 2010 and later limit this to max 2147483646.

<50> Section 2.6.3.1: Word 2010 and later limit this to max 2147483646.

<51> Section 2.6.3.2: Word 2010 and later write orthographicFront for this attribute and ignore the value when reading.

<52> Section 2.6.3.6: Word 2010 and later limit this to max 2147483646.

<53> Section 2.6.3.23: Word 2010 and later limit this to max 2147483646.

<54> Section 2.6.3.23: Word 2010 and later limit this to max 2147483646.

<55> Section 2.6.3.24: Word 2010 and later limit this to max 2147483646.

<56> Section 2.6.3.24: Word 2010 and later limit this to max 2147483646.

<57> Section 2.6.3.30: Word 2010 and later limit this to max 2147483646.

<58> Section 2.6.3.30: Word 2010 and later limit this to max 2147483646.

<59> Section 2.8.1.1: This element is not available in Word 2010 and earlier.

<60> Section 2.8.3.1: This type is not available in Word 2013 and earlier.

<61> Section 2.8.3.2: This type is not available in Word 2013 and earlier.

<62> Section 2.10.3.1: When intelligentPlaceholder is true, the Office 365 version of Word ignores the content of the comment. Other versions of Word treat the comment as a regular comment.
7 Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as Major, Minor, or None.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

- A document revision that incorporates changes to interoperability requirements.
- A document revision that captures changes to protocol functionality.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

The revision class **None** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the relevant technical content is identical to the last released version.

The changes made to this document are listed in the following table. For more information, please contact dochelp@microsoft.com.

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Revision class</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.8.3.1 CT_CommentId</td>
<td>Specified valid range for durableId attribute.</td>
<td>Minor</td>
</tr>
<tr>
<td>5 Appendix A: Full XML Schemas</td>
<td>Added schema name.</td>
<td>Minor</td>
</tr>
<tr>
<td>5 Appendix A: Full XML Schemas</td>
<td>Removed hyperlink for 5.7.</td>
<td>Minor</td>
</tr>
<tr>
<td>6 Appendix B: Product Behavior</td>
<td>Updated list of supported products.</td>
<td>major</td>
</tr>
</tbody>
</table>
8 Index

A
anchorId attribute 45
appearance element 26
Applicability 12
Attributes anchorId 45
noSpellErr 45
paraId 46
textId 46

C
Calendar type extensions 14
Change tracking 109
chartTrackingRefBased element 26
checkbox element 36
cntxtAlts element 37
collapsed element 27
color element 27
commentsEx element 28
commentsExtended part 13
commentsExtensible element 87
commentsIds element 85
commentsIds part 13
compatibilityMode element 17
compatSetting elements 15
Complex types
CT_Bevel 46
CT_Camera 47
CT_Color 47
CT_CommentEx 31
CT_CommentExtensible 88
CT_CommentId 85
CT_CommentsEx 88
CT_CommentsExtensible 88
CT_CommentsIds 86
CT_DefaultImageDpi 48
CT_Extension 86
CT_ExtensionList 87
CT_FillTextEffect 48
CT_Glow 49
CT_GradientFillProperties 49
CT_GradientStop 50
CT_GradientStopList 51
CT_Ligatures 51
CT_LightRig 51
CT_LinearShadeProperties 52
CT_LineJoinMiterProperties 52
CT_LongHexNumber 53
CT_NumForm 53
CT_NumSpacing 54
CT_OnOff 54
CT_PathShadeProperties 54
CT_People 33
CT_Percentage 55
CT_Person 33
CT_PositiveFixedPercentage 55
CT_PositivePercentage 56
CT_PresenceInfo 34
CT_PresetLineDashProperties 56
CT_Props3D 57
CT_Reflection 57
CT_RelativeRect 59
CT_Scene3D 59
CT_SchemeColor 60
CT_SdtAppearance 34
CT_SdtCheckbox 61
CT_SdtCheckboxSymbol 61
CT_SdtRepeatedSection 35
CT_Shadow 62
CT_SolidColorFillProperties 63
CT_SphereCoords 63
CT_SRgbColor 64
CT_StyleSet 65
CT_StylesSets 65
CT_TextOutlineEffect 66
conflict extensions 14
conflictDel element (CT_RunTrackChange) 37
conflictDel element (CT_TrackChange) 37
conflictIns element (CT_RunTrackChange) 38
conflictIns element (CT_TrackChange) 38
conflictMode element 38
CT_Bevel complex type 46
CT_Camera complex type 47
CT_Color complex type 47
CT_CommentEx complex type 31
CT_CommentExtensible complex type 88
CT_CommentId complex type 85
CT_CommentsEx complex type 32
CT_CommentsExtensible complex type 88
CT_CommentsIds complex type 86
CT_DefaultImageDpi complex type 48
CT_Extension complex type 86
CT_ExtensionList complex type 87
CT_FillTextEffect complex type 48
CT_Glow complex type 49
CT_GradientFillProperties complex type 49
CT_GradientStop complex type 50
CT_GradientStopList complex type 51
CT_Ligatures complex type 51
CT_LightRig complex type 51
CT_LinearShadeProperties complex type 52
CT_LineJoinMiterProperties complex type 52
CT_LongHexNumber complex type 53
CT_NumForm complex type 53
CT_NumSpacing complex type 54
CT_OnOff complex type 54
CT_PathShadeProperties complex type 54
CT_People complex type 33
CT_Percentage complex type 55
CT_Person complex type 33
CT_PositiveFixedPercentage complex type 55
CT_PositivePercentage complex type 56
CT_PresenceInfo complex type 34
CT_PresetLineDashProperties complex type 56
CT_Props3D complex type 57
CT_Reflection complex type 57
CT_RelativeRect complex type 59
CT_Scene3D complex type 59
CT_SchemeColor complex type 60
CT_SdtAppearance complex type 34
null
Settings extensions 13
shadow element 44
ST_BevelPresetType 67
ST_CompoundLine 68
ST_Ligatures 69
ST_LightRigDirection 70
ST_LightRigType 71
ST_LineCap 73
ST_NumForm 73
ST_NumSpacing 74
ST_OnOff 74
ST_PenAlignment 75
ST_PresetCameraType 76
ST_PresetLineDashVal 79
ST_PresetMaterialType 80
ST_RectAlignment 81
ST_SchemeColorVal 82
ST_Sddelement 36
stylesWithEffects part 13
stylisticSets element 44
textFill element 45
textId attribute 46
textOutline element 45
tr extensions 14
webExtensionCreated element 30
webExtensionLinked element 30
differentiateMultirowTableHeaders element (section 2.3.4 17, section 2.3.6 18)
discardImageEditingData element 40
docId element (CT_Guid) 28
docID element (CT_LongHexNumber) 40
doNotFlipMirrorIndents element 16

e

Elements
appearance 26
chartTrackingRefBased 26
checkbox 36
cntxtAlts 37
collapsed 27
color 27
commentsEx 28
commentsExtensible 87
commentsIds 85
compatibilityMode 17
conflictDel (section 2.6.1.3 37, section 2.6.1.4 37)
conflictIns (CT_RunTrackChange) 38
conflictIns (CT_TrackChange) 38
conflictMode 38
customXmlConflictDelRangeEnd 39
customXmlConflictDelRangeStart 39
customXmlConflictInsRangeEnd 39
customXmlConflictInsRangeStart 39
dataBinding 28
defaultImageDpi 40
differentiateMultirowTableHeaders (section 2.3.4 17, section 2.3.6 18)
discardImageEditingData 40
docId (CT_Guid) 28
docID (CT_LongHexNumber) 40
doNotFlipMirrorIndents 16
enableOpenTypeFeatures 16
entityPicker 41
glow 42
ligatures 42
numForm 43
numSpacing 43
overrideTableStyleFontSizeAndJustification (section 2.3.1 15, section 2.3.2 16)
people 29
props3d 43
reflection 43
repeatingSection 29
repeatingSectionItem 30
scene3d 44
shadow 44
stylisticSets 44
textFill 45
textOutline 45
webExtensionCreated 30
webExtensionLinked 30
enableOpenTypeFeatures element 16
entityPicker element 41

Examples
Glowing Text 91
Stylistic Sets 91

Extensions
del element 14
ins element 14
numFmt element 19
object element 14
p element 14
pct element 14
ppr element 15
r element 15
restartNumberingAfterBreak attribute 15
rPr element 13
sdtPr element 14
sectPr element 15
Settings element 13
tr element 14

f
Fields - vendor-extensible 12
Full XML schema 94

G
Glossary 9
glow element 42
Glowing Text example 91

I
Implementer - security considerations 93
Informative references 10
Introduction 9

L
ligatures element 42
Localization 12

N
Normative references 10
noSpellErr attribute 45
Numbering definition extensions 15
numFmt extensions 19
numForm element 43
numSpacing element 43

O
object extensions 14
overrideTableStyleFontSizeAndJustification element
(section 2.3.1 15, section 2.3.2 16)
Overview (synopsis) 11

P
p extensions 14
paraId attribute 46
people element 29
people part 13
pict extensions 14
pPr extensions 15
Product behavior 106
props3d element 43

R
r extensions 15
References 9
ininformative 10
normative 10
reflection element 43
Relationship to protocols and other structures 11
repeatingSection element 29
repeatingSectionItem element 30
rPr extensions 13

S
scene3d element 44
sdtPr extensions 14
sectPr extensions 15
Security
implementer considerations 93
index of security fields 93
Settings extensions 13
shadow element 44
Simple types
ST_BevelPresetType 67
ST_CompoundLine 68
ST_Ligatures 69
ST_LightRigDirection 70
ST_LightRigType 71
ST_LineCap 73
ST_NumForm 73
ST_NumSpacing 74
ST_OnOff 74
ST_PenAlignment 75
ST_PresetCameraType 76
ST_PresetLineDashVal 79
ST_PresetMaterialType 80
ST_RectAlignment 81
ST_SchemeColorVal 82
ST_SdtAppearance 36
ST_BevelPresetType simple type 67
ST_CompoundLine simple type 68
ST_Ligatures simple type 69
ST_LightRigDirection simple type 70
ST_LightRigType simple type 71
ST_LineCap simple type 73
ST_NumForm simple type 73
ST_NumSpacing simple type 74
ST_OnOff simple type 74
ST_PenAlignment simple type 75
ST_PresetCameraType simple type 76
ST_PresetLineDashVal simple type 79
ST_PresetMaterialType simple type 80
ST_RectAlignment simple type 81
ST_SchemeColorVal simple type 82
ST_SdtAppearance simple type 36

Structures
anchorId attribute 45
appearance element 26
calendar type extensions 14
chartTrackingRefBased element 26
checkbox element 36
cntxtAlts element 37
collapsed element 27
color element 27
commentsEx element 28
commentsExExtended 13
commentsExExtensible 13
commentsExtensible element 87
commentsIds 13
commentsIds element 85
compatibilityMode element 17
compatSetting elements 15
conflict extensions 14
cconflictDel element (CT_RunTrackChange) 37
cconflictDel element (CT_TrackChange) 37
conflictIns element (CT_RunTrackChange) 38
conflictIns element (CT_TrackChange) 38
conflictMode element 38
CT_Bevel complex type 46
CT_Camera complex type 47
CT_Color complex type 47
CT_CommentEx complex type 31
CT_CommentExtensible complex type 88
CT_CommentId complex type 85
CT_CommentsEx complex type 32
CT_CommentsExtensible complex type 88
CT_CommentsIds complex type 86
CT_DefaultImageDpi complex type 48
CT_Extension complex type 86
CT_ExtensionList complex type 87
CT_FillTextEffect complex type 48
CT_Glow complex type 49
CT_GradientFillProperties complex type 49
CT_GradientStop complex type 51
CT_Ligatures complex type 51
CT_LightRig complex type 51
CT_LineJoinMiterProperties complex type 52
CT_LongHexString complex type 52
CT_NumForm complex type 53
CT_NumSpacing complex type 54
CT_OnOff complex type 54
CT_PenAlignment complex type 54

113 / 114
[MS-DOCX] - v20210422
Word Extensions to the Office Open XML (.docx) File Format
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CT_People complex type 33
CT_Percentage complex type 55
CT_Person complex type 33
CT_PositiveFixedPercentage complex type 55
CT_PositivePercentage complex type 56
CT_PresenceInfo complex type 34
CT_PresetLineDashProperties complex type 56
CT_Props3D complex type 57
CT_RelativeRect complex type 57
CT_Scene3D complex type 59
CT_SolidColorFillProperties complex type 63
CT_SRgbColor complex type 64
CT_StyleSet complex type 65
CT_StylisticSets complex type 65
CT_TextOutlineEffect complex type 66
customXmlConflictDelRangeEnd element 39
customXmlConflictDelRangeStart element 39
customXmlConflictInsRangeEnd element 39
customXmlConflictInsRangeStart element 39
dataBinding element 28
defaultImageDpi element 40
differentiateMultirowTableHeaders element (section 2.3.4, 17, section 2.3.6 18)
discardImageEditingData element 40
docId element (CT_Guid) 28
docID element (CT_LongHexNumber) 40
doNotFlipMirrorIndents element 16
enableOpenTypeFeatures element 16
entityPicker element 41
glow element 42
ligatures element 42
noSpellErr attribute 45
numForm element 43
numSpacing element 43
object extensions 14
overrideTableStyleFontSizeAndJustification element (section 2.3.3, 15, section 2.3.2 16)
p extensions 14
paraId attribute 46
people 13
people element 29
pict extensions 14
props3D element 43
r extensions 15
reflection element 43
repeatingSection element 29
repeatingSectionItem element 30
rPr extensions 13
scene3D element 44
sdtPr extensions 14
sectPr extensions 15
Settings extensions 13
shadow element 44
ST_BevelPresetType simple type 67
ST_CompoundLine simple type 68
ST_Ligatures simple type 69
ST_LightRigDirection simple type 70
ST_LightRigType simple type 71
ST_LineCap simple type 73
ST_NumForm simple type 73
ST_NumSpacing simple type 74
ST_OnOff simple type 74
ST_PathShadeType simple type 75
ST_PenAlignment simple type 75
ST_PresetCameraType simple type 76
ST_PresetLineDashVal simple type 79
ST_PresetMaterialType simple type 80
ST_RectAlignment simple type 81
ST_SchemeColorVal simple type 82
ST_SdAppearance simple type 38
stylesWithEffects 13
stylisticSets element 44
textFill element 45
textId attribute 46
textOutline element 45
trackingChanges 109

V

Vendor-extensible fields 12
Versioning 12

W

webExtensionCreated element 30
webExtensionLinked element 30

X

XML schema 94