[MS-DOCX]:

Word Extensions to the Office Open XML (.docx) File Format

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Revision Summary

Date	Revision History	Revision Class	Comments
7/13/2009	0.1	Major	Initial Availability
8/28/2009	0.2	Major	Updated and revised the technical content
11/6/2009	0.3	Editorial	Revised and edited the technical content
2/19/2010	1.0	Major	Updated and revised the technical content
3/31/2010	1.01	Editorial	Revised and edited the technical content
4/30/2010	1.02	Editorial	Revised and edited the technical content
6/7/2010	1.03	Editorial	Revised and edited the technical content
6/29/2010	1.04	Editorial	Changed language and formatting in the technical content.
7/23/2010	1.04	None	No changes to the meaning, language, or formatting of the technical content.
9/27/2010	1.04	None	No changes to the meaning, language, or formatting of the technical content.
11/15/2010	1.04	None	No changes to the meaning, language, or formatting of the technical content.
12/17/2010	1.05	Minor	Clarified the meaning of the technical content.
3/18/2011	1.05	None	No changes to the meaning, language, or formatting of the technical content.
6/10/2011	1.05	None	No changes to the meaning, language, or formatting of the technical content.
1/20/2012	2.0	Major	Significantly changed the technical content.
4/11/2012	2.0	None	No changes to the meaning, language, or formatting of the technical content.
7/16/2012	3.0	Major	Significantly changed the technical content.
10/8/2012	3.0	None	No changes to the meaning, language, or formatting of the technical content.
2/11/2013	3.0	None	No changes to the meaning, language, or formatting of the technical content.
7/30/2013	3.0	None	No changes to the meaning, language, or formatting of the technical content.
11/18/2013	3.1	Minor	Clarified the meaning of the technical content.
2/10/2014	3.2	Minor	Clarified the meaning of the technical content.
4/30/2014	4.0	Major	Significantly changed the technical content.
7/31/2014	4.1	Minor	Clarified the meaning of the technical content.
10/30/2014	4.1	None	No changes to the meaning, language, or formatting of the technical content.

Date	Revision History	Revision Class	Comments
3/16/2015	5.0	Major	Significantly changed the technical content.
9/4/2015	6.0	Major	Significantly changed the technical content.
7/15/2016	6.1	Minor	Clarified the meaning of the technical content.
9/22/2016	7.0	Major	Significantly changed the technical content.
12/15/2016	8.0	Major	Significantly changed the technical content.
9/5/2017	9.0	Major	Significantly changed the technical content.
12/12/2017	9.1	Minor	Clarified the meaning of the technical content.
4/27/2018	10.0	Major	Significantly changed the technical content.
8/28/2018	11.0	Major	Significantly changed the technical content.
12/11/2018	11.1	Minor	Clarified the meaning of the technical content.
3/19/2019	11.1	None	No changes to the meaning, language, or formatting of the technical content.
9/24/2019	12.0	Major	Significantly changed the technical content.
11/19/2019	12.1	Minor	Clarified the meaning of the technical content.
2/19/2020	13.0	Major	Significantly changed the technical content.
8/18/2020	14.0	Major	Significantly changed the technical content.
2/16/2021	14.1	Minor	Clarified the meaning of the technical content.
3/22/2021	15.0	Major	Significantly changed the technical content.
4/22/2021	16.0	Major	Significantly changed the technical content.
8/17/2021	17.0	Major	Significantly changed the technical content.
3/4/2022	18.0	Major	Significantly changed the technical content.
8/16/2022	18.1	Minor	Clarified the meaning of the technical content.
3/3/2023	18.1	None	No changes to the meaning, language, or formatting of the technical content.
6/16/2023	19.0	Major	Significantly changed the technical content.
8/15/2023	19.1	Minor	Clarified the meaning of the technical content.
2/20/2024	19.1	None	No changes to the meaning, language, or formatting of the technical content.
4/16/2024	20.0	Major	Significantly changed the technical content.
8/20/2024	21.0	Major	Significantly changed the technical content.

Table of Contents

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 has to be used instead.

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

EntityInstance: 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.

EntityInstanceId: A set of Field values of an EntityInstance that collectively and uniquely identify an EntityInstance 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 EntityInstanceId. 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.

LobSystemInstance: 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.

[ECMA-376] ECMA International, "Office Open XML File Formats", https://www.ecma-international.org/publications-and-standards/standards/ecma-376/

[ISO/IEC-14496-22] International Organization for Standardization, "Information technology -- Coding of audio-visual objects -- Part 22: Open Font Format", 2007, http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=43466

[ISO/IEC29500-1:2016] ISO/IEC, "Information technology -- Document description and processing languages -- Office Open XML File Formats -- Part 1: Fundamentals and Markup Language Reference", ISO/IEC 29500-1:2016, https://www.iso.org/standard/71691.html

[ISO/IEC29500-3:2015] ISO/IEC, "Information technology -- Document description and processing languages -- Office Open XML File Formats -- Part 3: Markup Compatibility and Extensibility", https://www.iso.org/standard/65533.html

[ISO/IEC29500-4:2016] ISO/IEC, "Information technology -- Document description and processing languages -- Office Open XML File Formats -- Part 4: Transitional Migration Features", https://www.iso.org/standard/71692.html

[MS-DOC] Microsoft Corporation, "Word (.doc) Binary File Format".

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

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

[MS-OREACTXML] Microsoft Corporation, "Office Reaction Extensions to Office Open XML Structure".

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

[MS-OWEXML] Microsoft Corporation, "Office Web Extensibility Extensions to Office Open XML Structure Specification".

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, https://www.rfc-editor.org/info/rfc2119

[RFC3986] Berners-Lee, T., Fielding, R., and Masinter, L., "Uniform Resource Identifier (URI): Generic Syntax", STD 66, RFC 3986, January 2005, https://www.rfc-editor.org/info/rfc3986

[XMLSCHEMA1/2] Thompson, H., Beech, D., Maloney, M., and Mendelsohn, N., Eds., "XML Schema Part 1: Structures Second Edition", W3C Recommendation, October 2004, https://www.w3.org/TR/2004/REC-xmlschema-1-20041028/

[XMLSCHEMA2/2] Biron, P., and Malhotra, A., Eds., "XML Schema Part 2: Datatypes Second Edition", W3C Recommendation, October 2004, https://www.w3.org/TR/2004/REC-xmlschema-2-20041028/

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

This section specifies the elements from [ISO/IEC29500-1:2016] that are extended by this format. Either the **Ignorable** attribute ([ISO/IEC29500-3:2015] section 7.2), **AlternateContent** element ([ISO/IEC29500-3:2015] section 7.5), or **extLst** element (section 2.9.3.2) MUST be used to maintain compatibility with [ISO/IEC29500-1:2016] implementations.

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

Any **sdtPr** element specified in [ISO/IEC29500-1:2016] section 17.5.2.38 is extended by the addition of one of the following elements: entityPicker, checkbox, repeatingSection, repeatingSectionItem, appearance, color, dataBinding, webExtensionsLinked, webExtensionCreated. 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).

2.2.4 p and tr Extensions

Any **p** element (as specified in [ISO/IEC29500-1:2016] section 17.3.1.22) 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 17.3.1.22) is extended by the addition of the following attribute: noSpellErr. To maintain compatibility with ISO/IEC-29500 implementations, the attribute'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 17.13.5.15) 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** (as specified in [ISO/IEC29500-1:2016] section 17.13.5.4) element, or a parent of a **customXmlDelRangeStart** (as specified in [ISO/IEC29500-1:2016] section 17.13.5.5) element, or a parent of a **customXmlInsRangeEnd** (as specified in [ISO/IEC29500-1:2016] section 17.13.5.6), or a parent of a **customXmlInsRangeStart** (as specified in [ISO/IEC29500-1:2016] section 17.13.5.7) 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

The **object** element specified in [ISO/IEC29500-1:2016] section 17.3.3.19 and the **pict** element specified in [ISO/IEC29500-4:2016] section 14.6.1 are extended by the addition of the **anchorId** attribute. To maintain compatibility with ISO/IEC-29500 implementations, the attribute's namespace prefix MUST be specified in an **Ignorable** attribute ([ISO/IEC29500-3:2015] section 7.2).

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/IEC29500 implementations, the prefix of the attribute namespace MUST be specified in an **Ignorable** attribute ([ISO/IEC29500-3:2015] section 7.2).

2.2.13 commentsExtensible Extensions

The **extLst** (section 2.9.3.2) child element of the **commentExtensible** (section 2.10.3.1) element is extended by the addition of a new child **ext** element (section 2.9.3.1) whose structure is specified in the following table.

Ext URI	Child element
{CE6994B0-6A32-4C9F-8C6B-6E91EDA988CE}	reactions[11] (as specified in [MS-OREACTXML] section 2.1.1.1)

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 [ISO/IEC29500-1:2016] section 17.7.2.

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.

Attribute	Value
name	overrideTableStyleFontSizeAndJustification
uri	http://schemas.microsoft.com/office/word
val	An **ST_OnOff** attribute that specifies whether to apply the additional preceding rules when determining the font size and justification of text within tables.

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.

Attribute	Value
name	doNotFlipMirrorIndents
uri	http://schemas.microsoft.com/office/word
val	An **ST_OnOff** attribute that specifies whether to swap indentation values when displaying paragraphs.

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.

Attribute	Value
name	enableOpenTypeFeatures
uri	http://schemas.microsoft.com/office/word
val	An **ST_OnOff** attribute that specifies whether the preceding features are to be used when displaying the font.

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.

Attribute	Value
name	differentiateMultirowTableHeaders
uri	http://schemas.microsoft.com/office/word
val	An **ST_OnOff** attribute that specifies the formatting method to use as specified above.

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.

Attribute	Value
name	compatibilityMode
uri	http://schemas.microsoft.com/office/word
val	An **ST_UnsignedDecimalNumber** (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: **11**: Use features specified in [MS-DOC]. **12**: Use word processing features specified in [ECMA-376]. This is the default. **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). **15**: Use word processing features specified in [ISO/IEC29500-1:2016] and [ISO/IEC29500-4:2016] as well as those specified in this document.

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.

Attribute	Value
name	allowTextAfterFloatingTableBreak
uri	http://schemas.microsoft.com/office/word
val	An **ST_OnOff** attribute that specifies the formatting method to use as specified above.

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.

Attribute	Value
name	allowHyphenationAtTrackBottom
uri	http://schemas.microsoft.com/office/word
val	An **ST_OnOff** attribute that specifies whether a hyphenated word is allowed to end a page or column.

2.3.8 useWord2013TrackBottomHyphenation

A **compatSetting** element<16> 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.

Attribute	Value
name	useWord2013TrackBottomHyphenation
uri	http://schemas.microsoft.com/office/word
val	An **ST_OnOff** attribute that specifies whether the method to use to avoid having hyphenated word at the bottom of page or column.

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.

String	Attribute value
U+FF71, U+FF72, U+FF73, ...	**aiueo**
U+30A2, U+30A4, U+30A6, ...	**aiueoFullWidth**
U+0623, U+0628, U+062C, ...	**arabicAbjad**
U+0623, U+0628, U+062A, ...	**arabicAlpha**
One, Two, Three, ...	**cardinalText**
U+002A, U+2020, U+2021, ...	**chicago**
U+4E00, U+5341, U+4E00U+25CBU+25CB(U+7B80), ...	**chineseCounting**
U+4E00, U+5341, U+4E00U+767E(U+7B80), ...	**chineseCountingThousand**
U+58F9, U+8D30, U+53C1, ...	**chineseLegalSimplified**
U+3131, U+3134, U+3137, ...	**chosung**
U+0031	**decimal**
U+2460, U+2461, U+2462, ...	**decimalEnclosedCircle**
U+2488, U+2489, U+248A, ...	**decimalEnclosedFullstop**
U+2474, U+2475, U+2476, ...	**decimalEnclosedParen**
U+FF11, U+FF12, U+FF13, ...	**decimalFullWidth**
U+0030U+0031, U+0030U+0032, U+0030U+0033, ...	**decimalZero**
U+AC00, U+B098, U+B2E4, ...	**ganada**
U+05D0, U+05D9, U+05E7, ...	**hebrew1**
U+05D0, U+05D1, U+05D2, ...	**hebrew2**
U+0031, U+0041, U+0042, ...	**hex**
U+0905, U+0906, U+0907, ...	**hindiConsonants**
U+090FU+0915, U+0926U+094B, U+0924U+0940U+0928, ...	**hindiCounting**
U+0967, U+0968, U+0969, ...	**hindiNumbers**
U+0915, U+0916, U+0917, ...	**hindiVowels**
U+4E00, U+4E00U+3007, U+4E00U+3007U+3007, ...	**ideographDigital**
U+3220, U+3221, U+3222, ...	**ideographEnclosedCircle**

String	Attribute value
U+58F9, U+8CB3, U+53C3, ...	**ideographLegalTraditional**
U+7532, U+4E59, U+4E19, ...	**ideographTraditional**
U+5B50, U+4E11, U+5BC5, ...	**ideographZodiac**
U+7532U+5B50, U+4E59U+4E11, U+4E19U+5BC5, ...	**ideographZodiacTraditional**
U+FF72, U+FF9B, U+FF8A, ...	**iroha**
U+30A4, U+30ED, U+30CF, ...	**irohaFullWidth**
U+4E00, U+4E8C, U+4E09, ...	**japaneseCounting**
U+4E00, U+4E8C, U+4E09, U+4E07, ...	**japaneseDigitalTenThousand**
U+58F1, U+5F10, U+53C2, ...	**japaneseLegal**
U+C77C, U+C774, U+C0BC, ...	**koreanCounting**
U+C77C, U+C77CU+C601, U+C77CU+C601U+C601, ...	**koreanDigital**
U+4E00, U+4E00U+96F6, U+4E00U+96F6U+96F6, ...	**koreanDigital2**
U+D558U+B098, U+B458, U+C14B, ...	**koreanLegal**
U+0061	**lowerLetter**
U+0069	**lowerRoman**
[Empty string]	**none**
- 1 -, - 2 -, - 3 -, ...	**numberInDash**
1st, 2nd, 3rd, ...	**ordinal**
First, Second, Third, ...	**ordinalText**
U+0430, U+0431, U+0432, ...	**russianLower**
U+0410, U+0411, U+0412, ...	**russianUpper**
U+4E00, U+5341, U+4E00U+25CBU+25CB(U+7E41), ...	**taiwaneseCounting**
U+4E00, U+5341, U+4E00U+767E(U+7E41), ...	**taiwaneseCountingThousand**
U+4E00, U+4E00U+25CB, U+4E00U+25CBU+25CB(U+7E41), ...	**taiwaneseDigital**
U+0E2BU+0E19U+0E36U+0E48U+0E07, U+0E2AU+0E2DU+0E07, U+0E2AU+0E32U+0E21, ...	**thaiCounting**
U+0E01, U+0E02, U+0E04, ...	**thaiLetters**
U+0E51, U+0E52, U+0E53, ...	**thaiNumbers**
U+0041	**upperLetter**
U+0049	**upperRoman**
U+006DU+00F4U+0323U+0074, U+0068U+0061U+0069, U+0062U+0061, ...	**vietnameseCounting**

Furthermore, the following table specifies the sequence for additional values of the **format** attribute.

String	Description
U+0041, U+00C7, U+011C, ...	Specifies that the sequence MUST consist of uppercase 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+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+00F6, 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.
U+0410, U+0419, U+041A, ...	Specifies that the sequence MUST consist of uppercase Bulgarian 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+0410-U+042A, U+042E, U+042F, 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+0430, U+0439, U+043A, ...	Specifies that the sequence MUST consist of lowercase Bulgarian 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+0430-U+044A, U+044E, U+044F, 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+0391, U+0392, U+0393, ...	Specifies that the sequence MUST consist of uppercase Greek alphabet. 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+03A0, U+03DE), and a set of characters that represent 100, 200, 300, …, 900 (U+03A1, U+03A3-U+03A9, U+03E0). 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. 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 paragraph to determine the hundreds, tens, and units. Position those characters to the right of the thousands position. 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.
U+03B1, U+03B2, U+03B3, ...	Specifies that the sequence MUST consist of lowercase Greek alphabet. 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). 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.

	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 preceding paragraph to determine the hundreds, tens, and units. Position those characters to the right of the thousands position. 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.
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<17> 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.

```
<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<18> 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 **datalabels** ([MS-ODRAWXML] section 2.2.1.2) in all charts ([ISO/IEC29500-1:2016] section 21.2) in this document behave.

Value	Meaning
True	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.
False	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.

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

```
<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.

```
<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.

```
<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<21> 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.

```
<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<22> 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.

```
<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<23> 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.

```
<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-OWEXML] 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/IEC29500-1:2016].

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.

```
<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<30> 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.

```
<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<31> 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.

```
<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<32> 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.

```
<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.

```
<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<33> 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.

```
<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<34> 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<35> 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.

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

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

```
<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<38> 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.

```
<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<39> 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.

```
<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.8.9).

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

```
<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)

Value	Meaning
boundingBox	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.
tags	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.
hidden	Specifies that there is no visual indication of the structured document tag.

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

```
<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.

```
<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 cntxtAlts

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.

```
<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<41> 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.

```
<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<42> 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.

```
<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<43> 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.

```
<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<44> 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.

```
<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.

```
<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.

```
<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.

```
<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.

```
<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.

```
<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:

SystemInstance: 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 EntityInstance 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.

```
<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.

```
<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].) 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.

```
<xsd:element name="ligatures" minOccurs="0" type="CT_Ligatures"/>
```

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.

```
<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.

```
<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.

```
<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.

```
<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_Scene3D 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.

```
<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.

```
<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.

```
<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.

```
<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.

```
<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.

```
<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.

```
<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.

```
<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.

```
<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<49> 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<50> 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.

```
<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<51>.

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

```
<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.

```
<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.

```
<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.

```
<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:

pos: A **ST_PositiveFixedPercentage** as specified in [ISO/IEC29500-4:2016] section 17.2.2.3 and [ISO/IEC29500-1:2016] section 20.1.10.45 that specifies where this gradient stop appears in the color band.

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

```
<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 ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```
<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 ([XMLSCHEMA1/2] 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 ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```
<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 ([XMLSCHEMA1/2] 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.

```
<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.

```
<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

Referenced by: CT_TextOutlineEffect

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 17.2.2.4 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.

```
<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.

```
<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.

```
<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.

```
<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:

val: An **ST_Percentage** as specified in [ISO/IEC29500-4:2016] section 17.2.2.2 and [ISO/IEC29500-1:2016] section 20.1.10.40 that specifies the value.

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:

val: An **ST_PositiveFixedPercentage** as specified in [ISO/IEC29500-4:2016] section 17.2.2.3 and [ISO/IEC29500-1:2016] section 20.1.10.45 that specifies the value.

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

```
<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:

val: An **ST_PositivePercentage** as specified in [ISO/IEC29500-4:2016] section 17.2.2.4 and [ISO/IEC29500-1:2016] section 20.1.10.46 that specifies the value.

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

```
<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.

```
<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<53> 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<54> 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.

```
<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.

stA: An optional **ST_PositiveFixedPercentage** (as specified in [ISO/IEC29500-4:2016] section 17.2.2.3 and [ISO/IEC29500-1:2016] section 20.1.10.45) that specifies the starting reflection opacity. stA stands for Start Alpha. The default value for this attribute is 0.

stPos: An optional **ST_PositiveFixedPercentage** (as specified in [ISO/IEC29500-4:2016] section 17.2.2.3 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.

endA: An optional **ST_PositiveFixedPercentage** (as specified in [ISO/IEC29500-4:2016] section 17.2.2.3 and [ISO/IEC29500-1:2016] section 20.1.10.45) that specifies the ending reflection opacity. endA stands for End Alpha. The default value for this attribute is 0.

endPos: An optional **ST_PositiveFixedPercentage** (as specified in [ISO/IEC29500-4:2016] section 17.2.2.3 and [ISO/IEC29500-1:2016] section 20.1.10.45) that specifies the end position along the gradient ramp of the end 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.

fadeDir: An optional **ST_PositiveFixedAngle** (as specified in [ISO/IEC29500-1:2016] section 20.1.10.44) attribute that specifies the direction of the alpha gradient ramp relative to the text. The default value for this attribute is 0.

sx: An optional **ST_Percentage** (as specified in [ISO/IEC29500-4:2016] section 17.2.2.2 and [ISO/IEC29500-1:2016] section 20.1.10.40) that specifies the horizontal scale factor. The default value for this attribute is 0.

sy: An optional **ST_Percentage** (as specified in [ISO/IEC29500-4:2016] section 17.2.2.2 and [ISO/IEC29500-1:2016] section 20.1.10.40) that specifies the vertical scale factor. 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 reflection alignment. The default value for this attribute is "none".

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="ST_RectAlignment"/>
</xsd:complexType>
```

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

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 17.2.2.2 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 17.2.2.2 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 17.2.2.2 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.

b: An optional **ST_Percentage** as specified in [ISO/IEC29500-4:2016] section 17.2.2.2 and [ISO/IEC29500-1:2016] section 20.1.10.40 that specifies the bottom 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.

```
<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.

```
<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.

```
<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.

```
<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<57> 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<58> 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 17.2.2.2 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 17.2.2.2 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 ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```
<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 ([XMLSCHEMA1/2] 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 ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```
<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 ([XMLSCHEMA1/2] 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.

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

rev: An **ST_PositiveFixedAngle** (as specified in [ISO/IEC29500-1:2016] section 20.1.10.44) attribute that specifies the revolution around the central axis.

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

```
<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.

```
<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.

algn: 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.

```
<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="algn" 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.

Value	Meaning
relaxedInset	Relaxed Inset type of bevel.
circle	Circle type of bevel.
slope	Slope type of bevel.
cross	Cross type of bevel.

Value	Meaning
angle	Angle type of bevel.
softRound	Soft Round type of bevel.
convex	Convex type of bevel.
coolSlant	Cool Slant type of bevel.
divot	Divot type of bevel.
riblet	Riblet type of bevel.
hardEdge	Hard Edge type of bevel.
artDeco	Art Deco type of bevel.

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

```
<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.

Value	Meaning
sng	Single line: one normal width.
dbl	Double lines of equal width.
thickThin	Double lines: one thick, one thin.
thinThick	Double lines: one thin, one thick.

Value	Meaning
tri	Three lines: thin, thick, thin.

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

```
<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.

Value	Meaning
none	Specifies that the text is not displayed using ligatures.
standard	Specifies that the text is displayed using standard ligatures if they are supported by the font.
contextual	Specifies that the text is displayed using contextual ligatures if they are supported by the font.
historical	Specifies that the text is displayed using historical ligatures if they are supported by the font.
discretional	Specifies that the text is displayed using discretional ligatures if they are supported by the font.
standardContextual	Specifies that the text is displayed using standard and contextual ligatures if they are supported by the font.
standardHistorical	Specifies that the text is displayed using standard and historical ligatures if they are supported by the font.
contextualHistorical	Specifies that the text is displayed using contextual and historical ligatures if they are supported by the font.
standardDiscretional	Specifies that the text is displayed using standard and discretional ligatures if they are supported by the font.
contextualDiscretional	Specifies that the text is displayed using contextual and discretional ligatures if

Value	Meaning
	they are supported by the font.
historicalDiscretional	Specifies that the text is displayed using historical and discretional ligatures if they are supported by the font.
standardContextualHistorical	Specifies that the text is displayed using standard, contextual, and historical ligatures if they are supported by the font.
standardContextualDiscretional	Specifies that the text is displayed using standard, contextual, and discretional ligatures if they are supported by the font.
standardHistoricalDiscretional	Specifies that the text is displayed using standard, historical, and discretional ligatures if they are supported by the font.
contextualHistoricalDiscretional	Specifies that the text is displayed using contextual, historical, and discretional ligatures if they are supported by the font.
all	Specifies that the text is displayed using standard, historical, discretional, and contextual ligatures if they are supported by the font.

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.

Value	Meaning
tl	Top Left: Light rig is positioned at the top-left of the scene.
t	Top: Light rig is positioned at the top of the scene.
tr	Top Right: Light rig is positioned at the top-right of the scene.
l	Left: Light rig is positioned to the left of the scene.
r	Right: Light rig is positioned to the right of the scene.
bl	Bottom Left: Light rig is positioned at the bottom left of the scene.
b	Bottom: Light rig is positioned at the bottom of the scene.
br	Bottom Right: Light rig is positioned at the bottom right of the scene.

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.

Value	Meaning
legacyFlat1	Legacy Flat 1.
legacyFlat2	Legacy Flat 2.
legacyFlat3	Legacy Flat 3.

Value	Meaning
legacyFlat4	Legacy Flat 4.
legacyNormal1	Legacy Normal 1.
legacyNormal2	Legacy Normal 2.
legacyNormal3	Legacy Normal 3.
legacyNormal4	Legacy Normal 4.
legacyHarsh1	Legacy Harsh 1.
legacyHarsh2	Legacy Harsh 2.
legacyHarsh3	Legacy Harsh 3.
legacyHarsh4	Legacy Harsh 4.
threePt	Three Point.
balanced	Balanced.
soft	Soft.
harsh	Harsh.
flood	Flood.
contrasting	Contrasting.
morning	Morning.
sunrise	Sunrise.
sunset	Sunset.
chilly	Chilly.
freezing	Freezing.
flat	Flat.
twoPt	Two Point.
glow	Glow.
brightRoom	Bright Room.

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

```
<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.

Value	Meaning
rnd	Rounded ends. Semi-circle protrudes by half line width.
sq	Square protrudes by half line width.
flat	Line ends at endpoint.

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

```
  <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].

Value	Meaning
default	Numerals are displayed in the font's default form.
lining	Lining numerals are displayed if the font supports them.
oldStyle	Oldstyle numerals are displayed if the font supports them.

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

```
<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.

Value	Meaning
default	Specifies that numerals are displayed in the font's default form.
proportional	Specifies that the forms of the numerals designed as proportionally spaced are displayed if supported by the font.
tabular	Specifies that the forms of the numerals designed as tabular are displayed if supported by the font.

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

```
<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.

Value	Meaning
true	Specifies the value is true.
false	Specifies the value is false.
0	Specifies the value is false.
1	Specifies the value is true.

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

```
<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.

Value	Meaning
shape	Gradient follows a shape path.
circle	Gradient follows a circular path.

Value	Meaning
rect	Gradient follows a rectangular path.

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

```
<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.

Value	Meaning
ctr	Center pen. The line is drawn at the center of the path stroke.
in	Inset pen. The pen is aligned along the inside of the path.

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

```
<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.

Value	Meaning
legacyObliqueTopLeft	Legacy Oblique Top Left.
legacyObliqueTop	Legacy Oblique Top.
legacyObliqueTopRight	Legacy Oblique Top Right.
legacyObliqueLeft	Legacy Oblique Left.
legacyObliqueFront	Legacy Oblique Front.
legacyObliqueRight	Legacy Oblique Right.
legacyObliqueBottomLeft	Legacy Oblique Bottom Left.
legacyObliqueBottom	Legacy Oblique Bottom.
legacyObliqueBottomRight	Legacy Oblique Bottom Right.
legacyPerspectiveTopLeft	Legacy Perspective Top Left.
legacyPerspectiveTop	Legacy Perspective Top.
legacyPerspectiveTopRight	Legacy Perspective Top Right.
legacyPerspectiveLeft	Legacy Perspective Left.
legacyPerspectiveFront	Legacy Perspective Front.
legacyPerspectiveRight	Legacy Perspective Right.
legacyPerspectiveBottomLeft	Legacy Perspective Bottom Left.
legacyPerspectiveBottom	Legacy Perspective Bottom.
legacyPerspectiveBottomRight	Legacy Perspective Bottom Right.
orthographicFront	Orthographic Front.
isometricTopUp	Isometric Top Up.
isometricTopDown	Isometric Top Down.
isometricBottomUp	Isometric Bottom Up.
isometricBottomDown	Isometric Bottom Down.
isometricLeftUp	Isometric Left Up.
isometricLeftDown	Isometric Left Down.
isometricRightUp	Isometric Right Up.
isometricRightDown	Isometric Right Down.
isometricOffAxis1Left	Isometric Off Axis 1 Left.
isometricOffAxis1Right	Isometric Off Axis 1 Right.
isometricOffAxis1Top	Isometric Off Axis 1 Top.

Value	Meaning
isometricOffAxis2Left	Isometric Off Axis 2 Left.
isometricOffAxis2Right	Isometric Off Axis 2 Right.
isometricOffAxis2Top	Isometric Off Axis 2 Top.
isometricOffAxis3Left	Isometric Off Axis 3 Left.
isometricOffAxis3Right	Isometric Off Axis 3 Right.
isometricOffAxis3Bottom	Isometric Off Axis 3 Bottom.
isometricOffAxis4Left	Isometric Off Axis 4 Left.
isometricOffAxis4Right	Isometric Off Axis 4 Right.
isometricOffAxis4Bottom	Isometric Off Axis 4 Bottom.
obliqueTopLeft	Oblique Top Left.
obliqueTop	Oblique Top.
obliqueTopRight	Oblique Top Right.
obliqueLeft	Oblique Left.
obliqueRight	Oblique Right.
obliqueBottomLeft	Oblique Bottom Left.
obliqueBottom	Oblique Bottom.
obliqueBottomRight	Oblique Bottom Right.
perspectiveFront	Perspective Front.
perspectiveLeft	Perspective Left.
perspectiveRight	Perspective Right.
perspectiveAbove	Perspective Above.
perspectiveBelow	Perspective Below.
perspectiveAboveLeftFacing	Perspective Above Left Facing.
perspectiveAboveRightFacing	Perspective Above Right Facing.
perspectiveContrastingLeftFacing	Perspective Contrasting Left Facing.
perspectiveContrastingRightFacing	Perspective Contrasting Right Facing.
perspectiveHeroicLeftFacing	Perspective Heroic Left Facing.
perspectiveHeroicRightFacing	Perspective Heroic Right Facing.
perspectiveHeroicExtremeLeftFacing	Perspective Heroic Extreme Left Facing.
perspectiveHeroicExtremeRightFacing	Perspective Heroic Extreme Right Facing.
perspectiveRelaxed	Perspective Relaxed.
perspectiveRelaxedModerately	Perspective Relaxed Moderately.

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

```
<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="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:enumeration value="isometricRightUp"/>
    <xsd:enumeration value="isometricRightDown"/>
    <xsd:enumeration value="isometricOffAxis1Left"/>
    <xsd:enumeration value="isometricOffAxis1Right"/>
    <xsd:enumeration value="isometricOffAxis1Top"/>
    <xsd:enumeration value="isometricOffAxis2Left"/>
    <xsd:enumeration value="isometricOffAxis2Right"/>
    <xsd:enumeration value="isometricOffAxis2Top"/>
    <xsd:enumeration value="isometricOffAxis3Left"/>
    <xsd:enumeration value="isometricOffAxis3Right"/>
    <xsd:enumeration value="isometricOffAxis3Bottom"/>
    <xsd:enumeration value="isometricOffAxis4Left"/>
    <xsd:enumeration value="isometricOffAxis4Right"/>
    <xsd:enumeration value="isometricOffAxis4Bottom"/>
    <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="perspectiveAboveLeftFacing"/>
    <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>
```

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.

Value	Meaning
solid	
dot	
sysDot	
dash	
sysDash	
lgDash	
dashDot	
sysDashDot	
lgDashDot	
lgDashDotDot	
sysDashDotDot	

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

```
<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.

Value	Meaning
legacyMatte	Legacy matte.
legacyPlastic	Legacy plastic.
legacyMetal	Legacy metal.
legacyWireframe	Legacy wireframe.
matte	Matte.
plastic	Plastic.
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.

```
<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

Referenced by: CT_Shadow, CT_Reflection

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.

Value	Meaning
none	When other attributes and elements of the parent are "0", a value of "none" sets the parent property to empty. When other attributes are nonzero, a value of "none" is equivalent to "ctr".
tl	Top Left.
t	Top.
tr	Top Right.
l	Left.
ctr	Center.
r	Right.
bl	Bottom Left.
b	Bottom.
br	Bottom Right.

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

```
  <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.

Value	Meaning
bg1	Semantic background color.
tx1	Semantic text color.
bg2	Semantic additional background color.
tx2	Semantic additional text color.
accent1	Extra scheme color 1.
accent2	Extra scheme color 2.
accent3	Extra scheme color 3.
accent4	Extra scheme color 4.
accent5	Extra scheme color 5.
accent6	Extra scheme color 6.
hlink	Regular hyperlink color.
folHlink	Followed hyperlink color.
dk1	Main dark color 1.
lt1	Main light color 1.
dk2	Main dark color 2.
lt2	Main light color 2.
phClr	Style Color. A color used in theme definitions that means to use the color of the style.

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

```
<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 17.3.3.30) 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.

```
<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.

```
<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<59> 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.

```
<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

2.8.2.1 durableId

Target namespace: http://schemas.microsoft.com/office/word/2016/wordml/cid

An **ST_LongHexNumber** (as specified by [ISO/IEC29500-1:2016] section 17.18.50) attribute that specifies the identifier for the associated w:num. Values MUST be greater than 0 and less than 0x7FFFFFFF. Values do not need to be sequential.

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

```
<xsd:attribute name="durableId" type="w12:ST_LongHexNumber"/>
```

See section 5.4 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.8.2.2 durableId

Target namespace: http://schemas.microsoft.com/office/word/2016/wordml/cid

An ST_DecimalNumber (as specified by [ISO/IEC29500-1:2016] section 17.18.10) attribute that specifies the identifier for the associated w:num. Values MUST be greater than 0 and less than 2147483647. Values do not need to be sequential.

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

```
<xsd:attribute name="durableId" type="w12:ST_DecimalNumber" use="optional"/>
```

See section 5.4 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

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<60> 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.

```
<xsd:complexType name="CT_CommentId">
  <xsd:attribute name="paraId" type="w12:ST_LongHexNumber" use="required"/>
  <xsd:attribute name="durableId" type="w12:ST_LongHexNumber" use="required"/>
</xsd:complexType>
```

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.

```
<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.

```
<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.

```
<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.

```
<xsd:complexType name="CT_CommentExtensible">
  <xsd:sequence>
    <xsd:element name="extLst" type="w16:CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
  </xsd:sequence>
  <xsd:attribute name="durableId" type="w12:ST_LongHexNumber" use="required"/>
  <xsd:attribute name="dateUtc" type="w12:ST_DateTime" use="optional"/>
  <xsd:attribute name="intelligentPlaceholder" type="w12:ST_OnOff" use="optional"/>
</xsd: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.

```
<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.

```
<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.

2.12 http://schemas.microsoft.com/office/word/2023/wordml/word16du

2.12.1 Elements

None.

2.12.2 Attributes

2.12.2.1 dateUtc

Target namespace: http://schemas.microsoft.com/office/word/2023/wordml/word16du

An **xsd:dateTime** ([XMLSCHEMA2/2] section 3.2.7) attribute that specifies date information for a tracked change. This attribute is defined to be in the UTC time zone.

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

```
<xsd:attribute name="dateUtc" type="xsd:dateTime"/>
```

See section 5.8 for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.12.3 Complex Types

None.

2.12.4 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.

```
<wd:document
  xmlns:wd="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
  xmlns:w14="http://schemas.microsoft.com/office/word/2010/wordml"
  xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
  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="175000"/>
            </w14:schemeClr>
          </w14:glow>
        </wd:rPr>
        <wd:t>glowing</wd:t>
      </wd:r>
      <wd:r>
        <wd:t xml:space="preserve"> text.</wd:t>
      </wd:r>
    </wd:p>
  </wd:body>
</wd: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.

```
<wd:document
  xmlns:wd="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
  xmlns:w14="http://schemas.microsoft.com/office/word/2010/wordml"
  xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
  mc:Ignorable="w14">
  <wd:body>
    <wd:p>
      <wd:r>
        <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:r>
      </wd:p>
    </wd:body>
  </wd: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.

5 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].

Schema name	Prefix	Section
http://schemas.microsoft.com/office/word/2012/wordml Schema	None.	5.2
http://schemas.microsoft.com/office/word/2016/wordml/cid Schema	None.	5.4
http://schemas.microsoft.com/office/word/2015/wordml/symex Schema	None.	5.3
http://schemas.microsoft.com/office/word/2020/wordml/sdtdatahash Schema	None.	5.7
http://schemas.microsoft.com/office/word/2023/wordml/word16du Schema	None.	5.8
http://schemas.microsoft.com/office/word/2010/wordml Schema	None.	5.1
http://schemas.microsoft.com/office/word/2018/wordml Schema	None.	5.5
http://schemas.microsoft.com/office/word/2018/wordml/cex Schema	None.	5.6

5.1 http://schemas.microsoft.com/office/word/2010/wordml Schema

```
<xsd:schema attributeFormDefault="qualified" blockDefault="#all"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/word/2010/wordml"
xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main"
xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
xmlns:w="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
xmlns:w12="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://schemas.microsoft.com/office/word/2010/wordml">
  <xsd:import schemaLocation="oartbasetypes.xsd"
namespace="http://schemas.openxmlformats.org/drawingml/2006/main"/>
  <xsd:import schemaLocation="oartsplineproperties.xsd"
namespace="http://schemas.openxmlformats.org/drawingml/2006/main"/>
  <xsd:import id="rel" schemaLocation="orel.xsd"
namespace="http://schemas.openxmlformats.org/officeDocument/2006/relationships"/>
  <xsd:import id="w" schemaLocation="word12.xsd"
namespace="http://schemas.openxmlformats.org/wordprocessingml/2006/main"/>
  <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:complexType name="CT_OnOff">
    <xsd:attribute name="val" type="ST_OnOff"/>
  </xsd:complexType>
  <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="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>
<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="lgDashDotDot"/>
    <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_PositiveFixedPercentage"/>
    <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:group name="EG_ShadeProperties">
  <xsd:choice>
    <xsd:element name="lin" type="CT_LinearShadeProperties"/>
    <xsd:element name="path" type="CT_PathShadeProperties"/>
  </xsd:choice>
</xsd:group>
<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="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="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:enumeration value="isometricRightUp"/>
    <xsd:enumeration value="isometricRightDown"/>
    <xsd:enumeration value="isometricOffAxis1Left"/>
    <xsd:enumeration value="isometricOffAxis1Right"/>
    <xsd:enumeration value="isometricOffAxis1Top"/>
    <xsd:enumeration value="isometricOffAxis2Left"/>
    <xsd:enumeration value="isometricOffAxis2Right"/>
    <xsd:enumeration value="isometricOffAxis2Top"/>
    <xsd:enumeration value="isometricOffAxis3Left"/>
    <xsd:enumeration value="isometricOffAxis3Right"/>
    <xsd:enumeration value="isometricOffAxis3Bottom"/>
    <xsd:enumeration value="isometricOffAxis4Left"/>
    <xsd:enumeration value="isometricOffAxis4Right"/>
    <xsd:enumeration value="isometricOffAxis4Bottom"/>
    <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="perspectiveAboveLeftFacing"/>
    <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: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="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>
  <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: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 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 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: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>
  <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="ST_RectAlignment"/>
  </xsd:complexType>
  <xsd:complexType name="CT_FillTextEffect">
```

```
    <xsd:sequence>
      <xsd:group ref="EG_FillProperties" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>
  <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="algn" use="optional" type="ST_PenAlignment"/>
  </xsd:complexType>
  <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>
  <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>
  <xsd:group name="EG_RPrTextEffects">
    <xsd:sequence>
      <xsd:element name="glow" minOccurs="0" type="CT_Glow"/>
      <xsd:element name="shadow" minOccurs="0" type="CT Shadow"/>
      <xsd:element name="reflection" minOccurs="0" type="CT_Reflection"/>
      <xsd:element name="textOutline" minOccurs="0" type="CT_TextOutlineEffect"/>
      <xsd:element name="textFill" minOccurs="0" type="CT_FillTextEffect"/>
      <xsd:element name="scene3d" minOccurs="0" type="CT Scene3D"/>
      <xsd:element name="props3d" minOccurs="0" type="CT_Props3D"/>
    </xsd:sequence>
  </xsd:group>
  <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>
  <xsd:complexType name="CT_Ligatures">
    <xsd:attribute name="val" type="ST Ligatures" use="required"/>
  </xsd:complexType>
  <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>
  <xsd:complexType name="CT_NumForm">
    <xsd:attribute name="val" type="ST NumForm" use="required"/>
  </xsd:complexType>
  <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>
  <xsd:complexType name="CT_NumSpacing">
    <xsd:attribute name="val" type="ST_NumSpacing" use="required"/>
  </xsd:complexType>
  <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>
  <xsd:complexType name="CT_StylisticSets">
    <xsd:sequence minOccurs="0">
      <xsd:element name="styleSet" minOccurs="0" maxOccurs="unbounded" type="CT_StyleSet"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:group name="EG_RPrOpenType">
    <xsd:sequence>
      <xsd:element name="ligatures" minOccurs="0" type="CT Ligatures"/>
      <xsd:element name="numForm" minOccurs="0" type="CT_NumForm"/>
      <xsd:element name="numSpacing" minOccurs="0" type="CT NumSpacing"/>
      <xsd:element name="stylisticSets" minOccurs="0" type="CT_StylisticSets"/>
      <xsd:element name="cntxtAlts" minOccurs="0" type="CT_OnOff"/>
    </xsd:sequence>
  </xsd:group>
  <xsd:element name="discardImageEditingData" type="CT OnOff"/>
  <xsd:element name="defaultImageDpi" type="CT_DefaultImageDpi"/>
  <xsd:complexType name="CT_DefaultImageDpi">
    <xsd:attribute name="val" type="w:ST_DecimalNumber" use="required"/>
  </xsd:complexType>
  <xsd:element name="entityPicker" type="w:CT_Empty"/>
  <xsd:complexType name="CT SdtCheckboxSymbol">
    <xsd:attribute name="font" type="w:ST_String"/>
    <xsd:attribute name="val" type="w:ST_ShortHexNumber"/>
  </xsd:complexType>
  <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:schema>
```

5.2 http://schemas.microsoft.com/office/word/2012/wordml 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"
xmlns="http://schemas.microsoft.com/office/word/2012/wordml"
targetNamespace="http://schemas.microsoft.com/office/word/2012/wordml">
  <xsd:import id="w12"
namespace="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
schemaLocation="word12.xsd"/>
  <xsd:element name="color" type="w12:CT Color"/>
  <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>
  <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"/>
      <xsd:element name="doNotAllowInsertDeleteSection" type="w12:CT OnOff" minOccurs="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"
xmlns="http://schemas.microsoft.com/office/word/2015/wordml/symex"
targetNamespace="http://schemas.microsoft.com/office/word/2015/wordml/symex">
  <xsd:import id="w12"
namespace="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
schemaLocation="word12.xsd"/>
  <xsd:complexType name="CT_SymEx">
    <xsd:attribute name="font" type="w12:ST String"/>
    <xsd:attribute name="char" type="w12:ST_LongHexNumber"/>
  </xsd:complexType>
  <xsd:element name="symEx" type="CT_SymEx"/>
</xsd:schema>
```

5.4 http://schemas.microsoft.com/office/word/2016/wordml/cid 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"
xmlns="http://schemas.microsoft.com/office/word/2016/wordml/cid"
targetNamespace="http://schemas.microsoft.com/office/word/2016/wordml/cid">
  <xsd:import id="w12"
namespace="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
schemaLocation="word12.xsd"/>
  <xsd:attributeGroup name="decimaldurableId">
    <xsd:attribute name="durableId" type="w12:ST_DecimalNumber" use="optional"/>
  </xsd:attributeGroup>
  <xsd:attribute name="durableId" type="w12:ST_LongHexNumber"/>
  <xsd:complexType name="CT_CommentsIds">
    <xsd:sequence>
      <xsd:element name="commentId" type="CT_CommentId" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:complexType name="CT_CommentId">
    <xsd:attribute name="paraId" type="w12:ST_LongHexNumber" use="required"/>
    <xsd:attribute name="durableId" type="w12:ST LongHexNumber" use="required"/>
  </xsd:complexType>
  <xsd:element name="commentsIds" type="CT_CommentsIds"/>
</xsd:schema>
```

5.5 http://schemas.microsoft.com/office/word/2018/wordml 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"
xmlns="http://schemas.microsoft.com/office/word/2018/wordml"
targetNamespace="http://schemas.microsoft.com/office/word/2018/wordml">
  <xsd:import id="w12"
namespace="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
schemaLocation="word12.xsd"/>
  <xsd:complexType name="CT Extension">
    <xsd:sequence>
      <xsd:any processContents="lax"/>
    </xsd:sequence>
    <xsd:attribute name="uri" type="xsd:token"/>
  </xsd:complexType>
  <xsd:complexType name="CT ExtensionList">
    <xsd:sequence>
      <xsd:element name="ext" type="CT_Extension" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:schema>
```

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

```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:w12="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
xmlns:w16="http://schemas.microsoft.com/office/word/2018/wordml"
elementFormDefault="qualified" attributeFormDefault="qualified" blockDefault="#all"
xmlns="http://schemas.microsoft.com/office/word/2018/wordml/cex"
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:element name="extLst" type="w16:CT_ExtensionList" minOccurs="0" maxOccurs="1"/>
    </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:attribute name="durableId" type="w12:ST_LongHexNumber" use="required"/>
    <xsd:attribute name="dateUtc" type="w12:ST_DateTime" use="optional"/>
    <xsd:attribute name="intelligentPlaceholder" type="w12:ST_OnOff" use="optional"/>
  </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"
xmlns="http://schemas.microsoft.com/office/word/2020/wordml/sdtdatahash"
targetNamespace="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>
```

5.8 http://schemas.microsoft.com/office/word/2023/wordml/word16du Schema

```
<xsd:schema xmlns="http://schemas.microsoft.com/office/word/2023/wordml/word16du"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" blockDefault="#all"
elementFormDefault="qualified" attributeFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/word/2023/wordml/word16du">
  <xsd:attribute name="dateUtc" type="xsd:dateTime"/>
</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
- Microsoft Word LTSC 2024

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.

<1> Section 2.1.1: Office Word 2007 treats this part as an unknown relationship as specified in [ISO/IEC29500-1:2016] section 9.1.7.

<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 only available when used with Microsoft Office 365.

<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.

<17> Section 2.5.1.1: This element is not available in Word 2010 and earlier.

<18> Section 2.5.1.2: This element is not available in Word 2010 and earlier.

<19> Section 2.5.1.3: This element is not available in Word 2010 and earlier.

<20> Section 2.5.1.4: This element is not available in Word 2010 and earlier.

<21> Section 2.5.1.5: This element is not available in Word 2010 and earlier.

<22> Section 2.5.1.6: This element is not available in Word 2010 and earlier.

<23> Section 2.5.1.7: This element is not available in Word 2010 and earlier.

<24> Section 2.5.1.8: This element is not available in Word 2010 and earlier.

<25> Section 2.5.1.9: This element is not available in Word 2010 and earlier.

<26> Section 2.5.1.10: This element is not available in Word 2010 and earlier.

<27> Section 2.5.1.11: This element is not available in Word 2010 and earlier.

<28> Section 2.5.1.12: This element is not available in Word 2010 and earlier.

<29> Section 2.5.1.13: This element is not available in Word 2010 and earlier.

<30> Section 2.5.2.1: This attribute is not available in Word 2010 and earlier.

<31> Section 2.5.3.1: This type is not available in Word 2010 and earlier.

<32> Section 2.5.3.2: This type is not available in Word 2010 and earlier.

<33> Section 2.5.3.4: This type is not available in Word 2010 and earlier.

<34> Section 2.5.3.5: This type is not available in Word 2010 and earlier.

<35> Section 2.5.3.6: This type is not available in Word 2010 and earlier.

<36> Section 2.5.3.6: This value is only available when used with Office 365.

<37> Section 2.5.3.6: Older versions of Microsoft Word Online on Office 365 emitted values consisting of a unique identifier followed by the constant text "@LIVE.COM".

<38> Section 2.5.3.7: This type is not available in Word 2010 and earlier.

<39> Section 2.5.3.8: This type is not available in Word 2010 and earlier.

<40> Section 2.5.4.2: This type is not available in Word 2010 and earlier.

<41> Section 2.6.1.3: Word 2010 and later treat the content as a tracked deletion.

<42> Section 2.6.1.4: Word 2010 and later treat the parent as a tracked deletion.

<43> Section 2.6.1.5: Word 2010 and later treat the parent as a tracked insertion.

<44> Section 2.6.1.6: Word 2010 and later treat the content as a tracked insertion.

<45> Section 2.6.1.8: Word 2010 and later ignore this element.

<46> Section 2.6.1.9: Word 2010 and later ignore this element.

<47> Section 2.6.1.10: 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.

Section	Description	Revision class
6 Appendix B: Product Behavior	Updated list of supported products.	Major

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